

## 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

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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21年4月～6月にその別刷もしくはコピー等を受理したものの(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、詳細は上記検索ページの検索結果画面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、チームライン、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URL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。

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今後も利用者情報には発行月の2ヶ月前の月末締めで、前号掲載分以降に登録された論文情報を掲載していく予定です。なお、データベースは毎日更新されていますので、最新情報はSPring-8論文データベース検索ページでご確認ください。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	研究成果番号	雑誌情報	課題番号	チームライン	実験責任者	タイトル
Hiroshi Hyodo	14030	77 (2008) 024515	2007A1371	BL02B2	木村 薫	Structure and Electronic Properties of Mg-doped - rhombohedral Boron Constructed from Icosahedral Clusters
Sergey Stefanovich	14115	70 (2004) 172103	2003A0474	BL02B2	東 正樹	Antiferroelectric Phase Transition in Sr <sub>9</sub> In(PO <sub>4</sub> ) <sub>7</sub>
Alexei Belik	14119	73 (2006) 024429	2003A0474	BL02B2	東 正樹	Crystal Structure and Properties of Phosphate PbCu <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> with Spin-singlet Ground State
Junya Miyazaki	14145	79 (2009) 180410(R)	2007B1158	BL02B2	勝藤 拓郎	Impact of Orbital Degrees of Freedom on Geometrical Frustration in the Kagome-like Magnet SrV <sub>x</sub> Ga <sub>12-x</sub> O <sub>19</sub>
Takashi Uchino	14149	77 (2008) 132201	2003B0457	BL14B1	内野 隆司	<i>In situ</i> X-ray Diffraction Study of the Size Dependence of Pressure-induced Structural Transformation in Amorphous Silica Nanoparticles
Shin Imada	14158	76 (2007) 153106	2006A1169	BL25SU	菅 滋正	Soft X-ray Spectroscopy of the Possibly Heavy-Fermion Compound NdOs <sub>4</sub> Sb <sub>12</sub>
Junichi Yamaguchi	14169	69 (2009) 125121	理研 2002A0433 2006B1722	BL19LXU BL25SU BL25SU	 今田 真 関山 明	Kondo Lattice Effects and the Collapse of Lattice Coherence in Yb <sub>1-x</sub> Lu <sub>x</sub> B <sub>12</sub> Studied by Hard X-ray Photoelectron Spectroscopy
Tetsuro Shirasawa	14221	79 (2009) 241301(R)	2007A2009	BL27SU	栃原 浩	Atomic-Layer-Resolved Bandgap Structure of an Ultrathin Oxynitride-Silicon Film Epitaxially Grown on 6H-SiC(0001)
Atsuko Ohno	14277	76 (2007) 064119	2006A0096 2006B0096	BL02B2 BL02B2	西堀 英治 西堀 英治	X-ray Charge Density Study of Chemical Bonding in Skutterudite CoSb <sub>3</sub>
Masataka Deguchi	14308	78 (2008) 073103	2005B7002 2006A0096	BL02B2 BL02B2	黒岩 芳弘 西堀 英治	Luminescence Mechanism of (Pr, Al)-Doped SrTiO <sub>3</sub> Fine Particle Investigated by X-Ray Absorption Spectroscopy
Masaki Kobayashi	14324	78 (2008) 155322	2006B3813	BL23SU	藤森 淳	Systematic Changes of the Electronic Structure of the Diluted Ferromagnetic Oxide Li-doped Ni <sub>1-x</sub> Fe <sub>x</sub> O with Hole Doping
Masaki Kobayashi	14325	79 (2009) 205203	2007A3832	BL23SU	藤森 淳	Hybridization between the Conduction Band and 3d Orbitals in the Oxide-Based Diluted Magnetic Semiconductor In <sub>2-x</sub> V <sub>x</sub> O <sub>3</sub>

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Gyong Sok Song	14330	78 (2008) 033304	2007A3832	BL23SU	藤森 淳	Electronic Structure of Ga <sub>1-x</sub> Cr <sub>x</sub> N and Si-doping Effects Studied by Photoemission and X-ray Absorption Spectroscopy

## Japanese Journal of Applied Physics

Yasuhiro Abe	14087	48 (2009) 041201	2007B1663	BL47XU	阿部 泰宏	Effect of Oxide Charge Trapping on X-ray Photoelectron Spectroscopy of HfO <sub>2</sub> /SiO <sub>2</sub> /Si Structures
Ryosuke Kato	14161	48 (2009) 05DA04	2008A0005	BL47XU	財満 鎮明	Effects of Atomic Layer Deposition-Al <sub>2</sub> O <sub>3</sub> Interface Layers on Interfacial Properties of Ge Metal-Oxide-Semiconductor Capacitors
Yoshihito Tanaka	14238	48 (2009) 03A001	2005A0885	BL40XU	高田 昌樹	Development of Picosecond Time-Resolved Microbeam X-ray Diffraction Technique for Investigation of Optical Recording Process
			2005B0930	BL40XU	高田 昌樹	
			2006A1746	BL40XU	高田 昌樹	
			2006B1726	BL40XU	高田 昌樹	
			2007A1864	BL40XU	木村 滋	
			2007B1876	BL40XU	木村 滋	
Chikako Moriyoshi	14296	47 (2008) 7745-7748	2001A0031	BL02B2	黒岩 芳弘	Electron Charge Density Study of (Na <sub>1-x</sub> K <sub>x</sub> )NbO <sub>3</sub> in Cubic Structure
			2005B7002	BL02B2	黒岩 芳弘	
			2008A0096	BL02B2	西堀 英治	
Satoshi Wada	14299	47 (2008) 7678-7684	2008A1656	BL02B2	和田 智志	Preparation of Barium Titanate - Potassium Niobate Solid Solution System Ceramics and Their Piezoelectric Properties
Satoshi Wada	14301	47 (2008) 7612-7616	2007A1966	BL02B2	和田 智志	Preparation of Highly Dispersed Barium Titanate Nanoparticles from Barium Titanyl Oxalate Nanoparticles and Their Dielectric Properties
Satoshi Wada	14304	45 (2006) 7389-7396	2005A0693	BL02B2	和田 智志	Growth of Large-Scale Silver Lithium Niobate Single Crystals and Their Piezoelectric Properties
			2006A1617	BL02B2	和田 智志	
Gyong Sok Song	14329	47 (2008) 7113-7116	2007A3832	BL23SU	藤森 淳	Soft X-ray Absorption and Photoemission Studies of Ferromagnetic Mn-Implanted 3C-SiC

