

GENERAL INFORMATION ON THE JOURNALS

Triennial report

After a large increase in the previous triennium, the number of pages published in the journals fell back to a more normal level, mainly as a result of a shorter article format for Acta Crystallographica Section E. The number of pages published in 2008-2010 was 42074 compared with 48261 for 2005-2007 and 31521 for 2002-2004. Publication times remained low in the triennium.

The citation impact of IUCr Journals continued to be high, with the journals occupying two or three of the top six ranking positions in crystallography. One of the highlights of the triennium was an impact factor of 49.9 for Section A.. The primary cause of this record value was a single feature article by George Sheldrick, A short history of SHELX, which was published in the January 2008 issue of Section A.

Another highlight of the triennium was the publication of the 100000th article on Crystallography Journals Online. This online service has continued to be popular, with a total of nearly 9 million downloads of journal articles in the triennium. The highest number of downloads was for Section E. A major overhaul of the Crystallography Journals Online platform is planned for the next triennium.

The move of Section E to full open-access publication from 2008 has been a success with 11835 articles published in the triennium and this, combined with the continuing popularity of the hybrid open-access option for the other journals, has made the IUCr into an important open-access publisher.

Ethics in science publication has been topic of general concern. The triennium witnessed a number of high-profile retractions in the literature, and the end of 2009 saw the discovery during routine testing of checking software of scientific fraud involving papers published in Section E. This problem emphasized the importance of the role of Co-editors and reviewers in making sure that we carefully and thoroughly review all articles that are submitted for publication. Measures have been taken to improve the checking software as a result of experience with the falsified structures, but in the end the quality of our publications relies heavily on the judgements our Co-editors make based on experience and competent advice.

Obtaining competent reviews within a reasonable time is getting more and more difficult. To assist with this problem, a review panel has been introduced for Section F, and similar panels may be set up for other journals in the future. Other aspects of the submission and review system have been improved during the triennium and referees are now able to provide their reports online.

During the triennium more than 160 Section Editors and Co-editors worked on IUCr journals. The work of all these dedicated colleagues and of the competent and equally dedicated staff at Chester is essential to the well-being of the Journals and is highly appreciated.

Finally, let me especially thank the following retiring Section and Main Editors for their major commitment to serving the IUCr Journals, namely D. Schwarzenbach (Section Editor of Acta Cryst. Section A), C. P. Brock (Section Editor of Acta Cryst. Section B), J. Simpson (Section Editor of Acta Cryst. Section E), and A. Kvick and T. Ohta (Main Editors of Journal of Synchrotron Radiation). New Section Editors and Co-editors (over 70 across the eight journals) have been sought and nominated during the triennium. Extensive efforts were made to find suitable candidates for each particular position.

G. Kosterz, Editor-in-Chief and Chair of Commission

JOURNAL PRINTING AND DISTRIBUTION

The Editorial Office works with a printer in Singapore to produce the journals. All typesetting is carried out by the Editorial Office using SGML created from word-processing files or from CIFs. All figures are processed electronically by the office.

Printing of the journals is by direct-to-plate methods - a single PDF of the text of a whole issue is supplied to the printers, together with PDFs of inside and outside covers.

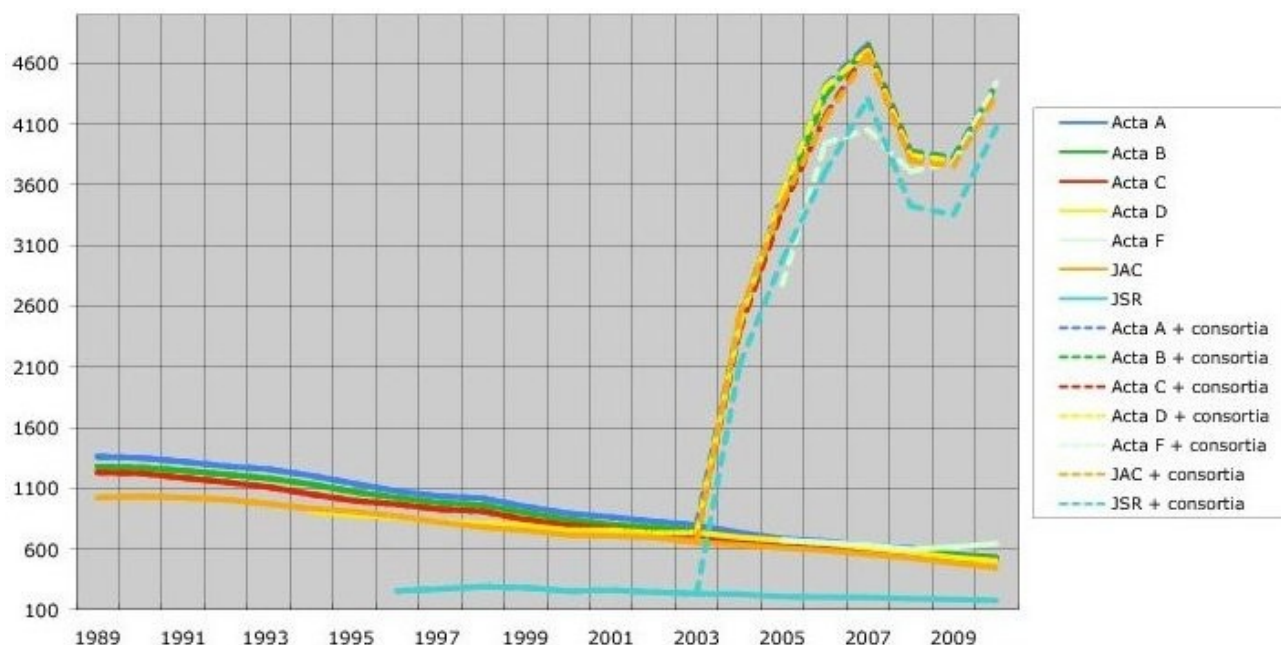
Standard litho printing is used for producing journal issues. Digital presses and digital printing are used for reprints ordered after a journal has been printed or for printed reprints for electronic only journals.

Distribution of the print journals is carried out by Wiley-Blackwell from Singapore. Distribution usually takes several weeks.

Printing is currently tied into a long-term contract that will end at the start of 2013. Printing quality, ease of communication and distribution costs are taken into account when selecting printers.

JOURNAL FINANCES AND SUBSCRIPTIONS

A graph of the number of subscribers to the journals is shown below.



The number of subscribers has decreased by 3-5 percent per annum over the last 15 years. From 2004, when the IUCr started to take part in consortial arrangements, the number of libraries that can access the journals has increased substantially, as libraries that have taken out a Wiley-Blackwell package deal can now access the journals.

Number of subscribers

The revenue derived from each consortial subscriber is small compared to subscription incomes, but member libraries that previously held subscriptions to the journals are required to maintain these as part of the access conditions for the consortium.

The policy of the IUCr Finance Committee has been to try to ensure that the journals make a small surplus for use by the Union for good causes (*e.g.* support for schools, educational exchange). The graph below shows that this has largely been achieved in the last two triennia. In recent years the surplus has been slightly larger because subscription revenues have held up better than expected and also because income from open access has been higher than expected.

Income/expenditure for IUCr Journals 1987-2012 (2011 and 2012 projected)



For 2012, the general journal price increase will be about 6%; this is the same as the average price increase applied by Wiley-Blackwell to their other journals.

There are two mechanisms that provide readers in developing countries with access the journals. The Journal Grants Fund, which is administered by the Chester Office, provides low-cost subscriptions to libraries. In addition, Wiley-Blackwell provide low-cost access to consortia in developing countries. Details of the libraries with this type of access can be requested from the Editorial Office.

GENERAL JOURNAL STATISTICS

Full statistical reports for the years 1997-2010 are available for viewing at your status home page at <http://wdc.iucr.org>, by following the link "Annual reports".

Manuscripts received by Co-editors

The number of manuscripts submitted to Acta in 2010 was 2% lower than in 2009. Submissions to Section E increased from 5113 to 5128 papers. Submissions to Section A fell from 116 to 100, submissions to Section B fell from 138 to 96 and submissions to Section C fell from 687 to 592. Submissions to Section D fell slightly from 205 to 201 and submissions to Section F fell slightly from 422 to 421. In total, 6538 Acta manuscripts were submitted, compared with 6681 in 2009 and 5367 in 2008.

The number of manuscripts submitted to JAC was 309, compared with 282 in 2009 and 258 in 2008.

A total of 186 manuscripts were submitted to JSR, compared with 166 in 2009 and 140 in 2008.

Manuscripts received by Co-editors

	2004	2005	2006	2007	2008	2009	2010
Acta A	135	98	99	106	96	116	100
Acta B	143	165	188	157	134	138	96
Acta C	1077	946	944	928	751	687	592
Acta D	499	233	236	193	191	205	201
Acta E	2383	3679	5107	6454	3846	5113	5128
Acta F	116	321	362	317	349	422	421
Acta total	4353	5442	6936	8155	5367	6681	6538
JAC	226	196	399	258	258	282	309
JSR	133	103	105	149	140	166	186
TOTAL	4712	5741	7440	8562	5765	7129	7033

Papers accepted

The number of Acta papers accepted for publication by Co-editors in 2010 was 5085, a 3% decrease on 2009 when 5233 were accepted. Section F showed an increase of 5% in the number of papers accepted for publication while Sections A, B, C, D and E showed decreases of 11%, 27%, 15%, 19% and 1%, respectively.

The number of papers accepted for JAC was 212, compared with 182 in 2009 and 148 in 2008.

A total of 123 papers were accepted for JSR, compared with 133 in 2009 and 95 in 2008.

Accepted papers received in Chester

	2004	2005	2006	2007	2008	2009	2010
Acta A	95	54	62	74	57	66	59
Acta B	91	96	132	91	89	91	66
Acta C	561	404	466	451	307	332	283
Acta D	446	211	201	148	137	172	145
Acta E	1899	2996	4183	5423	3245	4206	4147
Acta F	57	287	334	279	314	366	385
Acta total	3149	4048	5378	6466	4149	5233	5085

	2004	2005	2006	2007	2008	2009	2010
JAC	167	146	191	265	148	182	212
JSR	86	104	69	92	95	133	123
TOTAL	3402	4298	5638	6823	4392	5548	5420

Papers published

Overall, 10797 Acta pages were published in 2010, compared with 10372 in 2009 and 9432 in 2008. The number of printed pages decreased from 3945 to 3918. The number of electronic pages increased from 6427 to 6879. 724 pages were printed for Section A (548 in 2009), 706 for Section B (790 in 2009), 1134 for Section C (1258 in 2009) and 1354 for Section D (1349 in 2009). Section E published 5195 electronic only pages (5108 in 2009) and Section F published 1684 electronic only pages (1319 in 2009).

The average lengths of Full Articles in Sections B, C, E and F increased to 9.8, 4.0, 1.3 and 4.5 pages, respectively. The average lengths of Full Articles in Sections A and D decreased to 9.8 and 8.7 pages, respectively. Average publication times were the same for Sections C (1.9 months) and E (0.7 months) and increased for Sections A (5.7 months), B (5.2 months), D (5.1 months) and F (3.6 months).

The number of Full Articles published in JAC in 2009 was 165 (131 in 2009). The number of pages increased from 1212 in 2009 to 1543 in 2010. The average publication time increased to 5.7 months.

The number of Full Articles published in JSR in 2010 was 99 (107 in 2009). The number of pages decreased to 816 in 2010 (883 in 2009). The average review time decreased to 4.1 months and the technical editing time increased to 1.1 months; the overall publication time decreased to 5.2 months.

Pages(papers) published

	2005	2006	2007	2008	2009	2010
Acta A	622(74)	528(58)	510(66)	702(81)	548(56)	724(81)
Acta B	730(87)	1138(127)	940(110)	791(91)	790(90)	706(73)
Acta C	1412(439)	1450(447)	1510(451)	1197(332)	1258(331)	1134(284)
Acta D	1681(233)	1571(191)	1283(157)	1294(152)	1349(160)	1354(167)
Acta E	7439(2887)	9843(3991)	8375(5181)	4261(3556)	5108(4166)	5195(4113)
Acta F	1102(311)	1300(345)	1090(282)	1187(302)	1319(333)	1684(377)
Acta total	12896(4031)	15830(5159)	13708(6247)	9432(4514)	10717(5136)	10797(5095)
JAC	1045(157)	928(140)	1895(314)	1197(161)	1212(172)	1543(222)
JSR	838(136)	496(77)	535(76)	666(12)	883(132)	816(114)
TOTAL	14779(4324)	17254(5376)	16138(6637)	11295(4795)	12812(5440)	13156(5431)

Average publication times for full articles

	Year	Review process (months)	Editing/printing (months)	Publication time (months)
Acta A	2010	3.9	1.8	5.7
	2009	3.8	1.2	5.0
	2008	3.3	2.0	5.3
	2007	3.8	1.5	5.3
	2006	3.1	1.9	5.0
	2005	3.3	1.8	5.1
	2004	4.2	2.0	6.2
Acta B	2010	3.7	1.5	5.2
	2009	3.5	1.5	4.9
	2008	3.4	1.6	5.0
	2007	3.5	2.3	5.8

	Year	Review process (months)	Editing/printing (months)	Publication time (months)
	2006	3.6	2.6	6.3
	2005	3.7	2.1	5.8
	2004	2.9	1.9	4.8
Acta C	2010	1.3	0.5	1.9
	2009	1.3	0.6	1.9
	2008	1.1	0.7	1.8
	2007	1.0	1.0	2.1
	2006	1.1	1.1	2.2
	2005	1.3	1.1	2.4
	2004	1.1	1.2	2.3
Acta D	2010	2.9	2.2	5.1
	2009	2.6	1.9	4.5
	2008	2.7	1.7	4.4
	2007	2.8	1.6	4.4
	2006	3.2	1.9	5.1
	2005	3.4	2.4	5.8
	2004	2.5	1.8	4.3
Acta E	2010	0.5	0.3	0.7
	2009	0.4	0.3	0.7
	2008	0.5	0.3	0.8
	2007	0.5	0.3	0.8
	2006	0.6	0.3	0.9
	2005	0.6	0.2	0.8
	2004	0.5	0.2	0.8
Acta F	2010	2	1.6	3.6
	2009	1.9	0.9	2.8
	2008	1.9	0.8	2.6
	2007	1.8	0.6	2.4
	2006	1.7	0.6	2.3
	2005	1.7	0.5	2.2
JAC	2010	4.4	1.2	5.7
	2009	4.3	1.0	5.4
	2008	4.4	1.5	5.8
	2007	4.3	2.0	6.3
	2006	4.6	2.0	6.6
	2005	4.3	2.1	6.4
	2004	4.4	2.2	6.7
JSR	2010	4.1	1.1	5.2
	2009	4.4	0.9	5.3
	2008	3.9	2.5	6.4
	2007	3.5	1.5	5.0
	2006	4.8	1.7	6.6
	2005	6.1	2.7	8.8
	2004	4.9	1.7	6.5

Manuscripts rejected and withdrawn

The overall rejection and withdrawal rate (23%) was slightly higher than in 2009 (22%). The rejection and withdrawal rates were highest for Sections C (52%), B (40%) and A (39%), and lowest for Section F (9%).

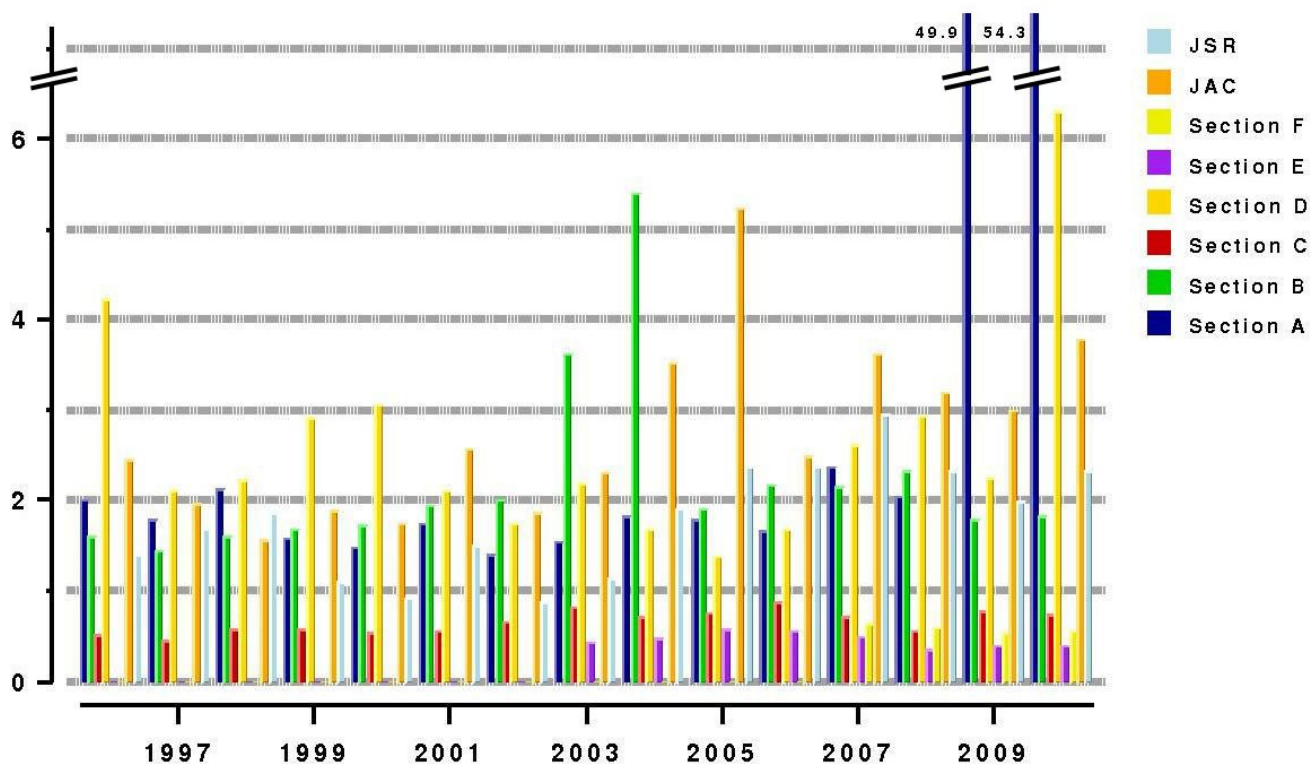
Manuscripts rejected and withdrawn

	Year	Number accepted	Number rejected	Number withdrawn	Rejection (%)	Withdrawal (%)
Acta A	2010	59	21	16	22	18
	2009	66	26	16	24	15
	2008	57	15	13	18	15
	2007	74	19	17	17	15
	2006	62	18	10	20	11
	2005	54	17	17	19	19
	2004	95	23	21	17	15
Acta B	2010	66	31	13	28	12
	2009	91	33	13	24	9
	2008	89	37	11	27	12
	2007	91	50	13	32	8
	2006	132	44	23	22	12
	2005	96	41	13	27	9
	2004	91	27	26	19	18
Acta C	2010	283	243	75	40	12
	2009	332	268	87	39	13
	2008	307	341	118	45	15
	2007	451	317	173	34	18
	2006	466	286	189	30	20
	2005	404	299	265	31	27
	2004	561	239	291	22	27
Acta D	2010	145	22	20	12	11
	2009	172	28	13	13	6
	2008	137	23	10	14	6
	2007	148	30	13	16	7
	2006	201	27	35	10	13
	2005	211	28	37	10	13
Acta E	2010	4147	536	404	11	8
	2009	4206	542	383	11	7
	2008	3245	391	247	10	6
	2007	5423	644	430	10	7
	2006	4183	566	325	11	6
	2005	2996	342	256	10	7
	2004	1899	253	203	11	9
Acta F	2010	385	17	22	4	5
	2009	366	16	22	4	5
	2008	314	21	12	6	3
	2007	279	19	12	6	4
	2006	334	14	17	4	5
	2005	287	13	17	4	5

	Year	Number accepted	Number rejected	Number withdrawn	Rejection (%)	Withdrawal (%)
	2004	57	1	1	2	2
JAC	2010	212	60	37	19	12
	2009	182	66	27	24	10
	2008	148	56	38	23	16
	2007	265	58	23	17	7
	2006	191	56	29	20	11
	2005	146	33	23	16	11
	2004	167	26	33	12	15
JSR	2010	123	31	13	19	8
	2009	133	25	10	15	6
	2008	95	28	14	10	10
	2007	92	17	9	14	8
	2006	69	12	9	13	10
	2005	104	7	5	6	4
	2004	86	10	13	9	12
Overall	2010	5420	961	600	14	9
	2009	5548	1004	571	14	8
	2008	4392	912	463	16	8
	2007	6823	1154	690	13	8
	2006	5638	1023	637	14	9
	2005	4298	780	633	14	11
	2004	3402	616	621	13	13

Citation statistics

The citation statistics for 1996-2010 are shown below.



For 2010, nearly all the journals had improved impact factors, the most impressive change being for Section D, which went up to 6.3. Section A remained second in the overall listing of science journals, with an impact factor of 54.3.

Citation information for crystallography (2010)

Rank	Abbreviated Journal Title	2010 Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	2010 Articles Cited	Cited Half Life	Eigenfactor Score	Article Influence Score
1	ACTA CRYSTALLOGR A	13944	54.33	24.72	0.63	70	6.2	0.05	8.55
2	PROG CRYST GROWTH CH	577	6.75	4.3	0	3	10	0	1.44
3	ACTA CRYSTALLOGR D	11096	6.33	4.1	2.9	157	9	0.03	1.81
4	CRYST GROWTH DES	15077	4.39	4.7	0.86	741	3.1	0.05	0.99
5	CRYSTALLOGR REV	180	4.09		0.3	10	6.3	0	
6	CRYSTENGCOMM	6240	4.01	4.11	0.74	626	3	0.02	0.85
7	J APPL CRYSTALLOGR	18840	3.79	4.19	1.91	198	>10.0	0.03	1.92
8	J MOL GRAPH MODEL	4319	2.03	2.27	0.21	110	>10.0	0.01	0.64
9	POLYHEDRON	12863	2.03	2	0.54	463	7.2	0.02	0.43
10	ACTA CRYSTALLOGR B	9914	1.83	2.03	0.4	72	>10.0	0.01	0.75
11	J CRYST GROWTH	24664	1.74	1.85	0.28	629	7.3	0.06	0.58
12	STRUCT CHEM	1299	1.73	1.48	0.21	146	5	0	0.24
13	LIQ CRYST	3828	1.65	1.4	0.23	171	>10.0	0	0.31
14	J INCL PHENOM MACRO	2221	1.22	1.21	0.3	161	7.6	0	0.26
15	Z KRISTALLOGR	3730	1.16	1.55	0.45	83	>10.0	0.01	0.75
16	PHASE TRANSIT	1028	1.01	0.99	0.23	104	7.4	0	0.42
17	CRYST RES TECHNOL	2374	0.95	1.05	0.19	209	6.5	0.01	0.33
18	ACTA CRYSTALLOGR C	5878	0.75	0.63	0.25	280	>10.0	0.01	0.16
19	J CHEM CRYSTALLOGR	1026	0.67	0.64	0.16	226	6.1	0	0.15
20	CRYSTALLOGR REP+	1876	0.64	0.57	0.09	195	>10.0	0	0.21
21	CHINESE J STRUC CHEM	1042	0.62	0.53	0.04	303	4.4	0	0.07
22	ACTA CRYSTALLOGR F	885	0.56	0.48	0.39	367	2.7	0.01	0.22
23	MOL CRYST LIQ CRYST	4656	0.54	0.5	0.11	392	>10.0	0.01	0.14
24	ACTA CRYSTALLOGR E	9727	0.41	0.34	0.39	4085	3.1	0.02	0.05
25	Z KRIST NEW CRYST ST	718	0.22	0.23	0.07	352	7.2	0	0.05

Citation information for instruments and instrumentation (2010)

Rank	Abbreviated Journal Title	2010 Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	2010 Articles Cited	Cited Half Life	Eigenfactor Score	Article Influence Score
1	LASER PHYS LETT	2862	6.01	3.92	1.29	145	2.3	0.01	0.66
2	APPL SPECTROSC REV	710	3.69	4.75	0.6	20	5	0	1.29
3	MICROFLUID NANOFLUID	1765	3.5	3.63	0.48	186	2.6	0.01	1.07
4	IEEE T IND ELECTRON	10294	3.44	3.82	0.24	434	4.1	0.03	0.78
5	SENSOR ACTUAT B CHEM	23485	3.37	3.34	0.58	770	5.2	0.06	0.77
6	J INSTRUM	1307	3.15	2.54	0.68	258	2.2	0.01	0.89
7	J SYNCHROTRON RADIAT	3292	2.34	3.1	0.57	104	6.4	0.01	1.47
8	J MICROMECH MICROENG	7858	2.28	2.54	0.37	472	4.9	0.03	0.76

Rank	Abbreviated Journal Title	2010 Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	2010 Articles Cited	Cited Half Life	Eigenfactor Score	Article Influence Score
9	CHEMOMETR INTELL LAB	3971	2.22	2.42	0.26	100	9.1	0.01	0.65
10	STRUCT HEALTH MONIT	467	2.12	2.14	0.1	39	5	0	0.81
11	SMART MATER STRUCT	5654	2.09	2.29	0.33	314	5.2	0.02	0.73
12	MABS-AUSTIN	159	1.98	1.98	0.79	58	1.3	0	0.76
13	SENSOR ACTUAT A PHYS	10492	1.93	2.01	0.25	335	6.5	0.03	0.62
14	SENSORS-BASEL	3154	1.77	1.92	0.2	641	2.6	0.01	0.48
15	APPL SPECTROSC	6775	1.73	1.95	0.31	197	>10.0	0.01	0.5
16	J X-RAY SCI TECHNOL	225	1.71	1.24	0.05	38	4.6	0	0.25
17	METROLOGIA	2162	1.68	1.63	0.55	94	6.8	0.01	0.51
18	PRECIS ENG	1261	1.62	1.49	0.25	95	8.7	0	0.64
19	REV SCI INSTRUM	21869	1.6	1.75	0.39	1145	8.1	0.06	0.71
20	IEEE SENS J	2585	1.47	1.59	0.27	264	4	0.01	0.51
21	J CHEMOMETR	2184	1.38	1.86	0.44	77	8.3	0	0.54
22	MEAS SCI TECHNOL	7252	1.35	1.53	0.3	460	6.3	0.02	0.54
23	SCANNING	706	1.33	1.25	0.15	41	>10.0	0	0.39
24	SMART STRUCT SYST	235	1.32	1.29	0.28	64	2.7	0	0.34
25	IET CONTROL THEORY A	728	1.28	1.55	0.07	266	3	0	0.49
26	DISPLAYS	600	1.21	1.43	0.21	34	6.4	0	0.45
27	J RES NATL INST STAN	1679	1.17	0.93	0	32	>10.0	0	0.42
28	NUCL INSTRUM METH A	19927	1.14	1.11	0.22	1291	7.1	0.05	0.36
29	IEEE T INSTRUM MEAS	5114	1.1	1.15	0.17	364	7.2	0.01	0.31
30	J GUID CONTROL DYNAM	3557	1.05	1.24	0.11	187	9.6	0.01	0.42
31	NUCL INSTRUM METH B	14343	1.04	0.98	0.31	693	7.4	0.04	0.33
32	STRUCT CONTROL HLTH	366	0.96	1.26	0.13	47	4.2	0	0.66
33	RADIO SCI	2932	0.95	0.93	0.12	75	>10.0	0.01	0.46
34	CONCEPT MAGN RESON B	227	0.94	1.28	0.12	26	4.9	0	0.57
35	INFRARED PHYS TECHN	1357	0.93	1.15	0.28	72	8.9	0	0.34
36	ISA T	457	0.92	0.84	0.12	66	6.3	0	0.22
37	MEASUREMENT	1013	0.85	0.88	0.15	195	5.2	0	0.26
38	FLOW MEAS INSTRUM	621	0.81	1.22	0.04	70	7.6	0	0.48
39	ACCREDIT QUAL ASSUR	689	0.79	0.8	0.36	67	6	0	0.16
40	SENSOR LETT	537	0.6	0.76	0.14	140	3.2	0	0.22
41	METROL MEAS SYST	101	0.59		0.1	52	2.5	0	
42	SENSOR REV	222	0.48		0.05	39	6.3	0	
43	QIRT J	48	0.47		0	15		0	
44	T I MEAS CONTROL	169	0.46	0.54	0	36	7.4	0	0.16
45	INSTRUM SCI TECHNOL	212	0.45	0.37	0.08	38	6.2	0	0.1
46	IEEE INSTRU MEAS MAG	189	0.44	0.63	0.14	37	5.4	0	0.2
47	INSIGHT	437	0.43	0.51	0.03	68	6.1	0	0.22
48	J DYN SYST-T ASME	1678	0.41	0.87	0.06	100	>10.0	0	0.33
49	MEAS SCI REV	112	0.4		0.06	36	5.3	0	
50	INSTRUM EXP TECH+	699	0.36	0.33	0.07	167	8.9	0	0.14
51	SENSOR MATER	243	0.35	0.45	0.1	39	7.2	0	0.17
52	J AUTOM METHOD MANAG	57	0.35	0.57	0	6		0	0.11
53	MAPANJ METROL SOC I	46	0.29		0.15	26		0	
54	AUTOMAT REM CONTR+	893	0.24	0.26	0.04	226	>10.0	0	0.11

Rank	Abbreviated Journal Title	2010 Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	2010 Articles Cited	Cited Half Life	Eigenfactor Score	Article Influence Score
55	AM LAB	297	0.23	0.21	0.04	55	9.2	0	0.07
56	TM-TECH MESS	129	0.21	0.2	0.04	78	5.2	0	0.05
57	MEAS CONTROL-UK	164	0.21	0.3	0.08	39	8.5	0	0.08
58	ROM J INF SCI TECH	31	0.19	0.23				0	0.05
59	MEAS TECH+	338	0.15	0.13	0.04	170	6.6	0	0.04
60	SMPTE MOTION IMAG J	25	0.09	0.12	0.02	44		0	0.05
61	CONTROL ENG	77	0.03	0.03	0.02	63		0	0.01

Citation information for optics (2010)

Rank	Abbreviated Journal Title	2010 Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	2010 Articles Cited	Cited Half Life	Eigenfactor Score	Article Influence Score
1	NAT PHOTONICS	6953	26.44	29.65	6.17	105	2.3	0.06	15.47
2	LASER PHOTONICS REV	788	9.3	8.86	1.91	45	2.1	0.01	4.19
3	ADV ATOM MOL OPT PHY	830	4.95	2.99	0.4	5	>10.0	0	2.03
4	PROG OPTICS	968	4.21	3.66	0	6	>10.0	0	1.9
5	OPT EXPRESS	46603	3.75	3.94	0.74	2943	3.4	0.23	1.26
6	IEEE J SEL TOP QUANT	6804	3.46	3.63	0.65	199	5.8	0.02	1.28
7	OPT LETT	43482	3.32	3.55	0.74	1407	6.4	0.13	1.19
8	J BIOMED OPT	7255	3.19	3.66	0.4	421	4.3	0.02	0.88
9	PHYS REV A	84545	2.86	2.75	0.78	2849	8.3	0.23	1.05
10	PHOTONIC NANOSTRUCT	357	2.75	2.21	0.42	41	3	0	0.79
11	IEEE J QUANTUM ELECT	10533	2.48	2.27	0.53	254	>10.0	0.01	0.75
12	IEEE PHOTONICS J	110	2.34	2.34	0.31	112	1.3	0	1.04
13	J SYNCHROTRON RADIAT	3292	2.34	3.1	0.57	104	6.4	0.01	1.47
14	J LIGHTWAVE TECHNOL	13565	2.26	2.56	0.57	388	6	0.05	0.93
15	APPL PHYS B-LASERS O	8864	2.24	2.19	0.46	467	5.8	0.03	0.75
16	J OPT SOC AM B	10905	2.1	2.01	0.45	414	8.9	0.03	0.75
17	IEEE PHOTONIC TECH L	13537	1.99	1.85	0.44	583	5.8	0.05	0.67
18	J OPT SOC AM A	13437	1.93	1.97	0.44	332	>10.0	0.02	0.63
19	J PHYS B-AT MOL OPT	13106	1.9	1.79	0.47	535	9.4	0.03	0.69
20	J NANOPHOTONICS	278	1.85		0.54	59	2.4	0	
21	J LUMIN	8000	1.8	1.9	0.38	431	6.2	0.02	0.57
22	J X-RAY SCI TECHNOL	225	1.71	1.24	0.05	38	4.6	0	0.25
23	APPL OPTICS	33723	1.7	1.77	0.37	1000	>10.0	0.05	0.5
24	OPT MATER	5335	1.68	1.83	0.26	290	5.2	0.02	0.57
25	J DISP TECHNOL	703	1.67	2.3	0.44	89	3.3	0.01	0.9
26	J OPT A-PURE APPL OP	3141	1.66	1.73		0	4.5	0.02	0.62
27	OPT LASER TECHNOL	1650	1.62	1.27	0.4	213	3.8	0.01	0.37
28	MICROELECTRON ENG	6432	1.57	1.54	0.39	552	4.6	0.03	0.51
29	OPT LASER ENG	2076	1.57	1.61	0.69	185	5	0.01	0.45
30	IMAGE VISION COMPUT	3159	1.53	1.84	0.31	150	7	0.01	0.64
31	OPT COMMUN	16655	1.52	1.47	0.4	919	7.4	0.04	0.42
32	J OPT NETW	558	1.51	1.38			3.7	0	0.63

Rank	Abbreviated Journal Title	2010 Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	2010 Articles Cited	Cited Half Life	Eigenfactor Score	Article Influence Score
33	INT J PHOTOENERGY	406	1.35	1.36	0.18	28	5.2	0	0.42
34	LASER PHYS	1855	1.32	0.95	0.34	338	3.1	0.01	0.27
35	DISPLAYS	600	1.21	1.43	0.21	34	6.4	0	0.45
36	J MICRO-NANOLITH MEM	334	1.19	1.21	0.18	91	1.9	0	0.25
37	J OPT COMMUN NETW	133	1.13	1.13	0.26	101	1.4	0	0.34
38	IET OPTOELECTRON	136	1.11	1.06	0.07	30	2.6	0	0.29
39	J EUR OPT SOC-RAPID	183	1.04	0.97	0.63	56	2.1	0	0.34
40	OPTO-ELECTRON REV	469	1.03	1.08	0.34	64	4.8	0	0.33
41	J LASER MICRO NANOEN	153	1.02	0.82	0.04	53	2.7	0	0.24
42	J MOD OPTIC	3782	0.99	0.96	0.21	244	9.3	0.01	0.37
43	OPT SWITCH NETW	89	0.96		0.2	20		0	
44	INFRARED PHYS TECHN	1357	0.93	1.15	0.28	72	8.9	0	0.34
45	J OPT SOC KOREA	188	0.89		0.27	67	2.1	0	
46	J SOC INF DISPLAY	810	0.86	0.82	0.08	152	3.9	0	0.3
47	OPT FIBER TECHNOL	546	0.84	0.89	0.33	63	7.1	0	0.28
48	J INFRARED MILLIM TE	136	0.82	0.82	0.16	154	1.4	0	0.23
49	OPT ENG	6151	0.82	0.84	0.11	404	9	0.01	0.22
50	LIGHTING RES TECHNOL	420	0.74		0.04	28	9.8	0	
51	J LASER APPL	408	0.69	0.92	0	23	7.6	0	0.35
52	CHIN OPT LETT	841	0.69	0.14	322	2.8		0	
53	INT J IMAG SYST TECH	408	0.68	0.71	0.11	45	8.4	0	0.29
54	INT J OPTOMECHATRONI	51	0.68	0.72	0.08	25		0	0.18
55	INT J INFRARED MILLI	847	0.67	0.58		0	9.7	0	0.21
56	UKR J PHYS OPT	75	0.66		0.29	31		0	
57	MICROW OPT TECHN LET	4012	0.66	0.57	0.11	781	4.6	0.02	0.19
58	J RUSS LASER RES	287	0.64	0.75	0.1	61	4.6	0	0.15
59	LEUKOS	58	0.62	0.54	0.5	8		0	0.19
60	PHOTONIC NETW COMMUN	303	0.6	0.63	0.08	67	5.1	0	0.17
61	OPT SPECTROSC+	2171	0.57	0.5	0.17	286	10	0	0.14
62	J NONLINEAR OPT PHYS	281	0.55	0.49	0.05	81	6.9	0	0.15
63	OPT REV	599	0.55	0.65	0.23	101	6.5	0	0.19
64	OPT QUANT ELECTRON	1282	0.51	0.73	0.31	16	9.4	0	0.23
65	FIBER INTEGRATED OPT	199	0.51	0.55	0.06	36	7.1	0	0.17
66	J ELECTRON IMAGING	892	0.51	0.68	0.05	108	6.8	0	0.23
67	OPTOELECTRON ADV MAT	427	0.48	0.47	0.27	509	1.5	0	0.08
68	OPTIK	1335	0.45	0.58	0.07	410	>10.0	0	0.13
69	J INFRARED MILLIM W	322	0.45	0.38	0.01	103	4.7	0	0.05
70	J OPTOELECTRON ADV M	1805	0.41	0.48	0.17	413	4.1	0.01	0.11
71	MICROLITHOGR WORLD	25	0.38	0.21		0		0	0.03
72	LASER FOCUS WORLD	301	0.35	0.28	0.09	78	6.1	0	0.08
73	OPT APPL	221	0.35	0.34	0.08	97	4.6	0	0.08
74	J OPT TECHNOL+	435	0.31	0.29	0.05	156	5.3	0	0.07
75	PHOTONIC SPECTRA	159	0.16	0.13	0.19	16	4.8	0	0.04
76	LASER ENG	99	0.13	0.2	0.04	50		0	0.09
77	LIGHT ENG	19	0.04		0	54		0	
78	J OPTICS-UK	100			0.35	286	0.5	0	

ONLINE JOURNALS AND RECENT DEVELOPMENTS

The Crystallography Journals Online system now contains approximately 110000 articles and 365000 pages. The main policy aim in recent years has been to make the journal content as visible and accessible as possible. The chief methods for achieving this aim have been to publish open-access articles, increase the number of organisations indexing Crystallography Journals Online and to include journal articles in other online journal platforms (*e.g.* Wiley Online Library, PubMed Central).

