

Chapter 5 Publications

This Chapter summarizes the publications at SPring-8: Refereed Papers (Refereed Journal, Refereed Proceeding and doctoral dissertation), Proceedings, Review (Review and Journal article) Invited Talks, Patents (Include patent pending) and Awards.

Table 5-1 Summary of publications (May 31, 2008)

Beamline		Journals				Talks	Others		First Beam
		Total	Ref. P.	Proc.	Review	Invited	Patent	Award	
Public Beamlines									
BL01B1	XAFS	277	218	38	21	15	5	2	Oct. 1997
BL02B1	Single Crystal Structure Analysis	111	87	11	13	17	0	0	Oct. 1997
BL02B2	Powder Diffraction	303	259	13	31	29	3	5	Sep. 1999
BL04B1	High Temperature and High Pressure	136	106	8	22	16	0	1	Oct. 1997
BL04B2	High Energy X-ray Diffraction	144	119	6	19	12	0	0	Sep. 1999
BL08W	High Energy Inelastic Scattering	115	94	6	15	45	3	7	Oct. 1997
BL09XU	Nuclear Resonant Scattering	91	69	14	8	17	0	2	Oct. 1997
BL10XU	High Pressure Research	222	183	13	26	10	2	1	Oct. 1997
BL13XU	Surface and Interface Structures	82	66	7	9	11	8	0	Sep. 2001
BL19B2	Engineering Science Research I	106	69	28	9	6	3	10	Nov. 2001
BL20XU	Medical and Imaging II	86	49	25	12	15	1	7	Sep. 2001
BL20B2	Medical and Imaging I	177	103	46	28	28	2	7	Sep. 1999
BL25SU	Soft X-ray Spectroscopy of Solid	198	182	3	13	57	0	9	Apr. 1998
BL27SU	Soft X-ray Photochemistry	195	178	11	6	42	0	0	May 1998
BL28B2	White Beam X-ray Diffraction	68	44	13	11	7	1	0	Sep. 1999
BL35XU	High Resolution Inelastic Scattering	55	46	5	4	11	0	0	Sep. 2001
BL37XU	Trace Element Analysis	68	46	8	14	3	0	4	Nov. 2002
BL38B1	Structural Biology III	147	132	10	5	6	1	2	Oct. 2000
BL39XU	Magnetic Materials	149	106	11	32	26	0	3	Oct. 1997
BL40XU	High Flux	82	52	9	21	35	0	0	Apr. 2000
BL40B2	Structural Biology II	220	189	11	20	19	3	6	Sep. 1999
BL41XU	Structural Biology I	343	316	2	25	43	1	2	Oct. 1997
BL43IR	Infrared Materials Science	63	43	10	10	0	0	2	Apr. 2000
BL46XU	Engineering Science Research III	50	37	9	4	2	1	0	Nov. 2000
BL47XU	HXPES • MCT	197	122	46	29	51	2	12	Oct. 1997

