

Chapter 5 Publications

This Chapter summarizes the publications at SPring-8: Refereed Journal (incl. Refereed Proceedings), Proceedings of International Workshops/Conferences (Proc.), Review Articles (Review), Invited Talks (Invited), and Patents and Awards. Patent includes patent pending.

Table 5-1 Summary of publications (May 31, 2004).

Beamline		Journals				Talks	Others		Use Since
		Total	Ref. J.	Proc.	Review	Invited	Patent	Award	
Public Beamlines									
BL01B1	XAFS	137	110	18	9	4	2	0	October 1997
BL02B1	Single Crystal Structure Analysis	68	51	8	9	13	0	0	October 1997
BL02B2	Powder Diffraction	160	137	6	17	26	3	0	September 1999
BL04B1	High Temperature and High Pressure	81	56	5	20	16	0	0	October 1997
BL04B2	High Energy X-ray Diffraction	50	36	4	10	10	0	0	September 1999
BL08W	High Energy Inelastic Scattering	57	41	4	12	41	1	5	October 1997
BL09XU	Nuclear Resonant Scattering	47	35	9	3	8	0	0	October 1997
BL10XU	High Pressure Research	105	86	7	12	7	2	0	October 1997
BL13XU	Surface and Interface Structures	11	9	0	2	3	3	0	September 2001
BL19B2	Engineering Science Research	12	4	6	2	1	0	0	November 2001
BL20XU	Medical and Imaging II	17	14	1	2	2	0	0	September 2001
BL20B2	Medical and Imaging I	84	49	25	10	12	1	1	September 1999
BL25SU	Soft X-ray Spectroscopy of Solid	87	75	1	11	43	0	4	April 1998
BL27SU	Soft X-ray Photochemistry	64	57	2	5	33	0	0	May 1998
BL28B2	White Beam X-ray Diffraction	28	16	8	4	1	0	0	September 1999
BL35XU	High Resolution Inelastic Scattering	10	8	0	2	10	0	0	September 2001
BL37XU	Trace Element Analysis	2	1	0	1	0	0	0	November 2002
BL39XU	Magnetic Materials	80	57	4	19	8	0	3	October 1997
BL40XU	High Flux	17	10	1	6	7	0	0	April 2000
BL40B2	Structural Biology II	80	68	3	9	7	2	1	September 1999
BL41XU	Structural Biology I	118	105	2	11	5	1	0	October 1997
BL43IR	Infrared Materials Science	23	13	8	2	0	0	0	April 2000
BL38B1	R&D (3)	23	21	0	2	2	0	0	October 2000
BL46XU	R&D (2)	10	10	0	0	0	0	0	November 2000
BL47XU	R&D (1)	67	43	14	10	14	0	0	October 1997

Beamline		Journals				Talks	Others		First Beam
		Total	Ref. J.	Proc.	Review	Invited	Patent	Award	
JAERI Beamlines									
BL11XU	JAERI Materials Science II	20	17	2	1	0	0	0	October 1998
BL14B1	JAERI Materials Science I	48	31	4	13	12	4	1	December 1997
BL22XU	JAERI Actinide Science II	0	0	0	0	0	0	0	May 2002
BL23SU	JAERI Actinide Science I	67	47	11	9	13	0	0	February 1998
RIKEN Beamlines									
BL19LXU	RIKEN SR Physics	22	17	2	3	23	0	0	October 2000
BL26B1	RIKEN Structural Genomics I	2	0	0	2	1	0	0	April 2002
BL26B2	RIKEN Structural Genomics II	1	0	0	1	0	0	0	April 2002
BL29XU	RIKEN Coherent X-ray Optics	56	42	8	6	15	0	0	December 1998
BL44B2	RIKEN Structural Biology II	86	78	2	6	0	0	0	February 1998
BL45XU	RIKEN Structural Biology I	109	86	8	15	8	0	0	July 1997
Contract Beamlines									
BL12XU	NSRRC ID	2	0	2	0	0	0	0	December 2001
BL12B2	NSRRC BM	8	8	0	0	0	0	0	October 2000
BL15XU	WEBRAM	16	14	0	2	0	0	0	January 2000
BL16XU	Industrial Consortium ID	12	4	2	6	4	1	0	October 1998
BL16B2	Industrial Consortium BM	27	13	8	6	1	1	0	October 1998
BL24XU	Hyogo	90	68	8	14	13	6	0	May 1998
BL32B2	Pharmaceutical Industry	3	2	0	1	0	0	0	April 2002
BL33LEP	Laser-Electron Photon	36	13	21	2	17	0	1	June 1999
BL44XU	Macromolecular Assemblies	20	14	0	6	7	0	0	May 1999
Accelerator Beamline									
BL38B2	Accelerator Beam Diagnosis	1	0	1	0	0	0	0	September 1999
Hardware/Software R&D									
Instruments & Technique		60	38	14	8	10	0	0	
Optics		50	38	7	5	6	0	0	
Control		18	13	4	1	0	0	0	
Front End		10	10	0	0	0	0	0	
Insertion Device		53	45	3	5	0	1	0	
Accelerator		373	83	280	10	13	0	0	
General		55	11	9	35	15	0	0	
Theory		3	3	0	0	0	0	0	
Others		2	2	0	0	0	16	0	
Total (with multiple Count)		2688	1809	532	347	431	44	16	
Total (Net)		2283	1533	488	262	338	78	14	