## Journal of Molecular Biology

Yoko Suzuki	13400	372 (2007) 1204-1214	2007A1080	BL41XU	石谷 隆一郎	Crystal Structure of the Radical SAM Enzyme Catalyzing Tricyclic Modified Base Formation in tRNA
Kei Wada	14041	387 (2009) 245-258	2007A1610	BL41XU	福山 恵一	Molecular Dynamism of Fe-S Cluster Biosynthesis Implicated by the Structure of the SufC <sub>2</sub> -SufD <sub>2</sub> Complex
			2006B2671	BL41XU	福山 恵一	
Masakazu Sugishima	14103	389 (2009) 376-387	2007A1132	BL38B1	杉島 正一	Crystal Structure of Red Chlorophyll Catabolite Reductase: Enlargement of the Ferredoxin-Dependent Bilin Reductase Family
			2008A1082	BL41XU	杉島 正一	
Mitsuhiro Nishimura	14126	377 (2008) 421-430	2006A1114	BL41XU	藤井 佳史	Crystal Structure of Human Ribosomal Protein L10 Core Domain Reveals Eukaryote-Specific Motifs in Addition to the Conserved Fold
			2006A1796	BL41XU	藤井 佳史	
Zhongli Cui	14181	374 (2007) 384-398	2006B1214	BL38B1	橋本 涉	Crystal Structure of Glycoside Hydrolase Family 78 - L-rhamnosidase from <i>Bacillus</i> sp. GL1
			2006A1405	BL38B1	橋本 涉	
Hiroshi Kida	14206	383 (2008) 465-474	2006A2716	BL41XU	三木 邦夫	Structural and Molecular Characterization of the Prefoldin Subunit from <i>Thermococcus</i> Strain KS-1
			2006B2664	BL41XU	三木 邦夫	
			2007A1829	BL41XU	木田 宗志	
Hiroyuki Iwamoto	14255	390 (2009) 99-111	2007A1190	BL45XU	岩本 裕之	Evidence for Unique Structural Change of Thin Filaments upon Calcium Activation of Insect Flight Muscle
			2008A1376	BL45XU	岩本 裕之	

### Applied Physics Letters

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Masatomo Yashima	14086	94 (2009) 171902	2007A1952	BL02B2	脇田 崇弘	Atomic Displacement Parameters and Structural Disorder of Oxygen Ions in the $Ce_xZr_{1-x}O_2$ Solid Solutions ( $0.12 \leq x \leq 1.0$ ): Possible Factors of High Catalytic Activity of Ceria-Zirconia Catalysts
Hiroyuki Saitoh	14089	94 (2009) 151915	2008B3612	BL14B1	齋藤 寛之	Hydrogenation of Passivated Aluminum with Hydrogen Fluid
Takahiro Nagata	14237	94 (2009) 221904	2007B4604	BL15XU	長田 貴弘	Interface Structure and the Chemical States of Pt Film on Polar-ZnO Single Crystal
Takuya Hoshina	14303	93 (2008) 192914	2006A1618	BL02B2	和田 智志	Composite Structure and Size Effect of Barium Titanate Nanoparticles
Shunsuke Teranishi	14307	92 (2008) 182905	2006A1115	BL02B2	野口 祐二	Giant Strain in $(Bi_{0.5}Na_{0.5})TiO_3$ -based Single Crystals
			2006B1410	BL02B2	野口 祐二	
			2007A1529	BL02B2	野口 祐二	

### The Journal of Biological Chemistry

Kenji Inaba	14059	283 (2008) 35042-35052	2007B6902	BL44XU	稲葉 謙次	A Pair of Circularly Permuted PDZ Domains Control RseP, the S2P Family Intramembrane Protease of <i>Escherichia coli</i>
Tsuyoshi Inoue	14074	284 (2009) 9566-9577	2007A1500	BL41XU	井上 豪	Mechanistic Insights into the Hydrolysis and Synthesis of Ceramide by Neutral Ceramidase
Asami Hishiki	14177	284 (2009) 10552-10560	2006A1705	BL38B1	清水 敏之	Structural Basis for Novel Interactions between Human Translesion Synthesis Polymerases and Proliferating Cell Nuclear Antigen
Akihito Ochiai	14184	284 (2009) 10181-10189	2007B1268	BL38B1	橋本 涉	Structural Determinants Responsible for Substrate Recognition and Mode of Action in Family 11 Polysaccharide Lyases
Min Xu	14337	284 (2009) 20457-20461	2007B1382	BL41XU	Jiang Tao	Structure and Functional Implications of the Human Rad9-Hus1-Rad1 Cell Cycle Checkpoint Complex

### Physical Review Letters

Yukiharu Takeda	13047	100 (2008) 247202	2006A3817	BL23SU	竹田 幸治	Nature of Magnetic Coupling between Mn Ions in As-Grown $Ga_{1-x}Mn_xAs$ Studied by X-ray Magnetic Circular Dichroism
Makoto Seto	14163	102 (2009) 217602	2006B0098	BL09XU	瀬戸 誠	Synchrotron-Radiation-Based Mössbauer Spectroscopy
			2007A0098	BL09XU	瀬戸 誠	
			2006B3501	BL11XU	三井 隆也	
B. Barbiellini	14212	102 (2009) 206402	2002B2008	BL08W	小泉 昭久	Role of Oxygen Electrons in the Metal-Insulator Transition in the Magnetoresistive Oxide $La_{2-2x}Sr_{1+2x}Mn_2O_7$ Proved by Compton Scattering
			2003A3008	BL08W	小泉 昭久	
			2003B4008	BL08W	小泉 昭久	
			2004A5008	BL08W	小泉 昭久	
Tetsuo Okane	14267	102 (2009) 216401	2008A3822	BL23SU	岡根 哲夫	4f-derived Fermi Surfaces of $CeRu_2(Si_{1-x}Ge_x)_2$ near the Quantum Critical Point: Resonant Soft X-ray ARPES Study
Ryoichi Kajimoto	14348	102 (2009) 247602	2006B1417	BL35XU	梶本 亮一	Unconventional Ferroelectric Transition in the Multiferroic Compound $TbMnO_3$ Revealed by the Absence of an Anomaly in c-Polarized Phonon Dispersion
			2006B1235	BL35XU	有馬 孝尚	
			2007A1436	BL35XU	梶本 亮一	

### Acta Crystallographica Section F

Haruka Tamura	14071	65 (2009) 147-150	2008B6826	BL44XU	松村 浩由	Crystallization and Preliminary X-ray Analysis of 2,3-diketo-5-methylthiopentyl-1-phosphate Enolase from <i>Bacillus subtilis</i>
Wataru Hashimoto	14186	65 (2009) 515-517	2008A1322	BL38B1	橋本 涉	Crystallization and Preliminary Crystallographic Analysis of Cell-Surface Alginate-Binding Protein Algp7 from <i>Sphingomonas</i> sp. A1
Masatomo Makino	14203	65 (2009) 559-561	2007B1348	BL38B1	熊坂 崇	Expression, Crystallization and Preliminary Crystallographic Analysis of the PAS Domain of RsbP, a Stress-Response Phosphatase from <i>Bacillus subtilis</i>

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Hirofumi Komori	14219	65 (2009) 264-266	2008B2025	BL38B1	小森 博文	Crystallization and Preliminary X-ray Diffraction Analysis of a Putative Two-Domain-Type Laccase from a Metagenome