Beamline	Journals				Talks	Others		First Beam	
	Total	Ref. P.	Proc.	Review	Invited	Patent	Award		
RIKEN Beamlines									
BL17SU	Coherent Soft X-ray Spectroscopy	30	24	5	1	2	0	0	Sep. 2003
BL19LXU	SR Physics	66	54	4	8	16	0	1	Feb. 2002
BL26B1	Structural Genomics I	113	100	1	12	2	0	0	Feb. 2003
BL26B2	Structural Genomics II	35	27	1	7	0	0	0	Jun. 2003
BL29XU	Coherent X-ray Optics	115	88	14	13	28	0	0	Feb. 2002
BL44B2	Structural Biology II	187	173	2	12	3	0	0	May 1998
BL45XU	Structural Biology I	239	194	9	36	13	1	1	Oct. 1997
Contract Beamlines									
BL11XU	Quantum Dynamics	62	54	4	4	4	0	0	Mar. 1999
BL12XU	NSRRC ID	21	17	4	0	0	0	0	Feb. 2003
BL12B2	NSRRC BM	67	67	0	0	0	0	0	Sep. 2001
BL14B1	Materials Science	97	65	8	24	16	4	1	Apr. 1998
BL15XU	WEBRAM	91	70	13	8	12	0	1	Apr. 2001
BL16XU	Industrial Consortium ID	33	17	5	11	5	1	4	Sep. 1999
BL16B2	Industrial Consortium BM	44	24	8	12	5	2	0	Sep. 1999
BL22XU	Quantum Structural Science	30	27	1	2	0	0	12	May 2002
BL23SU	Actinide Science	137	98	20	19	21	0	0	Jun. 1998
BL24XU	Hyogo ID	137	102	13	22	14	7	3	Oct. 1998
BL32B2	Pharmaceutical Industry	15	13	0	2	0	0	0	Sep. 2002
BL33LEP	Laser-Electron Photon	37	13	22	2	17	0	1	Oct. 2000
BL44XU	Macromolecular Assemblies	139	123	0	16	14	0	1	Feb. 2000
Accelerator Beamlines									
BL05SS	Accelerator Beam Diagnosis	0	0	0	0	0	0	0	Mar. 2004
BL38B2	Accelerator Beam Diagnosis	1	1	0	0	0	0	0	Jan. 2000
Hardware/Software R&D									
Instruments & Technique		113	66	32	15	14	0	0	
Optics		68	47	12	9	10	0	2	
Control		21	15	5	1	2	0	0	
Front End		16	12	4	0	1	0	0	
Insertion Device		63	47	11	5	0	1	0	
Accelerator		424	105	303	16	15	3	0	
General		87	17	10	60	22	0	0	
Theory		7	7	0	0	1	0	0	
Others		3	3	0	0	1	17	0	
Total (with multiple count)		6183	4585	874	724	761	72	109	
Total (Net)		5218	3919	758	541	603	58	14	