IUCr content is indexed by Google, Scirus, Scitopia, and a number of other search engines. In addition to search engines, we also make information about our content available by means of email alerts and RSS feeds.

In the last three years our content on the Wiley-Interscience platform has been moved to Wiley Online Library, and we have increased the number of articles that we make available on PubMed Central. The Wiley Online Library service provides access to a large number of consortia worldwide, including some in developing countries.

Linking to the ISI Web of Science is now provided and some work has been done in the last year to link to structural data in the online version of the Cambridge database (webCSD). Linking to data in the PDB, and to other publishers' articles (*e.g. via* MEDLINE, CHEMPORT and CrossRef) is well established.

The Crystallography Journals Online website is to be redesigned over the next 1-2 years. Other projects in Chester that have been undertaken recently or are forthcoming include:

- Submission/review system
 - Closer integration of submission and status systems
 - Provision of online reporting by referees
 - Improved Co-editor access to correspondence
 - Revised submission procedures (figure and supplementary files now requested during initial submission)
 - Linking to researcher IDs in systems such as the World Directory and ORCID
 - Structure-factor checking and other measures for fraud prevention
 - CrossCheck implementation
- Author tools (Word template, *publBio*, enhanced figure toolkit, *publCIF*, *printCIF*)
- Improved LaTeX and WORD handling during production
- Capturing, storing, searching and publishing chemical content
- Standard usage statistics
- Payment systems
- Completion of back content
- Archiving and content distribution
- Reference processing and linking

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Open access

Open access became available on Crystallography Journals Online in January 2004. After acceptance, authors are given the opportunity, by payment of a fee, to make their papers available as open-access articles in the electronic version of the journal. More details of the policy are available at <http://journals.iucr.org/services/openaccess.html>.

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Section E charges an open-access publication fee of USD 150 per article to cover the costs of peer review, journal production, and online hosting and archiving. The journal was made a full open-access journal at the start of 2008, and the number of articles submitted averages more than 400 per month.

In 2010, a total of 4226 open-access articles were published - 4113 in Acta E and 113 spread across other journals:

Acta A, 2 in 2010, 32 overall
 Acta B, 3 in 2010, 69 overall
 Acta C, 1 in 2010, 227 overall
 Acta D, 37 in 2010, 422 overall
 Acta E, 4113 in 2010, 12385 overall
 Acta F, 40 in 2010, 135 overall
 JAC, 10 in 2010, 247 overall
 JSR, 20 in 2010, 110 overall

At the start of 2011, 13627 open-access articles were available from Crystallography Journals Online.

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INFORMATION ON SECTION A

Numbers at a glance - Acta Crystallographica Section A

Institutional subscriptions	Licensed sales	Multiyear Licenses	Full-text downloads 2010	Impact factor 2010	Ranking 2010
495	>3900	376	627491	54.33	1 of 25

Journal profile

Acta Crystallographica Section A: Foundations of Crystallography covers theoretical and fundamental aspects of the structure of matter. The journal is the prime forum for research in diffraction physics and the theory of crystallographic structure determination by diffraction methods using X-rays, neutrons and electrons. The structures include periodic and aperiodic crystals, and non-periodic disordered materials, and the corresponding Bragg, satellite and diffuse scattering, thermal motion and symmetry aspects. Spatial resolutions range from the subatomic domain in charge-density studies to nanodimensional imperfections such as dislocations and twin walls. The chemistry encompasses metals, alloys, and inorganic, organic and biological materials. Structure prediction and properties such as the theory of phase transformations are also covered.

Triennial report

Acta Crystallographica Section A

Section A has continued to publish six issues per year. Among these, there were two full and one partial special issues: (a) A 271 page celebration issue "Crystallography across the sciences 2" on the occasion of the 60th anniversary of IUCr, containing 24 feature articles, was edited by Henk Schenk and published in January 2008. It contains several very well cited articles. (b) A 148-page issue "Dynamical structural science", containing 14 research papers on time-resolved crystallography, was edited by Eric Collet and published in March 2010. (c) Five research papers on "Structural transitions in solids" comprising 53 pages were edited by Stefano Leoni and published in September 2010. In addition to the special issues, Section A published two Lead Articles (28 pages on "tilings and nets" in 2009, and 33 pages on "mode crystallography" in 2010) and two historical Feature Articles (on "IUCr Journals" in 2009 and on the "ECC and the ECMs" in 2010).

In the following, numbers always refer to the three years 2008, 2009 and 2010, respectively. The total number of pages published was 702, 548 and 724. Of these, 677, 455 and 674 pages were devoted to 66, 43 and 68 scientific articles (Research Papers, and Lead and Feature Articles) and to 6, 5 and 3 Short Communications. The number of submitted Research Papers, 42, 41 and 47, remained roughly constant, but the total number of scientific papers and pages is larger than in the period 2005-2007. There were no very slim issues. The shrinking of Section A has thus stopped, and this trend is not only due to the special issues (there were also special issues in the previous triennial period). The average length of scientific articles remains at about 10 pages (10.0, 10.3, 9.8). Publication times (5.3, 5.0, 5.7 months) in the current triennium have increased to an average of about 5.3 months compared with 5.1 months in the previous triennium. Refereeing and deciding on acceptance take about 3.7 months which seems to be rather long. However, finding willing referees for certain submissions is not always easy, some referees do not respond and others ask for significant extensions of deadlines. Important revisions sometimes demand a major effort of authors. Rejection and withdrawal rates remained high at 33, 39 and 39%. The geographical distribution of the origins of the articles (counted as integral and half-integral numbers) is remarkably stable with 60% for Europe, 23% for the Americas and 17% for Asia-Australia. The impact factors of 2.4 in 2007 and 2.1 in 2008 are somewhat higher than in previous years, but a record value of 49.9 was attained in 2009 due a single publication as explained in the editorial of November 2010. The journal also published 642 pages of abstracts for the XXI IUCr congress, 345 pages for ECM25 and 320 pages for ECM26.

Section A covers all topics within crystallography which may be defined as the science of the structure of matter at atomic resolution. The contents of the papers are diverse. The topics may be grouped somewhat arbitrarily into three categories: (i) structure determination with any radiation (phasing, refinement, charge density, aperiodic structures); (ii) structure properties (group theory, tensorial properties, crystal chemistry, topology); (iii) other forms of matter (diffraction physics, diffuse scattering, nano science, time-resolved studies, single-particle studies). These categories are on average of about equal importance, even though percentages vary from year to year. A few years ago, it seemed that electron diffraction was disappearing from Section A, but this trend has reversed with submissions belonging to the categories (i) and (ii). Neutron diffraction is nearly absent. There is continued submission of manuscripts of

macromolecular interest. Some referees would like to see all publications on macromolecular phasing methods in Section D while others applaud the choice of Section A.

Authors now use the electronic submission system almost exclusively. Some referees ask to receive the manuscript directly from, and send the report directly to, the Co-editor. Since Section A Co-editors handle relatively few but often rather long and difficult manuscripts, each of which presents its own characteristics and problems, the handling through Chester does not seem to facilitate operations as much as for other Sections. The electronic system works well enough for all operations a submission might require, but a direct contact with the author is easier when there is no appropriate form letter available.

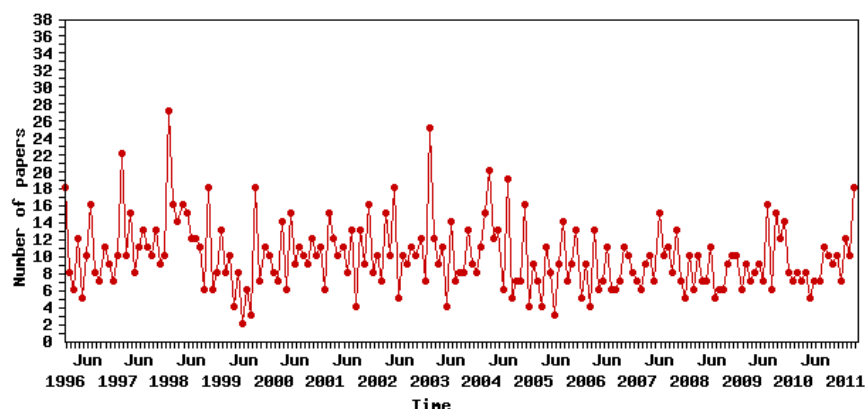
The success of Section A is due to the combined efforts of many persons. The collaboration with the Editorial Office in Chester is extremely good, always efficient with very fast and competent answers to all questions. I thank in particular Sue Barnes and Nicola Ashcroft for their competent work and friendly communication. I also thank all the Co-editors, many of whom will retire in 2011, for their often difficult work and decisions. And I thank their successors for their willingness to carry on.

D. Schwarzenbach, Editor

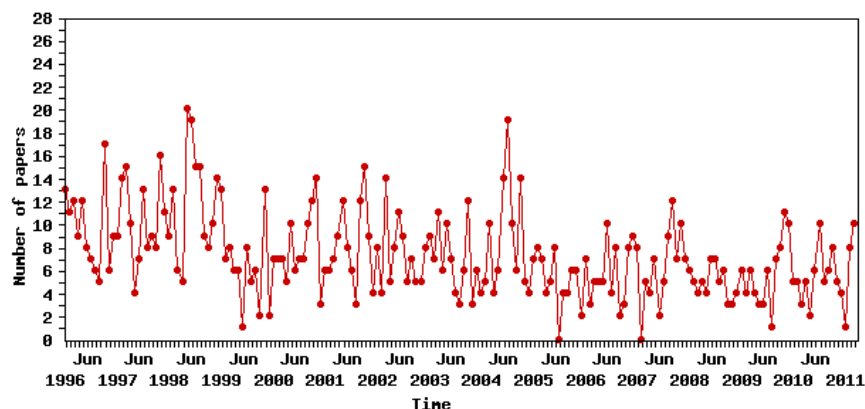
Recent and forthcoming special issues

- Abstracts of IUCrXXI, Osaka (autumn 2008)
- Abstracts of ECM25, Istanbul (autumn 2009)
- Dynamical Structural Science (March 2010)
- Structural Transitions in Solids (September 2010)
- Abstracts of ECM26 Darmstadt (autumn 2010)
- Abstracts of IUCrXXII Madrid (autumn 2011)
- Joint von Laue Special Issue with Z. Krist. (January 2012)

Acta Crystallographica Section A - papers submitted (1996-2011)



Acta Crystallographica Section A - papers accepted (1996-2011)



Feature and lead articles published in Acta Crystallographica Section A

Vol.	Part	First page	ISI citation	Authors	Title
2008					
64	1	1	20	Steurer, W., Deloudi, S.	Fascinating quasicrystals
64	1	12	26	Niimura, N., Bau, R.	Neutron protein crystallography: beyond the folding structure of biological macromolecules
64	1	23	5	Welberry, T.R., Goossens, D.J.	The interpretation and analysis of diffuse scattering using Monte Carlo simulation methods
64	1	33	6	Sayre, D.	Report on a project on three-dimensional imaging of the biological cell by single-particle X-ray diffraction
64	1	36	1	Shapiro, D.A.	Report on a project on three-dimensional imaging of the biological cell by single-particle X-ray diffraction. Addendum
64	1	38	2	Strickland, P.R., McMahon, B.	Crystallographic publishing in the electronic age
64	1	52	44	David, W.I.F., Shankland, K.	Structure determination from powder diffraction data
64	1	65	2	Cranswick, L.M.D.	Busting out of crystallography's Sisyphean prison: from pencil and paper to structure solving at the press of a button: past, present and future of crystallographic software development, maintenance and distribution
64	1	88	32	Berman, H.M.	The Protein Data Bank: a historical perspective
64	1	96	3	Nespolo, M.	Does mathematical crystallography still have a role in the XXI century?
64	1	112	9868	Sheldrick, G.M.	A short history of SHELX
64	1	123	32	Oszlanyi, G., Suto, A.	The charge flipping algorithm
64	1	135	14	Katrusiak, A.	High-pressure crystallography
64	1	149	20	Zou, X.D., Hovmoller, S.	Electron crystallography: imaging and single-crystal diffraction from powders
64	1	161	0	Giustetto, R., Chiari, G., Compagnoni, R.	An easy non-invasive X-ray diffraction method to determine the composition of Na-pyroxenes from high-density 'greenstone' implements
64	1	169	15	Margiolaki, I., Wright, J.P.	Powder crystallography on macromolecules
64	1	181	4	Stuhrmann, H.B.	Small-angle scattering and its interplay with crystallography, contrast variation in SAXS and SANS
64	1	192	24	Pandey, D., Singh, A.K., Baik, S.	Stability of ferroic phases in the highly piezoelectric Pb(Zr _x Ti _{1-x})O ₃ ceramics
64	1	204	0	Bartlam, M., Xue, X., Rao, Z.	The search for a structural basis for therapeutic intervention against the SARS coronavirus
64	1	214	0	Cranswick, L.M.D., Bisson, W., Cockcroft, J.K.	Nexus, crystallographic computing all around the world
64	1	218	25	Boldyreva, E.V.	High-pressure diffraction studies of molecular organic solids. A personal view
64	1	232	9	Takata, M.	The MEM/Rietveld method with nano-applications - accurate charge-density studies of nano-structured materials by synchrotron-radiation powder diffraction
64	1	246	3	Derewenda, Z.S.	On wine, chirality and crystallography
64	1	259	6	Cole, J.M.	Photocrystallography
2009					
65	2	81	7	Ramsden, S.J., Robins, V., Hyde, S.T.	Three-dimensional Euclidean nets from two-dimensional hyperbolic tilings: kaleidoscopic examples
65	3	167	0	Authier, A.	60 years of IUCr journals
2010					
66	1	1	0	Authier, A.	The birth of the European Crystallographic Committee (ECC) and of the European Crystallographic Meetings (ECMs)

Vol.	Part	First page	ISI citation	Authors	Title
66	5	558	2	Perez-Mato, J.M., Orobengoa, D., Aroyo, M.I.	Mode crystallography of distorted structures

Acta Crystallographica Section A - journals citing

Impact	Citing Journal	Cited Year											
		All Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
	All Journals	14394	21	5966	125	121	138	150	189	105	110	71	7398
0.41	ACTA CRYSTALLOGR E	4888	0	4094	2	4	0	0	2	0	0	0	786
	INT TBLS CRYST	479	0	1	0	2	0	5	2	5	2	1	461
0.78	ACTA CRYSTALLOGR C	419	0	308	1	3	0	1	2	0	0	0	104
4.66	INORG CHEM	351	0	93	5	1	1	8	11	3	4	2	223
4.08	DALTON T	321	0	102	11	2	2	0	5	1	1	0	197
	ALL OTHERS (289)	289	0	19	2	12	11	3	5	4	4	1	228
3.48	PHYS REV B	222	2	11	1	8	11	8	1	2	6	2	170
4.2	ORGANOMETALLICS	213	0	82	0	0	1	1	1	0	0	0	128
3.02	J APPL CRYSTALLOGR	192	1	20	4	3	5	4	1	11	11	1	131
2.26	ACTA CRYSTALLOGR D	183	0	30	2	1	1	4	1	4	0	2	138
49.93	ACTA CRYSTALLOGR A	181	5	12	11	12	13	10	7	0	7	5	99
2.21	POLYHEDRON	170	0	64	1	1	0	1	2	0	0	0	101
5.38	CHEM-EUR J	169	0	50	7	1	1	4	9	2	3	1	91
1.8	ACTA CRYSTALLOGR B	168	1	44	4	2	4	4	10	2	6	5	86
8.58	J AM CHEM SOC	166	0	36	4	2	2	3	5	4	3	5	102
2.32	INORG CHIM ACTA	161	0	37	1	3	0	0	1	0	0	0	119
2.94	EUR J INORG CHEM	161	0	66	0	2	0	0	3	0	0	0	90
2.34	J SOLID STATE CHEM	136	0	24	3	2	0	1	5	2	1	1	97
1.55	J MOL STRUCT	130	0	48	0	0	0	1	3	0	0	0	78
1.23	Z ANORG ALLG CHEM	130	0	51	0	0	1	1	1	0	0	2	74

Acta Crystallographica Section A - citation report by issue

Special issues are shaded. Issues containing abstracts only are denoted a1.

2008				2009				2010			
Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count
1 ^a	0	24	423.4	1	0	7	2	1	0	11	0.7
2	0	11	5.1	2	0	8	2.4	2 ^b	0	15	1.7
3	0	9	5.8	3	0	9	3.4	3	0	15	0.7
4	0	8	4.9	4	0	10	2.1	4	0	9	0
5	0	10	2.5	5	0	6	1.7	5 ^c	0	12	0.4
6	0	10	1.2	6	0	8	0.9	6	0	14	0.2
a1	0	0	0	a1	0	0	0	a1	0	0	0

(a) Crystallography across the sciences, 2; (b) Dynamical Structural Science; (c) Structural Transitions in Solids.

Acta Crystallographica Section A - citation report by category

	2008				2009				2010			
Category	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count
research papers	42	42	0	4.3	41	41	0	2.1	66	66	0	0.7
short communications	6	6	0	0.3	5	5	0	1.8	3	3	0	0.7
lead articles	0	0	0	0	1	1	0	7	1	1	0	2
feature articles	24	24	0	423.4	1	1	0	0	1	1	0	0
book reviews	5	0	5	0	3	0	3	0	1	0	1	0
books received	1	0	1	0	0	0	0	0	0	0	0	0
editorial	0	0	0	0	0	0	0	0	3	3	0	1
issue preface	1	0	1	0	0	0	0	0	0	0	0	0
international union of crystallography	3	0	3	0	5	0	5	0	4	0	4	0
obituaries	0	0	0	0	0	0	0	0	2	2	0	0
abstract	2059	0	2059	0	735	0	735	0	734	0	734	0

Acta Crystallographica Section A - highly cited papers (2000-2011)

Year	Volume	Part	First page	ISI citations	Authors	Title
2008	64	1	112	11149	Sheldrick, G.M.	A short history of SHELX
2003	59	3	228	310	Otwinowski, Z.; Borek, D.; Majewski, W.; et al.	Multiparametric scaling of diffraction intensities
2004	60	2	134	145	Oszlanyi, G.; Suto, A.	Ab initio structure solution by charge flipping
2002	58	2	190	129	Scardi, P.; Leoni, M.	Whole powder pattern modelling
2003	59	1	22	120	Friedrichs, O.D.; O'Keeffe, M.; Yaghi, O.M.	Three-periodic nets and tilings: regular and quasiregular nets
2000	56	4	332	98	Volkov, A.; Abramov, Y.; Coppens, P.; et al.	On the origin of topological differences between experimental and theoretical crystal charge densities
2000	56	3	252	88	Volkov, A.; Gatti, C.; Abramov, Y.; et al.	Evaluation of net atomic charges and atomic and molecular electrostatic moments through topological analysis of the experimental charge density
2002	58	2	133	87	Kim, C.D.; Pillet, S.; Wu, G.; et al.	Excited-state structure by time-resolved X-ray diffraction
2001	57	5	604	68	Scardi, P.; Leoni, M.	Diffraction line profiles from polydisperse crystalline systems
2005	61	1	147	65	Oszlanyi, G.; Suto, A.	Ab initio structure solution by charge flipping. II. Use of weak reflections
2006	62	2	115	54	Aroyo, M.I.; Kirov, A.; Capillas, C.; et al.	Bilbao crystallographic server. II. Representations of crystallographic point groups and space groups
2001	57	5	576	54	Takakura, H.; Yamamoto, A.; Tsai, A.P.	The structure of a decagonal Al ₇₂ Ni ₂₀ Co ₈ quasicrystal
2001	57	3	272	54	Volkov, A.; Abramov, Y.A.; Coppens, P.	Density-optimized radial exponents for X-ray charge-density refinement from ab initio crystal calculations
2006	62	4	248	50	Thibault, P.; Elser, V.; Jacobsen, C.; et al.	Reconstruction of a yeast cell from X-ray diffraction data
2005	61	1	93	50	Howard, C.J.; Stokes, H.T.	Structures and phase transitions in perovskites - a group-theoretical approach
2001	57	1	47	50	Markvardsen, A.J.; David, W.I.F.; Johnson, J.C.; et al.	A probabilistic approach to space-group determination from powder diffraction data

2008	64	1	52	49	David, W.I.F.; Shankland, K.	Structure determination from powder diffraction data
2003	59	6	515	48	Friedrichs, O.D.; O'Keeffe, M.O.; Yaghi, O.M.	Three-periodic nets and tilings: semiregular nets
2003	59	4	351	47	Delgado-Friedrichs, O.; O'Keeffe, M.	Identification of and symmetry computation for crystal nets
2003	59	5	459	44	van Smaalen, S.; Palatinus, L.; Schneider, M.	The maximum-entropy method in superspace

Acta Crystallographica Section A - highly cited papers (2008)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
1	0	112	feature articles	11149	Sheldrick, G.M.	A short history of SHELX
1	0	52	feature articles	49	David, W.I.F., Shankland, K.	Structure determination from powder diffraction data
1	0	88	feature articles	32	Berman, H.M.	The Protein Data Bank: a historical perspective
1	0	123	feature articles	32	Oszlanyi, G., Suto, A.	The charge flipping algorithm
1	0	12	feature articles	26	Niimura, N., Bau, R.	Neutron protein crystallography: beyond the folding structure of biological macromolecules
1	0	218	feature articles	25	Boldyreva, E.V.	High-pressure diffraction studies of molecular organic solids. A personal view
1	0	192	feature articles	24	Pandey, D., Singh, A.K., Baik, S.	Stability of ferroic phases in the highly piezoelectric Pb(ZrxTi1-x)O3 ceramics
1	0	149	feature articles	20	Zou, X.D., Hovmoller, S.	Electron crystallography: imaging and single-crystal diffraction from powders
1	0	1	feature articles	20	Steurer, W., Deloudi, S.	Fascinating quasicrystals
4	0	465	research papers	17	Munshi, P., Madsen, A.O., Spackman, M.A., Larsen, S., Destro, R.	Estimated H-atom anisotropic displacement parameters: a comparison between different methods and with neutron diffraction results
1	0	169	feature articles	15	Margiolaki, I., Wright, J.P.	Powder crystallography on macromolecules

Acta Crystallographica Section A - highly cited papers (2009)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
3	0	202	research papers	17	Blatov, V.A., Proserpio, D.M.	Topological relations between three-periodic nets. II. Binodal nets
4	0	300	research papers	8	Hoser, A.A., Dominiak, P.M., Wozniak, K.	Towards the best model for H atoms in experimental charge-density refinement
2	0	81	lead articles	7	Ramsden, S.J., Robins, V., Hyde, S.T.	Three-dimensional Euclidean nets from two-dimensional hyperbolic tilings: kaleidoscopic examples
3	0	232	research papers	7	Farrow, C.L., Billinge, S.J.L.	Relationship between the atomic pair distribution function and small-angle scattering: implications for modeling of nanoparticles
1	0	5	research papers	6	Schowalter, M., Rosenauer, A., Titantah, J.T., Lamoen, D.	Computation and parametrization of the temperature dependence of Debye-Waller factors for group IV, III-V and II-VI semiconductors
5	0	371	research papers	6	Flack, H.D.	Louis Pasteur's discovery of molecular chirality and spontaneous resolution in 1848, together with a complete review of his crystallographic and chemical work
6	0	490	research papers	5	Bak, J.M., Dominiak, P.M., Wilson, C.C., Wozniak, K.	Experimental charge-density study of paracetamol - multipole refinement in the presence of a disordered methyl group
1	0	46	short communications	4	Stribeck, N.	On the determination of fiber tilt angles in fiber diffraction

Issue	Part	First page	Paper category	ISI citation	Authors	Title
4	0	253	research papers	4	Hirano, K., Fukamachi, T., Yoshizawa, M., Negishi, R., Hirano, K., Kawamura, T.	Formation of interference fringes in the Bragg-(Bragg)m-Laue mode
2	0	109	research papers	4	Martinez-Garcia, J., Leoni, M., Scardi, P.	A general approach for determining the diffraction contrast factor of straight-line dislocations
4	0	322	short communications	3	Shmueli, U., Flack, H.D.	Concise intensity statistics of Friedel opposites and classification of the reflections
2	0	120	research papers	3	Eggeman, A., White, T., Midgley, P.	Symmetry-modified charge flipping
1	0	28	research papers	3	Spence, J.C.H.	Two-wavelength inversion of multiply scattered soft X-ray intensities to charge density

Acta Crystallographica Section A - highly cited papers (2010)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
2	0	179	research papers	5	Coppens, P., Benedict, J., Messerschmidt, M., Novozhilova, I., Graber, T., Chen, Y.-S., Vorontsov, I., Scheins, S., Zheng, S.-L.	Time-resolved synchrotron diffraction and theoretical studies of very short-lived photo-induced molecular species
2	0	137	research papers	4	Miller, R.J.D., Ernstorfer, R., Harb, M., Gao, M., Hebeisen, C.T., Jean-Ruel, H., Lu, C., Moriena, G., Sciaini, G.	'Making the molecular movie': first frames
1	0	32	research papers	3	Saldin, D.K., Shneerson, V.L., Starodub, D., Spence, J.C.H.	Reconstruction from a single diffraction pattern of azimuthally projected electron density of molecules aligned parallel to a single axis
2	0	168	research papers	3	Elsaesser, T., Woerner, M.	Photoinduced structural dynamics of polar solids studied by femtosecond X-ray diffraction
2	0	189	research papers	3	Cailleau, H., Lorenc, M., Guerin, L., Servol, M., Collet, E., Buron-Le Cointe, M.	Structural dynamics of photoinduced molecular switching in the solid state
2	0	133	editorial	3	Collet, E.	Dynamical structural science
5	0	626	short communications	2	Coppens, P., Kaminski, R., Schmokel, M.S.	On R factors for dynamic structure crystallography
2	0	270	research papers	2	Kim, J., Kim, K.H., Lee, J.H., Ihee, H.	Ultrafast X-ray diffraction in liquid, solution and gas: present status and future prospects
2	0	207	research papers	2	Westenhoff, S., Nazarenko, E., Malmerberg, E., Davidsson, J., Katona, G., Neutze, R.	Time-resolved structural studies of protein reaction dynamics: a smorgasbord of X-ray approaches
5	0	558	lead articles	2	Perez-Mato, J.M., Orobengoa, D., Aroyo, M.I.	Mode crystallography of distorted structures
3	0	301	research papers	2	Janner, A.	Form, symmetry and packing of biomacromolecules. I. Concepts and tutorial examples
3	0	312	research papers	2	Janner, A.	Form, symmetry and packing of biomacromolecules. II. Serotypes of human rhinovirus

Acta Crystallographica Section A - top 10 articles downloaded in 2010

HTML downloads in 2010 = 48429 PDF downloads in 2010 = 579062 Total downloads in 2010 = 627491

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
64	1	112	feature articles	3826	Sheldrick, G.M.	A short history of SHELX
32	5	751	research papers	1423	Shannon, R.D.	Revised effective ionic radii and systematic studies of interatomic distances in halides and chalcogenides

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
66	1	98	international union of crystallography	892	Dacombe, M.	Report of the Executive Committee for 2008
66	1	128	international union of crystallography	753	IUCr Editorial Office	Notes for authors 2010
64	1	88	feature articles	727	Berman, H.M.	The Protein Data Bank: a historical perspective
64	1	246	feature articles	594	Derewenda, Z.S.	On wine, chirality and crystallography
65	5	390	international union of crystallography	565	IUCr	International Union of Crystallography Twenty-First General Assembly and International Congress of Crystallography, Osaka, Japan, 23-31 August 2008
64	1	65	feature articles	494	Cranswick, L.M.D.	Busting out of crystallography's Sisyphean prison: from pencil and paper to structure solving at the press of a button: past, present and future of crystallographic software development, maintenance and distribution
64	1	52	feature articles	470	David, W.I.F. and Shankland, K.	Structure determination from powder diffraction data
66	2	198	research papers	437	Schmidt, M., Graber, T., Henning, R. and Srajer, V.	Five-dimensional crystallography

INFORMATION ON SECTION B

Numbers at a glance - Acta Crystallographica Section B

Institutional subscriptions	Licensed sales	Multiyear Licenses	Full-text downloads 2010	Impact factor 2010	Ranking 2010
492	>3900	375	175999	1.83	10 of 25

Journal profile

Acta Crystallographica Section B: Structural Science publishes papers in structural chemistry and solid-state physics in which structure is the primary focus of the work reported. The central themes are the acquisition of structural knowledge from novel experimental observations or from existing data, the correlation of structural knowledge with physico-chemical and other properties, and the application of this knowledge to solve problems in the structural domain. The journal covers metals and alloys, inorganics and minerals, metal-organics and purely organic compounds.