### Proceedings of the National Academy of Sciences of the United States of America

Motoyasu Adachi	14000	106 (2009) 4641-4646	2007A1513	BL41XU	黒木 良太	Structure of HIV-1 Protease in Complex with Potent Inhibitor KNI-272 Determined by High-Resolution X-ray and Neutron Crystallography
Masahiro Naganuma	14127	106 (2009) 8489-8494	2006B1766	BL41XU	関根 俊一	Unique Protein Architecture of Alanyl-tRNA Synthetase for Aminoacylation, Editing, and Dimerization
Jian-Rong Su	14209	106 (2009) 417-421	2006B2664 2008B1743 理研	BL41XU BL38B1 BL44B2	三木 邦夫 蘇 建榮	Crystal Structure of the Conserved N-terminal Domain of the Peroxisomal Matrix-Protein-Import Receptor, Pex14p
Keisuke Kawakami	14272	106 (2009) 8567-8572	2007B1278 2008A1031 2008B1200 2007A2099 2007A1241	BL41XU BL41XU BL41XU BL41XU BL41XU	沈 建仁 沈 建仁 沈 建仁 沈 建仁 沈 建仁	Location of Chloride and Its Possible Functions in Oxygen-Evolving Photosystem II Revealed by X-ray Crystallography

### Biochemistry

Yukie Maruyama	14180	46 (2007) 781-791	2006A1405	BL38B1	橋本 渉	A Structural Factor Responsible for Substrate Recognition by <i>Bacillus</i> sp. GL1 Xanthan Lyase that Acts Specifically on Pyruvated Side Chains of Xanthan
Yukie Maruyama	14182	47 (2008) 1393-1402	2007A1330 2006B1126 2006A1150	BL38B1 BL38B1 BL38B1	丸山 如江 丸山 如江 丸山 如江	Crystal Structure of a Novel Bacterial Cell-Surface Flagellin Binding to Polysaccharide
Nobutaka Numoto	14207	47 (2008) 11231-11238	2005B0428 2006A1716 2006B1664 2006A1198 2007A1290 2005A0854 2005B1798 2006A2716 2006B2664 2006A6831 2006B6831 2007A6924 2007B6924 2008A6829 2008B6829 理研	BL38B1 BL38B1 BL38B1 BL41XU BL41XU BL41XU BL41XU BL41XU BL41XU BL41XU BL44XU BL44XU BL44XU BL44XU BL44XU BL44XU BL44XU BL44XU BL45XU	三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫 三木 邦夫	Structural Basis for the Heterotropic and Homotropic Interactions of Invertebrate Giant Hemoglobin

### Earth and Planetary Science Letters

Motohiko Murakami	13488	277 (2009) 123-129	2007B0099 2007A0099 2006B0099 2006A0099	BL10XU BL10XU BL10XU BL10XU	廣瀬 敬 廣瀬 敬 廣瀬 敬 廣瀬 敬	Elasticity of MgO to 130 GPa: Implications for Lower Mantle Mineralogy
Yasuhiro Kuwayama	14134	273 (2008) 379-385	2005A5013 2005B0010 2006A0099	BL10XU BL10XU BL10XU	巽 好幸 巽 好幸 廣瀬 敬	Phase Relations of Iron and Iron-Nickel Alloys up to 300 GPa: Implications for Composition and Structure of the Earth's Inner Core
Takeyuki Uchida	14236	282 (2009) 268-274	2004A0001 2004B0040	BL04B1 BL04B1	Wang Yanbin Wang Yanbin	Non-Cubic Crystal Symmetry of CaSiO <sub>3</sub> Perovskite up to 18 GPa and 1600 K

**Journal of Physics: Conference Series**

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Satoshi Tsutsui	13986	150 (2009) 042220	2005B0127	BL01B1	水牧 仁一朗	Anomalous Correlation Between Cage Size and Valence State in SmOs <sub>4</sub> Sb <sub>12</sub>
			2006A1350	BL02B2	坪田 雅己	
Mitsuhiro Hirai	14264	83 (2007) 012016	2005A0349	BL40B2	平井 光博	Effect of Osmotic Pressure on Ganglioside- Cholesterol-DOPC Lipid Mixture
Mitsuhiro Hirai	14265	83 (2007) 012003	2002A0256	BL40B2	平井 光博	Feasibility of Complementary use of Neutron and X-ray Scattering Techniques in Research of Lipid Mixtures
			2002B0527	BL40B2	平井 光博	
			2004A0399	BL40B2	平井 光博	

**Journal of Synchrotron Radiation**

Ryuta Mizutani	13100	15 (2008) 648-654	2007A2072	BL20B2	水谷 隆太	Evaluation of the Improved Three-Dimensional Resolution of a Synchrotron Radiation Computed Tomograph Using a Micro-Fabricated Test Pattern
			2007B1894	BL20B2	水谷 隆太	
Naoto Yagi	14054	16 (2009) 398-404	2007A2095	BL40XU	田中 智子	Evaluation of Enamel Crystallites in Subsurface Lesion by Microbeam X-ray Diffraction
			2008A1968	BL40XU	八木 直人	
Nobuhiro Yasuda	14176	16 (2009) 352-357	2005A0885	BL40XU	高田 昌樹	X-ray Diffractometry for the Structure Determination of a Submicrometre Single Powder Grain
			2005B0930	BL40XU	高田 昌樹	
			2006A1746	BL40XU	高田 昌樹	
			2006B1726	BL40XU	高田 昌樹	
			2007A1864	BL40XU	木村 滋	
			2007B1876	BL40XU	木村 滋	

**Journal of the American Chemical Society**

Katsumi Kaneko	13981	130 (2008) 6367-6372	2007A1447	BL02B2	金子 克美	Quantum Sieving Effect of Three-Dimensional Cu- Based Organic Framework for H <sub>2</sub> and D <sub>2</sub>
Kazuaki Ohara	14014	131 (2009) 3860-3861	2008A1938	BL19B2	河野 正規	Formation of a Thermally Stable, Porous Coordination Network via a Crystalline-to-Amorphous-to-Crystalline Phase Transition
Hideto Imai	14092	131 (2009) 6293-6300	2006A5080	BL16XU	今井 英人	In Situ and Real-Time Monitoring of Oxide Growth in a Few Monolayers at Surfaces of Platinum Nanoparticles in Aqueous Media
			2006A5380	BL16B2	今井 英人	
			2006A0126	BL28B2	今井 英人	
			2005B5080	BL16XU	今井 英人	
			2005B5380	BL16B2	今井 英人	
			2005B0847	BL28B2	今井 英人	
			2005A0263	BL28B2	今井 英人	
			C05A4080	BL16XU	今井 英人	
			C05A3080	BL16B2	今井 英人	
			C04B4080	BL16XU	今井 英人	
			C04B3080	BL16B2	今井 英人	
J04B0518	BL28B2	今井 英人				