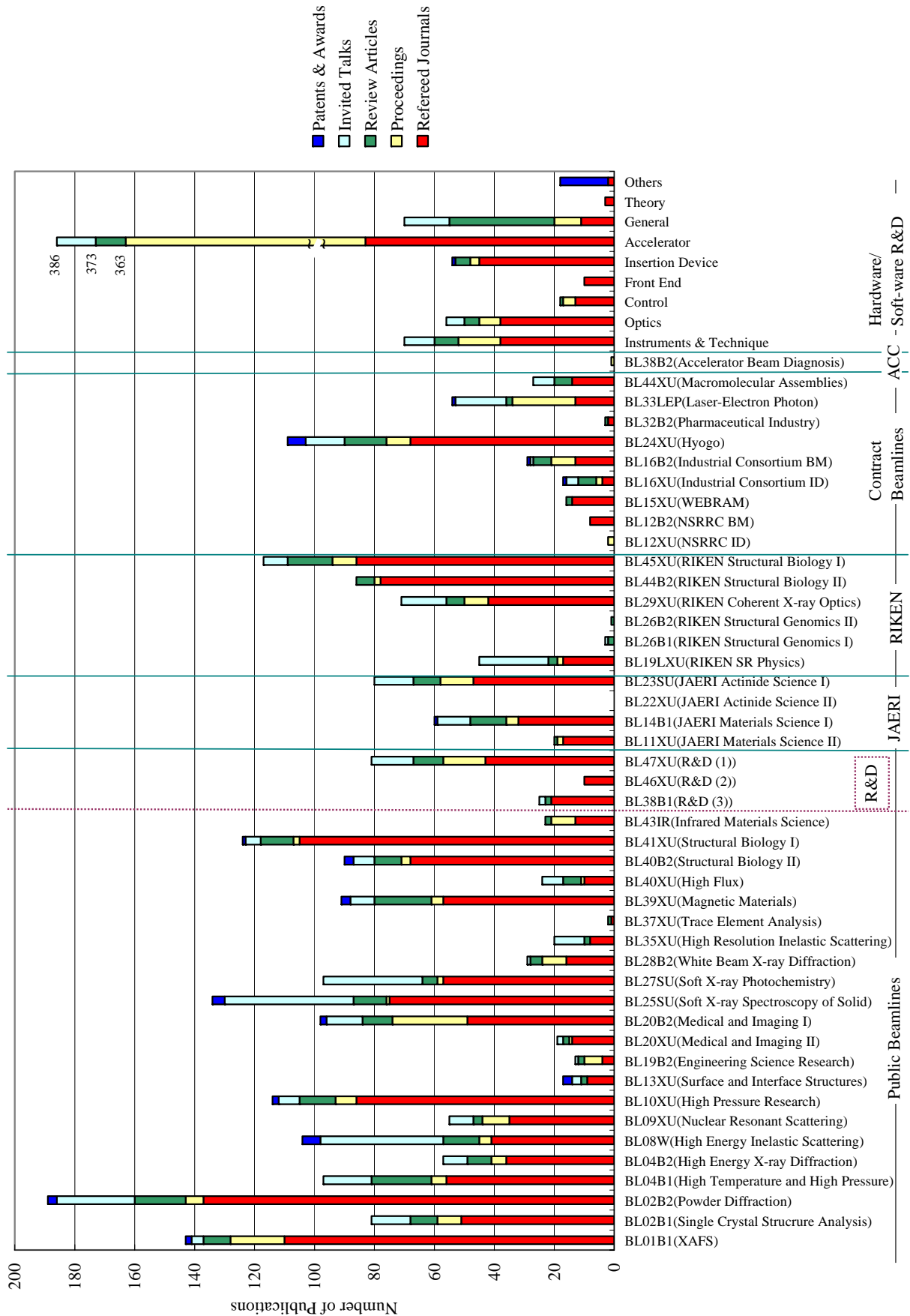


Figure 5-1 Summary of publications (Refereed Journals, Proceedings, Invited Talks, Review Articles, and Patents and Awards, May 31, 2004).

