

最近Spring-8から発表された成果リスト

財団法人高輝度光科学研究センター
利用業務部

Spring-8において実施された研究課題等の成果が公表された場合はJASRIの成果登録データベースに登録していただくことになっており、以下のホームページから検索できます。

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このデータベースに登録された原著論文の内、平成17年8月～9月にその別刷もしくはコピー等を受理したもの（登録時期は問いません）を以下に紹介します。論文の情報（主著者、巻、発行年、ページ、タイトル）に加え、データベースの登録番号（研究成果番号）を掲載していますので、詳細はホームページでご覧いただくことができます。また実施された課題の情報（課題番号、ビームライン、実験責任者名）も掲載しています。課題番号は最初の4文字が「year」、次の1文字が「term」、後ろの4文字が「proposal no.」となっていますので、この情報から以下のHPで公表している、各課題の英文利用報告書（Spring-8 User Experiment Report）を探してご覧いただくことができます。

http://www.spring8.or.jp/e/user_info/user_ex_repo/

今後利用者情報には発行月の2ヶ月前の月末締めで、2ヶ月分ずつ登録された論文情報を掲載していく予定ですが、ホームページは毎日更新されていますので、最新情報はホームページをご覧ください。なお、実験責任者のかたには、成果が公表されましたら速やかに登録いただきますようお願いいたします。

・課題の成果として登録された論文

Physical Review B

主著者名	研究成果番号	巻、発行年、頁	課題番号	ビームライン	実験責任者	タイトル
Kenji Ohwada	8155	72 (2005) 014123	2001B0322	BL02B1	大和田 謙二	Structural Properties and Phase Transition of Hole-Orbital-Ordered (C ₂ H ₅ NH ₃) ₂ CuCl ₄ Studied by Resonant and Non-Resonant X-ray Scatterings under High Pressure
			2002B0278	BL10XU	大和田 謙二	
Masaharu Matsunami	8182	72 (2005) 073105	2003B0508	BL43IR	難波 孝夫	Metal-Insulator Transition in PrRu ₄ P ₁₂ and SmRu ₄ P ₁₂ Investigated by Optical Spectroscopy
Shin-ichiro Hatta	8213	72 (2005) 081406(R)	2003A0237	BL13XU	有賀 哲也	Order-Disorder Transition in the Surface Charge-Density-Wave Phase of Cu(001)-c(4 × 4)-In
			2002B0336	BL13XU	有賀 哲也	
Maria Angeles Laguna-Marco	8226	72 (2005) 052412	2003B0064	BL39XU	Chaboy Jesus	Revealing Fe Magnetism in Lanthanide-Iron Intermetallic Compounds by Tuning the Rare-Earth L _{2,3} -edge X-ray Absorption Edges
					Chaboy Jesus	
Kenichi Kato	8229	71 (2005) 012404	1999A0412	BL10XU	高田 昌樹	Evidence of a Pressure-Induced Orbital Transition in a Layered Manganite
			2000B0123	BL10XU	高田 昌樹	
Motohiro Suzuki	8257	72 (2005) 054430	2002B0648	BL39XU	村岡 裕明	Depth Profile of Spin and Orbital Magnetic Moments in a Subnanometer Pt Film on Co
			2003A0463	BL39XU	村岡 裕明	
H. Okamura	8282	72 (2005) 073108	2004A0480	BL43IR	岡村 英一	Photoinduced Spin Crossover in a Fe-Picolylamine Complex: A Far-Infrared Study on Single Crystals
Maria Angeles Laguna-Marco	8288	72 (2005) 094408	1999A0388	BL39XU	Chaboy Jesus	Element-Selective Thermal X-ray Magnetic Circular Dichroism Study through the Magnetic Compensation Temperature of Ho ₆ Fe ₂₃
Nozomu Hiraoka	8306	72 (2005) 075103	C04B1510	BL12XU	平岡 望	Inelastic X-ray Scattering Studies of Low-Energy Charge Excitations in Graphite
Hisashi Hayashi	8309	72 (2005) 045114	2003B0144	BL11XU	林 久史	Fine Structure in the Quadrupolar Transition of the Ho L ₃ Pre-Edge Observed by Lifetime-Broadening-Suppressed XANES Spectroscopy
Osami Sakata	8319	72 (2005) 121407(R)	2003A0697	BL13XU	坂田 修身	Encapsulation of Atomic-Scale Bi Wires in Epitaxial Silicon without Loss of Structure
			2003B0286	BL13XU	坂田 修身	
			2004B0382	BL13XU	坂田 修身	