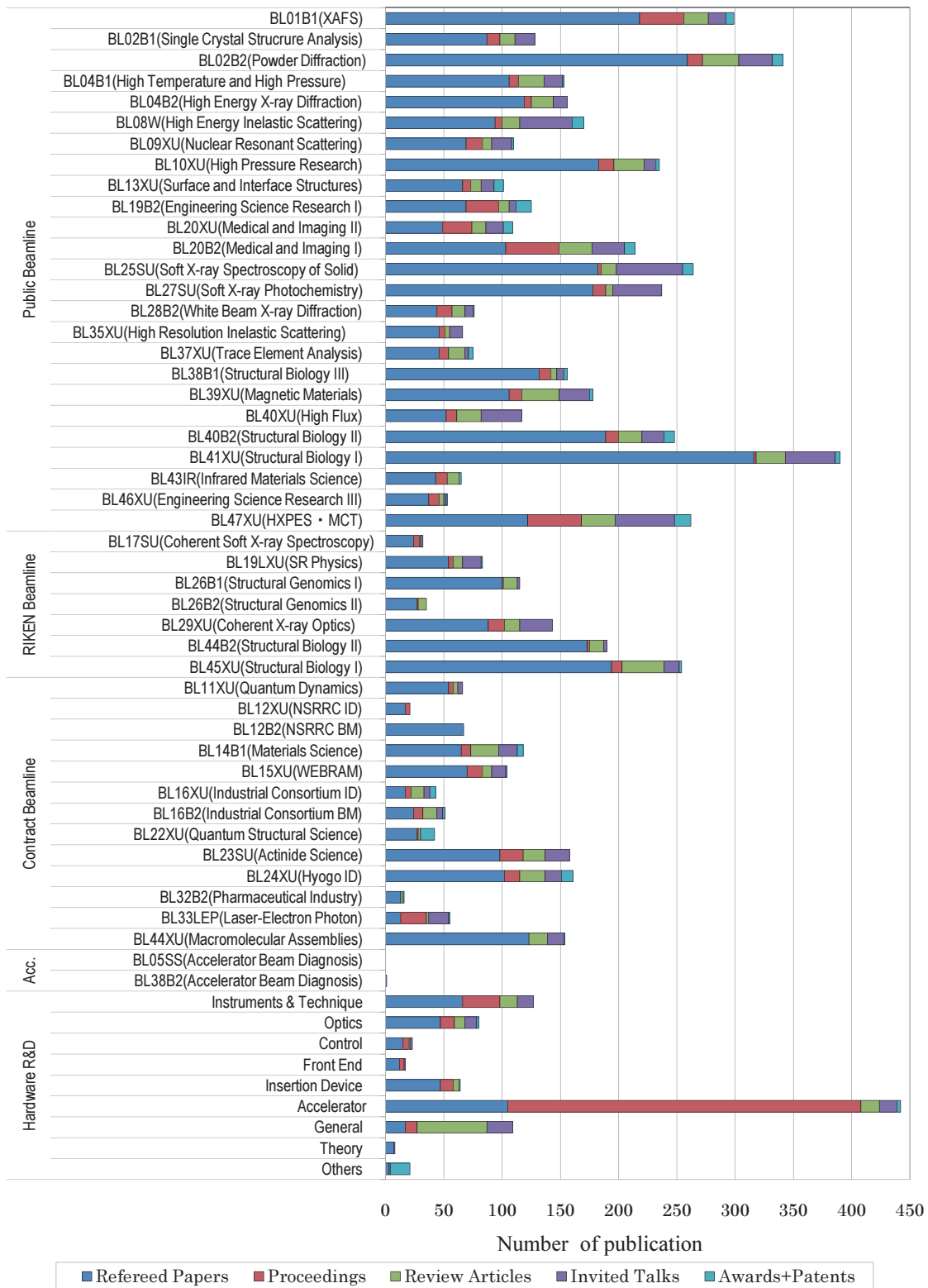


Figure 5-1 Summary of publications (May 31, 2008)

Table 5-2 Publications of refereed papers (May 31, 2008)

Beamline		~1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total
Public Beamlines														
BL01B1	XAFS	0	0	15	17	34	24	18	18	28	34	21	8	217
BL02B1	Single Crystal Structure Analysis	0	2	5	3	9	15	15	10	10	9	6	3	87
BL02B2	Powder Diffraction	0	0	0	13	26	35	48	43	36	27	26	5	259
BL04B1	High Temperature and High Pressure	0	3	4	9	13	17	8	23	11	8	9	1	106
BL04B2	High Energy X-ray Diffraction	0	0	0	0	6	15	8	18	12	20	35	5	119
BL08W	High Energy Inelastic Scattering	2	5	0	4	14	5	10	9	10	18	14	3	94
BL09XU	Nuclear Resonant Scattering	0	0	5	5	4	10	13	7	6	8	8	3	69
BL10XU	High Pressure Research	0	2	10	12	20	21	19	21	28	15	27	8	183
BL13XU	Surface and Interface Structures	0	0	0	0	0	0	7	12	20	14	12	2	67
BL19B2	Engineering Science Research	0	0	0	0	0	0	6	14	20	17	7	4	68
BL20XU	Medical and Imaging II	0	0	0	0	0	2	13	4	7	6	11	6	49
BL20B2	Medical and Imaging I	0	0	0	5	14	16	12	25	11	12	7	1	103
BL25SU	Soft X-ray Spectroscopy of Solid	0	2	6	14	17	23	13	30	36	15	24	2	182
BL27SU	Soft X-ray Photochemistry	0	3	2	8	10	19	17	24	43	33	16	4	179
BL28B2	White Beam X-ray Diffraction	0	0	0	1	1	1	9	7	8	6	9	2	44
BL35XU	High Resolution Inelastic Scattering	0	0	0	1	2	0	5	8	5	3	13	9	46
BL37XU	Trace Element Analysis	0	0	0	0	0	0	1	12	11	9	11	2	46
BL38B1	Structural Biology III	0	0	0	0	1	4	13	25	31	37	18	3	132
BL39XU	Magnetic Materials	0	4	8	7	18	5	11	16	10	10	15	2	106
BL40XU	High Flux	0	0	1	1	3	3	3	9	9	11	11	1	52
BL40B2	Structural Biology II	0	0	0	1	16	24	30	31	30	27	26	4	189
BL41XU	Structural Biology I	1	1	13	14	21	30	35	49	53	51	41	6	315
BL43IR	Infrared Materials Science	0	0	0	0	5	1	5	6	10	5	5	6	43
BL46XU	Engineering Science Research III	0	0	0	1	0	3	6	3	8	10	4	2	37
BL47XU	HXPES • MCT	0	2	4	9	13	9	6	16	25	19	14	5	122
RIKEN Beamlines														
BL17SU	RIKEN Coherent Soft-Xray Spectroscopy	0	0	0	0	0	0	0	2	5	4	7	6	24
BL19LXU	RIKEN SR Physics	0	1	0	0	4	3	2	12	9	13	12	0	56
BL26B1	RIKEN Structural Genomics I	0	0	0	0	0	0	2	18	35	22	19	5	101
BL26B2	RIKEN Structural Genomics II	0	0	0	0	0	0	1	5	4	6	6	5	27
BL29XU	RIKEN Coherent X-ray Optics	0	0	0	2	15	9	19	12	13	8	7	3	88
BL44B2	RIKEN Structural Biology II	0	0	5	13	21	22	30	24	21	16	18	3	173
BL45XU	RIKEN Structural Biology I	1	2	5	19	22	19	30	29	20	21	24	2	194