Table 5-2 Publications of refereed journals (May 31, 2004).

Beamline		~ 1997	1998	1999	2000	2001	2002	2003	2004	Total
Public Beamlines										
BL01B1	XAFS	0	0	15	17	34	24	14	6	110
BL02B1	Single Crystal Structure Analysis	0	2	5	3	9	15	15	2	51
BL02B2	Powder Diffraction	0	0	0	18	25	34	42	18	137
BL04B1	High Temperature and High Pressure	0	3	4	9	13	17	8	2	56
BL04B2	High Energy X-ray Diffraction	0	0	0	1	6	16	8	5	36
BL08W	High Energy Inelastic Scattering	2	5	0	4	14	5	10	1	41
BL09XU	Nuclear Resonant Scattering	0	0	5	5	5	10	9	1	35
BL10XU	High Pressure Research	0	2	10	12	21	21	16	4	86
BL13XU	Surface and Interface Structures	0	0	0	0	0	0	6	3	9
BL19B2	Engineering Science Research	0	0	0	0	0	0	4	0	4
BL20XU	Medical and Imaging II	0	0	0	0	0	2	12	0	14
BL20B2	Medical and Imaging I	0	0	0	1	13	15	10	10	49
BL25SU	Soft X-ray Spectroscopy of Solid	0	2	6	14	17	23	11	2	75
BL27SU	Soft X-ray Photochemistry	0	3	2	8	10	19	12	3	57
BL28B2	White Beam X-ray Diffraction	0	0	0	0	1	1	9	5	16
BL35XU	High Resolution Inelastic Scattering	0	0	0	1	2	0	3	2	8
BL37XU	Trace Element Analysis	0	0	0	0	0	0	0	1	1
BL39XU	Magnetic Materials	0	4	8	7	18	5	10	5	57
BL40XU	High Flux	0	0	1	0	3	2	2	2	10
BL40B2	Structural Biology II	0	0	0	1	15	21	23	8	68
BL41XU	Structural Biology I	1	1	13	14	19	26	27	4	105
BL43IR	Infrared Materials Science	0	0	0	0	5	1	4	3	13
BL38B1	R&D (3)	0	0	0	0	1	3	14	3	21
BL46XU	R&D (2)	0	0	0	1	0	3	6	0	10
BL47XU	R&D (1)	0	2	4	9	13	8	5	2	43
JAERI Beamlines										
BL11XU	JAERI Materials Science II	0	1	1	3	3	5	4	0	17
BL14B1	JAERI Materials Science I	0	2	0	5	6	14	4	1	32
BL22XU	JAERI Actinide Science II	0	0	0	0	0	0	0	0	0
BL23SU	JAERI Actinide Science I	0	2	1	3	15	12	14	0	47

Beamline	~ 1997	1998	1999	2000	2001	2002	2003	2004	Total	
RIKEN Beamlines										
BL19LXU	RIKEN SR Physics	0	1	0	0	4	3	3	6	17
BL26B1	RIKEN Structural Genomics I	0	0	0	0	0	0	0	0	0
BL26B2	RIKEN Structural Genomics II	0	0	0	0	0	0	0	0	0
BL29XU	RIKEN Coherent X-ray Optics	0	0	0	2	15	9	15	1	42
BL44B2	RIKEN Structural Biology II	0	0	4	13	21	21	18	1	78
BL45XU	RIKEN Structural Biology I	1	2	5	19	21	16	20	2	86
Contract Beamlines										
BL12XU	NSRRC ID	0	0	0	0	0	0	0	0	0
BL12B2	NSRRC BM	0	0	0	0	1	3	4	0	8
BL15XU	WEBRAM	0	0	0	0	2	10	2	0	14
BL16XU	Industrial Consortium ID	0	0	0	1	1	1	1	0	4
BL16B2	Industrial Consortium BM	0	0	0	0	9	3	1	0	13
BL24XU	Hyogo	0	2	3	13	21	16	7	6	68
BL32B2	Pharmaceutical Industry	0	0	0	0	0	0	0	2	2
BL33LEP	Laser-Electron Photon	0	2	2	3	3	2	1	0	13
BL44XU	Macromolecular Assemblies	0	0	0	0	1	8	4	1	14
Accelerator Beamline										
BL38B2	Accelerator Beam Diagnosis	0	0	0	0	0	0	0	0	0
Hardware/Software R&D										
Instruments & Technique		0	0	3	3	14	6	11	1	38
Optics		0	5	1	0	17	5	7	3	38
Control		4	1	1	0	7	0	0	0	13
Front End		2	6	0	0	2	0	0	0	10
Insertion Device		7	15	1	4	10	5	2	1	45
Accelerator		50	7	7	4	10	2	2	1	83
General		0	3	2	0	5	0	1	0	11
Theory		1	0	0	0	0	1	0	1	3
Others		0	0	1	0	1	0	0	0	2
Total (with multiple count)										
		68	73	105	198	433	413	401	119	1810
Total (Net)										
		63	60	98	178	365	350	325	94	1533