主著者名	研究成果番号	巻、発行年、頁	課題番号	ビームライン	実験責任者	タイトル
Ignace Jarrige	8324	72 (2005) 075122	C04B1500	BL12XU	Jarrige Ignace	Valence State of Tm in TmX (X=S,Se,Te) Investigated by Resonant Inelastic X-ray Scattering
Xu-Guang Zheng	8326	72 (2005) 014464	2004B0405 2003A0038	BL02B2 BL02B2	鄭旭光 鄭旭光	Finite-size Effect on Néel Temperature in Antiferromagnetic Nanoparticles

Acta Crystallographica Section D

Yuki Maegawa	7300	60 (2004) 1484-1486	2001B0167	BL41XU	渡邊 信久	Crystallization and Preliminary X-ray Diffraction Study of the Catalytic Subunit of Archaeal H ⁺ -transporting ATP Synthase from <i>Pyrococcus horikoshii</i> OT3
			2002A0377	BL41XU	渡邊 信久	
			2003B0897	BL38B1	田中 勲	
			2003B0899	BL41XU	田中 勲	
Toru Sengoku	8154	60 (2004) 320-322	2002A0727 理研	BL41XU BL44B2	濡木 理	Crystallization and Preliminary X-ray Analysis of the Helicase Domains of Vasa Complexed with RNA and an ATP Analogue
Teruya Nakamura	8307	60 (2004) 1641-1643	2002B0801	BL38B1	山縣 ゆり子	Crystallization and Preliminary X-ray Analysis of <i>Escherichia coli</i> MutT in Binary and Ternary Complex Forms
			2002B7329	BL44XU	山縣 ゆり子	
			2003A0508	BL41XU	山縣 ゆり子	
			2003A0775	BL40B2	山縣 ゆり子	

Acta Crystallographica Section F

Momoyo Kitamura	7286	61 (2005) 178-179	2003A0348	BL41XU	姚 閔	Crystallization and Preliminary X-ray Analysis of -xylosidase from <i>Escherichia coli</i>
Shin Kawano	7295	61 (2005) 252-254	2002B0386	BL41XU	姚 閔	Crystallization and Preliminary Crystallographic Analysis of the Cellulose Biosynthesis-Related Protein CMCax from <i>Acetobacter xylinum</i>
Takayoshi Kinoshita	8250	61 (2005) 808-811	2003A0216	BL40B2	多田 俊治	Structure of the Complex of Porcine Pancreatic Elastase with a Trimacrocyclic Peptide Inhibitor FR901451

Journal of the Physical Society of Japan

Lin Chen	7232	74 (2005) 1099-1102	2004A0776	BL43IR	難波 孝夫	Far-infrared Study on the Electronic States of CuI ₂ Se ₄ under High Pressure
Tomoyuki Sasaki	8179	74 (2005) 2185-2188	R04B0020	BL46XU	水牧 仁一郎	Observation of Phase Transition with Lattice Distortion in the Low-dimensional Quantum Spin System TiOBr by Synchrotron X-ray Diffraction Evidence of Spin-Pieris Transition?
			1999B0088	BL02B2	坂田 誠	
Takahiko Sasaki	8191	74 (2005) 2351-2360	2004B0014	BL43IR	佐々木 孝彦	Real Space Imaging of the Metal-Insulator Phase Separation in the Band Width Controlled Organic Mott System -(BEDT-TTF) ₂ Cu[N(CN) ₂]Br
			2004A0023	BL43IR	佐々木 孝彦	
			2003B0114	BL43IR	佐々木 孝彦	