Triennial report

Acta Crystallographica Section B

During the triennium 2008-2010 Section B of Acta Crystallographica continued to publish articles of very high quality. Some articles compared large numbers of structures; others reported new ways of extracting information from diffraction patterns. Still others reported structures in more detail than seemed possible even a few years ago.

The journal continued to publish, as it has since Section C was split off in 1983, six issues per year. There were 91, 90 and 73 articles, and 791, 790 and 706 pages during the three years of the triennium. The numbers for 2008 and 2009 were in line with historical averages, but during June-August 2010 a decline in submitted and accepted articles became apparent and has continued into 2011.

Papers came from 41 countries. The one paper not written in English was in German.

The average length of a paper has continued to increase. For 2002-2006 the average was 9.1 pages per article but by 2010 the average was 9.8 pages per article. The amount of supplementary material deposited also continued to rise. Some authors submitted CIFs for structures determined at many temperatures, pressures, or degrees of reaction but included only some of the results in the standard table of experimental details. Other authors attached movies, extra and enhanced figures, and spreadsheets to their articles.

Many articles in Section B have proved to be of very long-lasting value. Two examples are "Effective ionic radii in oxides and fluorides" (Shannon & Prewitt, 1969) and "Bond-valence parameters obtained from a systematic analysis of the Inorganic Crystal Structure Database" (Brown & Altermatt, 1985) which were downloaded ca. 300-400 times each in both 2009 and 2010. The much discussed "impact factor" that measures citation rates over a three-year window does not do justice to the continuing importance of the papers published in Section B. The impact factor peaked at 5.4 in 2004 as a result of a special database issue, then dropped to 1.9 in 2005. It rose steadily to 2.3 in 2008 but then dropped to 1.8 in 2009. The reasons for the most recent drop are not yet clear. It seems certain, however, that a careful study of citations over a period longer than three years would give a more accurate and satisfying picture of the journal's scientific value.

The combined rejection/withdrawal rate for the journal remained high at 35, 34 and 40% for the years 2008-2010.

While there is a perception that the percentage of papers discussing inorganic structures (*i.e.*, those with primarily ionic or network bonding) is rising, statistics for the years 2002-2010 do not provide convincing support for that idea. Over the last six years the proportions of "inorganic" and "organic" papers have fluctuated but are roughly equal overall.

During 2008-10 four Feature Articles were published. One of them ("Significant progress in predicting the crystal structures of small organic molecules - a report on the fourth blind test", Day *et al.*, 2009) topped both the 2009 and 2010 lists of Section B articles most frequently downloaded.

The average time from submission to publication has dropped from ca. six months to five, with authors' revisions accounting for a significant fraction of that time. The submissions system developed in Chester has become very efficient and is easy for all involved (Co-editors, authors and reviewers) to use. We all greatly appreciate the efforts of the Editorial staff to provide solutions to special problems associated with unusual papers.

The efforts of reviewers should also be highlighted. Crystallographers seem to be especially generous with their time and expertise, and they often go far beyond expectations in helping authors improve manuscripts. The journal is in their debt.

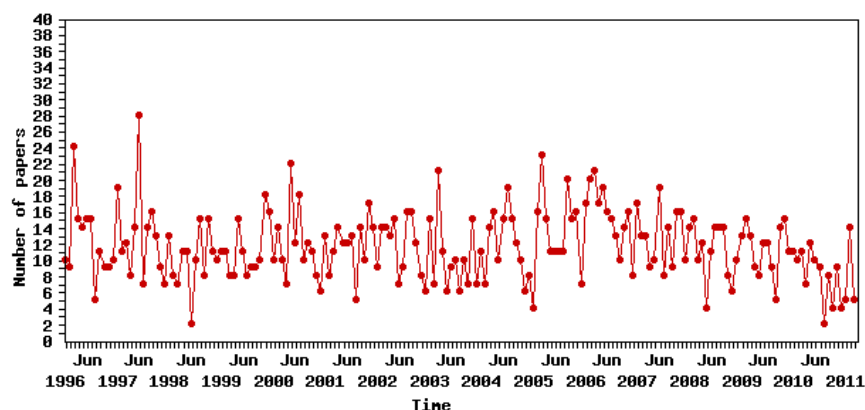
The Editorial staff, and especially Jill Bradshaw, continue to turn accepted manuscripts into attractive, carefully edited journal pages. Jill negotiates tactfully, but firmly, with authors when figures need to be improved, and she has a real flair for doing layouts. The quality of the editing is very high. As a crystallographer wrote to us late in 2010: "I think we can

take great pride in the quality of Section B.”

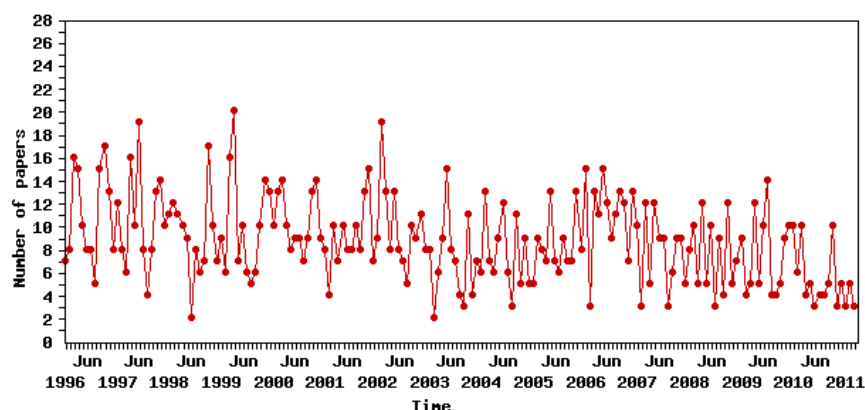
Since the last IUCr Congress a number of Co-editors retired, or will soon retire, from the editorial board. They include Gervais Chapuis, Doug Dorset and Chick Wilson. During their many years of distinguished service they helped the journal learn how to publish papers describing incommensurate structures, diffuse scattering, powder diffraction and electron diffraction. It has been a privilege and a pleasure to work with them.

C.P. Brock, Editor

Acta Crystallographica Section B - papers submitted (1996-2011)



Acta Crystallographica Section B - papers accepted (1996-2011)



Feature and lead articles published in Acta Crystallographica Section B

Vol.	Part	First page	ISI citation	Authors	Title
2009					
65	2	107	55	Day, G.M., Cooper, T.G., Cruz-Cabeza, A.J., Hejczyk, K.E., Ammon, H.L., Boerrigter, S.X.M., Tan, J.S., Della Valle, R.G., Venuti, E., Jose, J., Gadre, S.R., Desiraju, G.R., Thakur, T.S., van Eijck, B.P., Facelli, J.C., Bazterra, V.E., Ferraro, M.B., Hofmann, D.W.M., Neumann, M.A., Leusen, F.J.J., Kendrick, J., Price, S.L., Misquitta, A.J., Karamertzanis, P.G., Welch, G.W.A., Scheraga, H.A., Arnautova, Y.A., Schmidt, M.U., van de Streek, J., Wolf, A.K., Schweizer, B.	Significant progress in predicting the crystal structures of small organic molecules - a report on the fourth blind test
65	3	249	4	Wagner, T., Schonleber, A.	A non-mathematical introduction to the superspace description of modulated structures
65	3	269	3	Cai, L., Nino, J.C.	Complex ceramic structures. I. Weberites

Vol.	Part	First page	ISI citation	Authors	Title
2010					
66	1	1	2	Baikie, T., Pramana, S.S., Ferraris, C., Huang, Y., Kendrick, E., Knight, K., Ahmad, Z., White, T.J.	Polysomatic apatites

Acta Crystallographica Section B - journals citing

Impact	Citing Journal	Cited Year											
		All Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
	All Journals	10498	54	103	241	252	191	197	173	1282	158	208	7639
0.41	ACTA CRYSTALLOGR E	497	2	2	18	6	4	11	10	127	2	2	313
0.78	ACTA CRYSTALLOGR C	360	1	10	7	4	3	13	13	131	5	9	164
4.16	CRYST GROWTH DES	339	2	6	6	12	14	10	11	52	12	12	202
4.66	INORG CHEM	336	2	1	4	6	8	7	7	40	5	4	252
	ALL OTHERS (279)	279	0	1	5	8	2	7	3	19	4	5	225
3.48	PHYS REV B	267	1	3	7	8	5	4	6	6	9	2	216
2.34	J SOLID STATE CHEM	260	1	4	4	7	3	0	8	0	4	3	226
1.8	ACTA CRYSTALLOGR B	257	17	13	15	11	15	16	9	40	8	9	104
4.18	CRYSTENGCOMM	247	3	6	10	15	13	12	3	57	4	7	117
4.08	DALTON T	238	0	2	7	3	5	4	4	37	4	2	170
1.55	J MOL STRUCT	225	0	2	5	7	2	6	4	42	5	8	144
8.58	J AM CHEM SOC	168	1	2	6	4	4	2	3	15	3	2	126
1.23	Z ANORG ALLG CHEM	162	0	2	3	3	2	0	0	5	2	1	144
5.38	CHEM-EUR J	158	1	2	0	4	5	6	3	20	1	5	111
2.32	INORG CHIM ACTA	151	3	2	0	2	2	3	1	39	2	2	95
2.14	J ALLOY COMPD	141	0	0	2	1	0	1	2	3	2	0	130
2.9	J PHYS CHEM A	141	0	0	1	4	2	4	5	16	3	1	105
2.21	POLYHEDRON	137	0	1	1	3	0	3	0	34	3	5	87
1.01	Z KRISTALLOGR	128	3	4	9	8	3	2	1	17	2	4	75
1.68	SOLID STATE SCI	122	0	1	2	1	2	1	4	1	4	2	104

Acta Crystallographica Section B - citation report by issue

2008				2009				2010			
Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count
1	0	13	5	1	0	12	2.5	1	0	12	1.2
2	0	14	3.2	2	0	13	7.7	2	0	17	0.2
3	0	18	3.1	3	0	16	3.6	3	0	14	1.4
4	0	14	2.6	4	0	14	1.7	4	0	9	0.2
5	0	13	3.2	5	0	15	1	5	0	8	0.4
6	0	16	2.6	6	0	17	1.4	6	0	0	0

Acta Crystallographica Section B - citation report by category

	2008				2009				2010			
Category	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count
research papers	81	81	0	3.2	76	76	0	2.2	71	59	12	0.7
short communications	5	5	0	5.8	4	4	0	3	0	0	0	0
feature articles	0	0	0	0	3	3	0	20.7	1	1	0	2
addenda and errata	2	2	0	1	3	3	0	2	0	0	0	0
book reviews	2	0	2	0	2	0	2	0	0	0	0	0
international union of crystallography	1	0	1	0	1	0	1	0	1	0	1	0
obituaries	0	0	0	0	1	1	0	0	0	0	0	0

Acta Crystallographica Section B - highly cited papers (1999-2011)

Year	Volume	Part	First page	ISI citations	Authors	Title
2002	58	3_1	380	5108	Allen, F.H.	The Cambridge Structural Database: a quarter of a million crystal structures and rising
2002	58	3_1	389	1347	Bruno, I.J.; Cole, J.C.; Edgington, P.R.; et al.	New software for searching the Cambridge Structural Database and visualizing crystal structures
2002	58	3_1	407	291	Allen, F.H.; Motherwell, W.D.S.	Applications of the Cambridge Structural Database in organic chemistry and crystal chemistry
2000	56	4	697	257	Lommerse, J.P.M.; Motherwell, W.D.S.; Ammon, H.L.; et al.	A test of crystal structure prediction of small organic molecules
2002	58	4	587	223	Chen, Q; Du, G.H.; Zhang, S.; et al.	The structure of trititanate nanotubes
2002	58	4	647	216	Motherwell, W.D.S.; Ammon, H.L.; Dunitz, J.D.; et al.	Crystal structure prediction of small organic molecules: a second blind test
2005	61	5	511	179	Day, G.M.; Motherwell, W.D.S.; Ammon, H.L.; et al.	A third blind test of crystal structure prediction
2001	57	6	725	149	Lufaso, M.W.; Woodward, P.M.	Prediction of the crystal structures of perovskites using the software program SPuDS
2003	59	4	463	143	Howard, C.J.; Kennedy, B.J.; Woodward, P.M.	Ordered double perovskites - a group-theoretical analysis
2004	60	6	627	131	McKinnon, J.J.; Spackman, M.A.; Mitchell, A.S.	Novel tools for visualizing and exploring intermolecular interactions in molecular crystals
2002	58	2	168	127	Jones, G.O.; Thomas, P.A.	Investigation of the structure and phase transitions in the novel A-site substituted distorted perovskite compound Na _{0.5} Bi _{0.5} TiO ₃
1999	55	6	1044	112	Motherwell, W.D.S.; Shields, G.P.; Allen, F.H.	Visualization and characterization of non-covalent networks in molecular crystals: automated assignment of graph-set descriptors for asymmetric molecules
1999	55	6	1030	93	Grell, J.; Bernstein, J.; Tinhofer, G.	Graph-set analysis of hydrogen-bond patterns: some mathematical concepts
2000	56	4	547	84	Herbststein, F.H.	How precise are measurements of unit-cell dimensions from single crystals?
1999	55	6	1099	80	Fabian, L.; Kalman, A.	Volumetric measure of isostructurality
2003	59	1	1	78	White, T.J.; Dong, Z.L.	Structural derivation and crystal chemistry of apatites
2000	56	2	173	78	Leligny, H.; Grebille, D.; Perez, O.; et al.	A five-dimensional structural investigation of the misfit layer compound [Bi _{0.87} SrO ₂](₂)[CoO ₂](1.82)

2007	63	4	561	76	Her, J.H.; Stephens, P.W.; Gao, Y.; et al.	Structure of unsolvated magnesium borohydride Mg(BH ₄)(2)
2002	58	1	62	76	Marsh, R.E.; Kapon, M.; Hu, S.Z.; et al.	Some 60 new space-group corrections
2000	56	6	1018	74	Foces-Foces, C.N.; Alkorta, I.; Elguero, J.	Supramolecular structure of 1H-pyrazoles in the solid state: a crystallographic and ab initio study

Acta Crystallographica Section B - highly cited papers (2008)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
1	0	84	research papers	12	Wardell, S.M.S.V., de Souza, M.V.N., Vasconcelos, T.R.A., Ferreira, M.L., Wardell, J.L., Low, J.N., Glidewell, C.	Patterns of hydrogen bonding in mono- and di-substituted N-arylpyrazinecarboxamides
1	0	50	research papers	10	Eppel, S., Bernstein, J.	Statistical survey of hydrogen-bond motifs in crystallographic special symmetry positions, and the influence of chirality of molecules in the crystal on the formation of hydrogen-bond ring motifs
3	0	348	research papers	10	Weng, Z.F., Motherwell, W.D.S., Allen, F.H., Cole, J.M.	Conformational variability of molecules in different crystal environments: a database study
4	0	515	short communications	9	Sidey, V.	On the correlations between the polyhedron eccentricity parameters and the bond-valence sums for the cations with one lone electron pair
3	0	401	short communications	8	Gavezzotti, A.	Hydrogen bond strength and bond geometry in cyclic dimers of crystalline carboxylic acids
4	0	491	research papers	8	Wood, P.A., Pidcock, E., Allen, F.H.	Interaction geometries and energies of hydrogen bonds to C=O and C=S acceptors: a comparative study
2	0	131	research papers	7	Mercier, P.H.J., Le Page, Y.	Kaolin polytypes revisited ab initio
6	0	684	research papers	7	Elcoro, L., Perez-Mato, J.M., Friese, K., Petricek, V., Balic-Zunic, T., Olsen, L.A.	Modular crystals as modulated structures: the case of the lillianite homologous series
6	0	645	research papers	7	Udovenko, A.A., Laptash, N.M.	Disorder in crystals of dioxofluorotungstates, (NH ₄) ₂ WO ₂ F ₄ and Rb ₂ WO ₂ F ₄
1	0	34	research papers	7	Baikie, T., Ferraris, C., Klooster, W.T., Madhavi, S., Pramana, S.S., Pring, A., Schmidt, G., White, T.J.	Crystal chemistry of mimetite, Pb ₁₀ (AsO ₄) ₆ Cl ₁₁ .48O _{0.26} , and finneanite, Pb ₁₀ (AsO ₃) ₆ Cl ₂
3	0	291	research papers	6	Yashima, M., Ogisu, K., Domen, K.	Structure and electron density of oxysulfide Sm ₂ Ti ₂ S ₂ O ₄ .9, a visible-light-responsive photocatalyst
6	0	780	research papers	6	Lemmerer, A., Bathori, N.B., Bourne, S.A.	Chiral carboxylic acids and their effects on melting-point behaviour in co-crystals with isonicotinamide
5	0	527	research papers	6	Udovenko, A.A., Laptash, N.M.	Orientational disorder and phase transitions in crystals of (NH ₄) ₂ NbOF ₅
3	0	393	short communications	6	Wood, P.A., Borwick, S.J., Watkin, D.J., Motherwell, W.D.S., Allen, F.H.	Dipolar C[triple bond]N...C[triple bond]N interactions in organic crystal structures: database analysis and calculation of interaction energies
2	0	240	research papers	6	van Mechelen, J.B., Peschar, R., Schenk, H.	Structures of mono-unsaturated triacylglycerols. III. The [beta]-2 polymorphs of trans-mono-unsaturated triacylglycerols and related fully saturated triacylglycerols
2	0	249	research papers	6	van Mechelen, J.B., Peschar, R., Schenk, H.	Structures of mono-unsaturated triacylglycerols. IV. The highest melting [beta]-2 polymorphs of trans-mono-unsaturated triacylglycerols and related saturated TAGs and their polymorphic stability
6	0	750	research papers	6	Dittrich, B., McKinnon, J.J., Warren, J.E.	Improvement of anisotropic displacement parameters from invariom-model refinements for three l-hydroxylysine structures

Issue	Part	First page	Paper category	ISI citation	Authors	Title
4	0	504	research papers	6	Fabian, L., Chisholm, J.A., Galek, P.T.A., Motherwell, W.D.S., Feeder, N.	Hydrogen-bond motifs in the crystals of hydrophobic amino acids
3	0	363	research papers	6	Hubschle, C.B., Dittrich, B., Grabowsky, S., Messerschmidt, M., Luger, P.	Comparative experimental electron density and electron localization function study of thymidine based on 20 K X-ray diffraction data

Acta Crystallographica Section B - highly cited papers (2009)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
2	0	107	feature articles	55	Day, G.M., Cooper, T.G., Cruz-Cabeza, A.J., Hejczyk, K.E., Ammon, H.L., Boerrigter, S.X.M., Tan, J.S., Della Valle, R.G., Venuti, E., Jose, J., Gadre, S.R., Desiraju, G.R., Thakur, T.S., van Eijck, B.P., Facelli, J.C., Bazterra, V.E., Ferraro, M.B., Hofmann, D.W.M., Neumann, M.A., Leusen, F.J.J., Kendrick, J., Price, S.L., Misquitta, A.J., Karamertzanis, P.G., Welch, G.W.A., Scheraga, H.A., Arnautova, Y.A., Schmidt, M.U., van de Streek, J., Wolf, A.K., Schweizer, B.	Significant progress in predicting the crystal structures of small organic molecules - a report on the fourth blind test
2	0	134	research papers	15	Carpenter, M.A., Howard, C.J.	Symmetry rules and strain/order-parameter relationships for coupling between octahedral tilting and cooperative Jahn-Teller transitions in ABX ₃ perovskites. I. Theory
2	0	147	research papers	12	Carpenter, M.A., Howard, C.J.	Symmetry rules and strain/order-parameter relationships for coupling between octahedral tilting and cooperative Jahn-Teller transitions in ABX ₃ perovskites. II. Application
1	0	45	research papers	10	Serezhkin, V.N., Vologzhanina, A.V., Serezhkina, L.B., Smirnova, E.S., Grachova, E.V., Ostrova, P.V., Antipin, M.Y.	Crystallochemical formula as a tool for describing metal-ligand complexes - a pyridine-2,6-dicarboxylate example
3	0	382	research papers	9	Chan, E.J., Welberry, T.R., Goossens, D.J., Heerdegen, A.P., Beasley, A.G., Chupas, P.J.	Single-crystal diffuse scattering studies on polymorphs of molecular crystals. I. The room-temperature polymorphs of the drug benzocaine
6	0	782	short communications	7	Marsh, R.E.	Space groups P1 and Cc: how are they doing?
3	0	401	addenda and errata	6	Sidey, V.	On the correlations between the polyhedron eccentricity parameters and the bond-valence sums for the cations with one lone electron pair. Addendum
3	0	300	research papers	6	Ilyushin, G.D., Blatov, V.A.	Structures of the ZrZn ₂₂ family: suprapolyhedral nanoclusters, methods of self-assembly and superstructural ordering
4	0	502	research papers	5	Gholivand, K., Mostaanzadeh, H., Koval, T., Dusek, M., Erben, M.F., Della Vedova, C.O.	Synthesis, crystal structure and spectroscopic properties of a novel carbacylamidophosphate: N-(3-nitrobenzoyl)-N',N''-bis(tert-butyl)phosphoric triamide
3	0	355	research papers	5	Coles, S., Davies, D., Hursthouse, M., Yesilot, S., Cosut, B., Kilic, A.	Absolute structure determination as a reference for the enantiomeric resolution of racemic mixtures of cyclophosphazenes <i>via</i> chiral high-performance liquid chromatography
3	0	375	research papers	5	Rathore, R.S., Reddy, B.P., Vijayakumar, V., Ragavan, R.V., Narasimhamurthy, T.	Hantzsch 1,4-dihydropyridine esters and analogs: candidates for generating reproducible one-dimensional packing motifs

Issue	Part	First page	Paper category	ISI citation	Authors	Title
3	0	308	research papers	5	Weber, T., Dshemuchadse, J., Kobas, M., Conrad, M., Harbrecht, B., Steurer, W.	Large, larger, largest - a family of cluster-based tantalum copper aluminides with giant unit cells. I. Structure solution and refinement
1	0	22	research papers	5	Baker, D.W., Thomas, P.A., Zhang, N., Glazer, A.M.	Structural study of $K_xNa_{1-x}NbO_3$ (KNN) for compositions in the range $x = 0.24-0.36$
4	0	474	research papers	5	Collet, E., Boillot, M.-L., Hebert, J., Moisan, N., Servol, M., Lorenc, M., Toupet, L., Buron-Le Cointe, M., Tissot, A., Sainton, J.	Polymorphism in the spin-crossover ferric complexes $[(TPA)Fe^{III}(TCC)]PF_6$

Acta Crystallographica Section B - highly cited papers (2010)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
3	0	380	research papers	6	Allen, F.H., Bruno, I.J.	Bond lengths in organic and metal-organic compounds revisited: X-H bond lengths from neutron diffraction data
1	0	84	research papers	6	Gorbitz, C.H.	Structures of dipeptides: the head-to-tail story
3	0	387	research papers	4	Ye, H.-Y., Chen, L.-Z., Xiong, R.-G.	Reversible phase transition of pyridinium-3-carboxylic acid perchlorate
3	0	280	research papers	4	Maier, B.J., Angel, R.J., Marshall, W.G., Mihailova, B., Paulmann, C., Engel, J.M., Gospodinov, M., Welsch, A.-M., Petrova, D., Bismayer, U.	Octahedral tilting in Pb-based relaxor ferroelectrics at high pressure
1	0	40	research papers	2	Howard, C.J., Carpenter, M.A.	Octahedral tilting in cation-ordered Jahn-Teller distorted perovskites - a group-theoretical analysis
1	0	60	research papers	2	Gemmi, M., Klein, H., Rageau, A., Strobel, P., Le Cras, F.	Structure solution of the new titanate $Li_4Ti_8Ni_3O_{21}$ using precession electron diffraction
1	0	1	feature articles	2	Baikie, T., Pramana, S.S., Ferraris, C., Huang, Y., Kendrick, E., Knight, K., Ahmad, Z., White, T.J.	Polysomatic apatites
2	0	260	research papers	2	Chan, E.J., Welberry, T.R.	Precursor effects of the orthorhombic to monoclinic phase transition in benzocaine form (II) revealed by X-ray diffuse scattering

Acta Crystallographica Section B - top 10 articles downloaded in 2010

HTML downloads in 2010 = 31029 PDF downloads in 2010 = 144970 Total downloads in 2010 = 175999

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
66	1	104	international union of crystallography	700	IUCr Editorial Office	Notes for authors 2010
65	2	107	feature articles	557	Day, G.M., Cooper, T.G., Cruz-Cabeza, A.J., Hejczyk, K.E., Ammon, H.L., Boerrigter, S.X.M., Tan, J.S., Della Valle, R.G., Venuti, E., Jose, J., Gadre, S.R., Desiraju, G.R., Thakur, T.S., van Eijck, B.P., Facelli, J.C., Bazterra, V.E., Ferraro, M.B., Hofmann, D.W.M., Neumann, M.A., Leusen, F.J.J., Kendrick, J., Price, S.L., Misquitta, A.J., Karamertzanis, P.G., Welch, G.W.A., Scheraga, H.A., Arnautova, Y.A., Schmidt, M.U., van de Streek, J., Wolf, A.K. and Schweizer, B.	Significant progress in predicting the crystal structures of small organic molecules - a report on the fourth blind test

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
62	3	341	feature articles	550	Herbstein, F.H.	On the mechanism of some first-order enantiotropic solid-state phase transitions: from Simon through Ubbelohde to Mnyukh
59	1	100	research papers	447	Bowes, K.F., Ferguson, G., Lough, A.J. and Glidewell, C.	Salts of maleic and fumaric acids with organic polyamines: comparison of isomeric acids as building blocks in supramolecular chemistry
59	1	1	research papers	408	White, T.J. and Dong, Z.L.	Structural derivation and crystal chemistry of apatites
25	5	925	research papers	394	Shannon, R.D. and Prewitt, C.T.	Effective ionic radii in oxides and fluorides
56	4	545	obituaries	362	Craven, B.	George A. Jeffrey (1915-2000)
65	1	11	research papers	358	Vegas, A., Martin, R.L. and Bevan, D.J.M.	Compounds with a 'stuffed' anti-bixbyite-type structure, analysed in terms of the Zintl-Klemm and coordination-defect concepts
66	1	1	feature articles	329	Baikie, T., Pramana, S.S., Ferraris, C., Huang, Y., Kendrick, E., Knight, K., Ahmad, Z. and White, T.J.	Polysomatic apatites
41	4	244	research papers	306	Brown, I.D. and Altermatt, D.	Bond-valence parameters obtained from a systematic analysis of the Inorganic Crystal Structure Database

INFORMATION ON SECTION C

Numbers at a glance - Acta Crystallographica Section C

Institutional subscriptions	Licensed sales	Multiyear Licenses	Full-text downloads 2010	Impact factor 2010	Ranking 2010
481	>3900	366	169762	0.75	18 of 25

Journal profile

Acta Crystallographica Section C: Crystal Structure Communications specializes in the rapid dissemination of high-quality detailed studies of novel and challenging crystal and molecular structures of interest in the fields of chemistry, biochemistry, mineralogy, pharmacology, physics and materials science. The unique checking, editing and publishing facilities of the journal ensure the highest standards of structural reliability and presentation, while providing for reports on studies involving special techniques or difficult crystalline materials. Papers go beyond reporting the principal numerical and geometrical data, and may include the discussion of multiple related structures, a detailed description of non-routine structure determinations, placing the structure in an interesting scientific, physical or chemical context, or the discussion of interesting physical properties or modes of association. Reports of difficult or challenging structures, such as cases of twinning, severe disorder, or diffuse solvent regions are welcomed, provided the presented structures are correct and the difficulties and strategies used to treat them are scientifically discussed and properly documented. Section C readers have access to an extensive back archive of high-quality structural data.

Triennial report

Acta Crystallographica Section C

The strength of Section C is the rapid publication of high-quality studies of novel and challenging crystal and molecular structures of interest in the fields of chemistry, biochemistry, mineralogy, pharmacology, physics and materials science, for which a detailed discussion of the structures is presented that goes beyond reporting just the principal numerical and geometrical data.

In 2010, Section C published 284 papers (33 inorganic, 101 metal-organic, 146 organic and 4 communications) in a total of 1134 pages, which is down from the 331 papers (-14%) and 1258 pages produced in 2009 (-10%). In the same period, the number of submitted papers fell from 687 to 592 (-14%). The proportion of inorganic (12%), metal-organic (36%) and organic papers (52%) remains within the bands of previous years. The citation impact factor has increased from 0.56 in 2009 to 0.78, its highest value since 2006. Average publication times remained at 1.9 months. Approximately 53% of submissions to Section C in the past year were either subsequently withdrawn by the authors or rejected, which is consistent with the rate generally found over the last 7 years. The average number of pages per article continues its upward trend – 3.6 in 2008, 3.8 in 2009 and 4.0 in 2010.

In 2010, Section C published fewer papers than in 2009 and this continues a longer term trend, which is a concern. In 2005-2007, Section C published around 440 papers annually, but this decreased to 328, 331 and 284 in the period 2008-2010. The number of submitted papers was 928 in 2007 and has decreased steadily to 592 in 2010 (-36%). This correlates with the introduction of the new open-access format for Section E. One possible explanation for the decrease in submissions to Section C is the requirement for an extensive and detailed Comment section in Section C papers compared with the shorter discussion normally required in a Section E paper. The latter is attractive for authors whose language skills are limited or for those who do not wish to spend so much time on manuscript preparation. Compared with 15 or 20 years ago, authors of Section C papers are probably expected to write much more substantial discussions, so as to keep the journal's style distinct from Section E, but this may be having an effect on the popularity of Section C.

On the other hand, it is pleasing to see an increase in the number of quite substantial papers reporting several related structures in excellent detail, as well as a few manuscripts whose content extends beyond a routine structure report and includes less common aspects of an analysis or results from other techniques, while remaining briefer than what would be required for a Section B style paper. The increase in average paper length appears to be mainly a result of an increasing number of figures in papers.

The time required from submission to acceptance has risen slightly over the last three years. This mostly reflects the increasing difficulty in obtaining responses from reviewers. I have seen numerous cases where Co-editors have to approach extra referees in order to obtain reviews. This is probably systemic of the peer review system these days. One way to alleviate the difficulty may be to establish a review board.

The requirements in the Notes for Authors have not changed significantly over the last three years, but it has been emphasised more clearly that the journal accepts reports of difficult or challenging structures not meeting all validation

criteria, provided the presented structures are correct and unambiguous, and the difficulties and strategies used to treat them are scientifically discussed and properly documented. This is to avoid any misconception that the journal only accepts near-perfect structures.

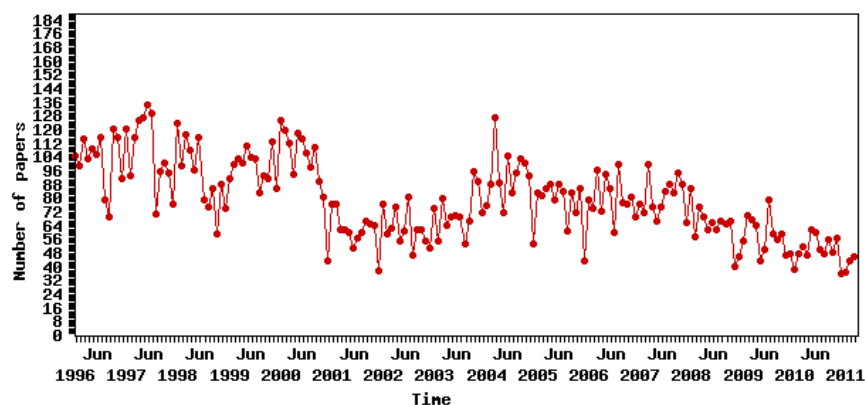
A few new innovations and developments have occurred in the reporting period, although most of these are not specific to Section C. Authors now have the facility to generate additional enhanced crystallographic diagrams online either before or at the time of submission. These diagrams can have dynamic functionality when viewed on-line. The validation of structure-factor files has been introduced and is now an integral part of the checkCIF suite. This often reveals inconsistencies between the CIF data and the structure factors, which may result from incomplete updating of CIF data after a new refinement, uploading the incorrect version of the structure-factor file or a missed property in the refinement, such as twinning. The submission system has been upgraded by the Editorial staff and now allows better tracking of activity during the review process.

A new initiative planned for the latter part of 2011 is the introduction of virtual issues of the journal. As the journal specialises in the rapid publication of papers, it does not lend itself easily to the production of special issues for which long lead times or the holding over of relevant submissions is required. Nevertheless, on-line publishing readily facilitates the creation of virtual issues, which can be used to bring together and highlight papers on specific topics that had been published over the preceding several months. The contents page of the virtual issue then provides suitable links to the original papers. Such virtual issues may focus on topics of current interest, such as twinned structures, polymorphs, metal-organic frameworks, particular classes of chemical compounds, and so on. The virtual issue makes it easier for readers to find papers relevant to their field of interest, thus increasing the visibility and impact of those papers. The first virtual issue will focus on polymorphism.