**Journal of the Physical Society of Japan**

Rikiya Yoshida	13225	77 (2008) 104701	2007B1519	BL27SU	横谷 尚睦	Electronic Structure of Noncentrosymmetric Superconductor Li <sub>2</sub> (Pd <sub>x</sub> Pt <sub>1-x</sub> ) <sub>3</sub> B Studied by Photoemission Spectroscopy
			J04A0511	BL25SU	横谷 尚睦	
Shizuka Hosoi	14013	76 (2007) 044602	2001A0393	BL02B2	木村 薫	Electron Density Distributions in Derivative Crystals of -Rhombohedral Boron
			2004B0593	BL02B2	木村 薫	
			2005B0557	BL02B2	木村 薫	
Toshiya Inami	14120	78 (2009) 033707	2008A3720	BL22XU	松田 康弘	Resonant Magnetic X-ray Diffraction Study on Successive Metamagnetic Transitions in TbB <sub>4</sub>
			2007B3702	BL22XU	松田 康弘	



## Transactions of the Materials Research Society of Japan

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Shizuka Hosoi	14031	33 (2008) 303-306	2003A0388 2005B0548	BL02B2 BL02B2	木村 薫 細井 慎	Electron Density Distribution of $\alpha$ -gallium
Mitsuhiro Hirai	14263	32 (2007) 287-292	2002A0256 2004A0399	BL40B2 BL40B2	平井 光博 平井 光博	Functional Properties of Glycosphingolipid Aggregates and Mixtures with Cholesterol and Phospholipid
Katsuya Yamamoto	14306	33 (2008) 53-56	2006A1115 2006B1410 2007A1529	BL02B2 BL02B2 BL02B2	野口 祐二 野口 祐二 野口 祐二	Effects of Oxygen Pressure during Crystal Growth on the Polarization Properties in $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ Single Crystals

## Acta Materialia

Hui Zhang	14225	57 (2009) 3287-3300	2005A0417 2006B1018 2007A1616	BL47XU BL20XU BL20XU	戸田 裕之 戸田 裕之 小林 正和	Three-Dimensional Fatigue Crack Growth Behavior in an Aluminum Alloy Investigated with in situ High-Resolution Synchrotron X-ray Microtomography
Hiroyuki Toda	14227	57 (2009) 2277-2290	2007B1078 2007A1618 2006A1056	BL47XU BL47XU BL47XU	戸田 裕之 戸田 裕之 戸田 裕之	Growth Behavior of Hydrogen Micropores in Aluminum Alloys during High-Temperature Exposure

## Analytical Sciences

Hiroshi Nishioka	13417	24 (2008) 1545-1549	2006A1612	BL37XU	西岡 洋	Distribution of Lead in Lead-accumulating Pteridophyte <i>Blechnum niponicum</i> , Measured by Synchrotron Radiation Micro X-ray Fluorescence
Hirohisa Nagatani	14015	25 (2009) 475-480	2005A0091 2006B1139	BL39XU BL39XU	永谷 広久 永谷 広久	Extended X-ray Absorption Fine Structure of Copper(II) Complexes at the Air-Water Interface by a Polarized Total-Reflection X-ray Absorption Technique

## Antimicrobial Agents and Chemotherapy

Mototsugu Yamada	11597	51 (2007) 3902-3907	C04B8187 2005B5542	BL32B2 BL32B2	山田 雅胤 山田 雅胤	Crystal Structure of Cefditoren Complexed with <i>Streptococcus pneumoniae</i> Penicillin-Binding Protein 2X: Structural Basis for Its High Antimicrobial Activity
Mototsugu Yamada	12490	52 (2008) 2053-2060	C04B8187 2006A5542 2006A1778 2007A1772	BL32B2 BL32B2 BL41XU BL41XU	山田 雅胤 山田 雅胤 小椋 康博 鈴木 健司	Crystal Structures of Biapenem and Tebipenem Complexed with Penicillin-Binding Proteins 2X and 1A from <i>Streptococcus pneumoniae</i>

## Applied Catalysis A: General

Kaori Yoshida	14280	341 (2008) 217-225	2006A1058	BL01B1	奥村 和	Oxidative Steam Reforming of Methane over Ni/ $\gamma$ - $\text{Al}_2\text{O}_3$ Modified with Trace Pd
Mohammad Nurunnabi	14282	325 (2007) 154-162	2006A1058	BL01B1	奥村 和	Catalytic Performance and Characterization of Pd/Ni <sub>0.2</sub> Mg <sub>0.8</sub> Al <sub>2</sub> O <sub>4</sub> in Oxidative Steam Reforming of Methane under Atmospheric and Pressurized Conditions

## Chemistry of Materials

Alexei Belik	14116	17 (2005) 122-129	2003A0474	BL02B2	東 正樹	New Noncentrosymmetric Vanadates $\text{Sr}_9\text{R}(\text{VO}_4)_7$ (R = Tm, Yb, and Lu): Synthesis, Structure Analysis, and Characterization
Alexei Belik	14117	17 (2005) 5455-5464	2003A0474	BL02B2	東 正樹	Redox Reactions in Strontium Iron Phosphates: Synthesis, Structures, and Characterization of $\text{Sr}_9\text{Fe}(\text{PO}_4)_7$ and $\text{Sr}_9\text{FeD}(\text{PO}_4)_7$

## FEBS Letters

Yuichiro Nakaishi	14257	583 (2009) 163-167	2008A5648	BL32B2	板東 政彦	Structural Analysis of Human Glutamine:Fructose-6-phosphate Amidotransferase, a Key Regulator in Type 2 Diabetes
Hirofumi Komori	14220	583 (2009) 1189-1195	2008B2025	BL38B1	小森 博文	X-ray Structure of a Two-Domain Type Laccase: A Missing Link in the Evolution of Multi-Copper Proteins

**Inorganic Chemistry**

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Masaichiro Mizumaki	14022	48 (2009) 3499-3501	2008A1001	BL25SU	島川 祐一	Orbital Hybridization and Magnetic Coupling of the A-Site Cu Spins in $\text{CaCu}_3\text{B}_4\text{O}_{12}$ (B = Ti, Ge, and Sn) Perovskites
			2008A1276	BL27SU	水牧 仁一朗	
Alexei Belik	14118	44 (2005) 6632-6640	2003A0474	BL02B2	東 正樹	Investigation of the Crystal Structure and the Structural and Magnetic Properties of $\text{SrCu}_2(\text{PO}_4)_2$

**Journal of Applied Physics**

Tetsuo Tanemura	14099	105 (2009) 074310	2000A0264	BL09XU	村田 好正	Growth of Single-Crystal $\text{SiO}_2$ Clusters on Si(001) Surface
Hiroshi Oji	14247	105 (2009) 113527	2007B1820	BL14B2	眞壁 英一	Local Atomic Structure around Ni, Nb, and Zr Atoms in Ni-Nb-Zr-H Glassy Alloys Studied by X-ray Absorption Fine Structure Method