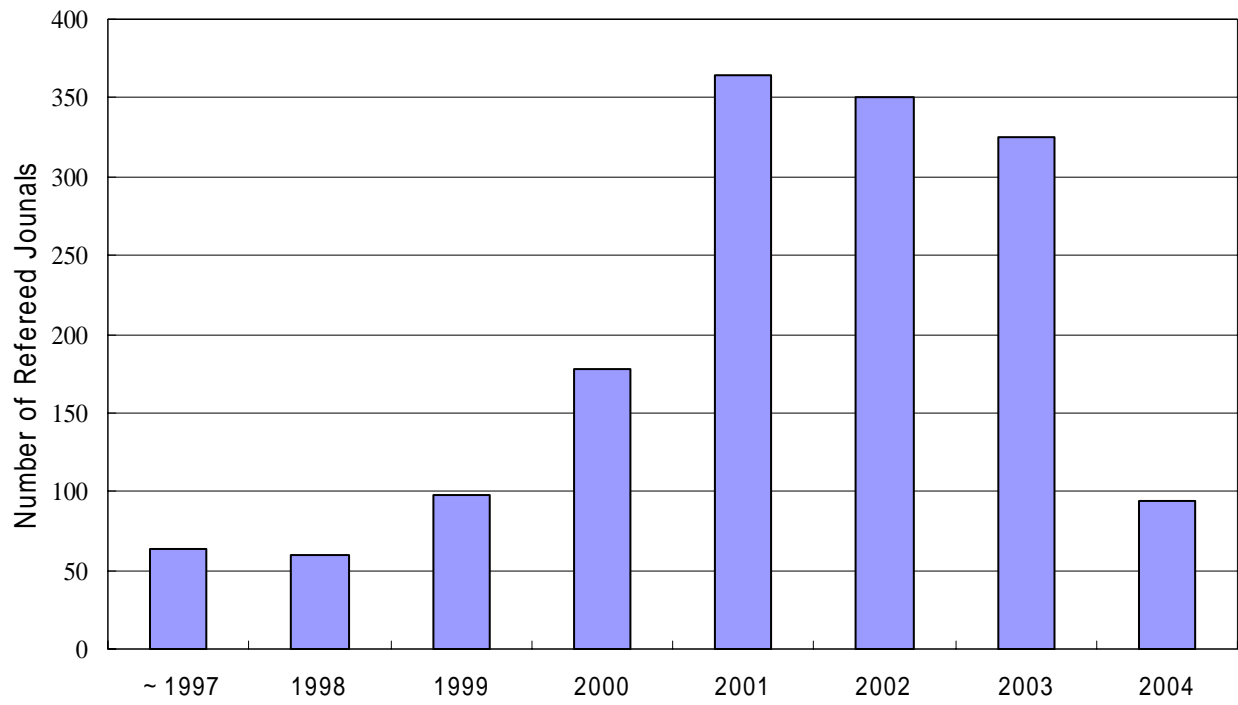


Figure 5-2 Total publications in refereed journals (May 31, 2004).