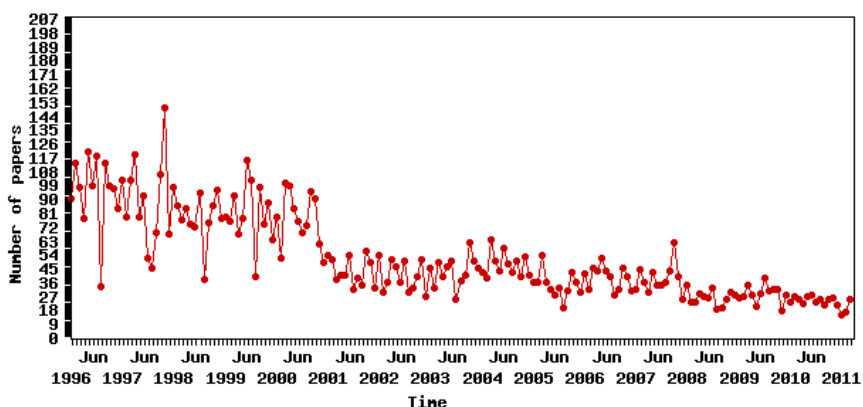
I wish to warmly thank all the Section C Co-editors who have given generously of their time, expertise and effort during the reporting period, as well as the many reviewers and authors, without whom the journal could not exist. I am also grateful to Sandy Blake, Deputy Section Editor, for his assistance with the proof-reading of manuscripts. The invaluable support of the Editorial Office staff is much appreciated, in particular the tireless efforts of Sean Conway, Mike Hoyland, Peter Strickland and the technical editors.

A. Linden, Editor

Acta Crystallographica Section C - papers submitted (1996-2011)



Acta Crystallographica Section C - papers accepted (1996-2011)



Acta Crystallographica Section C - journals citing

Impact	Citing Journal	Cited Year											
		All Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
	All Journals	6619	81	265	343	255	318	363	257	276	261	283	3917
0.41	ACTA CRYSTALLOGR E	938	19	60	69	39	70	59	32	46	25	39	480
0.78	ACTA CRYSTALLOGR C	435	46	79	46	14	22	23	34	9	17	16	129
2.32	INORG CHIM ACTA	251	0	8	5	9	10	19	6	14	5	10	165
4.66	INORG CHEM	241	0	6	4	7	5	6	5	9	10	5	184
1.55	J MOL STRUCT	236	1	12	13	16	18	23	18	14	15	8	98
2.21	POLYHEDRON	206	1	5	12	11	6	17	11	12	8	13	110
	ALL OTHERS (189)	189	2	5	4	6	8	7	5	3	17	10	122
4.08	DALTON T	183	0	5	7	9	7	6	9	13	5	5	117
4.16	CRYST GROWTH DES	150	1	6	8	9	7	12	7	7	8	5	80
4.11	PROG INORG CHEM	143	0	0	0	0	0	3	1	4	2	6	127
2.94	EUR J INORG CHEM	141	0	1	4	9	1	6	2	9	6	8	95
4.18	CRYSTENGCOMM	136	1	6	12	11	8	8	8	5	4	8	65
1.23	Z ANORG ALLG CHEM	133	0	2	5	0	6	14	6	1	4	9	86
0.83	J COORD CHEM	116	0	0	9	9	10	12	3	11	5	13	44
0.62	J CHEM CRYSTALLOGR	102	0	4	9	4	9	8	7	1	2	6	52
4.2	ORGANOMETALLICS	84	0	0	3	1	2	5	4	6	1	5	57
2.34	J SOLID STATE CHEM	84	1	4	6	2	4	6	4	2	0	1	54
5.38	CHEM-EUR J	78	0	1	2	4	2	3	3	3	3	6	51
11.23	COORDIN CHEM REV	71	0	0	1	5	2	2	1	2	5	3	50
2.35	J ORGANOMET CHEM	66	0	3	6	4	0	2	0	3	2	4	42

Acta Crystallographica Section C - citation report by issue

2008				2009				2010			
Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count
1	0	34	2.7	1	0	22	1	1	0	20	0.5
2	0	36	1.3	2	0	31	1	2	0	21	0.7
3	0	37	2.4	3	0	21	1.4	3	0	27	0.2
4	0	30	1.1	4	0	29	1.3	4	0	35	0.4
5	0	26	1.9	5	0	34	1	5	0	15	0.3
6	0	21	2.4	6	0	18	1.1	6	0	23	0.3
7	0	28	1.1	7	0	26	0.7	7	0	28	0.1
8	0	32	0.8	8	0	33	1.2	8	0	23	0.1
9	0	23	2.9	9	0	28	0.8	9	0	25	0.2
10	0	22	1.6	10	0	30	1	10	0	24	0.1
11	0	22	1.1	11	0	25	1.2	11	0	19	0.1
12	0	20	1.5	12	0	30	0.5	12	0	0	0

Acta Crystallographica Section C - citation report by category

	2008				2009				2010			
Category	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count
inorganic compounds	30	30	0	0.6	30	30	0	0.4	31	30	1	0.1
organic compounds	182	182	0	2	160	159	1	0.9	148	133	15	0.3
metal-organic compounds	116	116	0	1.6	138	136	2	1.2	101	94	7	0.3
addenda and errata	2	2	0	0.5	1	1	0	0	3	3	0	0
editorial	1	1	0	0	1	1	0	0	0	0	0	0
international union of crystallography	1	0	1	0	1	0	1	0	1	0	1	0

Acta Crystallographica Section C - highly cited papers (2000-2011)

Year	Volume	Part	First page	ISI citations	Authors	Title
2001	57	8	939	158	Mattheus, C.C.; Dros, A.B.; Baas, J.; et al.	Polymorphism in pentacene
2005	61	1	M19	75	Li, H.; Yin, K.L.; Xu, D.J.	catena-poly[[bis(1H-benzimidazole-kappa N-3)(salicylato-kappa O)copper(II)]-mu-salicylato-O,O':O"]
2000	56	12	1416	53	Okabe, N.; Oya, N.	Bis(mu-pyridine-2,6-carboxylato- O,N,O':O)bis[triaqua-manganese(II)]- pyridine-2,6-dicarboxylic acid (1/2)
2001	57	3	230	51	van Aken, B.B.; Meetsma, A.; Palstra, T.T.M.	Hexagonal YMnO3
2004	60	9	O642	46	Jin, Z.M.; Li, L.; Li, M.C.; et al.	Diethyl 3,8-dimethyl-4,7-diazadeca-2,8-dienedioate
2001	57	7	873	38	Janczak, J.; Perpetuo, G.J.	Melaminium bis(4-hydroxybenzene-sulfonate) dihydrate
2000	56	2	142	38	Deng, R.M.K.; Bilton, C.; Dillon, K.B.; et al.	Two saccharinate complexes: [Mn(phen)(2)(sac)(H2O)](+)·sac(-) and [Co(bipy)(2)(sac)(H2O)](+)·sac(-)
2001	57	9	1120	36	Janczak, J.; Perpetuo, G.J.	Melaminium chloride hemihydrate
2001	57	1	26	36	Stahler, R.; Nather, C.; Bensch, W.	Tris{bis[N-(2-aminoethyl)-1,2-ethane-diamine-kappa N-3]nickel(II)} bis(tetrathioantimonate)
2001	57	12	1431	35	Janczak, J.; Perpetuo, G.J.	Bis(melaminium) sulfate dihydrate
2001	57	1	123	35	Janczak, J.; Perpetuo, G.J.	Melaminium phthalate
2003	59	5	O234	34	Odabasoglu, M.; Albayrak, C.; Buyukgungor, O.; et al.	4-[(3-Chlorophenyl)diazanyl]-2-[[tris(hydroxymethyl)methyl]-aminomethylene} cyclohexa-3,5-dien-1(2H)-one
2004	60	4	M183	33	Liu, B.X.; Su, J.R.; Xu, D.J.	catena-Poly[[[aquabis(1H-benzimidazole-kappa N-3)cadmium(II)]-mu-phthalato-kappa O-3,O':O"] hemihydrate]
2003	59	11	O616	33	Odabasoglu, M.; Albayrak, C.; Buyukgungor, O.; et al.	2-[[Tris(hydroxymethyl)methyl]amino-methylene}cyclohexa-3 5-dien-1(2H)-one and its 6-hydroxy and 6-methoxy derivatives
2001	57	4	347	33	Becker, M.; Jansen, M.	Zinc cyanamide, Zn(CN2)
2004	60	8	O575	31	Smith, G.; Wermuth, U.D.; White, J.M.	Hydrogen bonding in proton-transfer compounds of 5-sulfosalicylic acid with bicyclic heteroaromatic Lewis bases
2006	62	1	O19	30	Dibrov, S.M.; Kochi, J.K.	Crystallographic view of fluidic structures for room-temperature ionic liquids: 1-butyl-3-methylimidazolium hexafluorophosphate
2001	57	3	271	29	Yilmaz, V.T.; Andac, O.; Topcu, Y.; et al.	trans-Bis(ethanolamine-N,O)bis-(saccharinato-N)copper(II)
2000	56	7	786	29	Wang, Z.M.; Luo, J.; Sun, B.W.; et al.	catena-Poly[[dicyanamido(1,10-phen-anthroline)copper(II)]-mu-dicyanamido]
2000	56	3	327	29	Parvez, M.; Bhatti, M.H.; Ali, S.; et al.	(N-Maleoylglycinato)trimethyltin(IV)

Acta Crystallographica Section C - highly cited papers (2008)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
1	0	o4	organic compounds	16	Siddiqui, W.A., Ahmad, S., Tariq, M.I., Siddiqui, H.L., Parvez, M.	N-(X-Chlorophenyl)-4-hydroxy-2-methyl-2H-1,2-benzothiazine-3-carboxamide 1,1-dioxide (with X = 2 and 4)
1	0	m58	metal-organic compounds	13	Liu, Q.S., Liu, L.D., Shi, J.M.	Bis[[mu]-1-(1,10-phenanthrolin-2-yl)-2-pyridone]bis{aqua[1-(1,10-phenanthrolin-2-yl)-2-pyridone]cadmium(II)} tetrakis(perchlorate)
6	0	o335	organic compounds	12	Donnelly, K., Gallagher, J.F., Lough, A.J.	Assembling an isomer grid: the isomorphous 4-, 3- and 2-fluoro-N'-(4-pyridyl)benzamides
3	0	o180	organic compounds	12	Smith, G., Wermuth, U.D., White, J.M.	One-dimensional hydrogen-bonded structures in the 1:1 proton-transfer compounds of 4,5-dichlorophthalic acid with 8-hydroxyquinoline, 8-aminoquinoline and quinoline-2-carboxylic acid (quinaldic acid)
3	0	o105	organic compounds	11	Reece, H.A., Levendis, D.C.	Polymorphs of gabapentin
2	0	o53	organic compounds	11	Meng, X.-G., Xiao, Y.-L., Wang, Z.-L., Liu, C.-L.	Three-dimensional networks in 5-methylimidazolium 3-carboxy-4-hydroxybenzenesulfonate and bis(5-methylimidazolium) 3-carboxylato-4-hydroxybenzenesulfonate
10	0	o550	organic compounds	11	Gotoh, K., Asaji, T., Ishida, H.	Hydrogen bonding in 1,2-diazine-chloranilic acid (2/1) and 1,4-diazine-chloranilic acid (2/1) determined at 110 K
1	0	m26	metal-organic compounds	10	Li, Q.-Y., Yang, G.-W., Yuan, R.-X., Wang, J.-P., Cui, P.-F.	Bis(5-aminotetrazole-1-acetato-[kappa]O)tetraaquacobalt(II) and catena-poly[[cadmium(II)]-bis([mu]-5-aminotetrazole-1-acetato-[kappa]3N4:O,O')]
9	0	o519	organic compounds	10	Gomez, S.L., Raysth, W., Palma, A., Cobo, J., Low, J.N., Glidewell, C.	Three aryl-substituted tetrahydro-1,4-epoxy-1-benzazepines: hydrogen-bonded structures in two or three dimensions
9	0	o532	organic compounds	9	Smith, G., Wermuth, U.D., White, J.M.	Two- and three-dimensional hydrogen-bonded structures in the 1:1 proton-transfer compounds of 4,5-dichlorophthalic acid with the isomeric monoaminobenzoic acids
9	0	o514	organic compounds	9	Acosta, L.M., Bahsas, A., Palma, A., Cobo, J., Low, J.N., Glidewell, C.	Three styryl-substituted tetrahydro-1,4-epoxy-1-benzazepines: configurations, conformations and hydrogen-bonded chains
9	0	o524	organic compounds	8	Blanco, M.C., Raysth, W., Palma, A., Cobo, J., Low, J.N., Glidewell, C.	Three tetrahydro-1,4-epoxy-1-benzazepines carrying pendent heterocyclic substituents: supramolecular structures in zero, one or two dimensions
10	0	m336	metal-organic compounds	8	Qiao, Q., Zhao, Y.-J., Tang, T.-D.	A six-connected [alpha]-polonium net based on tetranuclear CdII nodes
5	0	o264	organic compounds	8	Perpetuo, G.J., Janczak, J.	The chloride, bromide and iodide salts of 1-(diaminomethylene)thiourea-1-ium
6	0	o313	organic compounds	8	Drebushchak, T.N., Bizyaev, S.N., Boldyreva, E.V.	Bis(dl-cysteinium) oxalate
3	0	o114	organic compounds	7	Janczak, J., Perpetuo, G.J.	1-(Diaminomethylene)thiourea: a tautomer of 2-imino-4-thiobiuret
3	0	m117	metal-organic compounds	7	Govor, E.V., Lysenko, A.B., Domasevitch, K.V., Rusanov, E.B., Chernega, A.N.	Copper(II) and cadmium(II) isothiocyanate coordination polymers with 4,4'-bi-1,2,4-triazole
1	0	o10	organic compounds	7	Burley, J.C., Gilmour, R., Prior, T.J., Day, G.M.	Structural diversity in imidazolidinone organocatalysts: a synchrotron and computational study

Acta Crystallographica Section C - highly cited papers (2009)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
8	0	m305	metal-organic compounds	20	Sun, D., Luo, G.-G., Huang, R.-B., Zhang, N., Zheng, L.-S.	catena-Poly[[[(iminodiacetato-[kappa]O)silver(I)-[mu]3-2-aminopyrimidine-[kappa]3N1:N2:N3) monohydrate]: a one-dimensional silver(I) coordination polymer with mixed ligands
3	0	o103	organic compounds	9	Smith, G., Wermuth, U.D., White, J.M.	Zero-, one- and two-dimensional hydrogen-bonded structures in the 1:1 proton-transfer compounds of 4,5-dichlorophthalic acid with the monocyclic heteroaromatic Lewis bases 2-aminopyrimidine, nicotinamide and isonicotinamide
11	0	m418	metal-organic compounds	7	Sun, D., Luo, G.-G., Zhang, N., Huang, R.-B., Zheng, L.-S.	catena-Poly[bis[silver(I)-[mu]2-4,4'-bipyridine-[kappa]2N:N'] naphthalene-2,6-dicarboxylate tetrahydrate]: self-assembly of a supramolecular framework <i>via</i> coordination bonds and supramolecular interactions
2	0	m62	metal-organic compounds	7	Koner, R., Goldberg, I.	Square-grid coordination networks of diaquabis(4,4'-bipyridyl)copper(II) crosslinked by hydrogen bonds through two monoanions of 1-benzofuran-2,3-dicarboxylic acid and five molecules of water
11	0	m440	metal-organic compounds	6	Sun, D., Luo, G.-G., Zhang, N., Huang, R.-B., Zheng, L.-S.	catena-Poly[silver(I)-[mu]2-4,4'-bipyridine-[kappa]2N:N'-[mu]3-chlorido]: self-assembly of a two-dimensional bilayer silver(I) coordination polymer from AgCl and a bipodal spacer
5	0	m198	metal-organic compounds	6	Massoud, A.A., Langer, V.	Bis(1,3,5-triazine-2,4,6-triamine-[kappa]N1)silver(I) nitrate
9	0	o465	organic compounds	6	Gomez, S.L., Sanabria, C.M., Palma, A., Bahsas, A., Cobo, J., Glidewell, C.	Four differently substituted 2-aryl-2,3,4,5-tetrahydro-1H-1,4-epoxy-1-benzazepines: hydrogen-bonded structures in one, two and three dimensions
3	0	m139	metal-organic compounds	6	Koner, R., Goldberg, I.	Square-grid coordination networks of (5,10,15,20-tetra-4-pyridylporphyrinato)zinc(II) in its clathrate with two guest molecules of 1,2-dichlorobenzene: supramolecular isomerism of the porphyrin self-assembly
1	0	m37	metal-organic compounds	5	Koner, R., Goldberg, I.	Probing the supramolecular interaction synthons of 1-benzofuran-2,3-dicarboxylic acid in its monoanionic form
12	0	m478	metal-organic compounds	5	Sun, D., Luo, G.-G., Zhang, N., Huang, R.-B., Zheng, L.-S.	Poly[bis([mu]2-2-aminopyrazine-[kappa]2N1:N4)([mu]2-nitrato-[kappa]2O:O)(nitrato-[kappa]2O,O')disilver(I)): an achiral two-dimensional coordination polymer forming chiral crystals
6	0	o273	organic compounds	5	Gotoh, K., Nagoshi, H., Ishida, H.	Hydrogen-bonded structures of the isomeric 2-, 3- and 4-carbamoylpyridinium hydrogen chloranilates
5	0	m190	metal-organic compounds	5	Chen, X.-H., Wu, Q.-J., Liang, Z.-Y., Zhan, C.-R., Liu, J.-B.	Nickel and zinc complexes with a monodentate heterocycle and tridentate Schiff base ligands: self-assembly to one- and two-dimensional supramolecular networks <i>via</i> hydrogen bonding
10	0	m377	metal-organic compounds	5	Luo, G.-G., Sun, D., Zhang, N., Huang, R.-B., Zheng, L.-S.	Two novel silver(I) coordination polymers: poly{([mu]2-2-aminopyrimidine-[kappa]2N1:N3)bis([mu]3-thiocyanato-[kappa]3S:S:S)disilver(I)} and poly{(2-amino-4,6-dimethylpyrimidine-[kappa]N)([mu]3-thiocyanato-[kappa]3N:S:S)silver(I)}

Acta Crystallographica Section C - highly cited papers (2010)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
4	0	o206	organic compounds	3	Acosta, L.M., Palma, A., Bahsas, A., Cobo, J., Glidewell, C.	A three-dimensional hydrogen-bonded framework in (2S*,4R*)-7-fluoro-2-exo-[(E)-styryl]-2,3,4,5-tetrahydro-1H-1,4-epoxy-1-benzazepine
2	0	m51	metal-organic compounds	3	Rychlewska, U., Warzajtis, B., Glisic, B.D., Rajkovic, S., Djuran, M.	Crystallographic evidence of Gly-d,l-Met oxidation to its sulfoxide in the presence of gold(III): solid solution of the racemic mixture of two diastereoisomers
3	0	o128	organic compounds	3	Czapik, A., Konowalska, H., Gdaniec, M.	p-Phenylenediamine and its dihydrate: two-dimensional isomorphism and mechanism of the dehydration process, and N-H...N and N-H...[pi] interactions
7	0	m188	metal-organic compounds	2	Zhao, M.M., Qu, Z.R.	Propane-1,3-diaminium tetrachloridozincate(II) 18-crown-6 clathrate
1	0	m13	metal-organic compounds	2	Freire, E., Vega, D.R., Baggio, R.	Zoledronate complexes. I. Poly[[[mu]2-aqua[[mu]3-1-hydroxy-2-(1H,3H-imidazol-3-ium-1-yl)ethylidenediphosphonato]potassium(I)] monohydrate]
2	0	o59	organic compounds	2	Mehta, G., Sen, S.	Modulating the preferred O-H...O hydrogen-bonding motif in a conformationally constrained environment through hydroxy-group derivatization
4	0	o209	organic compounds	2	Acosta, L.M., Palma, A., Bahsas, A., Cobo, J., Glidewell, C.	Hydrogen-bonded dimers, chains and rings in six differently substituted 2-vinyltetrahydro-1,4-epoxy-1-benzazepines
9	0	o455	organic compounds	2	Ashiq, M.I., Hussain, I., Dixon, S., Light, M.E., Kilburn, J.D.	Dimeric supramolecular motifs of two carboxylate-guanidinium compounds
2	0	i16	inorganic compounds	2	Smrcok, L., Cerny, R., Boca, M., Mackova, I., Kubikova, B.	K3TaF8 from laboratory X-ray powder data
1	0	m9	metal-organic compounds	2	Lutz, M., Schreurs, A.M.M., Spek, A.L., Moelands, M.A.H., Klein Gebbink, R.J.M.	catena-Poly[[bis(acetonitrile-[kappa]N)manganese(II))-bis([mu]-trifluoromethanesulfonato-[kappa]2O:O')]
6	0	m145	metal-organic compounds	2	Ho, D.M.	Bis(hinokitolato)copper(II): modification (III)
2	0	o64	organic compounds	2	Castillo, J.C., Abonia, R., Hursthouse, M.B., Cobo, J., Glidewell, C.	N-(3-tert-Butyl-1-phenyl-1H-pyrazol-5-yl)-N-(4-methoxybenzyl)acetamide: a hydrogen-bonded chain of centrosymmetric rings
4	0	o233	organic compounds	2	Gomez, S.L., Palma, A., Cobo, J., Glidewell, C.	Five 2-aryl-substituted tetrahydro-1,4-epoxy-1-benzazepines: isolated molecules and hydrogen-bonded chains and sheets

Acta Crystallographica Section C - top 10 articles downloaded in 2010

HTML downloads in 2010 = 41098 PDF downloads in 2010 = 128664 Total downloads in 2010 = 169762

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
66	1	e1	international union of crystallography	2170		Notes for authors 2010
59	1	i7	inorganic compounds	243	Hughes, K.-A. and Burns, P.C.	Uranyl dinitrate trihydrate, UO ₂ (NO ₃) ₂ (H ₂ O) ₃
66	4	o198	organic compounds	217	Czapik, A. and Gdaniec, M.	A new polymorph of benzene-1,2-diamine: isomorphism with 2-aminophenol and two-dimensional isostructurality of polymorphs
65	1	e3	international union of crystallography	209		Notes for authors 2009
65	12	o635	organic compounds	209	Feast, G.C., Haestier, J., Page, L.W., Robertson, J., Thompson, A.L. and Watkin, D.J.	An unusual methylene aziridine refined in P2 ₁ /c and the nonstandard setting P2 ₁ /n

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
65	10	o521	organic compounds	208	Guzei, I.A., Wang, C., Zhan, Y., Dolomanov, O.V. and Cheng, Y.-Q.	Pseudomerohedrally twinned monoclinic structure of unfolded 'free' nonactin: comparative analysis of its large conformational change upon encapsulation of alkali metal ions
59	1	i1	inorganic compounds	206	Kuratieva, N.V., Naumova, M.I., Naumov, D.Yu. and Podberezskaya, N.V.	Hexaaquanickel(II) bis(hypophosphite)
59	1	o1	organic compounds	202	Bowes, K.F., Glidewell, C., Low, J.N., Skakle, J.M.S. and Wardell, J.L.	A triclinic polymorph of benzanilide: disordered molecules form hydrogen-bonded chains
62	4	m166	metal-organic compounds	192	Dale, S.H. and Elsegood, M.R.J.	Oxalate complexes of the ([eta]6-p-cymene)ruthenium(II) fragment: [mu]-oxalato-[kappa]2O1,O2: [kappa]2O1',O2'-bis([eta]6-p-cymene) (triphenylphosphine-[kappa]P)ruthenium(II) bis(tetrafluoroborate) and ([eta]6-p-cymene)(oxalato-[kappa]2O,O') (pyridine-3,5-dicarboxylic acid-[kappa]N)ruthenium(II)
60	8	m410	metal-organic compounds	182	Curtis, N.F. and Puschmann, H.	A compound of a novel tetraaza-macrocyclic with trinuclear tetracyanonickelate-bridged cations

INFORMATION ON SECTION D

Numbers at a glance Acta Crystallographica Section D

Institutional subscriptions	Licensed sales	Multiyear Licenses	Full-text downloads 2010	Impact factor 2010	Ranking 2010
455	>3900	342	286634	6.33	3 of 25

Journal profile

Acta Crystallographica Section D: Biological Crystallography welcomes the submission of papers covering any aspect of structural biology, with a particular emphasis on the structures of biological macromolecules and the methods used to determine them. Reports on new protein structures are particularly encouraged, as are structure–function papers that could include crystallographic binding studies, or structural analysis of mutants or other modified forms of a known protein structure. The key criterion is that such papers should present new insights into biology, chemistry or structure.

Triennial report

Acta Crystallographica Section D

Section D of Acta Crystallographica continues to play a key role in biological crystallography, focusing both on methods and on structural papers and the insights they bring to biology and chemistry. Structural biology is still expanding rapidly, and crystallographic studies have become integral to many areas of biology. As a result, many more journals now publish crystallographic results and Section D competes in a very large field for structural papers. On the other hand, with increasing automation, crystallographic methods are of intense interest and importance, and Section D is pre-eminent in this area. On average, about half of the papers published by Section D are methodological, with the remainder reporting structural results on biological macromolecules or their complexes. We are pleased that the journal does attract a steady flow of good quality structural papers, at a rate of about 6–10 such publications per month.

Many important methodological papers each year are contained within the very popular CCP4 study weekend series. A CCP4 special issue is published each year, with a different theme each time. We are very grateful to the Guest Editors who put these issues together: in 2009, Randy Read, Gerard Kleywegt and Charles Ballard on “Low-Resolution Structure Determination and Validation”; in 2010, Elspeth Garman, Arwen Pearson, Clemens Vornrhein and Charles Ballard on “Experimental phasing and radiation damage” and in 2011, Keith Wilson, Kevin Cowtan, Paul Emsley and Charles Ballard on “From crystal to structure with CCP4”. Other special issues have also focused on methods: in 2009, papers from a workshop on “New Algorithms in Macromolecular Crystallography and Electron Microscopy”, with Navraj Pannu, Raimond Ravelli and Jan Pieter Abrahams as Guest Editors; and in 2010 a special issue on “Neutrons in biology”, brought together by Paul Langan. This latter issue highlights a renewed interest in the applications of neutron scattering.

A very troubling issue arose during the past triennium, with the discovery of a series of fabricated protein structures, published in a variety of journals. After a lengthy investigation by the University of Alabama, the host institution of the individual involved, it was concluded that at least 13 protein structures had been fabricated. Two papers published in 1999 by Section D have now been retracted, and similar actions have been taken by other journals. It is probably impossible to eliminate fraud completely, but this event has highlighted the need for rigorous validation of structural results. Sections D and F now require that validation reports be made available for referees, and more sophisticated validation tests are currently being developed.

We also note an issue that is of importance to all IUCr journals, and particularly Section D. This is the practice, in some high-profile journals, of describing crystallographic procedures only in supplementary data. This means that citations are not picked up by searches, reducing the credit to the authors of methods papers and the apparent impact of our journal. Editorials raising this issue were published in IUCr journals last year and the issue has been raised with the major journals involved.

The technical, visual and production quality of Section D remains superb, and further enhancements of the electronic submission system have made it very user-friendly for editors, authors and referees. The journals office in Chester deserves great credit for this. Publication times are good, at an average of ~ 4.5 months for full articles. The size of the journal, after falling in the last triennium with the launch of Section F, has increased gradually in the current triennium from 1294 pages in 2008 to 1354 pages in 2008. The rejection rates in the two triennia were similar at about 12%.

Finally we thank the many people who contribute to the success of the journal. We particularly wish to thank those Co-editors who step down in 2011 after their 9 years of service: Naomi Chayen, Steve Ealick, Mitchell Guss, Hazel Holden, Bill Hunter, Mark Pusey and Peter Timmins. They, together with our other Co-editors, have given much time and

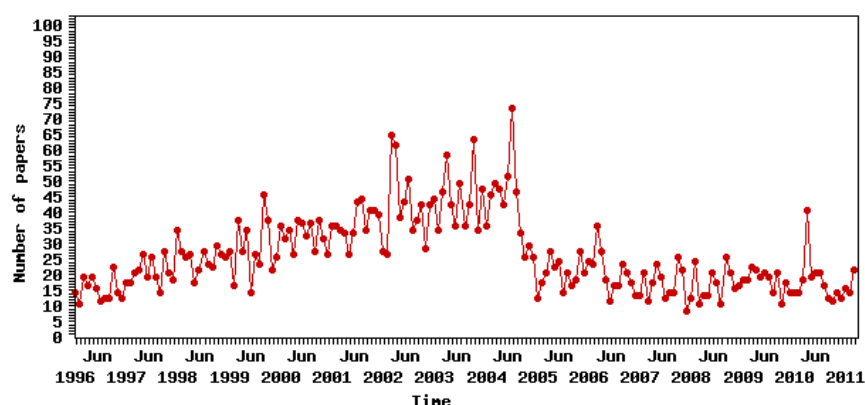
wisdom to shepherding papers through to acceptance. We also welcome as newly nominated Co-editors Charles Bond, Zygmunt Derewenda, Janet Newman, Randy Read and Marc Schiltz. We also thank our authors and readers; the reviewers whose efforts are critical for maintaining quality; Louise Jones and Simon Glynn for their efforts at the Editorial Office in maintaining superb production quality; and Peter Strickland, as Managing Editor, and Gernot Kostorz, Editor-in-Chief, for their guidance and management.

E.N. Baker and Z. Dauter, Editors

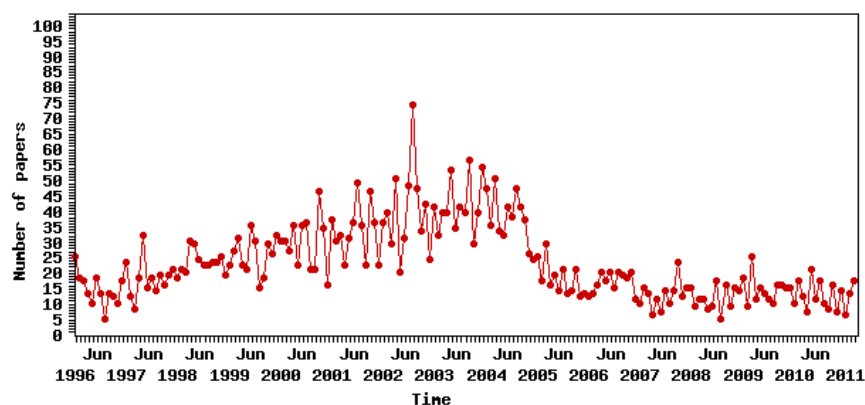
Recent and forthcoming special issues

- CCP4 - Low-Resolution Structure Determination and Validation (February 2009)
- New Algorithms in X-ray Crystallography and EM (July 2009)
- CCP4 – Experimental Phasing and Radiation Damage (April 2010)
- Neutrons in Biology (November 2010)
- CCP4 – From Crystal to Structure with CCP4 (April 2011)
- CCP4 – Model building and refinement and validation (spring 2012)

Acta Crystallographica Section D - papers submitted (1996-2011)



Acta Crystallographica Section D - papers accepted (1996-2011)



Acta Crystallographica Section D - citing journals

Impact	Citing Journal	Cited Year											
		All Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
	All Journals	10139	1187	252	416	618	523	611	466	481	398	334	4853
0.41	ACTA CRYSTALLOGR E	1003	999	0	0	1	0	0	0	0	0	0	3
3.87	J MOL BIOL	873	2	14	35	58	43	39	38	45	30	22	547
5.33	J BIOL CHEM	743	3	8	28	47	42	44	25	31	23	19	473
2.26	ACTA CRYSTALLOGR D	732	21	44	42	62	58	47	45	27	23	33	330

Impact	Citing Journal	Cited Year											
		All Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
0.55	ACTA CRYSTALLOGR F	515	5	14	30	51	36	27	23	10	8	8	303
3.23	BIOCHEMISTRY-US	477	1	13	18	26	21	36	18	14	23	16	291
3.09	PROTEINS	368	1	3	9	19	15	21	14	25	10	21	230
	ALL OTHERS (311)	311	5	8	13	17	26	35	27	38	22	32	88
9.43	P NATL ACAD SCI USA	258	3	4	10	16	20	15	6	9	9	5	161
5.9	STRUCTURE	201	0	6	9	11	7	12	8	12	9	8	119
2.94	PROTEIN SCI	186	0	3	5	17	12	11	4	12	6	5	111
3.04	FEBS J	144	1	3	3	10	5	3	7	6	11	5	90
3.02	J APPL CRYSTALLOGR	136	4	4	8	12	13	14	8	10	6	10	47
34.48	NATURE	128	1	2	2	9	2	4	2	11	6	5	84
8.58	J AM CHEM SOC	128	2	3	2	5	2	11	6	9	3	4	81
4.35	PLOS ONE	125	0	1	9	15	10	10	4	7	4	3	62
2.55	BIOCHEM BIOPH RES CO	120	1	2	3	2	4	5	7	2	3	4	87
4.8	J MED CHEM	120	0	1	1	8	4	17	8	0	6	0	75
7.48	NUCLEIC ACIDS RES	116	1	4	6	4	5	5	5	9	4	2	71
8.99	EMBO J	103	0	1	3	10	5	1	1	2	6	3	71

Acta Crystallographica Section D - citation report by issue

Special issues are shaded.

