

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, 2005)

Beamline		Journals				Talks	Others		Use Since
		Total	Ref. P.	Proc.	Review	Invited	Patent	Award	
Public Beamlines									
BL01B1	XAFS	168	130	28	10	4	4	1	Oct. 1997
BL02B1	Single Crystal Structure Analysis	77	59	10	8	14	0	0	Oct. 1997
BL02B2	Powder Diffraction	190	160	10	20	26	3	1	Sep. 1999
BL04B1	High Temperature and High Pressure	107	80	7	20	16	0	0	Oct. 1997
BL04B2	High Energy X-ray Diffraction	67	50	5	12	10	0	0	Sep. 1999
BL08W	High Energy Inelastic Scattering	67	49	6	12	44	1	5	Oct. 1997
BL09XU	Nuclear Resonant Scattering	64	47	11	6	8	0	0	Oct. 1997
BL10XU	High Pressure Research	135	114	6	15	8	2	0	Oct. 1997
BL13XU	Surface and Interface Structures	32	27	3	2	6	8	0	Sep. 2001
BL19B2	Engineering Science Research	35	20	13	2	1	2	2	Nov. 2001
BL20XU	Medical and Imaging II	29	18	8	3	9	1	0	Sep. 2001
BL20B2	Medical and Imaging I	121	68	33	20	14	2	1	Sep. 1999
BL25SU	Soft X-ray Spectroscopy of Solid	120	107	1	12	54	0	7	Apr. 1998
BL27SU	Soft X-ray Photochemistry	89	76	8	5	34	0	0	May 1998
BL28B2	White Beam X-ray Diffraction	34	21	7	6	1	1	0	Sep. 1999
BL35XU	High Resolution Inelastic Scattering	18	15	1	2	10	0	0	Sep. 2001
BL37XU	Trace Element Analysis	17	14	0	3	0	0	0	Nov. 2002
BL38B1	R&D (3)	50	42	3	5	6	1	1	Oct. 2000
BL39XU	Magnetic Materials	98	68	6	24	22	0	3	Oct. 1997
BL40XU	High Flux	43	25	5	13	24	0	0	Apr. 2000
BL40B2	Structural Biology II	120	102	4	14	23	2	2	Sep. 1999
BL41XU	Structural Biology I	169	151	2	16	11	1	0	Oct. 1997
BL43IR	Infrared Materials Science	33	20	10	3	0	0	1	Apr. 2000
BL46XU	R&D (2)	19	16	2	1	0	1	0	Nov. 2000
BL47XU	R&D (1)	95	60	20	15	17	1	1	Oct. 1997

Beamline		Journals				Talks	Others		First Beam
		Total	Ref. P.	Proc.	Review	Invited	Patent	Award	
JAERI Beamlines									
BL11XU	JAERI Materials Science II	32	29	2	1	0	0	0	Mar. 1999
BL14B1	JAERI Materials Science I	57	37	5	15	14	4	1	Apr. 1998
BL22XU	JAERI Actinide Science II	1	1	0	0	0	0	0	May 2002
BL23SU	JAERI Actinide Science I	89	65	13	11	15	0	0	Jun. 1998
RIKEN Beamlines									
BL17SU	RIKEN Coherent Soft X-ray Spectroscopy	4	4	0	0	0	0	0	Sep. 2003
BL19LXU	RIKEN SR Physics	25	18	3	4	26	0	1	Feb. 2002
BL26B1	RIKEN Structural Genomics I	16	11	1	4	2	0	0	Feb. 2003
BL26B2	RIKEN Structural Genomics II	8	5	1	2	0	0	0	Jun. 2003
BL29XU	RIKEN Coherent X-ray Optics	75	57	12	6	17	0	0	Feb. 2002
BL44B2	RIKEN Structural Biology II	105	96	2	7	0	0	0	May 1998
BL45XU	RIKEN Structural Biology I	145	116	9	20	9	1	0	Oct. 1997
Contract Beamlines									
BL12XU	NSRRC ID	6	2	4	0	0	0	0	Feb. 2003
BL12B2	NSRRC BM	16	16	0	0	0	0	0	Sep. 2001
BL15XU	WEBRAM	20	16	1	3	2	0	0	Apr. 2001
BL16XU	Industrial Consortium ID	19	10	3	6	4	1	0	Sep. 1999
BL16B2	Industrial Consortium BM	27	14	7	6	1	1	0	Sep. 1999
BL24XU	Hyogo ID	105	79	10	16	13	7	0	Oct. 1998
BL32B2	Pharmaceutical Industry	7	6	0	1	0	0	0	Sep. 2002
BL33LEP	Laser-Electron Photon	37	13	22	2	17	0	1	Oct. 2000
BL44XU	Macromolecular Assemblies	41	31	0	10	6	0	0	Feb. 2000
Accelerator Beamline									
BL05SS	Accelerator Beam Diagnosis	0	0	0	0	0	0	0	Mar. 2004
BL38B2	Accelerator Beam Diagnosis	1	0	1	0	0	0	0	Jan. 2000
Hardware/Software R&D									
Instruments & Technique		84	46	27	11	11	0	0	
Optics		53	38	9	6	6	0	2	
Control		19	13	5	1	0	0	0	
Front End		17	10	7	0	1	0	0	
Insertion Device		63	47	10	6	0	1	0	
Accelerator		393	92	289	12	14	3	0	
General		63	13	10	40	15	0	0	
Theory		5	5	0	0	0	0	0	
Others		2	2	0	0	0	17	0	
Total (with multiple count)		3532	2431	662	439	535	65	30	
Total (Net)		2989	2075	586	328	426	58	14	