**Journal of Catalysis**

Kazu Okumura	14279	265 (2009) 89-98	2008B1237	BL01B1	奥村 和	Generation of the Active Pd Cluster Catalyst in the Suzuki-Miyaura Reactions: Effect of the Activation with $\text{H}_2$ Studied by Means of Quick XAFS
			2007A1417	BL01B1	奥村 和	
Seiji Naito	14281	259 (2008) 138-146	2006A1058	BL01B1	奥村 和	Promoting Effect of Co Addition on the Catalytic Partial Oxidation of Methane at Short Contact Time over a Rh/MgO Catalyst

**The Journal of Physical Chemistry C**

Kentaro Teramura	14050	112 (2008) 8495-8498	2007A1921	BL28B2	寺村 謙太郎	In Situ Time-Resolved Energy-Dispersive XAFS Study on Photodeposition of Rh Particles on a $\text{TiO}_2$ Photocatalyst
			2007B1094	BL28B2	寺村 謙太郎	
			2008A1102	BL28B2	寺村 謙太郎	
Norihiro Muroyama	14335	112 (2008) 10803-10813	2005A0282	BL02B2	Terasaki Osamu	Argon Adsorption on MCM-41 Mesoporous Crystal Studied by In Situ Synchrotron Powder X-ray Diffraction
			2005A5889	BL02B2	黒岩 芳弘	
			2006A1650	BL02B2	Terasaki Osamu	
			2006A0096	BL02B2	西堀 英治	

**Macromolecules**

Yuko Ikeda	12813	41 (2008) 5876-5884	2003B0664	BL40XU	池田 裕子	Comparative Study on Strain-Induced Crystallization Behavior of Peroxide Cross-Linked and Sulfur Cross-Linked Natural Rubber
			2005A0425	BL40XU	池田 裕子	
Yuko Ikeda	14380	42 (2009) 2741-2748	2007A1933	BL40XU	池田 裕子	Vulcanization: New Focus on a Traditional Technology by Small-Angle Neutron Scattering

**Materials Science and Engineering A**

Takuya Ohba	14027	481-482 (2008) 254-257	2007A1647	BL35XU	大庭 卓也	Observation of Phonon Softening in a Ti-Ni-Fe Alloy by Inelastic X-ray Scattering
Takuya Ohba	14028	438-440 (2006) 480-484	J04B0501	BL02B2	加藤 健一	In situ Observations of Martensitic Transformations in $\text{Ti}_{50}\text{Ni}_{34}\text{Cu}_{16}$ Alloy by Synchrotron Radiation

**New Journal of Physics**

Masanori Tsunekawa	13369	10 (2008) 073005	2002B3009	BL25SU	菅 滋正	Bulk Electronic Structures and Strong Electron-Phonon Interactions in an Electron-Doped High-Temperature Superconductor
			2003A4009	BL25SU	菅 滋正	
			2003B5009	BL25SU	菅 滋正	
			2004A6009	BL25SU	菅 滋正	
Masaki Kobayashi	14326	10 (2008) 055011	2006A3823	BL23SU	藤森 淳	Local Electronic Structure of Cr in the II-VI Diluted Ferromagnetic Semiconducto $\text{Zn}_{1-x}\text{Cr}_x\text{Te}$

## Physics of the Earth and Planetary Interiors

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Hidenori Terasaki	14101	174 (2009) 220-226	2006A1400	BL04B1	寺崎 英紀	In situ Measurement of Interfacial Tension of Fe-S and Fe-P Liquids under High Pressure using X-ray Radiography and Tomography Techniques
			2007A1096	BL04B1	寺崎 英紀	
Daisuke Hamane	14150	175 (2009) 145-150	2008B1161	BL10XU	浜根 大輔	Equation of State for Postperovskite Phases in the MgSiO <sub>3</sub> -FeSiO <sub>3</sub> -FeAlO <sub>3</sub> System

## Proteins: Structure, Function, and Bioinformatics

Masahiko Okai	14037	70 (2008) 1646-1649	2005A0822	BL41XU	永田 宏次	Crystal Structure of the Proline Iminopeptidase-Related Protein TTHA1809 from <i>Thermus thermophilus</i> HB8
			2005A0820	BL41XU	田之倉 優	
Nobutaka Numoto	14204	73 (2008) 113-125	2004B0837	BL38B1	三木 邦夫	Structure of the Partially Unliganded met State of 400 kDa Hemoglobin: Insights into Ligand-induced Structural Changes of Giant Hemoglobins
			2005A0854	BL41XU	三木 邦夫	
			2005B0428	BL38B1	三木 邦夫	
			2006A1716	BL38B1	三木 邦夫	
			2006B1664	BL38B1	三木 邦夫	
			2006A1198	BL41XU	三木 邦夫	
			2007A1290	BL41XU	三木 邦夫	
			2004B0838	BL41XU	三木 邦夫	
			2005B1798	BL41XU	三木 邦夫	
			2006A2716	BL41XU	三木 邦夫	
			2006B2664	BL41XU	三木 邦夫	
			2006A6831	BL44XU	三木 邦夫	
			2006B6831	BL44XU	三木 邦夫	
			2007A6924	BL44XU	三木 邦夫	
			2007B6924	BL44XU	三木 邦夫	
2008A6829	BL44XU	三木 邦夫				
2008B6829	BL44XU	三木 邦夫				
		理研	BL26B1			

## Solid State Communications

Junichi Yamaura	13987	149 (2009) 31-34	2007A2089	BL10XU	井澤 公一	Re-examination of the Crystal Structure of the $\gamma$ -pyrochlore Oxide Superconductor KOs <sub>2</sub> O <sub>6</sub> by X-ray and Convergent-Beam Electron Diffraction Analyses
Naoki Yoneyama	14011	149 (2009) 775-777	2008A1121	BL43IR	佐々木 孝彦	Metallic Pattern Fabrication in Organic Mott Insulating Crystal by Local X-ray Irradiation
			2007B1150	BL43IR	佐々木 孝彦	

## Acta Crystallographica Section A

Eiji Nishibori	14274	63 (2007) 43-52	2006A0096	BL02B2	西堀 英治	Accurate Structure Factors and Experimental Charge Densities from Synchrotron X-ray Powder Diffraction Data at SPring-8
			2006B0096	BL02B2	西堀 英治	
			2007A0096	BL02B2	西堀 英治	

## American Journal of Physiology - Renal Physiology

Gabriela Eppel	14094	296 (2009) F1023-F1031	2005A0513	BL28B2	Pearson James	Contrast Angiography of the Rat Renal Microcirculation in vivo using Synchrotron Radiation
			2005B0525	BL28B2	Eppel Gabriela	

## Angewandte Chemie International Edition

Eiji Nishibori	14278	46 (2007) 7617-7620	2006A0096	BL02B2	西堀 英治	1:1 Cross-Assembly of Two $\beta$ -Diketonate Complexes through Arene-Perfluoroarene Interactions
			2006B0096	BL02B2	西堀 英治	
			2007A0096	BL02B2	西堀 英治	