2008				2009				2010			
Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count
1 ^a	0	17	14.6	1	0	12	3.3	1	0	13	10.2
2	0	11	5.8	2 ^b	0	12	223	2	0	14	19.9
3	0	13	4.1	3	0	13	2.5	3	0	13	0.5
4	0	14	4.7	4	0	14	1.3	4 ^d	0	18	8.6
5	0	15	3.8	5	0	12	3.7	5	0	15	1
6	0	12	4	6	0	12	4	6	0	11	0.3
7	0	11	5.2	7 ^c	0	13	2.9	7	0	13	0.5
8	0	11	3.6	8	0	17	1.6	8	0	12	0.1
9	0	13	2.5	9	0	17	2.4	9	0	11	0.2
10	0	9	2.8	10	0	12	2.8	10	0	8	0.1
11	0	12	3.4	11	0	11	0.7	11 ^e	0	25	0.3
12	0	13	3.8	12	0	13	1	12	0	12	0

(a) CCP4 - Molecular replacement; (b) CCP4 - Low-Resolution Structure Determination and Validation; (c) New Algorithms in X-ray Crystallography and EM; (d) CCP4 – Experimental Phasing and Radiation Damage; (e) Neutrons in Biology.

Acta Crystallographica Section D - citation report by category

	2008				2009				2010			
Category	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count
research papers	135	135	0	5.3	136	136	0	21.9	148	148	0	4.1
short communications	13	13	0	3.8	16	16	0	2.5	11	11	0	0.2
letters to the editor	2	2	0	4	2	2	0	2.5	1	1	0	0
essays	0	0	0	0	1	1	0	1	0	0	0	0
addenda and errata	0	0	0	0	1	1	0	0	1	1	0	0
book reviews	0	0	0	0	1	0	1	0	1	0	1	0
editorial	1	1	0	4	1	1	0	0	4	4	0	0.8
international union of crystallography	1	0	1	0	1	0	1	0	1	0	1	0
issue preface	1	0	1	0	1	0	1	0	1	0	1	0
obituaries	0	0	0	0	1	1	0	0	0	0	0	0

Acta Crystallographica Section D - highly cited papers (2000-2011)

Year	Volume	Part	First page	ISI citations	Authors	Title
2004	60	12_1	2126	6095	Emsley, P.; Cowtan, K.	Coot: model-building tools for molecular graphics
2009	65	2	148	2823	Spek, A.L.	Structure validation in chemical crystallography
2002	58	11	1948	1144	Adams, P.D.; Grosse-Kunstleve, R.W.; Hung, L.W.; et al.	PHENIX: building new software for automated crystallographic structure determination
2000	56	8	965	1122	Terwilliger, T.C.	Maximum-likelihood density modification
2001	57	1	122	1017	Winn, M.D.; Isupov, M.N.; Murshudov, G.N.	Use of TLS parameters to model anisotropic displacements in macromolecular refinement
2005	61	4	458	940	McCoy, A.J.; Grosse-Kunstleve, R.W.; Storoni, L.C.; et al.	Likelihood-enhanced fast translation functions
2004	60	12_1	2256	898	Krissinel, E.; Henrick, K.	Secondary-structure matching (SSM), a new tool for fast protein structure alignment in three dimensions
2002	58	10_2	1772	875	Schneider, T.R.; Sheldrick, G.M.	Substructure solution with SHELXD
2004	60	8	1355	794	Schüttelkopf, A.W.; van Aalten, D.M.F.	PRODRG: a tool for high-throughput crystallography of protein-ligand complexes
2004	60	3	432	694	Storoni, L.C.; McCoy, A.J.; Read, R.J.	Likelihood-enhanced fast rotation functions
2001	57	10	1367	541	Navaza, J.	Implementation of molecular replacement in AMoRe
2002	58	6_1	899	530	Berman, H.M.; Battistuz, T.; Bhat, T.N.; et al.	The Protein Data Bank
2000	56	12	1622	462	Vagin, A.; Teplyakov, A.	An approach to multi-copy search in molecular replacement
2001	57	10	1373	445	Read, R.J.	Pushing the boundaries of molecular replacement with maximum likelihood
2006	62	1	72	444	Evans, P.	Scaling and assessment of data quality
2003	59	7	1131	391	Potterton, E.; Briggs, P.; Turkenburg, M.; et al.	A graphical user interface to the CCP4 program suite
2006	62	1	48	346	Leslie, A.G.W.	The integration of macromolecular diffraction data
2003	59	1	38	332	Terwilliger, T.C.	Automated main-chain model building by template matching and iterative fragment extension

2006	62	4	439	325	Painter, J.; Merritt, E.A.	Optimal description of a protein structure in terms of multiple groups undergoing TLS motion
2001	57	10	1445	298	Perrakis, A.; Harkiolaki, M.; Wilson, K.S.; et al.	ARP/wARP and molecular replacement

Acta Crystallographica Section D - highly cited papers (2008)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
1	0	125	research papers	63	Long, F., Vagin, A.A., Young, P., Murshudov, G.N.	BALBES: a molecular-replacement pipeline
1	0	61	research papers	43	Terwilliger, T.C., Grosse-Kunstleve, R.W., Afonine, P.V., Moriarty, N.W., Zwart, P.H., Hung, L.-W., Read, R.J., Adams, P.D.	Iterative model building, structure refinement and density modification with the PHENIX AutoBuild wizard
1	0	49	research papers	35	Cohen, S.X., Ben Jelloul, M., Long, F., Vagin, A., Knipscheer, P., Lebbink, J., Sixma, T.K., Lamzin, V.S., Murshudov, G.N., Perrakis, A.	ARP/wARP and molecular replacement: the next generation
2	0	158	research papers	28	Moukhametzianov, R., Burghammer, M., Edwards, P.C., Petitdemange, S., Popov, D., Fransen, M., McMullan, G., Schertler, G.F.X., Riek, C.	Protein crystallography with a micrometre-sized synchrotron-radiation beam
1	0	33	research papers	24	Lebedev, A.A., Vagin, A.A., Murshudov, G.N.	Model preparation in MOLREP and examples of model improvement using X-ray data
3	0	257	research papers	22	Dokmanic, I., Sikic, M., Tomic, S.	Metals in proteins: correlation between the metal-ion type, coordination number and the amino-acid residues involved in the coordination
1	0	99	research papers	19	Zwart, P.H., Grosse-Kunstleve, R.W., Lebedev, A.A., Murshudov, G.N., Adams, P.D.	Surprises and pitfalls arising from (pseudo)symmetry
4	0	425	research papers	17	Sanishvili, R., Nagarajan, V., Yoder, D., Becker, M., Xu, S., Corcoran, S., Akey, D.L., Smith, J.L., Fischetti, R.F.	A 7 microm mini-beam improves diffraction data from small or imperfect crystals of macromolecules
12	0	1210	research papers	13	Soltis, S.M., Cohen, A.E., Deacon, A., Eriksson, T., Gonzalez, A., McPhillips, S., Chui, H., Dunten, P., Hollenbeck, M., Mathews, I., Miller, M., Moorhead, P., Phizackerley, R.P., Smith, C., Song, J., van dem Bedem, H., Ellis, P., Kuhn, P., McPhillips, T., Sauter, N., Sharp, K., Tsyba, I., Wolf, G.	New paradigm for macromolecular crystallography experiments at SSRL: automated crystal screening and remote data collection

Acta Crystallographica Section D - highly cited papers (2009)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
2	0	148	research papers	2823	Spek, A.L.	Structure validation in chemical crystallography
6	0	567	research papers	24	Adams, P.D., Mustyakimov, M., Afonine, P.V., Langan, P.	Generalized X-ray and neutron crystallographic analysis: more accurate and complete structures for biological macromolecules
5	0	510	short communications	18	Bond, C.S., Schüttelkopf, A.W.	ALINE: a WYSIWYG protein-sequence alignment editor for publication-quality alignments
2	0	176	research papers	11	Joosten, R.P., Womack, T., Vriend, G., Bricogne, G.	Re-refinement from deposited X-ray data can deliver improved models for most PDB entries
2	0	156	research papers	10	Luttkie, T.	Analysis and validation of carbohydrate three-dimensional structures
2	0	186	research papers	10	Korkhov, V.M., Tate, C.G.	An emerging consensus for the structure of EmrE

Issue	Part	First page	Paper category	ISI citation	Authors	Title
1	0	34	research papers	10	Chen, Z., de Serrano, V., Betts, L., Franzen, S.	Distal histidine conformational flexibility in dehaloperoxidase from <i>Amphitrite ornata</i>
10	0	1089	research papers	10	Panjikar, S., Parthasarathy, V., Lamzin, V.S., Weiss, M.S., Tucker, P.A.	On the combination of molecular replacement and single-wavelength anomalous diffraction phasing for automated structure determination
2	0	128	research papers	9	Brunger, A.T., DeLaBarre, B., Davies, J.M., Weis, W.I.	X-ray structure determination at low resolution
6	0	582	research papers	9	Terwilliger, T.C., Adams, P.D., Read, R.J., McCoy, A.J., Moriarty, N.W., Grosse-Kunstleve, R.W., Afonine, P.V., Zwart, P.H., Hung, L.-W.	Decision-making in structure solution using Bayesian estimates of map quality: the PHENIX AutoSol wizard
3	0	297	short communications	8	Urzhumtseva, L., Afonine, P.V., Adams, P.D., Urzhumtsev, A.	Crystallographic model quality at a glance
10	0	1074	research papers	7	Moriarty, N.W., Grosse-Kunstleve, R.W., Adams, P.D.	electronic Ligand Builder and Optimization Workbench (eLBOW): a tool for ligand coordinate and restraint generation
7	0	659	research papers	7	Schmeisser, M., Heisen, B.C., Luettich, M., Busche, B., Hauer, F., Koske, T., Knauber, K.-H., Stark, H.	Parallel, distributed and GPU computing technologies in single-particle electron microscopy
1	0	24	research papers	6	Friemann, R., Lee, K., Brown, E.N., Gibson, D.T., Eklund, H., Ramaswamy, S.	Structures of the multicomponent Rieske non-heme iron toluene 2,3-dioxygenase enzyme system
2	0	112	research papers	6	Brueckner, F., Armache, K.-J., Cheung, A., Damsma, G.E., Kettenberger, H., Lehmann, E., Sydow, J., Cramer, P.	Structure-function studies of the RNA polymerase II elongation complex
5	0	485	research papers	6	Dominiak, P.M., Volkov, A., Dominiak, A.P., Jarzemska, K.N., Coppens, P.	Combining crystallographic information and an aspherical-atom data bank in the evaluation of the electrostatic interaction energy in an enzyme-substrate complex: influenza neuraminidase inhibition
3	0	284	research papers	6	Johnas, S.K.J., Dittrich, B., Meents, A., Messerschmidt, M., Weckert, E.F.	Charge-density study on cyclosporine A
7	0	651	research papers	6	Siebert, X., Navaza, J.	UROX 2.0: an interactive tool for fitting atomic models into electron-microscopy reconstructions
2	0	134	research papers	6	Kleywegt, G.J.	On vital aid: the why, what and how of validation

Acta Crystallographica Section D - highly cited papers (2010)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
2	0	213	research papers	152	Adams, P.D., Afonine, P.V., Bunkoczi, G., Chen, V.B., Davis, I.W., Echols, N., Headd, J.J., Hung, L.-W., Kapral, G.J., Grosse-Kunstleve, R.W., McCoy, A.J., Moriarty, N.W., Oeffner, R., Read, R.J., Richardson, D.C., Richardson, J.S., Terwilliger, T.C., Zwart, P.H.	PHENIX: a comprehensive Python-based system for macromolecular structure solution
4	0	486	research papers	109	Emsley, P., Lohkamp, B., Scott, W.G., Cowtan, K.	Features and development of Coot
2	0	125	research papers	100	Kabsch, W.	XDS
1	0	12	research papers	75	Chen, V.B., Arendall, W.B., Headd, J.J., Keedy, D.A., Immormino, R.M., Kapral, G.J., Murray, L.W., Richardson, J.S., Richardson, D.C.	MolProbity: all-atom structure validation for macromolecular crystallography

Issue	Part	First page	Paper category	ISI citation	Authors	Title
1	0	22	research papers	45	Vagin, A., Teplyakov, A.	Molecular replacement with MOLREP
2	0	133	research papers	21	Kabsch, W.	Integration, scaling, space-group assignment and post-refinement
4	0	426	research papers	6	Borek, D., Cymborowski, M., Machius, M., Minor, W., Otwinowski, Z.	Diffraction data analysis in the presence of radiation damage
4	0	470	research papers	6	Cowtan, K.	Recent developments in classical density modification
4	0	381	research papers	6	Paithankar, K.S., Garman, E.F.	Know your dose: RADDose
4	0	339	research papers	5	Garman, E.F.	Radiation damage in macromolecular crystallography: what is it and why should we care?
4	0	479	research papers	5	Sheldrick, G.M.	Experimental phasing with SHELXC/D/E: combining chain tracing with density modification
11	0	1153	research papers	4	Afonine, P.V., Mustyakimov, M., Grosse-Kunstleve, R.W., Moriarty, N.W., Langan, P., Adams, P.D.	Joint X-ray and neutron refinement with phenix.refine
4	0	409	research papers	4	Bourenkov, G.P., Popov, A.N.	Optimization of data collection taking radiation damage into account

Acta Crystallographica Section D - top 10 articles downloaded in 2010

HTML downloads in 2010 = 111918 PDF downloads in 2010 = 174716 Total downloads in 2010 = 286634

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
66	1	1	editorial	1990	Dauter, Z. and Baker, E.N.	Black sheep among the flock of protein structures
66	2	213	research papers	1888	Adams, P.D., Afonine, P.V., Bunkoczi, G., Chen, V.B., Davis, I.W., Echols, N., Headd, J.J., Hung, L.-W., Kapral, G.J., Grosse-Kunstleve, R.W., McCoy, A.J., Moriarty, N.W., Oeffner, R., Read, R.J., Richardson, D.C., Richardson, J.S., Terwilliger, T.C. and Zwart, P.H.	PHENIX: a comprehensive Python-based system for macromolecular structure solution
66	4	486	research papers	1431	Emsley, P., Lohkamp, B., Scott, W.G. and Cowtan, K.	Features and development of Coot
60	12	2126	research papers	1212	Emsley, P. and Cowtan, K.	Coot: model-building tools for molecular graphics
66	1	110	international union of crystallography	1126		Notes for authors 2010
62	10	1218	research papers	1095	Berrow, N.S., Bussow, K., Coutard, B., Diprose, J., Ekberg, M., Folkers, G.E., Levy, N., Lieu, V., Owens, R.J., Peleg, Y., Pinaglia, C., Quevillon-Cheruel, S., Salim, L., Scheich, C., Vincentelli, R. and Busso, D.	Recombinant protein expression and solubility screening in Escherichia coli: a comparative study
55	10	1703	research papers	901	Dauter, Z.	Data-collection strategies
66	2	125	research papers	890	Kabsch, W.	XDS
66	2	222	addenda and errata	821		Retraction of articles by H. M. Krishna Murthy et al.
66	1	12	research papers	808	Chen, V.B., Arendall, W.B., Headd, J.J., Keedy, D.A., Immormino, R.M., Kapral, G.J., Murray, L.W., Richardson, J.S. and Richardson, D.C.	MolProbity: all-atom structure validation for macromolecular crystallography

INFORMATION ON SECTION E

Numbers at a glance - Acta Crystallographica Section E

Full-text downloads 2010	Impact factor 2010	Ranking 2010
1366884	0.41	24 of 25

Journal profile

Acta Crystallographica Section E: Structure Reports Online is the IUCr's highly popular open-access structural journal. It provides a simple and easily accessible publication mechanism for the growing number of inorganic, metal-organic and organic crystal structure determinations. The electronic submission, validation, refereeing and publication facilities of the journal ensure very rapid and high-quality publication, whilst key indicators and validation reports provide measures of structural reliability. The average publication time is less than one month.

Triennial report

Acta Crystallographica Section E

The years 2008–2010 have seen numerous positive developments and some challenges for our journal. The operational statistics are summarized in the table below. Over the first two years of the reporting period the distribution of papers by country remained approximately constant. In 2009 47% of papers had the authors from the People's Republic of China, 8% from India and Malaysia, 5% from Pakistan, 4% from the USA and Germany, 3% from Turkey and smaller percentages in other countries; in total, authors from 75 countries published in Section E during 2009. 2010 saw a sharp decrease in the submissions from the People's Republic of China to 38 % of the total. This fall has, however, been adequately compensated by increased submissions particularly from Malaysia to 12% and with smaller increases from a number of other countries. Despite these annual variations, the open-access environment of the journal is now fully established and the future of the journal seems secure.

	2008	2009	2010
Number of papers published	3556	4166	4113
Number of pages	4261	5108	5195
Average number of pages per paper	1.2	1.2	1.3
Average publication time in months	0.8	0.7	0.7
Percentage of inorganic papers	3	2	2
Percentage of metal-organic papers	34	31	30
Percentage of organic papers	63	67	68
Number of papers rejected	391	542	536
Number of papers withdrawn	247	383	404
Impact factor	0.51	0.37	0.41
Number of Co-editors	52	57	59

Significant developments in 2008. In August 2008, the founding Section Editors of the journal, Bill Clegg and David Watson, retired. They were replaced by Bill Harrison from Scotland, Jim Simpson from New Zealand and Matthias Weil from Austria. As the year progressed it became obvious that the move to open access for Section E had not only been successful, but experience of continued growth allayed the fears of many sceptics who felt that the requirement to pay for publication would lead to the journal's demise. The checkCIF software was further developed thanks to the efforts of Ton Spek and Mike Hoyland. In 2008, some new checks on submitted structure factor (.fcf) files were incorporated into the submission process. These additional checks compare values reported in the CIF with the contents of the structure-factor file and other metrical information that can be calculated directly from the reflection data. One of the results of these additional checks was evidence for some manual editing of CIF files to report better R factors or to alter parameters such as minimum and maximum difference peaks that generate alerts requiring additional input from authors. In such

cases the journal's policy is always to challenge the authors directly and, if a suitable explanation is not forthcoming, to reject the article with no right of re-submission. Other difficulties noted in 2008 arose from authors being dropped from or added to papers with no satisfactory explanation. The statement on authorship in the Notes for Authors was modified in an attempt to minimise such occurrences and in more recent times this appears to have been reasonably successful.

Significant developments in 2009. This was a difficult year for the journal, its editors, Co-editors and Editorial staff with the discovery that, in earlier years, it had been subjected to scientific fraud. With tremendous and much valued assistance from Ton Spek, George Ferguson and a number of the editorial staff in the IUCr Chester office more than 100 papers were investigated, over a period in excess of 6 months, and were shown to be fraudulent. The articles were retracted and the retractions were accompanied by an Editorial drawing the attention of readers and the wider scientific community to the existence and nature of the fraudulent activities and exposing the corresponding authors and their institutions. Intense interest was generated by these revelations, both among the scientific community and all forms of the media. The original editorial alerting the scientific community to the problems attracted over 15000 downloads. This publicity did give us the opportunity to stress that it was the continuous improvements to our validation systems that first alerted us to the problems and would in future make such problems much easier to detect. The singular benefits of retaining and providing access to .fcf (structure factor) data files, at that time a unique feature of publications in IUCr journals, was also stressed at every opportunity. These validation procedures, underpinned by checkCIF software, continued to evolve and improve again thanks to Ton Spek and Mike Hoyland. Checks on submitted structure factor (.fcf) files are now routine and a majority of authors are coming to terms with the fact that they need to carefully check their review documents after submission. Occasional problems still occur, particularly with twinned crystals, and work to overcome these is currently in progress in consultation with COMCIFS.

Significant developments in 2010. 2010 has been another extremely busy year for the journal. Fortunately, the frauds that clouded the end of 2009 are now behind us with only 11 further retractions, also of earlier submissions, made recently. Over the past year there have only been a handful of isolated incidents in which submissions have raised concerns for Co-editors. It is pleasing to note that, as we anticipated, the updated validation procedures make early detection of such problems relatively straightforward and also that Co-editors are clearly alert to the possibility of additional frauds. These improvements have been important in ensuring that problems such as element swapping are more readily identified and challenged. We have spent some time this year advocating the inclusion of structure factors amongst material required to be deposited for papers in any journal reporting small molecule structures. This approach has worked very successfully for protein structures, with data being deposited at the PDB. It would be a major advance if this could also happen for all reports of small molecule and inorganic structures. A really positive advance came with the checks on submitted structure factor (.fcf) files, which have been a routine component of the submission process for some time, becoming an option in the checkCIF procedure. This will hopefully minimize the number of 'unexpected' alerts that Co-editors have to deal with.

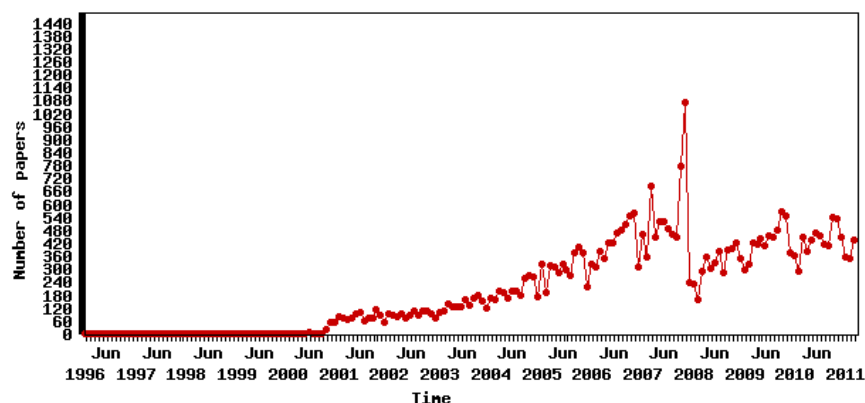
One possible consequence of last year's fraud revelations has been a significant fall in the number of papers from the People's Republic of China from 46.5 % to 37.6 % of the total. These have largely been compensated by growth in other areas with the number of submissions to the journal increasing by a small amount in 2010 (5128 compared to 5113 in 2009). The overall number of published papers fell very slightly in 2010 with 4113 papers published compared to 4166 in 2009.

We cannot over-emphasise the excellent work done by our Co-editors or thank them sufficiently. Without their commitment, generally acting as referees as well as Co-editors for the papers they receive, this journal would not exist. We have been particularly fortunate in the past year to recruit 18 new Co-editors to join the journal's hard working team which now numbers 76, including the three joint Section Editors. We also gratefully acknowledge the work of several Co-editors who have retired over the past three years. Thanks also to a number of founding Co-editors who, having achieved 9 years of tireless service to the journal will also be leaving the team after the Madrid Congress. Jim Simpson will be stepping down as an Editor of Section E at the IUCr Congress in Madrid in August 2011. He will however remain as a Co-editor. We are delighted to announce that the Executive Committee will be nominating Helen Stoeckli-Evans and Edward Tiekink as Section Editors of Acta Cryst. Section E at the General Assembly in Madrid.

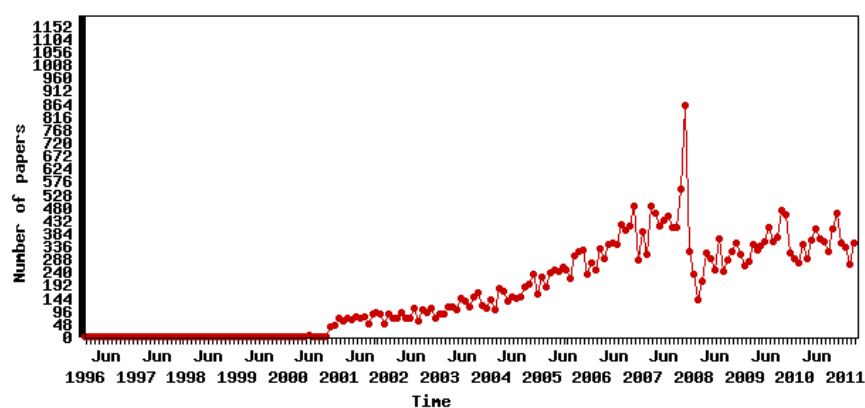
Finally we are especially grateful for the excellent support that we receive from the staff in Chester, in particular Gillian Holmes, Sean Conway and Mike Hoyland for their constant help and support, and to Peter Strickland for his sound advice and continued expert guidance.

W. Harrison, J. Simpson and M. Weil, Editors

Acta Crystallographica Section E – papers submitted (2000-2011)



Acta Crystallographica Section E – papers accepted (2000-2011)



Acta Crystallographica Section E – journals citing

Impact	Citing Journal	Cited Year											
		All Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
	All Journals	8891	1386	1766	1813	1313	959	700	445	286	192	5	26
0.41	ACTA CRYSTALLOGR E	4777	1294	1361	922	458	302	209	129	58	36	1	7
0.83	J COORD CHEM	217	11	12	21	34	64	41	19	12	3	0	0
2.32	INORG CHIM ACTA	216	1	18	34	57	42	30	18	7	7	0	2
2.21	POLYHEDRON	201	0	23	38	53	28	24	16	13	4	0	2
0.78	ACTA CRYSTALLOGR C	201	5	25	34	35	24	24	28	16	10	0	0
1.55	J MOL STRUCT	198	2	23	41	44	32	19	14	12	11	0	0
4.66	INORG CHEM	142	1	15	27	38	22	14	7	8	5	0	5
	ALL OTHERS (131)	131	3	15	26	19	21	16	18	3	5	1	4
4.08	DALTON T	129	2	14	36	25	21	13	6	5	6	0	1
1.23	Z ANORG ALLG CHEM	122	0	6	24	28	32	15	14	1	2	0	0
4.18	CRYSTENGCOMM	111	1	8	22	24	25	10	12	7	2	0	0
0.62	J CHEM CRYSTALLOGR	102	1	11	25	21	17	11	7	4	5	0	0
4.16	CRYST GROWTH DES	95	0	8	15	19	21	12	11	6	3	0	0
1.57	SPECTROCHIM ACTA A	82	0	4	16	23	16	6	7	3	7	0	0
2.94	EUR J INORG CHEM	81	0	5	23	14	10	16	6	5	2	0	0
0.22	Z KRIST-NEW CRYST ST	69	7	20	12	17	4	2	4	0	3	0	0
11.23	COORDIN CHEM REV	57	0	0	11	19	7	14	3	1	1	1	0
2.91	J PHARM SCI-US	53	0	0	47	5	0	0	1	0	0	0	0

2.34	J SOLID STATE CHEM	53	0	1	8	18	10	7	7	1	1	0	0
2.03	INORG CHEM COMMUN	51	1	5	16	4	10	7	3	3	0	0	2

Acta Crystallographica Section E - citation report by issue

2008				2009				2010			
Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count
1	0	530	1	1	0	274	1.2	1	0	291	1.1
2	0	321	1.2	2	0	291	1.1	2	0	324	0.7
3	0	144	1.5	3	0	277	1	3	0	264	0.7
4	0	182	1.4	4	0	332	1.1	4	0	337	0.6
5	0	269	1.1	5	0	311	1	5	0	286	0.6
6	0	295	1.1	6	0	320	0.8	6	0	315	0.6
7	0	265	1.4	7	0	331	0.9	7	0	409	0.4
8	0	353	1.3	8	0	432	0.8	8	0	393	0.4
9	0	272	1.5	9	0	307	0.6	9	0	319	0.3
10	0	264	1.3	10	0	341	0.6	10	0	320	0.3
11	0	297	0.9	11	0	508	0.6	11	0	0	0
12	0	362	0.8	12	0	438	0.5	12	0	0	0

Acta Crystallographica Section E - citation report by category

Category	2008				2009				2010			
	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count
inorganic compounds	69	69	0	0.3	75	75	0	0.2	67	55	12	0.1
organic compounds	2238	2238	0	1.2	2789	2786	3	0.8	2776	2209	567	0.6
metal-organic compounds	1226	1225	1	1.1	1287	1287	0	0.8	1248	980	268	0.4
addenda and errata	23	21	2	0.1	13	13	0	0	20	13	7	0.2
editorial	1	1	0	0	1	1	0	0	1	1	0	8
international union of crystallography	1	0	1	0	1	0	1	0	1	0	1	0

Acta Crystallographica Section E - highly cited papers (2000-2011)

Year	Volume	Part	First page	ISI citations	Authors	Title
2004	60	1	m56	55	Pan, T.T.; Xu, D.J.	Quinolinium trichloro(quinoline-kappa N)cobaltate(II)
2006	62	2	o780	50	Perlovich, G.L.; Tkachev, V.V.; Schaper, K.J.; et al.	N-(2-Chlorophenyl)benzenesulfonamide
2006	62	3	o896	48	Patil, P.S.; Teh, J.B.J.; Fun, H.K.; et al.	3-(4-Methoxyphenyl)-1-(4-nitrophenyl)prop-2-en-1-one
2003	59	2	o151	40	Yamin, B.M.; Yusof, M.S.M.	N-Benzoyl-N'-phenylthiourea

2005	61	5	m761	38	Li, H.; Liu, J.G.; Xu, D.J.	Poly[[bis(1H-benzimidazole-kappa N-3)manganese(II)]-mu-aqua-mu-succinato-kappa O-2:O ']
2008	64	9	o1707	36	Fun, H.-K., Patil, P.S., Rao, J.N., Kalluraya, B., Chantrapomma, S.	4-Chloro-N'-[(Z)-4-nitrobenzylidene]benzohydrazide monohydrate
2006	62	5	o1879	36	Odabasoglu, M.; Buyukgungor, O.	3-(4-Hydroxyanilino)isobenzofuran-1 (3H)-one
2003	59	9	m809	35	Wu, Z.Y.; Xue, Y.H.; Xu, D.J.	Aqua(oxydiacetato-kappa O-3,O 'O'')(1,10-phenanthroline-kappa N-2,N '')cobalt(II) sesquihydrate
2005	61	10	o3242	34	Aghabozorg, H.; Saei, A.A.; Ramezanipour, F.	2,6-Diaminopyridinium pyridinium-2,6-dicarboxylate: a redetermination
2003	59	11	m1025	33	You, Z.L.; Lin, Y.S.; Liu, W.S.; et al.	Bis[2-(cyclopropyliminomethyl)phenolato]zinc(II)
2002	58	6	m304	32	Ranjbar, M.; Aghabozorg, H.; Moghimi, A.	A seven-coordinate pyridine-2,6-dicarboxylate-bridged cadmium(II) complex at 110 K
2001	57	10	o947	31	Davies, J.E.; Bond, A.D.	Quinoline
2006	62	5	o1710	30	Patil, P.S.; Teh, J.B.J.; Fun, H.K.; et al.	1-(4-Bromophenyl)-3-(2,4-dichlorophenyl)-prop-2-en-1-one
2006	65	1	o189	29	Lair, N.M.; Ali, H.M.; Ng, S.W.	(E)-4-Hydroxy-N'-(2-hydroxy-4-methoxybenzylidene)-benzohydrazide monohydrate
2002	58	11	m622	29	Srinivasan, B.R.; Dhuri, S.N.; Nather, C. et al.	Ethylenediammonium tetrathiotungstate(VI)
2008	64	8	o1594	27	Fun, H.-K., Patil, P.S., Jebas, S.R., Sujith, K.V., Kalluraya, B.	4-Chloro-N'-[(Z)-4-(dimethylamino)benzylidene]benzohydrazide monohydrate
2005	61	8	o2739	27	Moggach, S.A.; Clark, S.J.; Parsons, S.	L-cysteine-I at 30 K
2008	64	7	o1186	26	Yang, T., Cao, G.-B., Xiang, J.-M., Zhang, L.-H.	3-Bromo-N'-[(E)-4-hydroxybenzylidene]benzohydrazide
2007	63	6	m1710	25	Aghabozorg, H.; Gharamaleki, J.A.; Ghasemikhah, P.; et al.	Piperazinedium bis(pyridine-2,6-dicarboxylato)nickelate(II) tetrahydrate
2004	60	3	o425	25	Ozturk, S.; Akkurt, M.; Cansiz, A.; et al.	4-(4-Chlorophenyl)-3-(furan-2-yl)-1H-1,2,4-triazole-5(4H)-thione

Acta Crystallographica Section E - highly cited papers (2008)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
9	0	o1707	organic compounds	36	Fun, H.-K., Patil, P.S., Rao, J.N., Kalluraya, B., Chantrapomma, S.	4-Chloro-N'-[(Z)-4-nitrobenzylidene]benzohydrazide monohydrate
8	0	o1594	organic compounds	27	Fun, H.-K., Patil, P.S., Jebas, S.R., Sujith, K.V., Kalluraya, B.	4-Chloro-N'-[(Z)-4-(dimethylamino)benzylidene]benzohydrazide monohydrate
7	0	o1186	organic compounds	26	Yang, T., Cao, G.-B., Xiang, J.-M., Zhang, L.-H.	3-Bromo-N'-[(E)-4-hydroxybenzylidene]benzohydrazide
7	0	o1308	organic compounds	24	Fun, H.-K., Kargar, H., Kia, R.	4,4'-[2,2-Dimethylpropane-1,3-diylbis(nitrilomethylidyne)]dibenzonitrile
2	0	o471	organic compounds	20	Nie, Y.	N'-[4-(Dimethylamino)benzylidene]-3-hydroxybenzohydrazide
10	0	o2045	organic compounds	20	Arshad, M.N., Tahir, M.N., Khan, I.U., Shafiq, M., Siddiqui, W.A.	Methyl 3-hydroxy-4-oxo-3,4-dihydro-2H-1,2-benzothiazine-3-carboxylate 1,1-dioxide monohydrate
7	0	o1278	organic compounds	20	Mitsui, R., Nakaema, K., Noguchi, K., Okamoto, A., Yonezawa, N.	1-(4-Chlorobenzoyl)-2,7-dimethoxynaphthalene