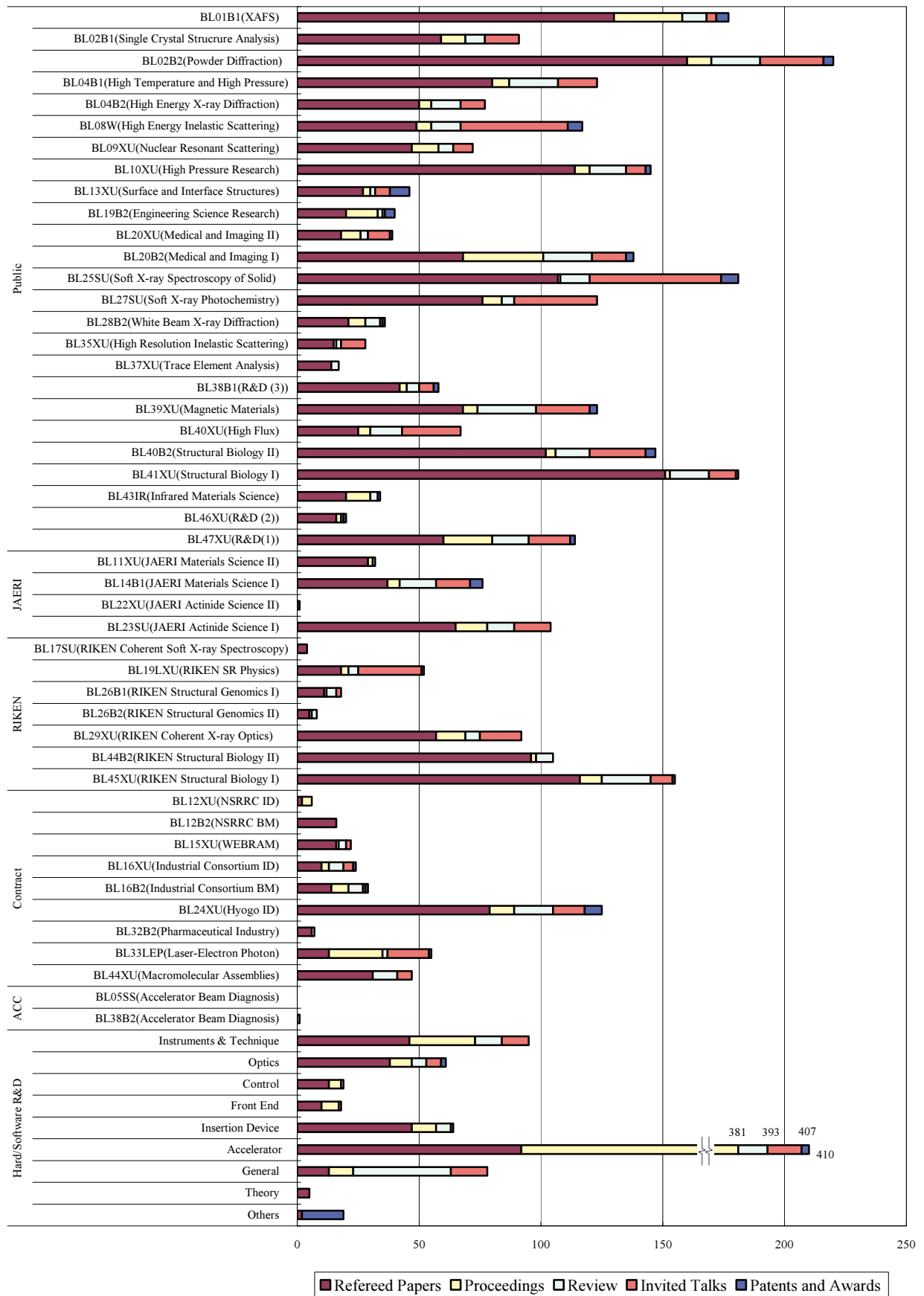


Figure 5-1 Summary of publications (May 31, 2005)