Beamline	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total	
Contract Beamlines														
BL11XU	JAERI Materials Science II	0	1	1	3	3	5	6	8	7	8	11	1	54
BL12XU	NSRRC ID	0	0	0	0	0	0	1	0	5	5	6	0	17
BL12B2	NSRRC BM	0	0	0	0	1	3	16	20	22	3	2	0	67
BL14B1	JAERI Materials Science I	0	2	0	4	6	16	10	8	7	6	7	0	66
BL15XU	WEBRAM	0	0	0	0	2	15	9	6	5	17	11	5	70
BL16XU	Industrial Consortium ID	0	0	0	1	1	1	1	4	4	4	1	0	17
BL16B2	Industrial Consortium BM	0	0	0	0	9	3	1	1	2	7	1	0	24
BL22XU	JAERI Actinide Science II	0	0	0	0	0	0	0	1	4	15	7	0	27
BL23SU	JAERI Actinide Science I	0	2	1	3	15	12	15	15	9	14	13	0	99
BL24XU	Hyogo ID	0	2	3	13	21	18	12	11	8	6	6	2	102
BL32B2	Pharmaceutical Industry	0	0	0	0	0	0	0	6	3	2	2	0	13
BL33LEP	Laser-Electron Photon	0	2	2	3	3	2	1	0	0	0	0	0	13
BL44XU	Macromolecular Assemblies	0	0	0	0	1	9	11	18	25	33	22	4	123
Accelerator Beamlines														
BL05SS	Accelerator Beam Diagnosis	0	0	0	0	0	0	0	0	0	0	0	0	0
BL38B2	Accelerator Beam Diagnosis	0	0	0	0	0	0	0	0	0	0	1	0	1
Hardware/Software R&D														
Instruments & Technique		0	1	4	4	16	7	13	5	5	8	3	0	66
Optics		0	5	1	0	17	5	7	4	6	2	0	0	47
Control		4	1	1	0	7	0	0	0	1	0	1	0	15
Front End		2	6	0	0	2	0	0	0	0	0	0	2	12
Insertion Device		7	15	1	4	10	5	2	2	1	0	0	0	47
Accelerator		51	7	7	4	10	2	2	8	4	8	2	0	105
General		0	3	2	0	6	0	1	1	0	3	1	0	17
Theory		1	0	0	0	0	1	1	2	1	0	0	1	7
Others		0	0	1	0	1	0	0	0	0	1	0	0	3
Total (with multiple count)		69	2072	2106	2198	2441	2441	2527	2666	2709	2662	2587	2144	4589
Total (Net)		63	60	99	183	370	372	438	568	605	543	501	117	3919