Molecular Cell

Kotaro Nakanishi	8146	19 (2005) 157-166	2003A0257	BL41XU	濡木 理	Recent Progress of Structural Biology of tRNA Processing and Modification
			理研	BL44B2		
			理研	BL26B1		
Antony W. Burgess	8152	12 (2003) 541-552	2002A0024	BL41XU	濡木 理	An Open-and-Shut Case? Recent Insights into the Activation of EGF/ErbB Receptors
Katsuhiko Kamada	8232	19 (2005) 497-509	2003B0965	BL41XU	鎌田 勝彦	Conformational Change in the Catalytic Site of the Ribonuclease YoeB Toxin by YefM Antitoxin

Biochemical and Biophysical Research Communications

Yoshikazu Tanaka	7296	323 (2004) 185-191	2002B0387	BL41XU	姚 閔	Structural Evidence for Guanidine-Protein Side Chain Interactions: Crystal Structure of CutA from <i>Pyrococcus horikoshii</i> in 3 M Guanidine Hydrochloride
			2003A0347	BL41XU	田中 勲	
Makoto Otori	8270	336 (2005) 357-363	2004B8184	BL32B2	木下 誉富	Identification of a Selective ERK Inhibitor and Structural Determination of the Inhibitor-ERK2 Complex

Biochemistry

Takayoshi Kinoshita	8237	44 (2005) 10562-10569	2004B5029	BL24XU	木下 誉富	Structural Basis of Compound Recognition by Adenosine Deaminase
Toshihide Okajima	8310	44 (2005) 12041-12048	2002B7304	BL44XU	岡島 俊英	Reinvestigation of Metal Ion Specificity for Quinone Cofactor Biogenesis in Bacterial Copper Amine Oxidase

The Journal of Biological Chemistry

主著者名	研究成果番号	巻、発行年、頁	課題番号	ビームライン	実験責任者	タイトル
Shun-ichi Sekine	8151	276 (2001) 3723-3726	2000B0409	BL41XU	濡木 理	Crucial Role of the HIGH-Loop Lysine for the Catalytic Activity of Arginyl-tRNA Synthetase
			2002A0024	BL41XU	濡木 理	
			2001B0073	BL41XU	濡木 理	
			2001A0508	BL41XU	濡木 理	
Tatsuya Uchida	8281	279 (2004) 37133-37141	2002A7310	BL44XU	楠木 正巳	Crystal Structure of the Hemolytic Lectin CEL-III Isolated from the Marine Invertebrate <i>Cucumaria echinata</i> : Implications of Domain Structure for Its Membrane Pore-Formation Mechanism

Journal of Molecular Biology

Kazuko Ikeda-Okumura	8264	351 (2005) 1146-1159	C03B7412	BL44XU	池田 和子	Crystal Structure of Human T-Protein of Glycine Cleavage System at 2.0 Resolution and its Implication for Understanding Non-Ketotic Hyperglycemia
			C03A7412	BL44XU	池田 和子	
Hideaki Nojiri	8277	351 (2005) 355-370	2003A0124	BL41XU	野尻 秀昭	Structure of the Terminal Oxygenase Component of Angular Dioxygenase, Carbazole 1,9a-Dioxygenase

Macromolecules

Atsushi Momose	8203	38 (2005) 7197-7200	2004B0706	BL20XU	百生 敦	Three-Dimensional Observation of Polymer Blend by X-ray Phase Tomography
Mikihito Takenaka	8320	38 (2005) 8481-8485	2003A0374	BL45XU	竹中 幹人	Synchrotron Small-Angle X-ray Scattering of Relaxation Process in a Nonentangled Diblock Copolymer
			2003B0460	BL45XU	竹中 幹人	

Proteins: Structure, Function, and Bioinformatics

Yasuhiro Katsura	8149	55 (2004) 487-492	2000A0021	BL41XU	河口 真一	Crystal Structure of a Putative Aspartate Aminotransferase Belonging to Subgroup IV
Yoshimitsu Shimomura	8193	60 (2005) 566-569	2001B0036	BL40B2	福山 恵一	Crystal Structure of <i>Escherichia coli</i> YfhJ Protein, a Member of the ISC Machinery Involved in Assembly of Iron-Sulfur Clusters