Table 5-2 Publications of refereed papers (May 31, 2005)

Beamline		~1997	1998	1999	2000	2001	2002	2003	2004	2005	Total
Public Beamlines											
BL01B1	XAFS	0	0	15	17	34	24	17	15	8	130
BL02B1	Single Crystal Structure Analysis	0	2	5	3	9	15	15	9	1	59
BL02B2	Powder Diffraction	0	0	0	15	26	35	47	32	5	160
BL04B1	High Temperature and High Pressure	0	3	4	9	13	17	9	21	4	80
BL04B2	High Energy X-ray Diffraction	0	0	0	0	6	15	8	17	4	50
BL08W	High Energy Inelastic Scattering	2	5	0	4	14	5	10	7	2	49
BL09XU	Nuclear Resonant Scattering	0	0	5	5	4	10	13	5	5	47
BL10XU	High Pressure Research	0	2	10	12	21	21	20	16	12	114
BL13XU	Surface and Interface Structures	0	0	0	0	0	0	7	11	9	27
BL19B2	Engineering Science Research	0	0	0	0	0	0	4	11	5	20
BL20XU	Medical and Imaging II	0	0	0	0	0	2	12	4	0	18
BL20B2	Medical and Imaging I	0	0	0	4	14	16	12	21	1	68
BL25SU	Soft X-ray Spectroscopy of Solid	0	2	6	14	17	23	13	29	3	107
BL27SU	Soft X-ray Photochemistry	0	3	2	8	10	19	14	14	6	76
BL28B2	White Beam X-ray Diffraction	0	0	0	1	1	1	9	7	2	21
BL35XU	High Resolution Inelastic Scattering	0	0	0	1	2	0	5	6	1	15
BL37XU	Trace Element Analysis	0	0	0	0	0	0	1	11	2	14
BL38B1	R&D (3)	0	0	0	0	1	3	13	17	8	42
BL39XU	Magnetic Materials	0	4	8	7	18	5	11	13	2	68
BL40XU	High Flux	0	0	1	0	3	3	3	9	6	25
BL40B2	Structural Biology II	0	0	0	1	15	23	29	27	7	102
BL41XU	Structural Biology I	1	1	13	14	20	28	33	32	9	151
BL43IR	Infrared Materials Science	0	0	0	0	5	1	5	6	3	20
BL46XU	R&D (2)	0	0	0	1	0	3	6	3	3	16
BL47XU	R&D (1)	0	2	4	9	13	8	5	11	8	60
JAERI Beamlines											
BL11XU	JAERI Materials Science II	0	1	1	3	3	5	6	7	3	29
BL14B1	JAERI Materials Science I	0	2	0	4	6	15	6	4	0	37
BL22XU	JAERI Actinide Science II	0	0	0	0	0	0	0	1	0	1
BL23SU	JAERI Actinide Science I	0	2	1	3	15	12	14	12	6	65