Issue	Part	First page	Paper category	ISI citation	Authors	Title
5	0	m718	metal-organic compounds	19	Ali, H.M., Mohamed Mustafa, M.I., Rizal, M.R., Ng, S.W.	Dichloridobis(2-{1-[2-(1H-indol-3-yl)ethyliminio]ethyl}phenolate-[kappa]O)zinc(II)-2-{1-[2-(1H-indol-3-yl)ethyliminio]ethyl}phenolate (1/2)
6	0	o1128	organic compounds	17	Ejsmont, K., Zareef, M., Arfan, M., Bashir, S.A., Zaleski, J.	N'-(2-Fluorobenzoyl)benzohydrazide
10	0	m1259	metal-organic compounds	17	Yousefi, M., Tadayon Pour, N., Amani, V., Khavasi, H.R.	(4,4'-Dimethyl-2,2'-bipyridine-[kappa]2N,N')diiodidomercury(II)
9	0	m1211	metal-organic compounds	17	Khalighi, A., Ahmadi, R., Amani, V., Khavasi, H.R.	Dichlorido(5,5'-dimethyl-2,2'-bipyridine-[kappa]2N,N')zinc(II)
7	0	o1335	organic compounds	17	Fun, H.-K., Kia, R., Kargar, H.	4,4'-[Propane-1,3-diylbis(nitrilomethylidyne)]dibenzonitrile
10	0	o1882	organic compounds	13	Chanawanno, K., Chantrapromma, S., Fun, H.-K.	2-[(E)-2-(4-Chlorophenyl)ethenyl]-1-methylpyridinium iodide monohydrate This paper is dedicated to Her Royal Highness the late Princess Galyani Vadhana Krom Luang Naradhiwas Rajanagarindra for her patronage of science in Thailand.
10	0	m1305	metal-organic compounds	13	Tadayon Pour, N., Ebadi, A., Abedi, A., Amani, V., Khavasi, H.R.	(5,5'-Dimethyl-2,2'-bipyridine-[kappa]2N,N')diiodidomercury(II)
7	0	m928	metal-organic compounds	13	Gao, Q., Gao, W.-H., Zhang, C.-Y., Xie, Y.-B.	Pentaaqua(1H-benzimidazole-5,6-dicarboxylato-[kappa]N3)copper(II) pentahydrate
10	0	m1266	metal-organic compounds	13	Ahmadi, R., Kalateh, K., Ebadi, A., Amani, V., Khavasi, H.R.	Dichlorido(6-methyl-2,2'-bipyridine-[kappa]2N,N')zinc(II)

Acta Crystallographica Section E - highly cited papers (2009)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
1	0	o189	organic compounds	29	Mohd Lair, N., Mohd Ali, H., Ng, S.W.	(E)-4-Hydroxy-N'-(2-hydroxy-4-methoxybenzylidene)benzohydrazide monohydrate
1	0	o85	organic compounds	17	Zhu, C.-G., Wei, Y.-J., Zhu, Q.-Y.	3-Bromo-N'-(3,5-dichloro-2-hydroxybenzylidene)benzohydrazide
4	0	m466	metal-organic compounds	14	Hokelek, T., Dal, H., Tercan, B., Ozbek, F.E., Necedoglu, H.	Diaquabis(2-chlorobenzoato-[kappa]O)bis(nicotinamide-[kappa]N1)nickel(II)
1	0	o190	organic compounds	13	Mohd Lair, N., Mohd Ali, H., Ng, S.W.	(E)-4-Hydroxy-N'-(2-hydroxy-4-methoxybenzylidene)benzohydrazide N,N-dimethylformamide solvate
3	0	o576	organic compounds	13	Gowda, B.T., Foro, S., Nirmala, P.G., Babitha, K.S., Fuess, H.	2,4-Dimethyl-N-phenylbenzenesulfonamide
4	0	m403	metal-organic compounds	12	Kargar, H., Jamshidvand, A., Fun, H.-K., Kia, R.	{6,6'-Diethoxy-2,2'-[2,2-dimethylpropane-1,3-diylbis(nitrilomethylidyne)]diphenolato}nickel(II) monohydrate
2	0	o366	organic compounds	12	Gowda, B.T., Foro, S., Babitha, K.S., Fuess, H.	N-(2,3-Dimethylphenyl)benzenesulfonamide
1	0	m22	metal-organic compounds	11	Wang, Z., Liu, C., Zhang, X., Gong, X.	Bis[[mu]-3-ethyl-4-phenyl-5-(2-pyridyl)-4H-1,2,4-triazole]bis[dichloridocopper(II)]
12	0	o3249	organic compounds	11	Shahani, T., Fun, H.-K., Ragavan, R.V., Vijayakumar, V., Sarveswari, S.	5-Methoxymethyl-4-phenoxy-1H-pyrazol-3-ol
7	0	o1466	organic compounds	11	Li, C.-M., Ban, H.-Y.	(E)-4-Hydroxy-N'-(4-nitrobenzylidene)benzohydrazide

Issue	Part	First page	Paper category	ISI citation	Authors	Title
5	0	o1144	organic compounds	10	Chantrapromma, S., Chanawanno, K., Fun, H.-K.	(E)-1-Methyl-4-[2-(1-naphthyl)vinyl]pyridinium 4-bromobenzenesulfonate This paper is dedicated to the late Her Royal Highness Princess Galyani Vadhana Krom Luang Naradhiwas Rajanagarindra for her patronage of Science in Thailand.
2	0	o399	organic compounds	10	Gowda, B.T., Foro, S., Saraswathi, B.S., Terao, H., Fuess, H.	N-(2-Chlorophenyl)succinamic acid
6	0	m633	metal-organic compounds	10	Bi, J.-H.	trans-Diaquabis[(E)-3-(dimethylamino)-1-(2-pyridyl)prop-2-en-1-one-[kappa]2N1,O]cobalt(II) dinitrate dihydrate
3	0	o543	organic compounds	10	Mitsui, R., Noguchi, K., Yonezawa, N.	(4-Chlorobenzoyl)(2-ethoxy-7-methoxynaphthalen-1-yl)methanone
6	0	o1219	organic compounds	10	Gowda, B.T., Foro, S., Nirmala, P.G., Terao, H., Fuess, H.	4-Methyl-N-phenylbenzenesulfonamide
4	0	o876	organic compounds	10	Li, C.-M., Ban, H.-Y.	(E)-N'-[1-(2-Hydroxyphenyl)ethylidene]-3-methoxybenzohydrazide

Acta Crystallographica Section E - highly cited papers (2010)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
1	0	o142	organic compounds	14	Shahani, T., Fun, H.-K., Ragavan, R.V., Vijayakumar, V., Sarveswari, S.	Tert-butyl 3-oxo-2,3,4,5,6,7-hexahydro-1H-pyrazolo[4,3-c]pyridine-5-carboxylate
1	0	o44	organic compounds	13	Choi, H.D., Seo, P.J., Son, B.W., Lee, U.	2-(4-Fluorophenyl)-5-iodo-3-methylsulfinyl-1-benzofuran
1	0	m9	metal-organic compounds	13	Liu, J.-L., Li, H.-Q., Zhao, G.-L.	Tetrakis([mu]2-3,4-dimethoxyphenylacetato)-[kappa]3O,O':O';[kappa]3O:O:O';[kappa]2O:O';[kappa]2O:O'-bis[(3,4-dimethoxyphenylacetato)-[kappa]2O,O')(1,10-phenanthroline-[kappa]2N,N)thulium(III)]
2	0	o329	organic compounds	11	Watanabe, S., Nagasawa, A., Okamoto, A., Noguchi, K., Yonezawa, N.	(2,7-Dimethoxynaphthalene-1,8-diyl)bis(4-fluorobenzoyl)dimethanone
1	0	o31	organic compounds	11	Fun, H.-K., Quah, C.K., Isloor, A.M., Sunil, D., Shetty, P.	2-(2-Chlorophenoxy)acetohydrazide
6	0	o1288	organic compounds	10	Sharif, S., Iqbal, H., Khan, I.U., John, P., Tiekink, E.R.T.	2-(4-Acetamidobenzenesulfonamido)-3-methylbutanoic acid
1	0	m30	metal-organic compounds	10	Shawkataly, O. bin, Khan, I.A., Yeap, C.S., Fun, H.-K.	Bis{[[mu]-bis(diphenylphosphino)methane-1:2[kappa]2P:P'}nonacarbonyl-1[kappa]3C,2[kappa]3C,3[kappa]3C-[tris(4-methoxyphenyl)arsine-3[kappa]As]-triangulo-triruthenium(0)} dichloromethane solvate
5	0	o1172	organic compounds	10	Singh, V.P., Singh, S.	N'-[1-(2-Aminophenyl)ethylidene]benzohydrazide
7	0	o1561	organic compounds	10	Tariq, M.I., Ahmad, S., Tahir, M.N., Sarfaraz, M., Hussain, I.	2,3-Dimethyl-N-[(E)-4-nitrobenzylidene]aniline
1	0	o14	organic compounds	10	Gowda, B.T., Foro, S., Nirmala, P.G., Fuess, H.	4-Chloro-2-methyl-N-(3-methylphenyl)benzenesulfonamide
4	0	o976	organic compounds	10	Ahmad, T., Zia-ur-Rehman, M., Siddiqui, H.L., Mahmud, S., Parvez, M.	4-Nitro-N'-[(E)-3-pyridylmethylidene]benzohydrazide
1	0	o190	organic compounds	9	Gowda, B.T., Foro, S., Nirmala, P.G., Fuess, H.	2,4-Dichloro-N-(4-methylphenyl)benzenesulfonamide
7	0	o1562	organic compounds	9	Tahir, M.N., Tariq, M.I., Ahmad, S., Sarfaraz, M., Ather, A.Q.	N-[(E)-4-Chlorobenzylidene]-2,3-dimethylaniline
2	0	o327	organic compounds	9	Suchetan, P.A., Gowda, B.T., Foro, S., Fuess, H.	N-(4-Chlorobenzoyl)-4-methylbenzenesulfonamide

Acta Crystallographica Section E - top 10 articles downloaded in 2010

HTML downloads in 2010 = 644174 PDF downloads in 2010 = 722710 Total downloads in 2010 = 1366884

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
66	1	e1	editorial	15427	Harrison, W.T.A., Simpson, J. and Weil, M.	Editorial
66	1	e3	international union of crystallography	3345		Notes for authors 2010
66	4	e21	addenda and errata	1793		Retraction of articles
62	2	o785	organic compounds	1145	Bream, R., Watkin, D. and Cowley, A.	trans-1,2-Dimethylcyclohexane
66	1	e11	addenda and errata	984	Zhong, H., Duan, S.-H., Hong, Y.-P., Li, M.-L., Liu, Y.-Q., Luo, C.-J., Luo, Q.-Y., Xiao, S.-Z., Xie, H.-L., Xu, Y.-P., Yang, X.-M., Zeng, X.-R. and Zhong, Q.Y.	Retraction of articles by H. Zhong et al.
66	1	e13	addenda and errata	901	Liu, T., Wang, Y.-X., Wang, Z.-W., Xie, Z.-P. and Zhu, J.Y.	Retraction of articles by T. Liu et al.
62	2	o414	organic compounds	560	Bream, R. and Watkin, D.	trans-1,4-Dimethylcyclohexane
65	10	o2402	organic compounds	511	Rao, X.-P., Song, Z.-Q. and Shang, S.-B.	Dehydroabiatic acid
65	1	o116	organic compounds	412	Duan, G.-Y., Xia, C.-C. and Xiao, Y.-L.	2-(2-Methyl-5-nitro-1H-imidazol-1-yl)ethyl N-methylcarbamate
64	1	e1	international union of crystallography	403		Notes for authors 2008

INFORMATION ON SECTION F

Numbers at a glance Acta Crystallographica Section F

Institutional subscriptions	Licensed sales	Multiyear Licenses	Full-text downloads 2010	Impact factor 2010	Ranking 2010
142	>3800	142	100273	0.56	22 of 25

Journal profile

Acta Crystallographica Section F: Structural Biology and Crystallization Communications is a rapid all-electronic journal, which provides a home for short communications on the crystallization and structure of biological macromolecules. Structures determined through structural genomics initiatives or from iterative studies such as those used in the pharmaceutical industry are particularly welcomed. Acta Cryst. F is essential for all those interested in structural biology including molecular biologists, biochemists, crystallization specialists, structural biologists, biophysicists, pharmacologists and other life scientists.

Triennial report

Acta Crystallographica Section F

Section F was launched as the IUCr's first online-only biological journal in 2005. In its second triennium, the journal solidified its position as the home for the rapid publication of structure and crystallization communications on biological macromolecules. In 2008-2010 the journal published 990 papers and 4190 pages. The average time from submission to publication, including peer review, rose from an average of 2.3 months in the previous triennium to 3.5 months in 2010, a rise that we suspect reflects an increase in the length of papers (from 3.8 to 4.5 pages) and closer editorial scrutiny sparked by the discovery in 2009 that fabricated structures had been published in a number of important journals.

The initiative to develop a streamlined route from database deposition to publication was completed in 2008. Further evolution, however, has produced dramatic new capabilities, principally a tool for authors for drafting either crystallization or structure communications, including tables, figures, and text.

Two important new initiatives were launched in the triennium. The first is the creation of a referee panel, a group of about 30 experienced scientists who have agreed to referee 12 papers a year, to reply to requests promptly and to return reports within two weeks. The panel is now in its second year of operation and has reduced referee recruitment delays and provided expert reports, thereby helping to improve scientific quality while at the same time helping to hold down publication times. It has also provided a pool of potential recruits for new Co-editors and two panel members were appointed as Co-editors in 2010.

The second initiative is to provide a dedicated platform for publication of papers from individual structural genomics consortia. The first instance was a special section in the December 2009 issue for eight papers from the RIKEN-UK collaboration. The second was the entire October 2010 issue, which contained some 30 articles from JCSG, the Scripps-based consortium led by Ian Wilson. A second special issue is now in preparation to highlight the product of the Seattle-based SSGCID, which focuses on the structural genomics of infectious diseases. Each of the special issues was made entirely open access at the request of the consortia.

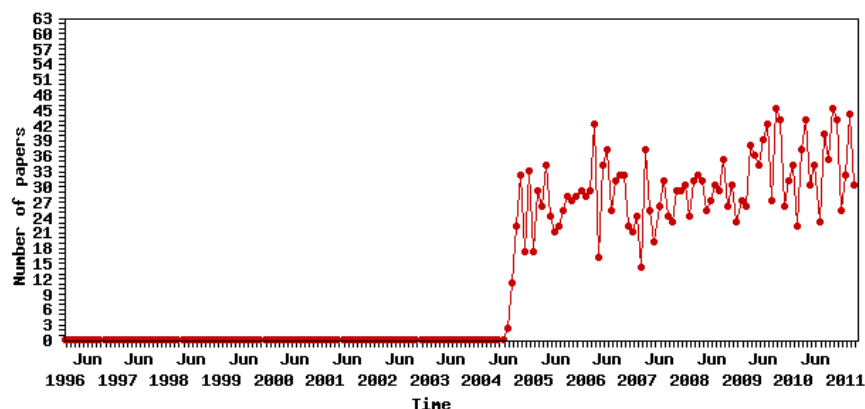
The journal remains a high-quality publication and has been included in Medline and other abstracting and indexing services. Its first impact factor, for 2007 announced in 2008, was 0.645 and, for 2008 and 2009, impact factors were 0.606 and 0.551, respectively.

Howard Einspahr and Manfred Weiss, Editors

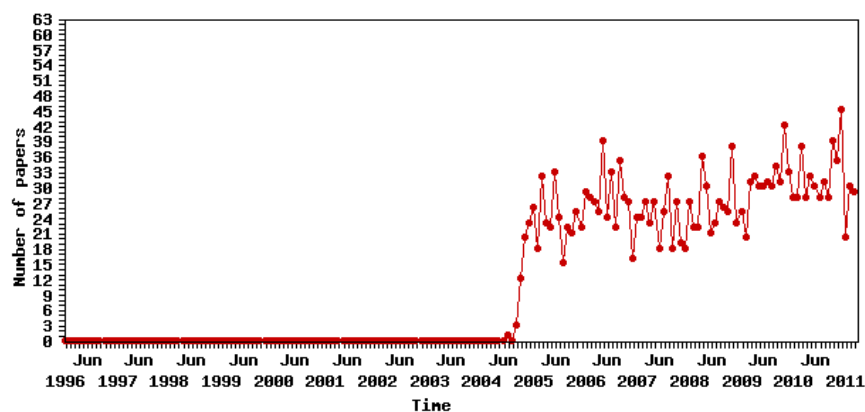
Recent and forthcoming special issues

- Joint Center for Structural Genomics Special Issue (October 2010)
- SSGCID (Seattle Structural Genomics Center for Infectious Disease) special issue (Summer 2011)

Acta Crystallographica Section F - papers submitted (2004-2011)



Acta Crystallographica Section F - papers accepted (2004-2011)



Acta Crystallographica Section F - citing journals

Impact	Citing Journal	Cited Year											
		All Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
	All Journals	647	52	162	153	149	129	1	0	0	1	0	0
	ALL OTHERS (153)	153	4	17	50	45	35	1	0	0	1	0	0
0.55	ACTA CRYSTALLOGR F	53	9	22	11	9	2	0	0	0	0	0	0
3.87	J MOL BIOL	39	7	15	6	6	5	0	0	0	0	0	0
5.33	J BIOL CHEM	32	2	13	6	6	5	0	0	0	0	0	0
3.09	PROTEINS	19	1	5	5	4	4	0	0	0	0	0	0
2.26	ACTA CRYSTALLOGR D	18	3	3	4	2	6	0	0	0	0	0	0
9.43	P NATL ACAD SCI USA	17	4	3	3	4	3	0	0	0	0	0	0
2.48	BBA-PROTEINS PROTEOM	16	2	6	3	3	2	0	0	0	0	0	0
3.23	BIOCHEMISTRY-US	15	0	5	1	6	3	0	0	0	0	0	0
3.04	FEBS J	13	0	5	3	2	3	0	0	0	0	0	0
3.94	J BACTERIOL	12	1	2	3	2	4	0	0	0	0	0	0
1.33	BIOSCI BIOTECH BIOCH	11	2	2	2	3	2	0	0	0	0	0	0
4.35	PLOS ONE	9	1	2	1	1	4	0	0	0	0	0	0
2.55	BIOCHEM BIOPH RES CO	8	3	1	1	2	1	0	0	0	0	0	0
8.58	J AM CHEM SOC	8	0	3	3	0	2	0	0	0	0	0	0
5.15	J VIROL	7	0	1	1	4	1	0	0	0	0	0	0
1.27	COMPUT BIOL MED	6	0	0	1	3	2	0	0	0	0	0	0
2.4	J MOL CATAL B-ENZYM	6	1	2	0	1	2	0	0	0	0	0	0

Impact	Citing Journal	Cited Year											
		All Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
3.54	FEBS LETT	6	3	1	0	2	0	0	0	0	0	0	0
1.76	PROTEIN PEPTIDE LETT	6	0	1	3	2	0	0	0	0	0	0	0

Acta Crystallographica Section F - citation report by issue

2008				2009				2010			
Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count
1	0	530	1	1	0	274	1.2	1	0	291	1.1
2	0	321	1.2	2	0	291	1.1	2	0	324	0.7
3	0	144	1.5	3	0	277	1	3	0	264	0.7
4	0	182	1.4	4	0	332	1.1	4	0	337	0.6
5	0	269	1.1	5	0	311	1	5	0	286	0.6
6	0	295	1.1	6	0	320	0.8	6	0	315	0.6
7	0	265	1.4	7	0	331	0.9	7	0	409	0.4
8	0	353	1.3	8	0	432	0.8	8	0	393	0.4
9	0	272	1.5	9	0	307	0.6	9	0	319	0.3
10	0	264	1.3	10	0	341	0.6	10 ^b	0	320	0.3
11	0	297	0.9	11	0	508	0.6	11	0	0	0
12	0	362	0.8	12 ^a	0	438	0.5	12	0	0	0

(a) RIKEN-UKarticles; (b) Joint Center for Structural Genomics Special Issue

Acta Crystallographica Section F - citation report by category

Category	2008				2009				2010			
	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count
crystallization communications	246	246	0	1.5	271	271	0	0.9	260	260	0	0.3
structural communications	0	0	0	0	50	50	0	0.7	102	101	1	0.8
laboratory communications	0	0	0	0	1	1	0	2	6	6	0	1.7
addenda and errata	3	3	0	0.3	1	1	0	0	4	4	0	0
editorial	5	5	0	0.6	2	2	0	0	4	4	0	0
international union of crystallography	1	0	1	0	1	0	1	0	1	0	1	0
books received	1	0	1	0	0	0	0	0	0	0	0	0

Acta Crystallographica Section F - highly cited papers (2005-2011)

Year	Volume	Part	First page	ISI citations	Authors	Title
2010	66	10	1143	26	Krishna, S.S.; Weekes, D.; Bakolitsa, C.; et al.	TOPSAN: use of a collaborative environment for annotating, analyzing and disseminating data on JCSG and PSI structures
2005	61	1	14	25	Holton, S.J.; Dairou, J.; Sandy, J.; et al.	Structure of Mesorhizobium loti arylamine N-acetyltransferase 1

2006	62	10	944	18	Williams, G.J.; Johnson, K.; Rudolf, J.; et al.	Structure of the heterotrimeric PCNA from <i>Sulfolobus solfataricus</i>
2005	61	3	258	18	Anderson, A.C.	Two crystal structures of dihydrofolate reductase-thymidylate synthase from <i>Cryptosporidium hominis</i> reveal protein-ligand interactions including a structural basis for observed antifolate resistance
2007	63	9	751	16	Wada, J.; Suzuki, R.; Fushinobu, S.; et al.	Purification, crystallization and preliminary X-ray analysis of the galacto-N-biose-/lacto-N-biose I-binding protein (GL-BP) of the ABC transporter from <i>Bifidobacterium longum</i> JCM1217
2006	62	10	962	16	Faehnle, C.R.; Liu, X.Y.; Pavlovsky, A.; et al.	The initial step in the archaeal aspartate biosynthetic pathway catalyzed by a monofunctional aspartokinase
2007	63	1	42	15	Blum, M.M.; Koglin, A.; Ruterjans, H.; et al.	Preliminary time-of-flight neutron diffraction study on diisopropyl fluorophosphatase (DFPase) from <i>Loligo vulgaris</i>
2006	62	11	1116	15	Kefala, G.; Weiss, M.S.	Cloning, expression, purification, crystallization and preliminary X-ray diffraction analysis of DapA (Rv2753c) from <i>Mycobacterium tuberculosis</i>
2006	62	3	175	15	Arakaki, T.; Le Trong, I.; Phizicky, E.; et al.	Structure of Lmaj006129AAA, a hypothetical protein from <i>Leishmania major</i>
2005	61	6	541	15	Wood, C.M.; Nicholson, J.M.; Lambert, S.J.; et al.	High-resolution structure of the native histone octamer
2007	63	6	466	14	Yajima, S.; Hara, K.; Iino, D.; et al.	Structure of 1-deoxy-D-xylulose 5-phosphate reductoisomerase in a quaternary complex with a magnesium ion, NADPH and the antimalarial drug fosmidomycin
2006	62	3	306	14	Budayova-Spano, M.; Bonnete, F.; Ferte, N.; et al.	A preliminary neutron diffraction study of rasburicase, a recombinant urate oxidase enzyme, complexed with 8-azaxanthin
2006	62	1	6	14	Budayova-Spano, M.; Fisher, S.Z.; Dauvergne, M.T.; et al.	Production and X-ray crystallographic analysis of fully deuterated human carbonic anhydrase II
2007	63	9	723	13	Ngamelue, M.N.; Homma, K.; Lockridge, O.; et al.	Crystallization and X-ray structure of full-length recombinant human butyrylcholinesterase
2007	63	1	1	13	Dias, M.V.B.; Faim, L.M.; Vasconcelos, IB; et al.	Effects of the magnesium and chloride ions and shikimate on the structure of shikimate kinase from <i>Mycobacterium tuberculosis</i>
2006	62	4	376	13	Tsukazaki, T.; Mori, H.; Fukai, S.; et al.	Purification, crystallization and preliminary X-ray diffraction of SecDF, a translocon-associated membrane protein, from <i>Thermus thermophilus</i>
2005	61	10	935	13	Pokorny, R.; Klar, T.; Essen, L.O.; et al.	Crystallization and preliminary X-ray analysis of cryptochrome 3 from <i>Arabidopsis thaliana</i>
2007	63	3	150	12	Barinka, C.; Starkova, J.; Konvalinka, J.; et al.	A high-resolution structure of ligand-free human glutamate carboxypeptidase II
2006	62	4	368	12	Numata, T.; Ikeuchi, Y.; Fukai, S.; et al.	Crystallization and preliminary X-ray analysis of the tRNA thiolation enzyme MnmA from <i>Escherichia coli</i> complexed with tRNA(Glu)
2006	62	4	415	12	Albrecht, R.; Zeth, K.; Soding, J.; et al.	Expression, crystallization and preliminary X-ray crystallographic studies of the outer membrane protein OmpW from <i>Escherichia coli</i>

Acta Crystallographica Section F - highly cited papers (2008)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
4	0	270	crystallization communications	9	Kovalevsky, A.Y., Chatake, T., Shibayama, N., Park, S.-Y., Ishikawa, T., Mustyakimov, M., Fisher, S.Z., Langan, P., Morimoto, Y.	Preliminary time-of-flight neutron diffraction study of human deoxyhemoglobin
6	0	537	crystallization communications	8	Weiss, K.L., Meilleur, F., Blakeley, M.P., Myles, D.A.A.	Preliminary neutron crystallographic analysis of selectively CH ₃ -protonated deuterated rubredoxin from <i>Pyrococcus furiosus</i>

Issue	Part	First page	Paper category	ISI citation	Authors	Title
1	0	14	crystallization communications	8	Walter, T.S., Mancini, E.J., Kadlec, J., Graham, S.C., Assenberg, R., Ren, J., Sainsbury, S., Owens, R.J., Stuart, D.I., Grimes, J.M., Harlos, K.	Semi-automated microseeding of nanolitre crystallization experiments
11	0	1003	crystallization communications	7	Matsumura, H., Adachi, M., Sugiyama, S., Okada, S., Yamakami, M., Tamada, T., Hidaka, K., Hayashi, Y., Kimura, T., Kiso, Y., Kitatani, T., Maki, S., Yoshikawa, H.Y., Adachi, H., Takano, K., Murakami, S., Inoue, T., Kuroki, R., Mori, Y.	Crystallization and preliminary neutron diffraction studies of HIV-1 protease cocrystallized with inhibitor KNI-272
5	0	391	crystallization communications	7	Piao, S., Xu, Y., Ha, N.-C.	Crystallization and preliminary X-ray crystallographic analysis of MacA from <i>Actinobacillus actinomycetemcomitans</i>
6	0	487	structural genomics communications	7	Iino, H., Naitow, H., Nakamura, Y., Nakagawa, N., Agari, Y., Kanagawa, M., Ebihara, A., Shinkai, A., Sugahara, M., Miyano, M., Kamiya, N., Yokoyama, S., Hirotsu, K., Kuramitsu, S.	Crystallization screening test for the whole-cell project on <i>Thermus thermophilus</i> HB8
10	0	893	protein structure communications	7	Lu, S., Smith, C.D., Yang, Z., Pruett, P.S., Nagy, L., McCombs, D., DeLucas, L.J., Brouillette, W.J., Brouillette, C.G.	Structure of nicotinic acid mononucleotide adenyltransferase from <i>Bacillus anthracis</i>
7	0	659	crystallization communications	7	Burgess, B.R., Dobson, R.C.J., Dogovski, C., Jameson, G.B., Parker, M.W., Perugini, M.A.	Purification, crystallization and preliminary X-ray diffraction studies to near-atomic resolution of dihydrodipicolinate synthase from methicillin-resistant <i>Staphylococcus aureus</i>
11	0	991	crystallization communications	7	Newman, J., Pham, T.M., Peat, T.S.	Phoenix experiments: combining the strengths of commercial crystallization automation
5	0	378	crystallization communications	7	Teixeira, S.C.M., Blakeley, M.P., Leal, R.M.F., Mitchell, E.P., Forsyth, V.T.	A preliminary neutron crystallographic study of thaumatin
3	0	221	crystallization communications	7	Higgins, M.K.	Overproduction, purification and crystallization of a chondroitin sulfate A-binding DBL domain from a <i>Plasmodium falciparum</i> var2csa-encoded PfEMP1 protein
4	0	258	crystallization communications	6	Assenberg, R., Delmas, O., Graham, S.C., Verma, A., Berrow, N., Stuart, D.I., Owens, R.J., Bourhy, H., Grimes, J.M.	Expression, purification and crystallization of a lyssavirus matrix (M) protein
10	0	880	protein structure communications	6	Veesler, D., Blangy, S., Cambillau, C., Sciara, G.	There is a baby in the bath water: AcrB contamination is a major problem in membrane-protein crystallization
9	0	772	protein structure communications	6	Xu, G., Li, X., Andrew, P.W., Taylor, G.L.	Structure of the catalytic domain of <i>Streptococcus pneumoniae</i> sialidase NanA
12	0	1092	protein structure communications	6	Devenish, S.R.A., Gerrard, J.A., Jameson, G.B., Dobson, R.C.J.	The high-resolution structure of dihydrodipicolinate synthase from <i>Escherichia coli</i> bound to its first substrate, pyruvate

Acta Crystallographica Section F - highly cited papers (2009)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
4	0	406	crystallization communications	6	Petit-Haertlein, I., Blakeley, M.P., Howard, E., Hazemann, I., Mitschler, A., Haertlein, M., Podjarny, A.	Perdeuteration, purification, crystallization and preliminary neutron diffraction of an ocean pout type III antifreeze protein
2	0	188	crystallization communications	6	Voss, J.E., Scally, S.W., Taylor, N.L., Dogovski, C., Alderton, M.R., Hutton, C.A., Gerrard, J.A., Parker, M.W., Dobson, R.C.J., Perugini, M.A.	Expression, purification, crystallization and preliminary X-ray diffraction analysis of dihydrodipicolinate synthase from <i>Bacillus anthracis</i> in the presence of pyruvate
1	0	55	crystallization communications	5	Neiers, F., Madhurantakam, C., Falker, S., Normark, S., Henriques-Normark, B., Achour, A.	Cloning, expression, purification, crystallization and preliminary X-ray analysis of the pilus-associated sortase C from <i>Streptococcus pneumoniae</i>
3	0	232	crystallization communications	5	Leal, R.M.F., Teixeira, S.C.M., Blakeley, M.P., Mitchell, E.P., Forsyth, V.T.	A preliminary neutron crystallographic study of an A-DNA crystal
2	0	84	protein structure communications	5	Pedersen, H.L., Willassen, N.P., Leiros, I.	The first structure of a cold-adapted superoxide dismutase (SOD): biochemical and structural characterization of iron SOD from <i>Aliivibrio salmonicida</i>
5	0	495	crystallization communications	5	Fisher, S.Z., Kovalevsky, A.Y., Domsic, J.F., Mustyakimov, M., Silverman, D.N., McKenna, R., Langan, P.	Preliminary joint neutron and X-ray crystallographic study of human carbonic anhydrase II
2	0	163	crystallization communications	5	Leung, D.W., Ginder, N.D., Nix, J.C., Basler, C.F., Honzatko, R.B., Amarasinghe, G.K.	Expression, purification, crystallization and preliminary X-ray studies of the Ebola VP35 interferon inhibitory domain
12	0	1258	structural communications	4	Kolenko, P., Skalova, T., Vanek, O., Stepankova, A., Duskova, J., Hasek, J., Bezouska, K., Dohnalek, J.	The high-resolution structure of the extracellular domain of human CD69 using a novel polymer
9	0	878	crystallization communications	4	Ogata, H., Stolle, P., Stehr, M., Auling, G., Lubitz, W.	Crystallization and preliminary X-ray analysis of the small subunit (R2F) of native ribonucleotide reductase from <i>Corynebacterium ammoniagenes</i>
6	0	632	crystallization communications	4	Fujimoto, Z., Ichinose, H., Harazono, K., Honda, M., Uzura, A., Kaneko, S.	Crystallization and preliminary crystallographic analysis of [beta]-l-arabinopyranosidase from <i>Streptomyces avermitilis</i> NBRC14893
5	0	463	crystallization communications	4	Whitney, J.C.C., Neculai, A.M., Ohman, D.E., Howell, P.L.	Expression, refolding, crystallization and preliminary X-ray analysis of <i>Pseudomonas aeruginosa</i> AlgE
7	0	715	crystallization communications	4	Mitchell, M., Nam, H.-J., Carter, A., McCall, A., Rence, C., Bennett, A., Gurda, B., McKenna, R., Porter, M., Sakai, Y., Byrne, B.J., Muzyczka, N., Aslanidi, G., Zolotukhin, S., Agbandje-McKenna, M.	Production, purification and preliminary X-ray crystallographic studies of adeno-associated virus serotype 9
3	0	253	crystallization communications	4	Atkinson, S.C., Dobson, R.C.J., Newman, J.M., Gorman, M.A., Dogovski, C., Parker, M.W., Perugini, M.A.	Crystallization and preliminary X-ray analysis of dihydrodipicolinate synthase from <i>Clostridium botulinum</i> in the presence of its substrate pyruvate