Angewandte Chemie International Edition

Shunsuke Kuwahara	7842	44 (2005) 2262-2265	2004A3888	BL02B1	鳥海 幸四郎	Conclusive Determination of the Absolute Configuration of Chiral C ₆₀ Fullerene <i>cis</i> -3 Bis-Adducts by X-ray Crystallography and Circular Dichroism
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Biochimica et Biophysica Acta - Biomembranes

Hiroshi Takahashi	8180	1713 (2005) 40-50	2003A0354	BL40B2	高橋 浩	Structure and Thermal History Dependant Phase Behavior of Hydrated Synthetic Sphingomyelin Analogue: 1,2-dimyristamido-1,2-deoxyphosphatidylcholine
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Biophysical Journal

Naoto Yagi	8158	89 (2005)	2000A0454	BL40XU	八木 直人	Structural Changes of Actin-Bound Myosin Heads after a Quick Length Change in Frog Skeletal Muscle
		1150-1164	2002A0057	BL40XU	八木 直人	

Bulletin of the Chemical Society of Japan

Kayako Hori	8293	78 (2005) 1223-1229	2002A0403	BL02B2	堀 佳也子	Phase Relationships of Crystalline Polymorphs of Mesogenic 4-cyano-4'-heptyloxybiphenyl (7OCB) and 4-cyano-4'-octyloxybiphenyl (8OCB)
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Chemical Physics Letters

Shin-ichi Nagaoka	8190	412 (2005) 459-463	2002A0029	BL27SU	長岡 伸一	Site-Specific Fragmentation Caused by Si:1s Core-Level Photoionization of F ₃ SiCH ₂ CH ₂ Si(CH ₃) ₃ Vapor
			2002B0101	BL27SU	長岡 伸一	
			2003A0023	BL27SU	長岡 伸一	
			2004A0055	BL27SU	長岡 伸一	

Clay Science

Masashi Nakano	8259	12 (2004) 311-319	2000A0096	BL01B1	中野 政詩	Local Structural Information from EXAFS Analyses and Adsorption Mode of Strontium on Smectite
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Cold Spring Harbor Laboratory Symposia on Quantitative Biology

主著者名	研究成果番号	巻、発行年、頁	課題番号	ビームライン	実験責任者	タイトル
Osamu Nureki	7940	LXVI (2002) 167-173	2001B0078	BL41XU	濡木 理	Structural Basis for Amino Acid and tRNA Recognition by Class I Aminoacyl-tRNA Synthetases
			2001A0510	BL41XU	濡木 理	
			2000B0409	BL41XU	濡木 理	
			1999B0338	BL41XU	濡木 理	
			1999A0341	BL41XU	濡木 理	

Europhysics Letters

Tomohiro Matsushita	8224	71 (2005) 597-603	2004A0145	BL23SU	松下 智裕	Electron Holography: A Maximum Entropy Reconstruction Scheme
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FEBS Letters

Akinori Iwashita	7273	579 (2005) 1389-1393	2004A8168	BL32B2	木下 誉富	Discovery of Quinazolinone and Quinoxaline Derivatives as Potent and Selective Poly(ADP-Ribose) Polymerase-1/2 Inhibitors
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Geochemical Journal

Naoki Sakakibara	8178	39 (2005) 383-389	2001B0393	BL01B1	高橋 嘉夫	Speciation of Osmium in an Iron Meteorite and a Platinum Ore Specimen Based on X-ray Absorption Fine-Structure Spectroscopy
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Japanese Journal of Applied Physics

Yoshihisa Harada	8227	44 (2005) L1147-L1149	2002B0673	BL27SU	城田 靖彦	Intermolecular Interaction by Apical Oxygen in Titanyl Phthalocyanine
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The Journal of Antibiotics

Yoshihiro Ohtsu	8235	58 (2005) 479-482	2004A5079	BL24XU	木下 誉富	The Novel Gluconeogenesis Inhibitor FR225654 that Originates from <i>Phoma</i> sp. No. 00144 III. Structure Determination
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Journal of Medicinal Chemistry