Beamline		~1997	1998	1999	2000	2001	2002	2003	2004	2005	Total
RIKEN Beamlines											
BL17SU	RIKEN Coherent Soft-Xray Spectroscopy	0	0	0	0	0	0	0	1	3	4
BL19LXU	RIKEN SR Physics	0	1	0	0	4	3	2	8	0	18
BL26B1	RIKEN Structural Genomics I	0	0	0	0	0	0	1	5	5	11
BL26B2	RIKEN Structural Genomics II	0	0	0	0	0	0	1	4	0	5
BL29XU	RIKEN Coherent X-ray Optics	0	0	0	2	15	9	18	11	2	57
BL44B2	RIKEN Structural Biology II	0	0	3	13	21	21	21	15	0	94
BL45XU	RIKEN Structural Biology I	1	2	5	19	22	16	26	21	4	116
Contract Beamlines											
BL12XU	NSRRC ID	0	0	0	0	0	0	1	0	1	2
BL12B2	NSRRC BM	0	0	0	0	1	3	11	1	0	16
BL15XU	WEBRAM	0	0	0	0	2	10	2	2	0	16
BL16XU	Industrial Consortium ID	0	0	0	1	1	1	1	4	2	10
BL16B2	Industrial Consortium BM	0	0	0	0	9	3	1	1	0	14
BL24XU	Hyogo ID	0	2	3	13	21	17	11	11	1	79
BL32B2	Pharmaceutical Industry	0	0	0	0	0	0	0	5	1	6
BL33LEP	Laser-Electron Photon	0	2	2	3	3	2	1	0	0	13
BL44XU	Macromolecular Assemblies	0	0	0	0	1	9	9	10	2	31
Accelerator Beamline											
BL05SS	Accelerator Beam Diagnosis	0	0	0	0	0	0	0	0	0	0
BL38B2	Accelerator Beam Diagnosis	0	0	0	0	0	0	0	0	0	0
Hardware/Software R&D											
Instruments & Technique		0	1	4	3	16	6	10	5	1	46
Optics		0	5	1	0	17	5	7	3	0	38
Control		4	1	1	0	7	0	0	0	0	13
Front End		2	6	0	0	2	0	0	0	0	10
Insertion Device		7	15	1	4	10	5	2	2	1	47
Accelerator		51	7	7	4	10	2	2	8	1	92
General		0	3	2	0	6	0	1	1	0	13
Theory		1	0	0	0	0	1	1	2	0	5
Others		0	0	1	0	1	0	0	0	0	2
Total (with multiple count)		69	74	105	197	439	422	476	498	149	2429
Total (Net)		64	60	98	181	369	355	394	427	127	2075

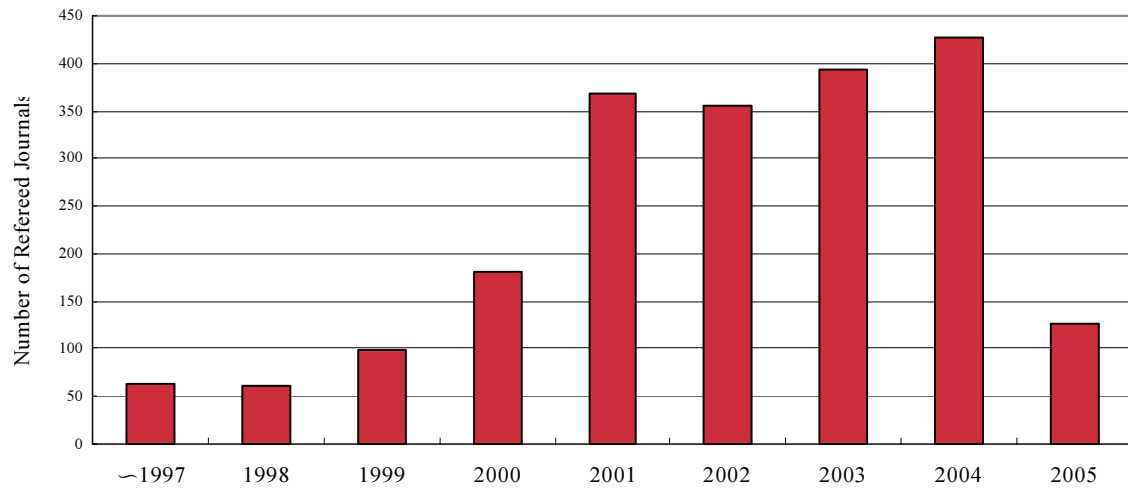


Figure 5-2 Total publications in refereed papers (May 31, 2005)