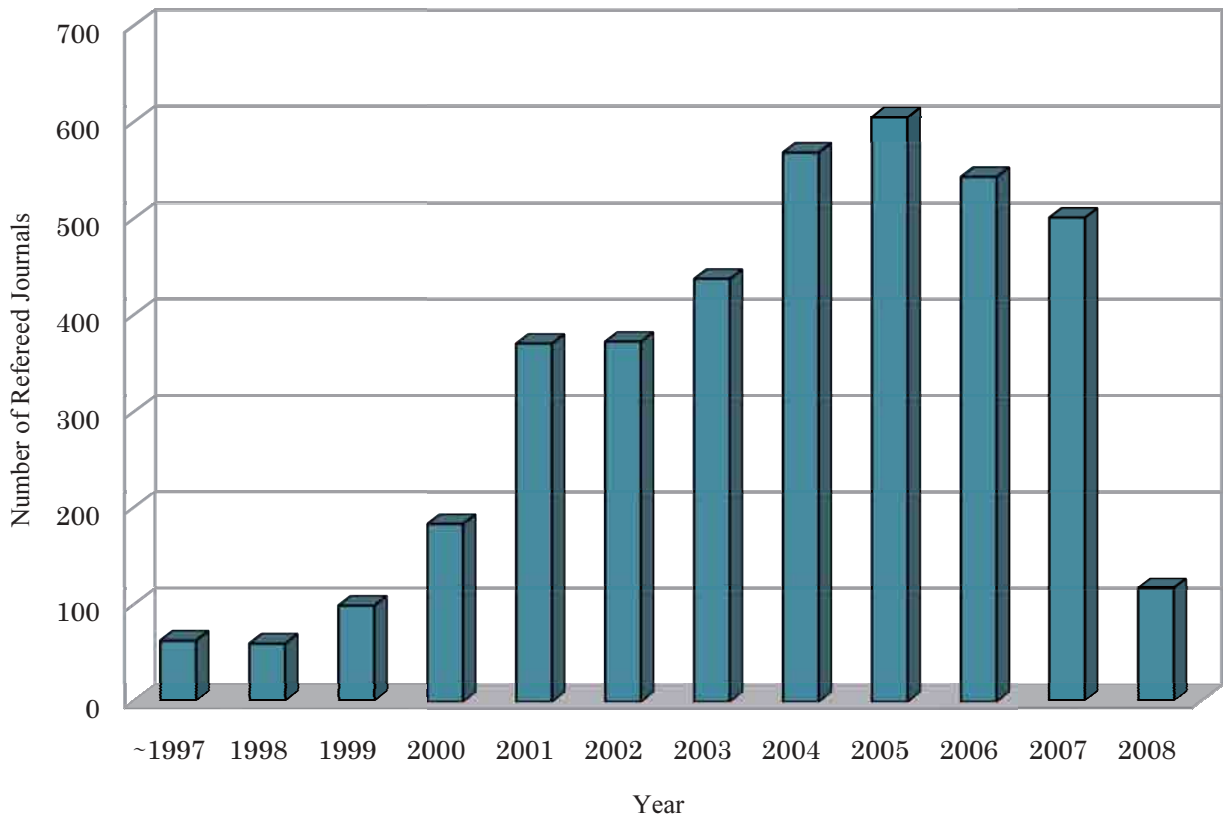


Figure 5-2 Total publications in refereed papers (May 31, 2008)