## Archives of Oral Biology

Tsunenori Matsunaga	14162	54 (2009) 420-423	2007B1784	BL37XU	林 善彦	Synchrotron Radiation Microbeam X-ray Fluorescence Analysis of Zinc Concentration in Remineralized Enamel <i>in situ</i>
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### Biochemical and Biophysical Research Communications

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Wataru Hashimoto	14185	381 (2009) 16-21	2008B1112	BL38B1	橋本 渉	Crystal Structure of the Glycosidase Family 73 Peptidoglycan Hydrolase FlgJ

### Biochimica et Biophysica Acta - Bioenergetics

Hideyuki Adachi	14271	1787 (2009) 121-128	2007B1994	BL41XU	沈 建仁	Towards Structural Elucidation of Eukaryotic
			2007B2050	BL41XU	沈 建仁	Photosystem II: Purification, Crystallization and
			2008A1993	BL41XU	沈 建仁	Preliminary X-ray Diffraction Analysis of Photosystem
			2008B2184	BL41XU	沈 建仁	II from a Red Alga

### Biophysical Journal

Hironari Kamikubo	13051	92 (2007) 3633-3642	2002A0387	BL40B2	片岡 幹雄	Characterization of the Solution Structure of the M Intermediate of Photoactive Yellow Protein Using High-Angle Solution X-ray Scattering
			2002B0689	BL40B2	片岡 幹雄	
			2003B0687	BL40B2	上久保 裕生	

### Biopolymers

Taichi Fujii	14260	91 (2009) 729-736	2007A1034	BL40B2	寺尾 憲	Solvent-Dependent Conformation of Amylose
			2007B1296	BL40B2	寺尾 憲	Tris(phenylcarbamate) as Deduced from Scattering
			2008A1313	BL40B2	寺尾 憲	and Viscosity Data

### Carbon

Akio Tokura	13096	46 (2008) 1903-1908	2006B1631	BL23SU	前田 文彦	Hydrogen Adsorption on Single-Walled Carbon Nanotubes Studied by Core-Level Photoelectron Spectroscopy and Raman Spectroscopy
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### Catalysis Letters

Takashi Kubo	14102	130 (2009) 28-36	2007B1666	BL01B1	久保 敬	Morphologic Control of Pt Supported Titanate Nanotubes and Their Photocatalytic Property
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### Chemical Physics Letters

Eiji Nishibori	14275	433 (2006) 120-124	2006A0096	BL02B2	西堀 英治	Bent (metal) <sub>2</sub> C <sub>2</sub> Clusters Encapsulated in (Sc <sub>2</sub> C <sub>2</sub> )@C <sub>82</sub> (III) and (Y <sub>2</sub> C <sub>2</sub> )@C <sub>82</sub> (III) Metallofullerenes
			2006B0096	BL02B2	西堀 英治	

### Chemosphere

Yohey Hashimoto	14338	76 (2009) 616-622	2007B1315	BL01B1	橋本 洋平	Incomplete Transformations of Pb to Pyromorphite by Phosphate-Induced Immobilization Investigated by X-ray Absorption Fine Structure (XAFS) Spectroscopy
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### The EMBO Journal

Kenji Inaba	14058	28 (2009) 779-791	2008A6803	BL44XU	稲葉 謙次	Dynamic Nature of Disulphide Bond Formation Catalysts Revealed by Crystal Structures of DsbB
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### Environmental Science & Technology

Takashi Fujimori	14188	43 (2009)	2005B0439	BL01B1	高岡 昌輝	Direct Chlorination of Carbon by Copper Chloride in a Thermal Process
		2241-2246	2006A1093	BL02B2	高岡 昌輝	

### European Biophysics Journal

E. Fabiani	14266	38 (2009)	2006A1339	BL40B2	平井 光博	Dynamics of Apomyoglobin in the $\alpha$ -to- $\beta$ Transition and of Partially Unfolded Aggregated Protein
		237-244	2007B1780	BL40B2	平井 光博	

### International Journal of Biological Macromolecules

Naoto Yagi	14213	45 (2009) 86-90	2007B1228	BL40XU	八木 直人	Structure of Amyloid Fibrils of Hen Egg White Lysozyme Studied by Microbeam X-ray Diffraction
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### International Journal of Nanoscience

Yoshiyuki Yamashita	14259	8 (2009) 181-184	2008A4800	BL15XU	小林 啓介	Electronic Structures of Naked and Molecular Encapsulated Au Nanoparticles
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**International Journal of Radiation Oncology, Biology, Physics**

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Genro Kashino	14079	74 (2009) 229-236	2008A1229	BL28B2	菓子野 元郎	Introduction of DNA Double-Strand Breaks and Cellular Migration through Bystander Effects in Cells Irradiated with the Slit-Type Microplanar Beam of the SPring-8 Synchrotron
			2008B1288	BL28B2	菓子野 元郎	

**Journal of Alloys and Compounds**

Toyoto Sato	14342	481 (2009) 254-257	2007B1764	BL02B2	池田 一貴	Synchrotron Radiation Powder X-ray and Neutron Diffraction Studies on Novel $Y_3Al_2$ Hydrides
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**Journal of Applied Crystallography**

Eiji Nishibori	14273	41 (2008) 293-301	2006A0096	BL02B2	西堀 英治	<i>Ab initio</i> Structure Determination of a Pharmaceutical Compound, Prednisolone Succinate, from Synchrotron Powder Data by Combination of a Genetic Algorithm and the Maximum Entropy Method
			2006B0096	BL02B2	西堀 英治	
			2007A0096	BL02B2	西堀 英治	
			2007B0096	BL02B2	西堀 英治	
			2008A0096	BL02B2	西堀 英治	
			2008B0096	BL02B2	西堀 英治	

**The Journal of Biochemistry**

Kanako Nakashima	14352	145 (2009) 467-479	2007B1306	BL38B1	中嶋 義隆	Closed Complex of the D-3-hydroxybutyrate Dehydrogenase Induced by an Enantiomeric Competitive Inhibitor
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**Journal of Bone and Mineral Research**

Yuji Yamazaki	13037	23 (2008) 1509-1518	2005A0800	BL41XU	黒木 良太	Anti-FGF23 Neutralizing Antibodies Show the Physiological Role and Structural Features of FGF23
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**Journal of Colloid and Interface Science**

Bridget Ingham	14383	336 (2009) 612-615	2007A1020	BL20XU	Ingham Bridget	In situ USAXS Measurements of Titania Colloidal Paint Films during the Drying Process
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**Journal of Crystal Growth**

Masamitsu Takahashi	14010	311 (2009) 1761-1763	2006B3503	BL11XU	高橋 正光	In situ X-ray Diffraction during Stacking of InAs/GaAs(001) Quantum Dot Layers and Photoluminescence Spectroscopy
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**Journal of Electronic Packaging**

Hiroyuki Tsuritani	13982	129 (2007) 434-439	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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**Journal of Environmental Quality**