Acta Crystallographica Section F - highly cited papers (2010)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
10	0	1143	structural communications	26	Krishna, S.S., Weekes, D., Bakolitsa, C., Elsliger, M.-A., Wilson, I.A., Godzik, A., Wooley, J.	TOPSAN: use of a collaborative environment for annotating, analyzing and disseminating data on JCSG and PSI structures
10	0	1245	structural communications	4	Kumar, A., Lomize, A., Jin, K.K., Carlton, D., Miller, M.D., Jaroszewski, L., Abdubek, P., Astakhova, T., Axelrod, H.L., Chiu, H.-J., Clayton, T., Das, D., Deller, M.C., Duan, L., Feuerhelm, J., Grant, J.C., Grzechnik, A., Han, G.W., Klock, H.E., Knuth, M.W., Kozbial, P., Krishna, S.S., Marciano, D., McMullan, D., Morse, A.T., Nigoghossian, E., Okach, L., Reyes, R., Rife, C.L., Sefcovic, N., Tien, H.J., Trame, C.B., van den Bedem, H., Weekes, D., Xu, Q., Hodgson, K.O., Wooley, J., Elsliger, M.-A., Deacon, A.M., Godzik, A., Lesley, S.A., Wilson, I.A.	Open and closed conformations of two SpoIIAA-like proteins (YP_749275.1 and YP_001095227.1) provide insights into membrane association and ligand binding
10	0	1198	structural communications	4	Bakolitsa, C., Bateman, A., Jin, K.K., McMullan, D., Krishna, S.S., Miller, M.D., Abdubek, P., Acosta, C., Astakhova, T., Axelrod, H.L., Burra, P., Carlton, D., Chiu, H.-J., Clayton, T., Das, D., Deller, M.C., Duan, L., Elias, Y., Feuerhelm, J., Grant, J.C., Grzechnik, A., Grzechnik, S.K., Han, G.W., Jaroszewski, L., Klock, H.E., Knuth, M.W., Kozbial, P., Kumar, A., Marciano, D., Morse, A.T., Murphy, K.D., Nigoghossian, E., Okach, L., Oommachen, S., Paulsen, J., Reyes, R., Rife, C.L., Sefcovic, N., Tien, H., Trame, C.B., Trout, C.V., van den Bedem, H., Weekes, D., White, A., Xu, Q., Hodgson, K.O., Wooley, J., Elsliger, M.-A., Deacon, A.M., Godzik, A., Lesley, S., Wilson, I.A.	The structure of Jann_2411 (DUF1470) from Jannaschia sp. at 1.45 Å resolution reveals a new fold (the ABATE domain) and suggests its possible role as a transcription regulator
10	0	1309	structural communications	3	Kumar, A., Chiu, H.-J., Axelrod, H.L., Morse, A., Elsliger, M.-A., Wilson, I.A., Deacon, A.	Ligands in PSI structures
4	0	379	structural communications	3	Blum, M.-M., Tomanicek, S.J., John, H., Hanson, B.L., Ruterjans, H., Schoenborn, B.P., Langan, P., Chen, J.C.-H.	X-ray structure of perdeuterated diisopropyl fluorophosphatase (DFPase): perdeuteration of proteins for neutron diffraction
6	0	744	laboratory communications	3	Ito, L., Shiraki, K., Yamaguchi, H.	Comparative analysis of amino acids and amino-acid derivatives in protein crystallization
3	0	275	crystallization communications	3	Kido, Y., Shiba, T., Inaoka, D.K., Sakamoto, K., Nara, T., Aoki, T., Honma, T., Tanaka, A., Inoue, M., Matsuoka, S., Moore, A., Harada, S., Kita, K.	Crystallization and preliminary crystallographic analysis of cyanide-insensitive alternative oxidase from Trypanosoma brucei brucei
3	0	346	crystallization communications	3	Van Hoorebeke, A., Stout, J., Kyndt, J., De Groeve, M., Dix, I., Desmet, T., Soetaert, W., Van Beeumen, J., Savvides, S.N.	Crystallization and X-ray diffraction studies of cellobiose phosphorylase from Cellulomonas uda

Acta Crystallographica Section F - top 10 articles downloaded in 2010

HTML downloads in 2010 = 48640 PDF downloads in 2010 = 51633 Total downloads in 2010 = 100273

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
66	1	107	international union of crystallography	1469		Notes for authors 2010
66	2	112	editorial	645	Baker, E.N., Dauter, Z., Einspahr, H. and Weiss, M.S.	In defence of our science - validation now!
66	3	364	laboratory communications	446	Gill, H.S.	Evaluating the efficacy of tryptophan fluorescence and absorbance as a selection tool for identifying protein crystals
66	4	478	laboratory communications	354	Dierks, K., Meyer, A., Oberthur, D., Rapp, G., Einspahr, H. and Betzel, C.	Efficient UV detection of protein crystals enabled by fluorescence excitation at wavelengths longer than 300 nm
66	1	1	editorial	326	Einspahr, H. and Weiss, M.S.	Crystals on the cover and validation reports
61	1	17	protein structure communications	322	Mikeska, R., Wacker, R., Arni, R., Singh, T.P., Mikhailov, A., Gabdoulkhakov, A., Voelter, W. and Betzel, C.	Mistletoe lectin I in complex with galactose and lactose reveals distinct sugar-binding properties
61	1	33	crystallization communications	294	Tanaka, S., Moriizumi, Y., Kimura, M. and Kakuta, Y.	Overproduction, purification and preliminary X-ray diffraction analysis of a sulfotransferase from Mycobacterium tuberculosis H37Rv
61	1	96	crystallization communications	280	Qian, K.C., Studts, J., Wang, L., Barringer, K., Kronkaitis, A., Peng, C., Baptiste, A., LaFrance, R., Mische, S. and Farmer, B.	Expression, purification, crystallization and preliminary crystallographic analysis of human Pim-1 kinase
66	5	485	structural communications	269	Ebisawa, T., Yamamura, A., Kameda, Y., Hayakawa, K., Nagata, K. and Tanokura, M.	The structure of mAG, a monomeric mutant of the green fluorescent protein Azami-Green, reveals the structural basis of its stable green emission
66	10	1137	structural communications	260	Elsiger, M.-A., Deacon, A.M., Godzik, A., Lesley, S.A., Wooley, J., Wuthrich, K. and Wilson, I.A.	The JCSG high-throughput structural biology pipeline

INFORMATION ON JOURNAL OF APPLIED CRYSTALLOGRAPHY

Numbers at a glance - Journal of Applied Crystallography

Institutional subscriptions	Licensed sales	Multiyear Licenses	Full-text downloads 2010	Impact factor 2010	Ranking 2010
400	>3900	296	266308	3.79	7 of 25

Journal profile

The Journal of Applied Crystallography provides comprehensive coverage of topics related to the application of crystallographic methods in all branches of the natural sciences. Many research topics in condensed matter research, materials science and the life sciences make use of crystallographic methods to study crystalline and non-crystalline matter with neutrons, X-rays and electrons. Articles published in the journal focus on these methods and their use in identifying structural and diffusion-controlled phase transformations, structure–property relationships, structural changes of defects, interfaces and surfaces, *etc.* Developments of instrumentation and crystallographic apparatus, theory and interpretation, numerical analysis and computing, and other related subjects are also covered.

Triennial report

Journal of Applied Crystallography

During the triennium, the journal continued to attract high-quality papers on a wide range of topics. 1197 pages were published in 2008, 1212 in 2009 and 1543 in 2010. The increase in the number of pages is due to an increase in the number of articles with the average length of articles being 8.1 pages.

One special issue was published during the triennium. The issue, which contained 16 articles, covered the important topic of 'Crystallography education and training for the 21st century', and was edited by Katherine Kantardjieff.

Articles are now exclusively submitted and reviewed electronically, and there was a decrease in the average publication time (from 6.4 months for 2005-2007 to 5.6 months for 2008-2010). The average combined rejection and withdrawal rate was 35% compared with 27% for 2005-2007. The impact factor continued at a high level, peaking at 3.6.

During this triennium a number of Co-editors have retired, or will soon retire, from the Editorial Board. They include D. Chateigner, E. Dodson, S. E. Ealick, J. L. Hodeau, K.-I. Ohshima and T. R. Welberry. It has been a privilege and a pleasure to work with them.

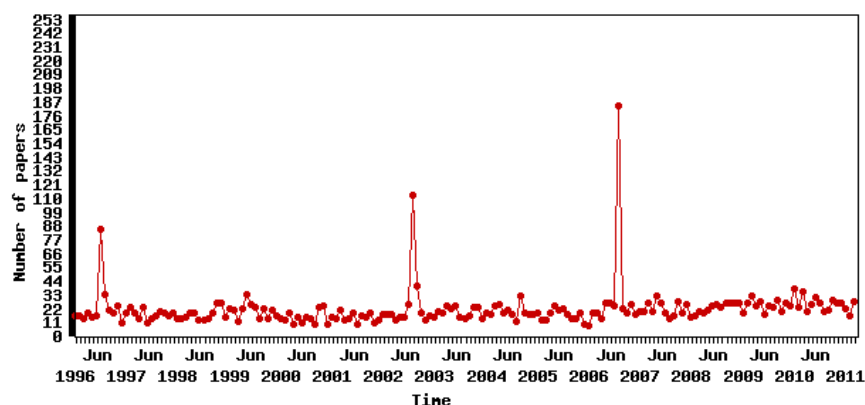
Finally, my sincere thanks are due to the many members of the crystallographic community who have served as reviewers of submitted papers and ensure that this is a high-quality journal, to the Co-editors who oversee the publication fate of the submitted manuscripts, and to the staff at Chester, who have done an excellent job in bringing the articles to publication.

Anke Kaysser-Pyzalla, Editor

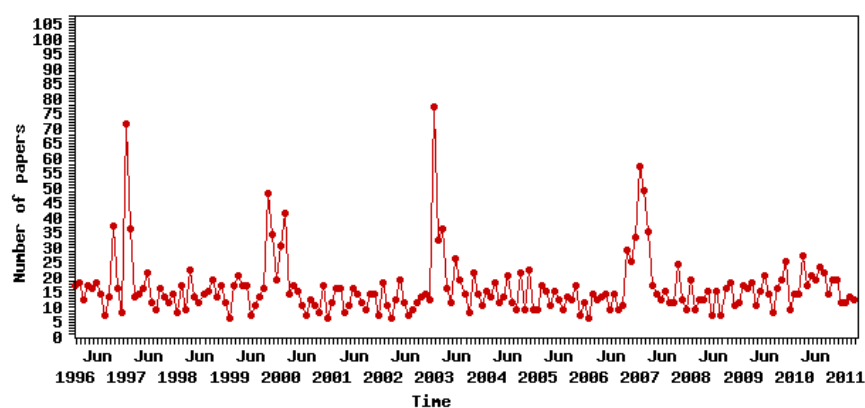
Recent and forthcoming special issues

- Teaching and Education (October 2010)

Journal of Applied Crystallography - papers submitted (1996-2011)



Journal of Applied Crystallography - papers accepted (1996-2011)



Feature and lead articles published in Journal of Applied Crystallography

Vol.	Part	First page	ISI citation	Authors	Title
2008					
41	3	491	5	Watkin, D.	Structure refinement: some background theory and practical strategies"

Journal of Applied Crystallography - citing journals

Impact	Citing Journal	Cited Year											
		All Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
	All Journals	15547	146	276	415	2192	274	439	477	2251	205	2090	6782
0.567	ACTA CRYSTALLOGR E	3279	54	13	52	1086	2	6	15	662	2	802	585
0.896	ACTA CRYSTALLOGR C	517	18	11	16	172	0	0	14	119	0	116	51
2.495	J APPL CRYSTALLOGR	464	22	31	40	38	27	33	29	30	19	21	174
4.89	J MOL BIOL	404	2	1	7	20	4	6	6	3	2	46	307
3.911	INORG CHEM	345	0	0	3	53	6	6	4	112	3	45	113
	All Journals	17663	81	430	916	797	491	566	1654	299	552	545	11332
0.41	ACTA CRYSTALLOGR E	2757	2	30	0	173	43	59	273	3	3	5	2166
3.02	J APPL CRYSTALLOGR	536	11	36	44	37	31	35	31	28	27	32	224

Impact	Citing Journal	Cited Year											
		All Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
4.66	INORG CHEM	438	1	7	9	5	12	3	88	4	8	10	291
3.87	J MOL BIOL	389	0	4	42	10	1	9	23	6	10	10	274
0.78	ACTA CRYSTALLOGR C	369	3	21	1	40	23	16	66	1	2	31	165
4.08	DALTON T	352	0	6	3	10	9	3	74	3	4	7	233
	ALL OTHERS (341)	341	4	7	26	9	6	7	13	6	13	12	238
5.33	J BIOL CHEM	305	2	3	39	9	1	6	25	6	11	3	200
1.01	Z KRISTALLOGR	290	0	7	25	16	10	29	10	18	15	15	145
0.55	ACTA CRYSTALLOGR F	247	1	7	25	2	0	7	0	5	16	0	184
8.58	J AM CHEM SOC	232	1	10	14	13	6	11	40	4	16	4	113
2.26	ACTA CRYSTALLOGR D	232	1	7	23	7	4	12	10	10	5	4	149
2.21	POLYHEDRON	227	0	3	0	8	5	0	33	1	0	2	175
3.48	PHYS REV B	224	2	17	10	9	8	14	11	8	31	8	106

Journal of Applied Crystallography - citation report by issue

Special issues are shaded.

2008				2009				2010			
Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count
1	0	31	6.2	1	0	22	2	1	0	33	1.2
2	0	32	14.8	2	0	36	6.6	2	0	26	0.7
3	0	22	20.1	3	0	28	1.9	3	0	36	0.5
4	0	28	2.2	4	0	26	2.1	4	0	40	9.8
5	0	19	3.1	5	0	26	2.8	5	1	30	0.4
								5 ^a	2	16	0
6	0	26	4	6	0	31	1.3	6	0	37	0.2

(a) Teaching and education.

Journal of Applied Crystallography - citation report by category

Category	2008				2009				2010			
	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count
research papers	117	117	0	4.9	126	126	0	2.4	165	165	0	0.5
short communications	9	9	0	1.7	9	9	0	1.7	11	11	0	0.3
lead articles	1	1	0	5	0	0	0	0	0	0	0	0
teaching and education	1	1	0	2	0	0	0	0	0	0	0	0
cryocrystallography papers	1	1	0	2	3	3	0	2.3	2	2	0	0.5
computer programs	21	21	0	34.3	19	19	0	8.4	26	26	0	0.9
CIF applications	1	1	0	0	1	1	0	10	2	2	0	186.5
laboratory notes	5	5	0	3.4	7	7	0	0.6	6	6	0	0.2
letters to the editor	1	1	0	1	1	1	0	1	0	0	0	0

	2008				2009				2010			
Category	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count
addenda and errata	0	0	0	0	1	1	0	0	0	0	0	0
book reviews	2	0	2	0	0	0	0	0	3	0	3	0
crystallographers	1	1	0	0	3	1	2	0	4	4	0	0
editorial	0	0	0	0	0	0	0	0	2	2	0	0
international union of crystallography	1	0	1	0	1	0	1	0	1	0	1	0
notes and news	0	0	0	0	1	1	0	0	0	0	0	0

Journal of Applied Crystallography - highly cited papers (2000-2011)

Year	Volume	Part	First page	ISI citations	Authors	Title
2003	36	1	7	7914	Spek, A.L.	Single-crystal structure validation with the program PLATON
2006	39	3	453	1345	Macrae, C.F.; Edgington, P.R.; McCabe, P.; et al.	Mercury: visualization and analysis of crystal structures
2001	34	2	210	1296	Toby, B.H.	EXPGUI, a graphical user interface for GSAS
2007	40	4	658	1083	Mccoy, A.J.; Grosse-Kunstleve, R.W.; Adams, P.D.; et al.	Phaser crystallographic software
2005	38	2	381	748	Burla, M.C.; Caliendo, R.; Camalli, M.; et al.	SIR2004: an improved tool for crystal structure determination and refinement
2003	36	2	220	651	Duisenberg, A.J.M.; Kroon-Batenburg, L.M.J.; Schreurs, A.M.M.	An intensity evaluation method: EVAL-14
2000	33	4	1143	524	Flack, H.D.; Bernardinelli, G.	Reporting and evaluating absolute-structure and absolute-configuration determinations
2010	43	4	920	470	Westrip, S.P.	<i>publCIF</i> : software for editing, validating and formatting crystallographic information files
2003	36	5	1277	373	Konarev, P.V.; Volkov, V.V.; Sokolova, A.V.; et al.	PRIMUS: a Windows PC-based system for small-angle scattering data analysis
2008	41	2	466	365	Macrae, C.F.; Bruno, I.J.; Chisholm, J.A.; et al.	Mercury CSD 2.0 - new features for the visualization and investigation of crystal structures
2004	37	2	335	361	Allen, F.H.; Johnson, O.; Shields, G.P.; et al.	CIF applications. XV. enCIFer: a program for viewing, editing and visualizing CIFs
2008	41	3	653	358	Momma, K.; Izumi, F.	VESTA: a three-dimensional visualization system for electronic and structural analysis
2004	37	5	724	324	Boultif, A.; Louer, D.	Powder pattern indexing with the dichotomy method
2003	36	3 Sp. Iss. 1	860	309	Volkov, V.V.; Svergun, D.I.	Uniqueness of ab initio shape determination in small-angle scattering
2002	35	6	734	302	Favre-Nicolin, V.; Cerny, R.	FOX, 'free objects for crystallography': a modular approach to ab initio structure determination from powder diffraction
2001	34	1	33	266	Kozin, M.B.; Svergun, D.I.	Automated matching of high- and low-resolution structural models
2001	34	3	298	224	Ungar, T.; Gubicza, J.; Ribarik, G.; et al.	Crystallite size distribution and dislocation structure determined by diffraction profile analysis: principles and practical application to cubic and hexagonal crystals
2006	39	6	895	211	Kline, S.R.	Reduction and analysis of SANS and USANS data using IGOR Pro
2003	36	2	944	207	Fenn, T.D.; Ringe, D.; Petsko, G.A.	POVScript+: a program for model and data visualization using persistence of vision ray-tracing
2001	34	2	130	203	Weiss, M.S.	Global indicators of X-ray data quality

Journal of Applied Crystallography - highly cited papers (2008)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
2	0	466	computer programs	365	Macrae, C.F., Bruno, I.J., Chisholm, J.A., Edgington, P.R., McCabe, P., Pidcock, E., Rodriguez-Monge, L., Taylor, R., Streek, J. van de, Wood, P.A.	Mercury CSD 2.0 - new features for the visualization and investigation of crystal structures
3	0	653	computer programs	358	Momma, K., Izumi, F.	VESTA: a three-dimensional visualization system for electronic and structural analysis
1	0	96	research papers	72	Hooft, R.W.W., Straver, L.H., Spek, A.L.	Determination of absolute structure using Bayesian statistics on Bijvoet differences
3	0	641	computer programs	37	Stein, N.	CHAINSAW: a program for mutating pdb files used as templates in molecular replacement
6	0	1024	research papers	20	Hielscher, R., Schaebe, H.	A novel pole figure inversion method: specification of the MTEX algorithm
2	0	310	research papers	18	Johnson, G., King, A., Honnicke, M.G., Marrow, J., Ludwig, W.	X-ray diffraction contrast tomography: a novel technique for three-dimensional grain mapping of polycrystals. II. The combined case
1	0	176	research papers	17	Gonzalez, A., Moorhead, P., McPhillips, S.E., Song, J., Sharp, K., Taylor, J.R., Adams, P.D., Sauter, N.K., Soltis, S.M.	Web-Ice: integrated data collection and analysis for macromolecular crystallography
2	0	249	research papers	16	Moggach, S.A., Allan, D.R., Parsons, S., Warren, J.E.	Incorporation of a new design of backing seat and anvil in a Merrill-Bassett diamond anvil cell
2	0	281	research papers	16	Heo, K., Yoon, J., Jin, S., Kim, J., Kim, K.-W., Shin, T.J., Chung, B., Chang, T., Ree, M.	Polystyrene-b-polyisoprene thin films with hexagonally perforated layer structure: quantitative grazing-incidence X-ray scattering analysis
2	0	302	research papers	16	Ludwig, W., Schmidt, S., Lauridsen, E.M., Poulsen, H.F.	X-ray diffraction contrast tomography: a novel technique for three-dimensional grain mapping of polycrystals. I. Direct beam case
4	0	811	computer programs	13	McMahon, B., Hanson, R.M.	A toolkit for publishing enhanced figures
2	0	262	research papers	13	Breiby, D.W., Bunk, O., Andreassen, J.W., Lemke, H.T., Nielsen, M.M.	Simulating X-ray diffraction of textured films
1	0	143	research papers	13	Colombi, P., Agnihotri, D.K., Asadchikov, V.E., Bontempi, E., Bowen, D.K., Chang, C.-H., Depero, L.E., Farnworth, M., Fujimoto, T., Gibaud, A., Jergel, M., Krumrey, M., Lafford, T.A., Lamperti, A., Ma, T., Matyi, R.J., Meduna, M., Milita, S., Sakurai, K., Shabel'nikov, L., Ulyanenko, A., Van der Lee, A., Wiemer, C.	Reproducibility in X-ray reflectometry: results from the first world-wide round-robin experiment
4	0	822	laboratory notes	13	Chupas, P.J., Chapman, K.W., Kurtz, C., Hanson, J.C., Lee, P.L., Grey, C.P.	A versatile sample-environment cell for non-ambient X-ray scattering experiments
5	0	913	research papers	13	Round, A.R., Franke, D., Moritz, S., Huchler, R., Fritsche, M., Malthan, D., Klaering, R., Svergun, D.I., Roessle, M.	Automated sample-changing robot for solution scattering experiments at the EMBL Hamburg SAXS station X33

Journal of Applied Crystallography - highly cited papers (2009)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
2	0	339	computer programs	74	Dolomanov, O.V., Bourhis, L.J., Gildea, R.J., Howard, J.A.K., Puschmann, H.	OLEX2: a complete structure solution, refinement and analysis program

Issue	Part	First page	Paper category	ISI citation	Authors	Title
2	0	169	research papers	38	Xiao, X., Wang, P., Chou, K.-C.	Predicting the quaternary structure attribute of a protein by hybridizing functional domain composition and pseudo amino acid composition
2	0	347	computer programs	34	Ilavsky, J., Jemian, P.R.	Irena: tool suite for modeling and analysis of small-angle scattering
2	0	342	computer programs	30	Franke, D., Svergun, D.I.	DAMMIF, a program for rapid ab-initio shape determination in small-angle scattering
5	0	885	research papers	18	Schulz, T., Meindl, K., Leusser, D., Stern, D., Graf, J., Michaelsen, C., Ruf, M., Sheldrick, G.M., Stalke, D.	A comparison of a microfocus X-ray source and a conventional sealed tube for crystal structure determination
1	0	69	research papers	11	Stewart, J.R., Deen, P.P., Andersen, K.H., Schober, H., Barthelemy, J.-F., Hillier, J.M., Murani, A.P., Hayes, T., Lindenu, B.	Disordered materials studied using neutron polarization analysis on the multi-detector spectrometer, D7
4	0	726	cif applications	10	Grazulis, S., Chateigner, D., Downs, R.T., Yokochi, A.F.T., Quiros, M., Lutterotti, L., Manakova, E., Butkus, J., Moeck, P., Le Bail, A.	Crystallography Open Database - an open-access collection of crystal structures
2	0	242	research papers	10	Cayron, C., Den Hertog, M., Latu-Romain, L., Mouchet, C., Secouard, C., Rouviere, J.-L., Rouviere, E., Simonato, J.-P.	Odd electron diffraction patterns in silicon nanowires and silicon thin films explained by microtwins and nanotwins
5	0	892	research papers	9	David, G., Perez, J.	Combined sampler robot and high-performance liquid chromatography: a fully automated system for biological small-angle X-ray scattering experiments at the Synchrotron SOLEIL SWING beamline
3	0	376	research papers	8	Joosten, R.P., Salzemann, J., Bloch, V., Stockinger, H., Berglund, A.-C., Blanchet, C., Bongcam-Rudloff, E., Combet, C., Da Costa, A.L., Deleage, G., Diarena, M., Fabbretti, R., Fettahi, G., Flegel, V., Gisel, A., Kasam, V., Kervinen, T., Korpelainen, E., Mattila, K., Pagni, M., Reichstadt, M., Breton, V., Tickle, I.J., Vriend, G.	PDB_REDO: automated re-refinement of X-ray structure models in the PDB
3	0	469	research papers	8	Ilavsky, J., Jemian, P.R., Allen, A.J., Zhang, F., Levine, L.E., Long, G.G.	Ultra-small-angle X-ray scattering at the Advanced Photon Source
6	0	1197	computer programs	8	Altomare, A., Camalli, M., Cuocci, C., Giacovazzo, C., Moliterni, A., Rizzi, R.	EXPO2009: structure solution by powder data in direct and reciprocal space
5	0	820	research papers	8	Orobengoa, D., Capillas, C., Aroyo, M.I., Perez-Mato, J.M.	AMPLIMODES: symmetry-mode analysis on the Bilbao Crystallographic Server

Journal of Applied Crystallography - highly cited papers (2010)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
4	0	920	cif applications	470	Westrip, S.P.	<i>publCIF</i> : software for editing, validating and formatting crystallographic information files
1	0	70	research papers	10	Schreurs, A.M.M., Xian, X., Kroon-Batenburg, L.M.J.	EVAL15: a diffraction data integration method based on ab initio predicted profiles
1	0	110	research papers	5	Jeng, U.-S., Su, C.H., Su, C.-J., Liao, K.-F., Chuang, W.-T., Lai, Y.-H., Chang, J.-W., Chen, Y.-J., Huang, Y.-S., Lee, M.-T., Yu, K.-L., Lin, J.-M., Liu, D.-G., Chang, C.-F., Liu, C.-Y., Chang, C.-H., Liang, K.S.	A small/wide-angle X-ray scattering instrument for structural characterization of air-liquid interfaces, thin films and bulk specimens

Issue	Part	First page	Paper category	ISI citation	Authors	Title
2	0	362	computer programs	4	Thomas, I.R., Bruno, I.J., Cole, J.C., Macrae, C.F., Pidcock, E., Wood, P.A.	WebCSD: the online portal to the Cambridge Structural Database
1	0	154	research papers	4	Bhagavannarayana, G., Kushwaha, S.K.	Enhancement of SHG efficiency by urea doping in ZTS single crystals and its correlation with crystalline perfection as revealed by Kurtz powder and high-resolution X-ray diffraction methods
5	1	1100	research papers	4	Cooper, R.I., Thompson, A.L., Watkin, D.J.	CRYSTALS enhancements: dealing with hydrogen atoms in refinement
1	0	181	computer programs	3	Le Roux, S., Petkov, V.	ISAACS - interactive structure analysis of amorphous and crystalline systems
1	0	186	computer programs	3	Winter, G.	xia2: an expert system for macromolecular crystallography data reduction
1	0	1	research papers	3	Erko, M., Wallacher, D., Brandt, A., Paris, O.	In-situ small-angle neutron scattering study of pore filling and pore emptying in ordered mesoporous silica
1	0	27	research papers	3	Dudka, A.	Refinement of the $[\lambda]/2$ contribution to CCD detector data
4	0	716	research papers	3	Hammouda, B.	A new Guinier-Porod model
3	0	407	research papers	3	Ascone, I., Kahn, R., Girard, E., Prange, T., Dhaussy, A.-C., Mezouar, M., Ponikwicki, N., Fourme, R.	Isothermal compressibility of macromolecular crystals and macromolecules derived from high-pressure X-ray crystallography

Journal of Applied Crystallography - top 10 articles downloaded in 2010

HTML downloads in 2010 = 71966 PDF downloads in 2010 = 194342 Total downloads in 2010 = 266308

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
42	4	726	cif applications	2226	Grazulis, S., Chateigner, D., Downs, R.T., Yokochi, A.F.T., Quiros, M., Lutterotti, L., Manakova, E., Butkus, J., Moeck, P. and Le Bail, A.	Crystallography Open Database - an open-access collection of crystal structures
28	5	660	notes and news	1280		Notes and News
43	1	211	international union of crystallography	974	IUCr Editorial Office	Notes for authors 2010
43	5	1150	research papers	943	Dauter, Z. and Jaskolski, M.	How to read (and understand) Volume A of International Tables for Crystallography: an introduction for nonspecialists
36	1	7	research papers	769	Spek, A.L.	Single-crystal structure validation with the program PLATON
42	6	1035	research papers	737	Gorrec, F.	The MORPHEUS protein crystallization screen
43	5	1250	research papers	641	Hanson, R.M.	Jmol - a paradigm shift in crystallographic visualization
43	5	1139	research papers	592	Pett, V.B.	Teaching crystallography to undergraduate physical chemistry students
43	5	1137	editorial	573	Kantardjiev, K.A., Kaysser-Pyzalla, A.R. and Spadon, P.	Crystallography education and training for the 21st century
43	5	1144	research papers	562	Nespolo, M. and Souvignier, B.	The Bravais polar lattice as a didactic tool for diffraction beginners

INFORMATION ON JOURNAL OF SYNCHROTRON RADIATION

Numbers at a glance Journal of Synchrotron Radiation

Institutional subscriptions	Licensed sales	Multiyear Licenses	Full-text downloads 2010	Impact factor 2010	Ranking 2010
142	>3900	101	100075	2.34	7 of 61

Journal profile

Synchrotron radiation research is rapidly expanding with many new sources of radiation being created globally. Synchrotron radiation plays a leading role in pure science and in emerging technologies. The Journal of Synchrotron Radiation provides comprehensive coverage of the entire field of synchrotron radiation research including instrumentation, theory, computing and scientific applications in areas such as materials science, nanoscience and biology. Rapid publication ensures an up-to-date information resource for scientists and engineers in the field.

Triennial report

Journal of Synchrotron Radiation

During the period 2008–2010, a total of 366 articles comprising 2365 pages were published, an increase on the previous triennium. This increase reflects the journal policy of including Special Issues focused on a particular topic, providing informative summaries of important developments in the field to the synchrotron-radiation community. In total, four such Special Issues have been published over the last three years, with further ones planned for the future.

The average impact factor remains high peaking at 2.3 in 2008. The average publication time during this period has been reduced, falling from 6.4 months in 2008 to 5.2 months in 2010. The combined rejection and withdrawal rate is just below 30%.

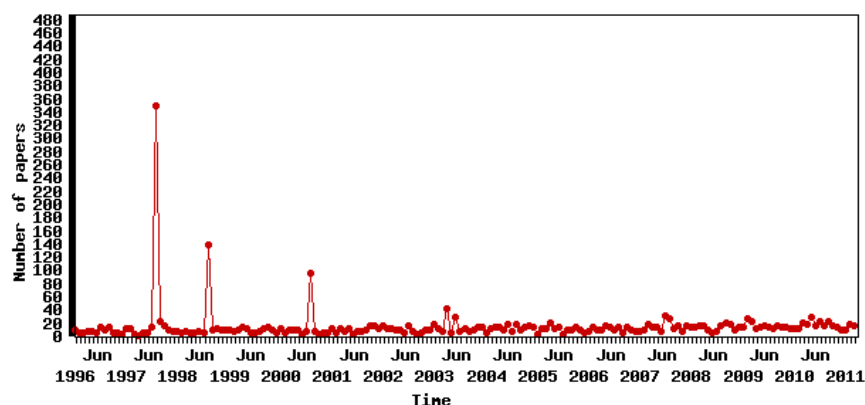
In the next triennium we expect the interest in this field will continue to grow as new facilities for the generation of radiation, including free electron lasers (FELs), become operational. We fully expect that JSR will remain the pre-eminent journal dedicated to reporting scientific and instrument advancements, regardless of the source technology, in the years to come.