Tadashi Terasaka	8236	48 (2005) 4750-4753	2004B5029	BL24XU	木下 誉富	Rational Design of Non-Nucleoside, Potent, and Orally Bioavailable Adenosine Deaminase Inhibitors: Predicting Enzyme Conformational Change and Metabolism
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Journal of Nuclear Science and Technology

Hideo Tomita	8228	42 (2005) 673-677	R04B0013	BL47XU	成山 展照	Development of High Dose Rate Sensing Method Based on Cavity Ring-Down Laser Spectroscopy
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The Journal of Physical Chemistry B

Yasuo Izumi	7924	109 (2005) 14884-14891	2003A0146	BL15XU	泉 康雄	X-ray Absorption Fine Structure Combined with X-ray Fluorescence Spectrometry. Part 15. Monitoring of Vanadium Site Transformations on Titania and in Mesoporous Titania by Selective Detection of the Vanadium K _α Fluorescence
			2002B0739	BL15XU	泉 康雄	

Journal of Physics and Chemistry of Solids

Etsuo Arakawa	7261	65 (2004) 2089-2092	2003A0715	BL39XU	伊藤 正久	Experimental System for X-ray Magnetic Diffraction under Extreme Conditions
			2001B0278	BL39XU	伊藤 正久	
			2001A0188	BL39XU	伊藤 正久	
			2002A0479	BL39XU	伊藤 正久	

Journal of Structural Biology

Tomooki Komiya	8156	151 (2005) 1-11	2003B0436	BL40XU	杉山 淳司	Studies of the Structural Change during Deformation in <i>Cryptomeria japonica</i> by Time-Resolved Synchrotron Small-Angle X-ray Scattering
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Journal of the Society for Information Display

Ichiro Hirose	8289	13 (2005) 673-678	2003A0642	BL19B2	廣沢 一郎	Influence of X-ray Irradiation on Doped Europium in BaMgAl ₁₀ O ₁₇ Studied by X-ray Absorption Fine Structure and X-ray Diffraction
			2002B0773	BL19B2	廣沢 一郎	

Kidney International

主著者名	研究成果番号	巻、発行年、頁	課題番号	ビームライン	実験責任者	タイトル
Eiji Toyota	6262	66 (2004) 855-861	2002A0323	BL20B2	小笠原 康夫	Global Heterogeneity of Glomerular Volume Distribution in Early Diabetic Nephropathy

Materials Science Forum

Kenji Suzuki	8131	490-491 (2005) 631-636	2002A0116	BL02B1	鈴木 賢治	Spalling Stress in Oxidized Thermal Barrier Coatings Evaluated by X-ray Diffraction Method
			2002B0158	BL19B2	鈴木 賢治	
			2003A0161	BL02B1	鈴木 賢治	
			2001B0063	BL02B1	鈴木 賢治	

Nuclear Instruments and Methods in Physics Research B

Toshio Yamaguchi	8313	238 (2005) 146-149	2003B0574	BL35XU	山口 敏男	Collective Dynamics of Supercritical Water Probed by Inelastic X-ray Scattering
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Nucleic Acids Research

Norie Fujikawa	8150	31 (2003) 2077-2086	2003A0263	BL41XU	濡木 理	Structural Basis of Replication Origin Recognition by the DnaA Protein
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Physica Scripta

Motohiro Suzuki	8258	T115 (2005) 580-582	2002B0648	BL39XU	村岡 裕明	Magnetic Moment in the Top Pt Layer of Co/Pt Bilayers
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Physics and Chemistry of Minerals

Akio Suzuki	8302	32 (2005) 140-145	2000A0220	BL04B1	鈴木 昭夫	Viscosity of Silicate Melts in CaMgSi ₂ O ₆ - NaAlSi ₂ O ₆ System at High Pressure
			1999B0156	BL04B1	鈴木 昭夫	

Physics of the Earth and Planetary Interiors

Tetsuya Komabayashi	8223	151 (2005) 276-289	2000B0316	BL04B1	廣瀬 敬	Stability of Phase A in Antigorite (Serpentine) Composition Determined by in situ X-ray Pressure Observations
			2001A0290	BL04B1	廣瀬 敬	