Yohey Hashimoto	14123	38 (2009) 1420-1428	2007B1315	BL01B1	橋本 洋平	Impacts of Chemical Amendment and Plant Growth on Pb Speciation and Enzyme Activities in a Shooting Range Soil: An X-ray Absorption Fine Structure (XAFS) Investigation
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**Journal of Experimental and Theoretical Physics**

E. E. Kokorina	14165	134 (2008) 968-979	2002B3009	BL25SU	菅 滋正	Origin of "Hot Spots" in the Pseudogap Regime of $Nd_{1.85}Ce_{0.15}CuO_4$ : An LDA + DMFT + $k$ Study
			2003A4009	BL25SU	菅 滋正	
			2003B5009	BL25SU	菅 滋正	
			2004A6009	BL25SU	菅 滋正	

**Journal of Magnetism and Magnetic Materials**

Yuji Kondo	13115	320 (2008) 3157-3160	2005B0785	BL39XU	近藤 祐治	Element-specific Hard X-ray Micro-magnetometry of Magnetic Modifications in Co-Pt Dots Fabricated by Ion Etching
			2006B0123	BL39XU	近藤 祐治	
			2007B1727	BL39XU	近藤 祐治	

### Journal of Molecular Liquids

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Hidetoshi Morita	14173	147 (2009) 182-185	2000A0326	BL04B2	梅咲 則正	A New Reverse Monte Carlo Simulation Code Combined with Molecular Mechanics Simulation (RMC-MM) for Molecular and Ionic Liquids

### Journal of Nanoscience and Nanotechnology

Yoshiki Kubota	14331	9 (2009) 69-76	2003A0371	BL02B2	北川 進	Hindered Rotation of Methane Molecules in the One-Dimensional Nanochannel of a Porous Coordination Polymer
			2003A0204	BL02B2	高田 昌樹	
			2003B0940	BL02B2	黒岩 芳弘	

### Journal of Photopolymer Science and Technology

Miki Hasegawa	13046	21 (2008) 333-338	2005B0354	BL02B2	長谷川 美貴	Polarized ff-Emission of Terbium(III) by using the Stretched Polymer Film Technique
			2007B1716	BL02B2	長谷川 美貴	

### The Journal of Physical Chemistry B

Eiji Nishibori	14276	110 (2006) 19215-19219	2006A0096	BL02B2	西堀 英治	High-Resolution Analysis of (Sc <sub>3</sub> C <sub>2</sub> )@C <sub>80</sub> Metallofullerene by Third Generation Synchrotron Radiation X-ray Powder Diffraction
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### Journal of Physics: Condensed Matter

Hiroshi Arima	14154	19 (2007) 076104	2005B0499	BL14B1	大高 理	<i>In situ</i> XAFS and XRD Studies of Pressure-Induced Local Structural Change in Liquid AgI
			原研	BL11XU		

### Journal of Physics D: Applied Physics

Vladimir Matolin	14193	42 (2009) 115301	2007A4904	BL15XU	Matolin Vladimir	Au <sup>+</sup> and Au <sup>3+</sup> Ions in CeO <sub>2</sub> rf-sputtered Thin Films
			2008A4604	BL15XU	森 利之	

### Journal of Power Sources

Kazuhiko Mukai	14155	192 (2009) 684-688	2007A1917	BL19B2	向 和彦	X-ray Diffraction Study on Li <sub>x</sub> CoO <sub>2</sub> below Ambient Temperature
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### Journal of Solid State Chemistry

Brendan Kennedy	14332	181 (2008) 1377-1386	2002B0001	BL02B2	Kennedy Brendan	Cation Disorder and Phase Transitions in the Four-Layer Ferroelectric Aurivillius Phases ABi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> (A=Ca, Sr, Ba, Pb)
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### Journal of Supercritical Fluids

Masafumi Takesue	14114	49 (2009) 351-355	2007A1655	BL10XU	武居 正史	Formation of Zinc Silicate in Supercritical Water Followed with <i>in situ</i> Synchrotron Radiation X-ray Diffraction
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### Journal of the Ceramic Society of Japan

Kazuhiko Kawabata	14349	116 (2008) 108-110	2007A1402	BL01B1	山本 知之	Local Environment Analysis of Mn Ions in $\beta$ -tricalcium Phosphate
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### Journal of the Korean Physical Society

Satoshi Wada	13390	51 (2007) 878-881	2005A0691	BL02B2	和田 智志	Origin of Ultrahigh Dielectric Constants for Barium Titanate Nanoparticles
			2005B0724	BL02B2	和田 智志	

### Kidney International

Jin Wu	14392	75 (2009) 945-951	2004B0426	BL20XU	武田 徹	Imaging Renal Structures by X-ray Phase-Contrast Microtomography
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### Materials Science Forum

Kazuhiro Nogita	14088	618-619 (2009) 391-394	2008A1664	BL47XU	野北 和宏	Mechanism of Improved Hydrogen Absorption Kinetics in Cast Mg-Ni Alloys
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**Materials Transactions**

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Sawoong Kim	14053	50 (2009) 917-921	2007B1928	BL19B2	高蒲 敬久	Kinetic Approach for Growth and Coalescence of Nano-Size Oxide Particles in 9Cr-ODS Steel Using High-Energy Synchrotron Radiation X-rays in SPring-8

**Nature**

Tomoya Tsukazaki	13396	455 (2008) 988-991	2008A1352	BL41XU	石谷 隆一郎	Conformational Transition of Sec Machinery Inferred from Bacterial SecYE Structures
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**Nucleic Acids Research**

Yuhei Araiso	13398	36 (2008) 1187-1199	2008A1352	BL41XU	石谷 隆一郎	Structural Insights into RNA-dependent Eukaryal and Archaeal Selenocysteine Formation
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**Physics and Chemistry of Minerals**

Yasuhiro Kuwayama	14133	(2009) Online published	2005A5013	BL10XU	巽 好幸	Phase Relations of Iron-Silicon Alloys at High Pressure and High Temperature
			2005B0010	BL10XU	巽 好幸	
			2006A0099	BL10XU	廣瀬 敬	
			2006B0099	BL10XU	廣瀬 敬	
			2007A0099	BL10XU	廣瀬 敬	
			2007B0099	BL10XU	廣瀬 敬	
			2008A0099	BL10XU	廣瀬 敬	

**Polymer**

Akihito Hashidzume	14049	50 (2009) 2246-2251	2007B1296	BL40B2	寺尾 憲	Crisscross Addition Polymerization of Alkyl Aldazines and 1,4-phenylene Diisocyanate
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**Polymers for Advanced Technologies**

Yuko Ikeda	14379	19 (2008) 1608-1615	2007A1933	BL40XU	池田 裕子	Mechanical Characteristics of Hydrogenated Natural Rubber Vulcanizates
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**Protein Science**