G. Ice, Å. Kvik and T. Ohta, Editors

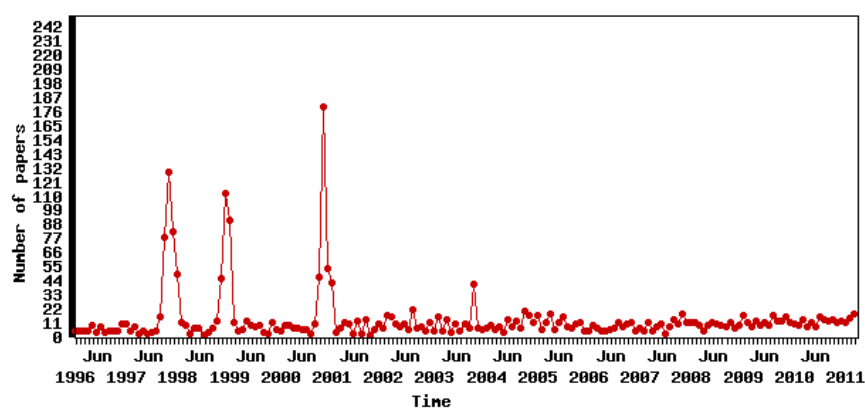
Recent and forthcoming special issues

- Radiation Damage in Macromolecules (March 2009)
- Advances and Synergy of High-Pressure Sciences at Synchrotron Sources (November 2009)
- Synchrotron Radiation in Soil and Geosciences (March 2010)
- International Symposium on Diffraction Structural Biology 3 (January 2011)
- Radiation Damage (May 2011)
- Improving data quality and quantity for XAFS experiments (spring 2012)

Journal of Synchrotron Radiation - papers submitted (1996-2011)



Journal of Synchrotron Radiation - papers accepted (1996-2011)



Feature and lead articles published in Journal of Synchrotron Radiation

Vol.	Part	First page	ISI citation	Authors	Title
2010					
17	1	1	6	Petibois, C., Piccinini, M., Guidi, M.C., Marcelli, A.	Facing the challenge of biosample imaging by FTIR with a synchrotron radiation source
17	4	433	2	Dauter, Z., Jaskolski, M., Wlodawer, A.	Impact of synchrotron radiation on macromolecular crystallography: a personal view

Journal of Synchrotron Radiation - citing journals

Impact	Citing Journal	Cited Year											
		All Yrs	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	Rest
	All Journals	2770	94	161	194	215	459	244	192	143	402	88	578
1.99	J SYNCHROTRON RADIAT	315	32	22	46	28	51	18	20	22	22	10	44
	ALL OTHERS (218)	218	1	16	10	11	29	30	19	15	29	9	49
3.48	PHYS REV B	81	2	5	6	7	18	2	1	1	20	0	19
1.52	REV SCI INSTRUM	74	2	5	9	5	13	2	6	3	6	5	18
4.22	J PHYS CHEM C	72	0	0	0	3	19	2	1	1	22	1	23
3.02	J APPL CRYSTALLOGR	66	5	11	3	5	10	5	6	2	3	2	14
4.39	GEOCHIM COSMOCHIM AC	60	0	0	1	4	13	6	3	0	21	0	12
1.96	J PHYS-CONDENS MAT	58	0	1	1	4	6	3	5	0	19	1	18

2.07	J APPL PHYS	52	3	1	1	7	15	0	2	7	4	0	12
1.32	NUCL INSTRUM METH A	47	1	2	3	11	5	0	4	3	3	2	13
4.63	ENVIRON SCI TECHNOL	44	2	1	1	1	16	3	1	1	10	0	8
	P SOC PHOTO-OPT INS	37	0	4	0	9	1	4	1	2	1	3	12
	SPRINGER SERIES OPTI	36	0	0	1	3	2	3	3	6	5	1	12
3.87	J MOL BIOL	34	0	0	4	4	2	13	2	7	0	2	0
7.33	PHYS REV LETT	33	1	3	6	5	4	5	2	0	2	1	4
4.66	INORG CHEM	31	0	0	0	0	5	0	5	0	8	0	13
3.09	J CHEM PHYS	28	1	2	0	4	4	1	3	0	5	0	8
0.94	J ELECTRON SPECTROSC	26	0	2	3	1	2	1	7	6	1	3	0
2.26	ACTA CRYSTALLOGR D	26	2	1	4	1	3	9	0	4	1	0	1
2.9	J PHYS CHEM A	25	0	4	0	0	4	0	0	0	4	0	13

Journal of Synchrotron Radiation - citation report by issue

Special issues are shaded.

2008				2009				2010			
Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count	Issue	Part	No. of articles in ISI database	Average citation count
1	0	16	3.2	1	0	17	3.9	1	0	18	1.1
2	0	12	4.2	2 ^b	0	22	6.2	2 ^d	0	23	0.4
3 ^a	0	32	3	3	0	23	3.7	3	0	19	0.4
4	0	17	3.6	4	0	22	3.8	4	0	16	0.8
5	0	18	5.2	5	0	16	0.8	5	0	15	0.5
6	0	17	4.1	6 ^c	0	27	2	6	0	17	0

(a) 2nd International Symposium on Diffraction Structural Biology; (b) Radiation Damage in Macromolecules; (c) Advances and Synergy of High-Pressure Sciences at Synchrotron Sources; (d) Synchrotron Radiation in Soil and Geosciences.

Journal of Synchrotron Radiation - citation report by category

	2008				2009				2010			
Category	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count	No. of articles	No. of articles in ISI database	No. of articles not covered	Average citation count
research papers	73	73	0	4.1	109	109	0	3.7	96	96	0	0.4
short communications	37	37	0	3.3	8	8	0	2.8	5	5	0	0.4
feature articles	0	0	0	0	0	0	0	0	2	2	0	4
computer programs	1	1	0	1	2	2	0	5.5	2	2	0	1.5
laboratory notes	0	0	0	0	1	1	0	1	0	0	0	0
letters to the editor	0	0	0	0	4	4	0	0.2	0	0	0	0
addenda and errata	0	0	0	0	1	1	0	0	1	1	0	0
new commercial products	1	0	1	0	0	0	0	0	0	0	0	0
book reviews	1	0	1	0	0	0	0	0	0	0	0	0
international union of crystallography	1	0	1	0	1	0	1	0	1	0	1	0
meeting reports	0	0	0	0	0	0	0	0	1	1	0	0
current events	6	1	5	0	6	2	4	0	6	1	5	0

Journal of Synchrotron Radiation - highly cited papers (2000-2011)

Year	Volume	Part	First page	ISI citations	Authors	Title
2005	12	4	537	961	Ravel, B.; Newville, M.	ATHENA, ARTEMIS, HEPHAESTUS: data analysis for X-ray absorption spectroscopy using IFEFFIT
2001	8	2	322	657	Newville, M.	IFEFFIT: interactive XAFS analysis and FEFF fitting
2004	11	1	49	194	Terwilliger, T.	SOLVE and RESOLVE: automated structure solution, density modification, and model building
2001	8	2	314	190	Ravel, B.	ATOMS: crystallography for the X-ray absorption spectroscopist
2003	10	2	125	181	Kilcoyne, A.L.D.; Tylliszczak, T.; Steele, W.F.; et al.	Interferometer-controlled scanning transmission X-ray microscopes at the Advanced Light Source
2002	9	6	401	170	McPhillips, T.M.; McPhillips, S.E.; Chiu, H.J.; et al.	Blu-Ice and the Distributed Control System: software for data acquisition and instrument control at macromolecular crystallography beamlines
2004	11	1	53	136	Adams, P.D.; Gopal, K.; Grosse-Kunstleve, R.W.; et al.	Recent developments in the PHENIX software for automated crystallographic structure determination
2000	7	4	203	109	Cerenius, Y.; Stahl, K.; Svensson, L.A.; et al.	The crystallography beamline I711 at MAX II
2004	11	3	239	105	Marcus, M.A.; MacDowell, A.A.; Celestre, R.; et al.	Beamline 10.3.2 at ALS: a hard X-ray microprobe for environmental and materials sciences
2001	8	4	1087	101	Benfatto, M.; Della Longa, S.	Geometrical fitting of experimental XANES spectra by a full multiple-scattering procedure
2006	13	2	120	92	Broennimann, C.; Eikenberry, E.F.; Henrich, B.; et al.	The PILATUS 1M detector
2004	11	4	328	91	Knapp, M.; Baecht, C.; Ehrenberg, H.; et al.	The synchrotron powder diffractometer at beamline B2 at HASYLAB/DESY: status and capabilities
2003	10	1	51	80	Benfatto, M.; Della Longa, S.; Natoli, C.R.	The MXAN procedure: a new method for analysing the XANES spectra of metalloproteins to obtain structural quantitative information
2003	10	2	137	77	Tamura, N.; MacDowell, A.A.; Spolenak, R.; et al.	Scanning X-ray microdiffraction with submicrometer white beam for strain/stress and orientation mapping in thin films
2003	10	1	26	72	Natoli, C.R.; Benfatto, M.; Della Longa, S.; et al.	X-ray absorption spectroscopy: state-of-the-art analysis
2001	8	2	96	72	Newville, M.	EXAFS analysis using FEFF and FEFFIT
2001	8	5	1162	70	Meneghini, C.; Artioli, G.; Balerna, A.; et al.	Multipurpose imaging-plate camera for in-situ powder XRD at the GILDA beamline
2001	8	6	1221	65	Tanaka, T.; Kitamura, H.	SPECTRA: a synchrotron radiation calculation code
2002	9	4	254	64	Warwick, T.; Ade, H.; Kilcoyne, D.; et al.	A new bend-magnet beamline for scanning transmission X-ray microscopy at the Advanced Light Source
2003	10	1	23	61	Winn, M.D.	An overview of the CCP4 project in protein crystallography: an example of a collaborative project

Journal of Synchrotron Radiation - highly cited papers (2008)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
6	0	632	research papers	27	Nikitenko, S., Beale, A.M., van der Eerden, A.M.J., Jacques, S.D.M., Leynaud, O., O'Brien, M.G., Detollenaere, D., Kaptein, R., Weckhuysen, B.M., Bras, W.	Implementation of a combined SAXS/WAXS/QEXAFS set-up for time-resolved in situ experiments
5	0	427	research papers	25	Lee, P.L., Shu, D., Ramanathan, M., Preissner, C., Wang, J., Beno, M.A., Von Dreele, R.B., Ribaud, L., Kurtz, C., Antao, S.M., Jiao, X., Toby, B.H.	A twelve-analyzer detector system for high-resolution powder diffraction

Issue	Part	First page	Paper category	ISI citation	Authors	Title
3	0	227	short communications	13	Hubbard, R.E.	Fragment approaches in structure-based drug discovery
4	0	329	research papers	12	Mukaide, T., Mogi, S., Yamamoto, J., Morita, A., Koji, S., Takada, K., Uesugi, K., Kajiwar, K., Noma, T.	In situ observation of water distribution and behaviour in a polymer electrolyte fuel cell by synchrotron X-ray imaging
4	0	355	research papers	12	Hornberger, B., de Jonge, M.D., Feser, M., Holl, P., Holzner, C., Jacobsen, C., Legnini, D., Paterson, D., Rehak, P., Struder, L., Vogt, S.	Differential phase contrast with a segmented detector in a scanning X-ray microprobe
3	0	219	short communications	11	Jin, K.S., Kim, D.Y., Rho, Y., Le, V.B., Kwon, E., Kim, K.K., Ree, M.	Solution structures of RseA and its complex with RseB
2	0	123	research papers	11	Harris, H.H., Vogt, S., Eastgate, H., Legnini, D.G., Hornberger, B., Cai, Z., Lai, B., Lay, P.A.	Migration of mercury from dental amalgam through human teeth
5	0	458	research papers	11	Cowan, J.A., Nave, C.	The optimum conditions to collect X-ray data from very small samples
2	0	162	research papers	10	Sternemann, H., Sternemann, C., Seidler, G.T., Fister, T.T., Sakko, A., Tolan, M.	An extraction algorithm for core-level excitations in non-resonant inelastic X-ray scattering spectra
1	0	62	research papers	10	Starodub, D., Rez, P., Hembree, G., Howells, M., Shapiro, D., Chapman, H.N., Fromme, P., Schmidt, K., Weierstall, U., Doak, R.B., Spence, J.C.H.	Dose, exposure time and resolution in serial X-ray crystallography
5	0	469	research papers	9	Staub, U., Scagnoli, V., Bodenthin, Y., Garcia-Fernandez, M., Wetter, R., Mulders, A.M., Grimmer, H., Horisberger, M.	Polarization analysis in soft X-ray diffraction to study magnetic and orbital ordering
4	0	420	short communications	9	Miles, A.J., Janes, R.W., Brown, A., Clarke, D.T., Sutherland, J.C., Tao, Y., Wallace, B.A., Hoffmann, S.V.	Light flux density threshold at which protein denaturation is induced by synchrotron radiation circular dichroism beamlines
3	0	316	short communications	8	Ito, L., Kobayashi, T., Shiraki, K., Yamaguchi, H.	Effect of amino acids and amino acid derivatives on crystallization of hemoglobin and ribonuclease A
3	0	215	short communications	8	Langan, P., Fisher, Z., Kovalevsky, A., Mustyakimov, M., Sutcliffe Valone, A., Unkefer, C., Waltman, M.J., Coates, L., Adams, P.D., Afonine, P.V., Bennett, B., Dealwis, C., Schoenborn, B.P.	Protein structures by spallation neutron crystallography
1	0	106	short communications	8	Jefimovs, K., Vila-Comamala, J., Stampanoni, M., Kaulich, B., David, C.	Beam-shaping condenser lenses for full-field transmission X-ray microscopy
5	0	433	research papers	7	Ellis, M.J., Buffey, S.G., Hough, M.A., Hasnain, S.S.	On-line optical and X-ray spectroscopies with crystallography: an integrated approach for determining metalloprotein structures in functionally well defined states
3	0	288	short communications	7	Okazaki, N., Hasegawa, K., Ueno, G., Murakami, H., Kumasaka, T., Yamamoto, M.	Mail-in data collection at SPring-8 protein crystallography beamlines
5	0	463	research papers	7	Marcus, M.A., Westphal, A.J., Fakra, S.C.	Classification of Fe-bearing species from K-edge XANES data using two-parameter correlation plots
6	0	624	research papers	7	Wang, F., Zhu, Q., Ivanova, E.P.	Inner-shell chemical shift of DNA/RNA bases and inheritance from their parent purine and pyrimidine

Journal of Synchrotron Radiation - highly cited papers (2009)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
3	0	368	research papers	34	Kraft, P., Bergamaschi, A., Broennimann, Ch., Dinapoli, R., Eikenberry, E.F., Henrich, B., Johnson, I., Mozzanica, A., Schleputz, C.M., Willmott, P.R., Schmitt, B.	Performance of single-photon-counting PILATUS detector modules
2	0	152	research papers	23	Paithankar, K.S., Owen, R.L., Garman, E.F.	Absorbed dose calculations for macromolecular crystals: improvements to RADDOSE
1	0	43	research papers	17	Bech, M., Bunk, O., David, C., Ruth, R., Rifkin, J., Loewen, R., Feidenhans'l, R., Pfeiffer, F.	Hard X-ray phase-contrast imaging with the Compact Light Source based on inverse Compton X-rays
2	0	143	research papers	14	Owen, R.L., Holton, J.M., Schulze-Bries, C., Garman, E.F.	Determination of X-ray flux using silicon pin diodes
4	0	469	research papers	14	Verbeni, R., Pylkkanen, T., Huotari, S., Simonelli, L., Vanko, G., Martel, K., Henriquet, C., Monaco, G.	Multiple-element spectrometer for non-resonant inelastic X-ray spectroscopy of electronic excitations
2	0	163	research papers	13	McGeehan, J., Ravelli, R.B.G., Murray, J.W., Owen, R.L., Cipriani, F., McSweeney, S., Weik, M., Garman, E.F.	Colouring cryo-cooled crystals: online microspectrophotometry
2	0	133	research papers	11	Holton, J.M.	A beginner's guide to radiation damage
3	0	432	short communications	11	Rack, A., Garcia-Moreno, F., Baumbach, T., Banhart, J.	Synchrotron-based radiography employing spatio-temporal micro-resolution for studying fast phenomena in liquid metal foams
4	0	498	research papers	10	Knaapila, M., Svensson, C., Barauskas, J., Zackrisson, M., Nielsen, S.S., Toft, K.N., Vestergaard, B., Arleth, L., Olsson, U., Pedersen, J.S., Cerenius, Y.	A new small-angle X-ray scattering set-up on the crystallography beamline I711 at MAX-lab
4	0	463	research papers	10	Daniels, J.E., Drakopoulos, M.	High-energy X-ray diffraction using the Pixium 4700 flat-panel detector
2	0	264	research papers	9	Lutzenkirchen-Hecht, D., Wagner, R., Haake, U., Watenphul, A., Frahm, R.	The materials science X-ray beamline BL8 at the DELTA storage ring
6	0	872	computer programs	8	Incardona, M.-F., Bourenkov, G.P., Levik, K., Pieritz, R.A., Popov, A.N., Svensson, O.	EDNA: a framework for plugin-based applications applied to X-ray experiment online data analysis

Journal of Synchrotron Radiation - highly cited papers (2010)

Issue	Part	First page	Paper category	ISI citation	Authors	Title
1	0	1	feature articles	6	Petibois, C., Piccinini, M., Guidi, M.C., Marcelli, A.	Facing the challenge of biosample imaging by FTIR with a synchrotron radiation source
5	0	653	research papers	3	Bergamaschi, A., Cervellino, A., Dinapoli, R., Gozzo, F., Henrich, B., Johnson, I., Kraft, P., Mozzanica, A., Schmitt, B., Shi, X.	The MYTHEN detector for X-ray powder diffraction experiments at the Swiss Light Source
1	0	107	research papers	3	Flot, D., Mairs, T., Giraud, T., Guijarro, M., Lesourd, M., Rey, V., van Brussel, D., Morawe, C., Borel, C., Hignette, O., Chavanne, J., Nurizzo, D., McSweeney, S., Mitchell, E.	The ID23-2 structural biology microfocus beamline at the ESRF
1	0	41	research papers	3	Giachini, L., Veronesi, G., Francia, F., Venturoli, G., Boscherini, F.	Synergic approach to XAFS analysis for the identification of most probable binding motifs for mononuclear zinc sites in metalloproteins

Issue	Part	First page	Paper category	ISI citation	Authors	Title
4	0	486	research papers	2	Medjoubi, K., Bucaille, T., Hustache, S., Berar, J.-F., Boudet, N., Clemens, J.-C., Delpierre, P., Dinkespiler, B.	Detective quantum efficiency, modulation transfer function and energy resolution comparison between CdTe and silicon sensors bump-bonded to XPAD3S
4	0	496	research papers	2	Rack, A., Weitkamp, T., Riotte, M., Grigoriev, D., Rack, T., Helfen, L., Baumbach, T., Dietsch, R., Holz, T., Kramer, M., Siewert, F., Meduna, M., Cloetens, P., Ziegler, E.	Comparative study of multilayers used in monochromators for synchrotron-based coherent hard X-ray imaging
3	0	299	research papers	2	Diaz, A., Mocuta, C., Stangl, J., Keplinger, M., Weitkamp, T., Pfeiffer, F., David, C., Metzger, T.H., Bauer, G.	Coherence and wavefront characterization of Si-111 monochromators using double-grating interferometry
4	0	433	feature articles	2	Dauter, Z., Jaskolski, M., Wlodawer, A.	Impact of synchrotron radiation on macromolecular crystallography: a personal view
4	0	451	research papers	2	Isakovic, A.F., Stein, A., Warren, J.B., Sandy, A.R., Narayanan, S., Sprung, M., Ablett, J.M., Siddons, D.P., Metzler, M., Evans-Lutterodt, K.	A bi-prism interferometer for hard X-ray photons
5	0	700	computer programs	2	Gabadinho, J., Beteva, A., Guijarro, M., Rey-Bakaikoa, V., Spruce, D., Bowler, M.W., Brockhauser, S., Flot, D., Gordon, E.J., Hall, D.R., Lavault, B., McCarthy, A.A., McCarthy, J., Mitchell, E., Monaco, S., Mueller-Dieckmann, C., Nurizzo, D., Ravelli, R.B.G., Thibault, X., Walsh, M.A., Leonard, G.A., McSweeney, S.M.	MxCuBE: a synchrotron beamline control environment customized for macromolecular crystallography experiments
2	0	273	research papers	2	Bauer, M., Heusel, G., Mangold, S., Bertagnolli, H.	Spectroscopic set-up for simultaneous UV-Vis/(Q)EXAFS in situ and in operando studies of homogeneous reactions under laboratory conditions
2	0	149	research papers	2	Thieme, J., Sedlmair, J., Gleber, S.-C., Prietzel, J., Coates, J., Eusterhues, K., Abbt-Braun, G., Salome, M.	X-ray spectromicroscopy in soil and environmental sciences
4	0	550	research papers	2	Hintermuller, C., Marone, F., Isenegger, A., Stampanoni, M.	Image processing pipeline for synchrotron-radiation-based tomographic microscopy

Journal of Synchrotron Radiation - top 10 articles downloaded in 2010

HTML downloads in 2010 = 41320 PDF downloads in 2010 = 58755 Total downloads in 2010 = 100075

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
10	3	269	research papers	1688	Carr, R.	Magnetic counterforce for insertion devices
17	1	141	international union of crystallography	589	IUCr Editorial Office	Notes for authors 2010
17	4	433	feature articles	438	Dauter, Z., Jaskolski, M. and Wlodawer, A.	Impact of synchrotron radiation on macromolecular crystallography: a personal view
17	1	1	feature articles	350	Petibois, C., Piccinini, M., Guidi, M.C. and Marcelli, A.	Facing the challenge of biosample imaging by FTIR with a synchrotron radiation source
14	1	73	research papers	340	Southworth-Davies, R.J. and Garman, E.F.	Radioprotectant screening for cryocrystallography
16	2	133	research papers	302	Holton, J.M.	A beginner's guide to radiation damage
16	2	173	research papers	274	Owen, R.L., Pearson, A.R., Meents, A., Boehler, P., Thominet, V. and Schulze-Briesche, C.	A new on-axis multimode spectrometer for the macromolecular crystallography beamlines of the Swiss Light Source

Volume	Issue	First page	Paper category	Total downloads	Authors	Title
17	2	289	research papers	263	Rack, A., Rack, T., Stiller, M., Riesemeier, H., Zabler, S. and Nelson, K.	In vitro synchrotron-based radiography of micro-gap formation at the implant-abutment interface of two-piece dental implants
16	2	143	research papers	262	Owen, R.L., Holton, J.M., Schulze-Briese, C. and Garman, E.F.	Determination of X-ray flux using silicon pin diodes
16	2	129	research papers	248	Garman, E.F. and Nave, C.	Radiation damage in protein crystals examined under various conditions by different methods

Journal of Synchrotron Radiation - facility information pages

This section provides regular news from a number of synchrotron facilities. Participating facilities pay a fee for advertising and open-access vouchers.

Current participants
APS
DESY
ESRF
MAX-lab
Paul Scherrer Institut
Photon Factory
SPring-8

APPENDIX 1

NEW PROCEEDINGS JOURNAL

1. Introduction

For the last ten years, the IUCr has had a policy of publishing themed special issues (usually up to 160 pages) on topics covering areas closely aligned with the scope of our journals. When we have been approached by organisers of large meetings our response has been to suggest that we would be willing to publish a selection of papers from the conference rather than a full proceedings issue. The only exception to the above has been the publication of two large SAS special issues in *Journal of Applied Crystallography*.

The main reasons for not publishing such large issues have been that they generally have a detrimental effect on the impact factor of the journal and they are disruptive to the usual workflow in the Editorial Office. In addition, the publication of such issues has not been cost neutral to the Union when standard editorial handling has been used to publish the proceedings.

Publication of proceedings is, however, a way of engaging with the various communities represented in IUCr commissions and would be scientifically worthwhile if we can produce a better quality result than other publishers.

The proposal outlined below is for a new open-access proceedings journal, possibly with the name “Advances in Crystallography”, which would publish approximately three issues per year with 400 pages per issue. The journal would need to be cost neutral to the Union.

Several methods of handling the production of the journal were considered and costed. Details are given in Section 3. The lowest cost option would be joint publication with a Swiss publisher, TransTech Publications (TTP).

2. Viewpoint of Wiley-Blackwell

The possibility of a proceedings journal was discussed with Wiley-Blackwell at a meeting in Weinheim in August 2010, and again during our annual meeting in Copenhagen in March 2011. Wiley-Blackwell would not have a problem with the IUCr producing such a journal either on our own or with another publishing partner.

3. Handling of the journal

The costs of three different production methods were considered: (1) production by usual journal procedures with full technical editing; (2) production by current methods but with technical editing, typesetting and proofreading contracted out; (3) co-publication with TTP (negotiations with organisers, submission and production done by TTP, but any required technical editing carried out by the IUCr); (4) co-publication with TTP (no technical editing).

The preferred option would be to co-publish with TTP. TTP have been publishing conference proceedings for at least 20 years.

Co-publication with TTP would make the following differences:

- The journal would be published under a joint IUCr/TTP imprint
- Articles would be PDF camera-ready only (not HTML/PDF), and hosted by TTP and IUCr
- TTP would negotiate prices directly with conference organisers based on a reasonably flexible price matrix

In all cases, printed copies would be black and white only. The journal would most likely be covered by the major abstracting and indexing databases, including ISI, but note that proceedings journals do not get a standard impact factor.

4. Editorial board

An experienced series editor would be required to ensure that quality is upheld and that issues are produced in a timely fashion. It would be expected in most cases that Guest Editors would be appointed for individual proceedings. The series editor should receive a small honorarium based on the number of issues published in the year.

Gernot Kostorz would be willing to act as Series Editor for the journal during the launch period.

5. Timescale

The timescale of the launch will depend on the publication method chosen and negotiations with conference organisers. It is likely that the first issue would not be until 2013. If the Executive Committee agree in principle to the journal, then a launch would not be announced until at least three conference organisers have been signed up.

List of meetings

In recent years we have had numerous approaches from conference organisers to publish the full proceedings of meetings. Below we have listed such meetings that occur on a regular basis and also other meetings where we have been contacted concerning what appears to be a one-off meeting.

Of the meetings mentioned, in recent years we have only published in the case of the SAS meetings.

The list demonstrates that there is a reasonable number of potential proceedings to publish. Additional meetings might also be identified by looking at IUCr sponsored meetings for the last five years.

REGULAR MEETINGS

Conference on High Resolution X-ray Diffraction and Imaging (XTOP) - every 2 years - 2012 - 2014 - 2016

International Conference on Biology and Synchrotron Radiation (BSR) - every 3 years - 2013 - 2016 - 2019

International Conference on Crystallisation of Biological Macromolecules (ICCBM) - every 2 years - 2012 - 2014 - 2016

International Conference on Small-Angle Scattering (SAS) - every 3 years - 2012 - 2015 - 2018

International Conference on Surface X-ray and Neutron Scattering - every 2 years - 2012 - 2014 - 2016

International Conference on Synchrotron Radiation and Instrumentation (SRI) - every 3 years - 2012 - 2015 - 2018

International Conference on Textures of Materials (ICOTOM) - every 3 years - 2014 - 2017 - 2020

International Conference on X-ray Absorption Fine Structure (XAFS) - every 3 years - 2012 - 2015 - 2018

International Conference on X-ray Microscopy (XRM) - frequency unknown

US SRI Conference Proceedings - frequency unknown

OTHER MEETINGS (RECENT APPROACHES)

EMRS Spring Meeting 2009 (Symposium on X-ray techniques for advanced materials, nanostructures and thin films - from laboratory sources to synchrotron radiation)

Workshop on "Layered Materials"

INDABA 5 Conference

Pacificchem 2005 (Symposium on Synchrotron Radiation Research in the Pacific Rim: Emerging Techniques and Applications)

APPENDIX 2

NEW OPEN-ACCESS JOURNAL

Introduction

A number of larger publishers are publishing or starting to publish open-access peer-reviewed journals that cover a wide subject area. For example, the Public Library of Science publishes **PLoS ONE** (<http://www.plosone.org/>), which covers all disciplines within science and medicine; the Nature Publishing Group will launch **Scientific Reports** (<http://www.nature.com/srep/>) in June 2011, which will cover biology, chemistry, the earth sciences and physics; the American Physical Society will launch **Physical Review X** (<http://prx.aps.org/>) in autumn 2011, which will cover all fields of physics; Wiley-VCH and ChemPubSoc Europe are to launch an open access chemistry journal, **ChemistryOpen**; and the Royal Society has plans for an journal entitled **Open Biology**. **PLoS ONE** is the original journal of this type and has quickly grown to be the largest open-access journal with about 6000 articles published in 2010. The emphasis in these journals is to publish all papers in their field that are scientifically correct and show scientific rigour, *i.e.* without impact considerations.

The above approach fits closely with the aim of the IUCr to serve the crystallographic community with good quality papers that are not necessarily highly cited and provides an alternative model for moving IUCr journals to open access. A new journal with the remit of covering the diffraction sciences as a whole, if it took off, might allow us to gracefully transition our journals to open access. It would also help to stop the crystallographic literature dissipating across high-profile open-access journals such as those mentioned above.

Planning of the new journal would take 6-12 months, so a launch could be timed to coincide with the International Year of Crystallography.

Viewpoint of Wiley-Blackwell

As the new journal would to some extent compete with our existing journals, we would need to discuss the idea with Wiley-Blackwell and get their feedback. We could possibly offer Wiley a proportion of the revenue if they collaborated with the IUCr on the publication of the journal and if such an arrangement allowed a reasonable author fee to be charged.

Objectives of the journal

The detailed objectives of the journal would need to be agreed with the editor(s) and editorial board.

(a) The journal should:

- Encourage the presentation of crystallographic results in the public domain
- Stop the dissipation of articles in the field of crystallography across multiple journals
- Serve the community by providing good quality, but not necessarily highly cited articles
- Maximise the publication of crystallographic results and data, and encourage the availability of such data through the crystallographic databases
- Provide academic recognition for scientists who generate such results
- Have reasonable author fees

(b) The journal should have:

- Clearly defined scope
- Clearly defined standards of scientific quality
- Clearly defined minimum requirements for information content, including structural data

(c) The journal should be wholly electronic with respect to:

- Submission
- Refereeing and handling
- Publication and dissemination

(d) The new journal should be:

- Simple for contributors to use
- A refereed primary source
- Citable and be covered by major secondary (abstracting) publications
- Launched in a way that associates it strongly with the IUCr so that contributors can be easily attracted.

(e) The new journal should:

- Offer rapid publication
- Explore new models of publication
- Develop those models in line with technological advances
- Promote open-access publication

Format and content

A title would need to be agreed for the journal. A title outside the Acta Crystallographica series might allow an extended scope for the journal.

The journal would include articles reporting new research findings. In addition, the contents listings might also include links to open-access articles published in other IUCr journals (Acta E articles would be need to be excluded or have a single link, otherwise they would dominate such contents listings).

To allow automation, and keep costs low, all contributions should be prepared to a simple well defined format. The length of the papers will need to be determined in discussion with the Editorial Board, but it is expected that a notional limit would be set for each paper type.

The presentation of the journal should be similar to other IUCr journals, and should provide:

- Journal home page, reader and author services, and related pages
- Tables of Contents
- Papers in HTML and PDF
- Access to supplementary data
- Presentation of multimedia supplements supplied by authors
- Links to structural databases
- Links to bibliographic databases
- Semantic linking
- Citation metrics

Editorial board

A small editorial board, together with a review board with 30-40 members, may be sufficient to launch the journal. It would be reasonable to expect that there would be some overlap between the Editorial Board and those of current IUCr journals.

Payment arrangements

The journal should use the same payment principles and arrangements as Acta E:

- There should be no fee for submission of an article for peer review, otherwise quick rejection of clearly inappropriate papers might be difficult for Co-editors.
- The fee should only be payable when a paper is accepted for publication.
- Authors should be asked to confirm that they can pay for open access or have a waiver before submission.
- Articles should only be published once a payment has been received
- Fees should only be waived for authors from developing countries who apply for the fees to be waived.
- Members of the Commission on Journals should receive a discount of 20% against the individual article fee for submissions where they are the corresponding author.

Licence

Articles should be published under a Creative Commons attribution licence.

Archiving

The Bethesda Statement on Open Access Publishing notes that one condition for an open-access publication is that

"A complete version of the work and all supplemental materials, including a copy of the permission as stated above, in a suitable standard electronic format is deposited immediately upon initial publication in at least one online repository that is supported by an academic institution, scholarly society, government agency, or other well-established organization that seeks to enable open access, unrestricted distribution, interoperability, and long-term archiving (for the biomedical sciences, PubMed Central is such a repository)."

The IUCr will therefore need to make arrangements to deposit copies of the articles in public archives on behalf of the authors/Funding Agencies.

Business plan

Market research

A questionnaire setting out the background above, and asking if recipients (*a*) support the initiative, and (*b*) would actually publish in the open-access journal, needs to be sent out to prospective authors. Recipients should be selected on the basis of recent publication records in IUCr journals and other relevant journals.

Production costs

Review costs can be calculated on the basis of the known costs for journals with a similar profile. Production costs will need to be calculated once detailed work has been done on production methods.

Author fee

This should be set to be competitive with similar journals. This would suggest a fee in the range USD 1000 to USD 1200 for a full length paper, *i.e.* 8 pages. Pricing based on article length, or on article type (*e.g.* full and short papers), should also be considered. It might be necessary in the first one or two years to have reduced author fees to ensure the good flow of articles needed to obtain an ISI listing.

Income

We should plan to have at least a 10% margin of income over expenditure.

Marketing

A full marketing plan should be prepared in time for the August 2011 EC meeting. Marketing would be to all authors of current IUCr journals and leading authors of competitor journals.

Timescale

It is recommended that the journal is published from January 2013 (or later in 2013) to coincide with the International Year of Crystallography. An announcement of the launch should be made no later than April 2012 to allow sufficient articles to be submitted and reviewed in time for the launch. At least 10 articles should have been commissioned for the first issue before the journal is announced.

IUCr FC/EC decisions

- March 2011 – discussion at FC meeting; preliminary discussion with Wiley-Blackwell
- August 2011 EC meeting - provisional go ahead
- Summer/Autumn 2011 - appointment of editorial advisers or main editor(s)
- September 2011-January 2012 - invitation of editors and review board
- March 2012 FC meeting with EC vote immediately afterwards - final recommendation to launch journal; approval of editors

Editorial/production matters

- Summer/Autumn 2011 – determination of production method and costs; consultation with Commission on Journals
- Winter 2011 – preparation of Notes for Authors; possible meeting of editorial advisers/editors to finalise plans for journal format and content
- Spring 2012 – commissioning of articles for launch issue
- Summer 2012 - initial application to ISI for coverage of the new journal; submission of first papers
- December 2012 - first papers to be published

Questionnaire

- September 2011 - preparation of questionnaire
- Autumn 2011 - circulation of questionnaire
- November 2011 - collation of results