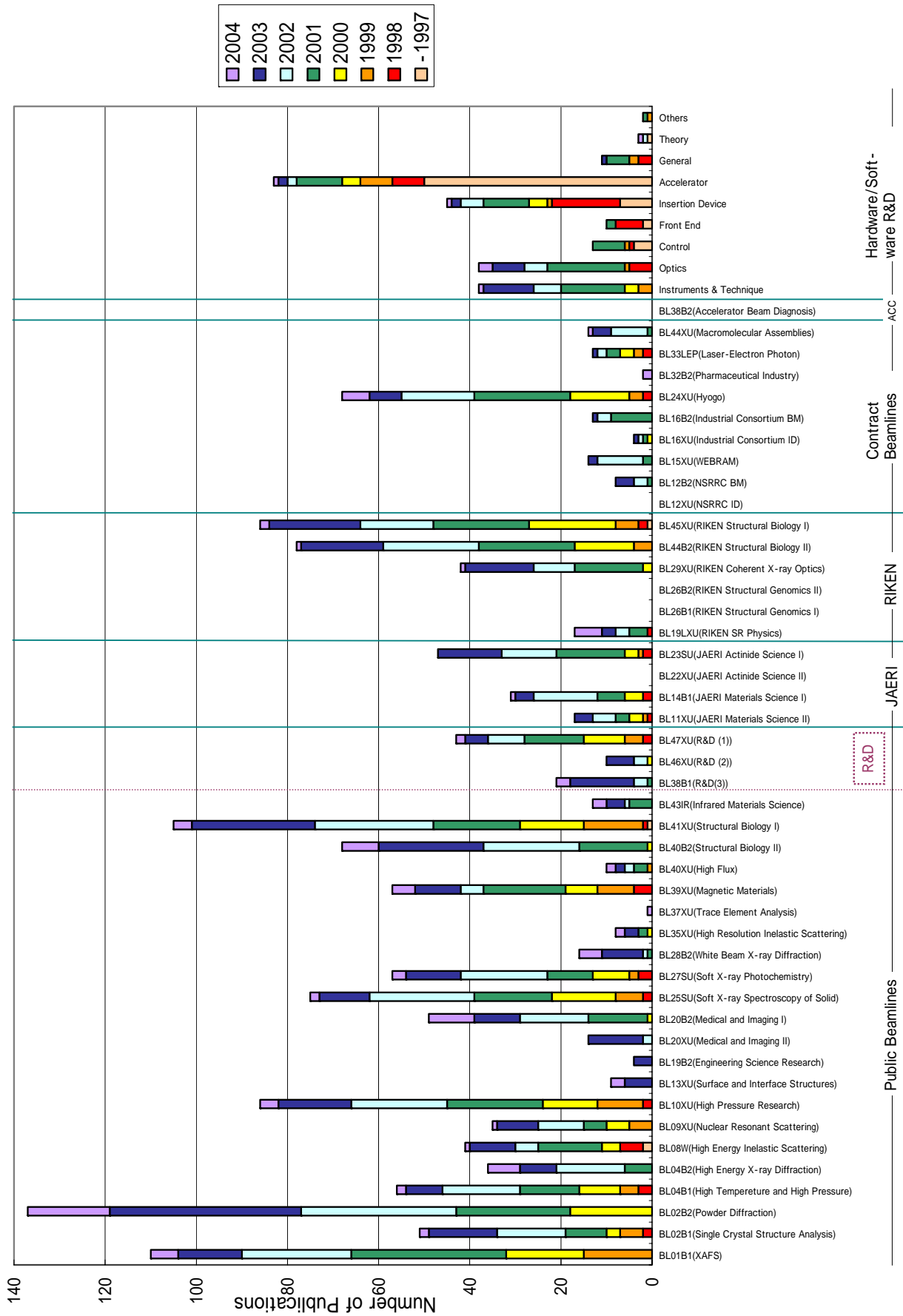


Figure 5-3 Publication of refereed journals (May 31, 2004)

Table 5-3 Number of publications in journals (May 31, 2004).

Journals	No. of J.
Nature	10
<i>Subject Area</i> <i>Nature Structural Biology /Nature Structural and Molecular Biology</i>	12
<i>Nature Materials</i>	6
Science	10
Cell	6
The EMBO Journal	9
Proceedings of the National Academy of Sciences of the United States of America	18
The Journal of Biological Chemistry	26
Journal of Molecular Biology	23
Structure	19
Physical Review <i>Letters</i>	35
<i>A, B, C, E, Special Topics - Accelerator and Beams</i>	103
Journal of Physics: Condensed Matter	35
Journal of the Physical Society of Japan	51
The Journal of Physical Chemistry B	8
Journal of the American Chemical Society	16
Angewandte Chemie International Edition	4
Chemical Physics Letters	9
Chemical Communications	5
Journal of Applied Physics	20
Applied Physics Letters	23
Japanese Journal of Applied Physics	82
Geophysical Research Letters	10
Earth and Planetary Science Letters	3
Physics of the Earth and Planetary Interiors	7
Review of Scientific Instruments	39
Journal of Synchrotron Radiation	149
Nuclear Instruments and Methods in Physics Research <i>Section A, B</i>	155
Acta Crystallographica <i>Section A, C, D, E</i>	74
Doctor Theses	23
Others	543
TOTAL	1,533