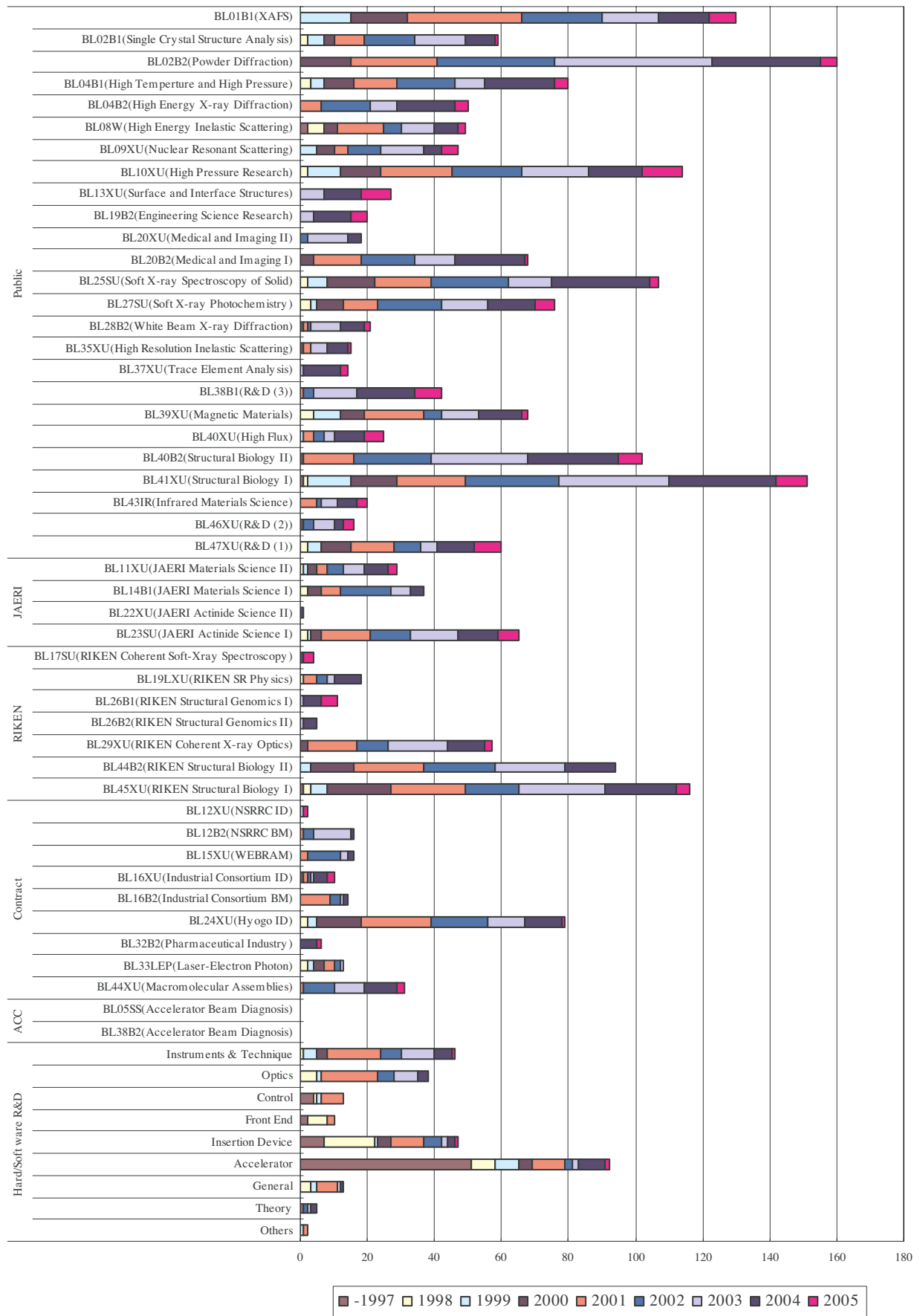


Figure 5-3 Publication of referred papers (May 31, 2005)

Table 5-3 Number of publications in journals

Journals		No. of J.
Nature		23
Research Disciplines	<i>Nature Structural Biology / Nature Structural and Molecular Biology</i>	12
	<i>Nature Materials</i>	6
Science		11
Cell		7
The EMBO Journal		12
Proceedings of the National Academy of Sciences of the United States of America		24
The Journal of Biological Chemistry		49
Journal of Molecular Biology		40
Structure		24
Physical Review	<i>Letters</i>	56
	<i>A, B, C, E, Special Topics - Accelerator and Beams</i>	147
Journal of Physics: Condensed Matter		43
Journal of the Physical Society of Japan		62
The Journal of Physical Chemistry B		12
Journal of the American Chemical Society		21
Angewandte Chemie International Edition		6
Chemical Physics Letters		12
Chemical Communications		6
Journal of Applied Physics		28
Applied Physics Letters		25
Japanese Journal of Applied Physics		92
Geophysical Research Letters		12
Earth and Planetary Science Letters		4
Physics of the Earth and Planetary Interiors		15
Review of Scientific Instruments		45
Journal of Synchrotron Radiation		144
Nuclear Instruments and Methods in Physics Research	<i>Section A, B</i>	162
Acta Crystallographica	<i>Section A, B, C, D, E, F</i>	104
Doctor Theses		27
Others		844
TOTAL		2075