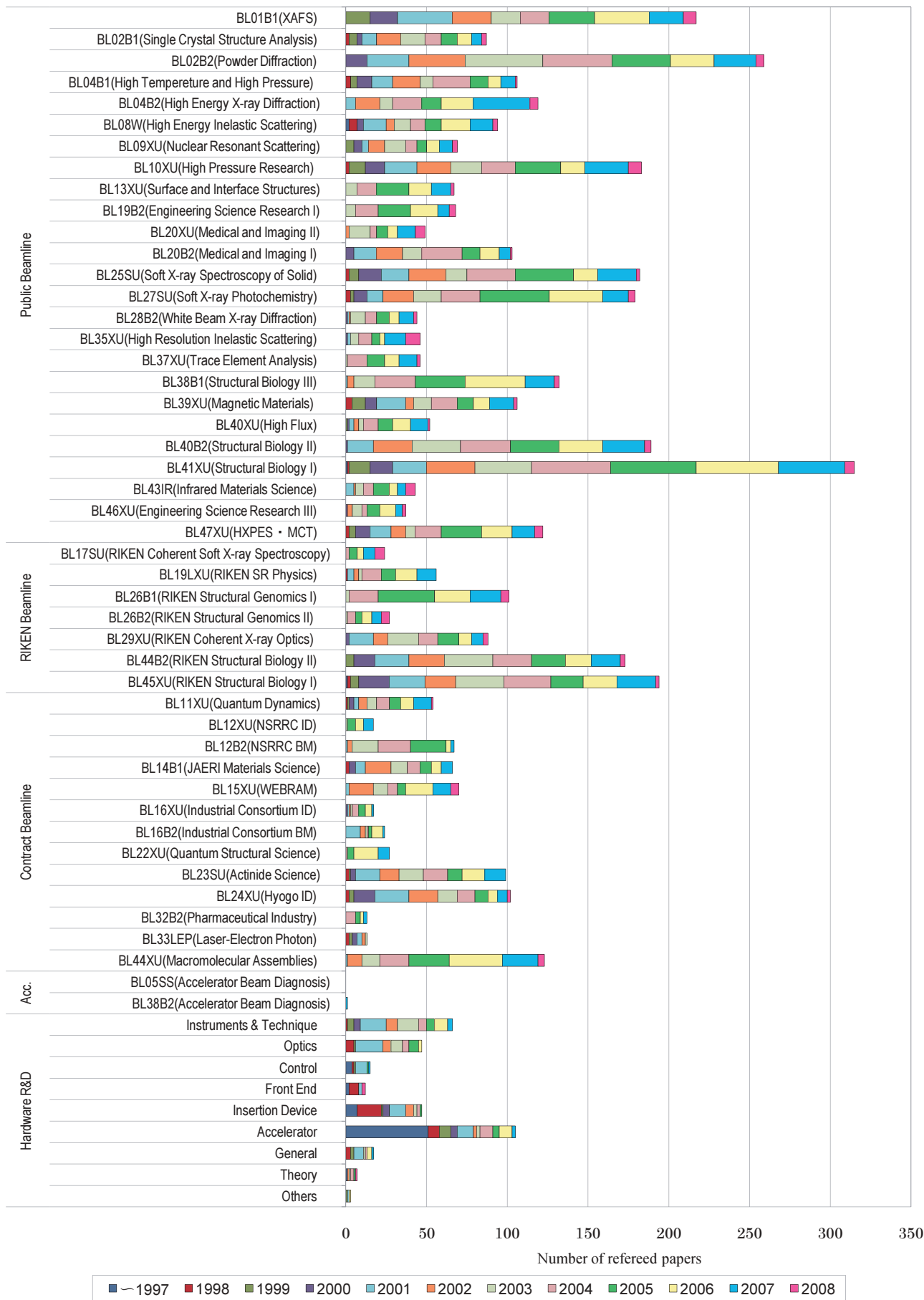


Figure 5-3 Publication of refereed papers (May 31, 2008)

Table5-3 Number of publications in journals

Journals	No. of J.
Nature	39
<i>Research Disciplines</i>	
<i>Nature Structural Biology / Nature Structural and Molecular Biology</i>	21
<i>Nature Materials</i>	8
<i>Nature Physics</i>	2
Science	20
Cell	13
The EMBO Journal	23
Proceedings of the National Academy of Sciences of the United States of America	53
The Journal of Biological Chemistry	103
Journal of Molecular Biology	119
Structure	37
Physical Review	97
<i>Letters</i>	
<i>A, B, C, E, Special Topics - Accelerator and Beams</i>	283
Journal of Physics: Condensed Matter	65
Journal of the Physical Society of Japan	121
The Journal of Physical Chemistry B	25
Journal of the American Chemical Society	31
Angewandte Chemie International Edition	22
Chemical Physics Letters	29
Chemical Communications	11
Journal of Applied Physics	58
Applied Physics Letters	66
Japanese Journal of Applied Physics / Applied Physics Express	145
Geophysical Research Letters	21
Earth and Planetary Science Letters	12
Physics of the Earth and Planetary Interiors	19
Review of Scientific Instruments	60
Journal of Synchrotron Radiation	166
Nuclear Instruments and Methods in Physics Research	190
<i>Section A, B</i>	
Acta Crystallographica	255
<i>Section A, B, C, D, E, F</i>	
Doctor Theses	53
Others	1752
TOTAL	3919