Polymer

Tsukasa Miyazaki	8200	46 (2005) 7436-7442	2004A0104	BL40B2	宮崎 司	Role of Adsorbed Iodine into Poly(Vinyl Alcohol) Films Drawn in KI/I ₂ Solution
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Proceedings of IPACK2005

Toshihiko Sayama	8269	(2005) 73083	2004A0097	BL47XU	佐山 利彦	Nondestructive Evaluation of Thermal Phase Growth in Solder Ball Micro-Joints by Synchrotron Radiation X-Ray Micro-Tomography
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Proceedings of the National Academy of Sciences of the United States of America

Artem R. Oganov	8157	102 (2005) 10828-10831	2003A0013	BL10XU	巽 好幸	The High-Pressure Phase of Alumina and Implications for Earth's D" Layer
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Progress in Colloid and Polymer Science

Mikihito Takenaka	7490	130 (2005) 96-103	2002B0315	BL45XU	竹中 幹人	Viscoelastic Effects on Dynamics of Concentration Fluctuations for Non-Entangled Polymer Mixture: Time-Resolved Synchrotron-SAXS Studies After Pressure-Jump
			2003A0374	BL45XU	竹中 幹人	

RNA

Anna Perederina	7287	8 (2002) 1548-1557	2000A0596	BL41XU	姚 閔	Detailed Analysis of RNA-Protein Interactions within the Bacterial Ribosomal Protein L5/5S rRNA Complex
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Solid State Communications

Shirou Tsuduki	8153	134 (2005) 747-751	2000A0082	BL01B1	小野寺 昭史	Synchrotron X-ray Diffraction and Absorption Studies of CeM ₂ X ₂ (M=Cu, Ni and X=Si, Ge) at High Pressure
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材料 (Journal of the Society of Materials Science, Japan)

Kenji Suzuki	8133	54 (2005) 679-684	2002A0116	BL02B1	鈴木 賢治	Analysis on Residual Stress Distribution in Oxidized Thermal Barrier Coatings
			2002B0158	BL19B2	鈴木 賢治	
			2003A0161	BL02B1	鈴木 賢治	

・課題の成果以外で登録された論文

Acta Crystallographica Section F

主著者名	研究成果番号	巻、発行年、頁		ビームライン	タイトル
Ryoichi Sakaue	8263	61 (2005) 196-198	理研	BL44B2	Crystallization and Preliminary Crystallographic Analysis of Bacterial Fructosyl Amino Acid Oxidase

Europhysics Letters

Wei Hua Wang	8268	71 (2005) 611-617	原研	BL14B1	Pressure-Temperature-Time-Transition Diagram in a Strong Metallic Supercooled Liquid
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Journal of Molecular Biology

Peter Chivers	8144	348 (2005) 597-607	理研	BL26B1	Structure of <i>Pyrococcus horikoshii</i> NikR: Nickel Sensing and Implications for the Regulation of DNA Recognition
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Journal of Structural Biology

Kazuki Kurimoto	8142	150 (2005) 58-68	理研	BL44B2	Crystal Structure of the N-terminal RecA-like Domain of a DEAD-box RNA Helicase, the <i>Dugesia japonica</i> vasa-like Gene B Protein
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Journal of the Physical Society of Japan

Toyohiko Kinoshita	7227	73 (2004) 2932-2935	原研	BL23SU	Antiferromagnetic Domain Structure Imaging of Cleaved NiO(100) Surface Using Nonmagnetic Linear Dichroism at O K Edge: Essential Effect of Antiferromagnetic Crystal Distortion
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Nuclear Instruments and Methods in Physics Research A

Ashish Chainani	8300	547 (2005) 163-168	理研	BL29XU	Hard-X-ray Photoelectron Spectroscopy of Na _x CoO ₂ ·yH ₂ O
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Protein Science

Ryoichi Arai	8143	14 (2005) 1888-1893	理研	BL26B1	Crystal Structure of an Enhancer of Rudimentary Homologue (ERH) at 2.1 Resolution
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