Jun Saito	12283	17 (2008) 691-699	C04A8139	BL32B2	山田 雅胤	Crystal Structure of Enoyl-Acyl Carrier Protein Reductase (FabK) from <i>Streptococcus pneumoniae</i> Reveals the Binding Mode of an Inhibitor
			C05A8245	BL32B2	山田 雅胤	

**Respiratory Physiology & Neurobiology**

Toshihiro Sera	10391	156 (2007) 304-311	2004B0387	BL20B2	世良 俊博	Small Airway Changes in Healthy and Ovalbumin-treated Mice during Quasi-static Lung Inflation
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**Superconductor Science and Technology**

Takatoshi Nomura	14006	22 (2009) 055016	2008B1761	BL02B2	野村 尚利	Comparison of Crystal Structures and the Effects of Co Substitution in a New Member of the Fe-1111 Superconductor Family AeFeAsF (Ae = Ca and Sr): a Possible Candidate for a Higher- $T_c$ Superconductor
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**X-Ray Spectrometry**

Takashi Fujimori	14189	37 (2008) 210-214	2004B0512	BL28B2	田中 庸裕	Observing Copper Chloride during Dioxin Formation Using Dispersive XAFS
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**X線分析の進歩 (Advances in X-Ray Analysis, Japan)**

Yasushi Uehara	14057	40 (2009) 163-170	2007A5131	BL16XU	上原 康	Spectroscopic Study on L-Absorption / Emission of Lead and Bismuth Compounds
			2008A5130	BL16XU	上原 康	

**軽金属 (Journal of Japan Institute of Light Metals)**

Masakazu Kobayashi	14241	59 (2009) 30-34	2006A1056	BL47XU	戸田 裕之	Three-dimensional Observation of Micro-pores in a 2024 Aluminum Alloy by Synchrotron X-ray Projection- and Imaging-type Microtomography Techniques
			2007A1618	BL47XU	戸田 裕之	
			2007B1078	BL47XU	戸田 裕之	

高圧力の科学と技術 ( The Review of High Pressure Science and Technology )

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Yasuhiro Kuwayama	14135	18 (2008) 3-10	2004B4013	BL10XU	巽 好幸	Ultrahigh Pressure and High Temperature Experiments using a Laser Heated Diamond Anvil Cell in Multimegabar Pressures Region
			2005A5013	BL10XU	巽 好幸	
			2006A0099	BL10XU	廣瀬 敬	
			2006B0099	BL10XU	廣瀬 敬	
			2005B0010	BL10XU	巽 好幸	

高分子論文集 ( Japanese Journal of Polymer Science and Technology )

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Mina Sakuragi	14254	66 (2009) 179-186	2008B0012	BL40B2	櫻井 和朗	Relationship between the Supramolecular Structure and the Transfection Efficiency for Cationic Micelle/DNA Complexes

博士論文

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Manabu Hoshino	14294	東京工業大学 (2009)	2008A1724	BL02B1	星野 学	Elucidation and Control of Photophysical Properties of Three-Coordinated Gold(I) Complexes Based on Direct Observation of Photoexcited Structure
			2007B1366	BL02B1	植草 秀裕	
			2007A1420	BL02B1	植草 秀裕	

課題以外の成果として登録された論文

Journal of the Physical Society of Japan

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	タイトル
Yasuhiro Matsuda	13093	77 (2008) 054713	原研	BL22XU	High-Magnetic-Field X-ray Absorption Spectroscopy of Field-Induced Valence Transition in $\text{EuNi}_2(\text{Si}_{1-x}\text{Ge}_x)_2$
Yoshihisa Harada	14122	78 (2009) 044802	理研	BL17SU	Ligand Energy Controls the Heme-Fe Valence in Aqueous Myoglobins
Tetsuo Okane	14284	77 (2008) 024706	原研	BL23SU	Soft X-ray Magnetic Circular Dichroism Study of Uranium Monochalcogenides at Uranium $N_{4,5}$ Absorption Edges
Tetsuo Okane	14285	75 (2006) 024704	原研	BL23SU	Soft X-ray Absorption Magnetic Circular Dichroism Study of Ferromagnetic Superconductor $\text{UGe}_2$
Yasuo Narumi	14290	78 (2009) 043702	理研	BL19LXU	Field Induced lattice Deformation in the Quantum Antiferromagnet $\text{SrCu}_2(\text{BO}_3)_2$

Physical Review Letters

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	タイトル
Noriyuki Tsukahara	14061	102 (2009) 167203	理研	BL17SU	Adsorption-induced Switching of Magnetic Anisotropy in a Single Iron(II) Phthalocyanine Molecule on an Oxidized Cu(110) Surface
Yoshihiko Okamoto	14164	101 (2008) 086404	理研	BL19LXU	Band Jahn-Teller Instability and Formation of Valence Bond Solid in a Mixed-Valent Spinel Oxide $\text{LiRh}_2\text{O}_4$
Masaru Takizawa	14253	102 (2009) 236401	理研 理研	BL17SU BL29XU	Spectroscopic Evidence for Competing Reconstructions in Polar Multilayers $\text{LaAlO}_3/\text{LaVO}_3/\text{LaAlO}_3$

Proteins: Structure, Function, and Bioinformatics

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	タイトル
Keiko Sakamoto	14016	75 (2009) 528-532	理研	BL26B2	X-ray Crystal Structure of a CRISPR-associated RAMP Superfamily Protein, Cmr5, from <i>Thermus thermophilus</i> HB8
Koji Nagata	14036	70 (2008) 1103-1107	理研	BL26B2	Crystal Structure of TTHA0303 (TT2238), a Four-Helix Bundle Protein with an Exposed Histidine Triad from <i>Thermus thermophilus</i> HB8 at 2.0Å
Fumiaki Tomoike	14144	76 (2009) 244-248	理研	BL26B2	Crystal Structure of the Conserved Hypothetical Protein TTHA1606 from <i>Thermus thermophilus</i> HB8

Physical Review B

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	タイトル
Ritsuko Eguchi	14007	79 (2009) 115122	理研	BL17SU	Fermi Surfaces, Electron-hole Asymmetry, and Correlation Kink in a Three-Dimensional Fermi Liquid $\text{LaNiO}_3$
Hiroshi Tanaka	14305	74 (2006) 172105	理論	BL02B2	Electrostatic Potential of Ferroelectric $\text{PbTiO}_3$ : Visualized Electron Polarization of Pb Ion

**Journal of Molecular Biology**

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	タイトル
Hirofumi Komori	14216	367 (2007) 864-871	理研	BL44B2	Crystal Structure of CO-sensing Transcription Activator CooA Bound to Exogenous Ligand Imidazole
Yasuhito Shomura	14353	372 (2007) 1045-1054	理研	BL44B2	Crystal Structures of Hydrogenase Maturation Protein HypE in the Apo and ATP-bound Forms

**Acta Crystallographica Section F**

Akihiro Yamamura	14093	65 (2009) 455-459	理研	BL26B1	Structure of TTHA1623, a Novel Metallo-β-lactamase Superfamily Protein from <i>Thermus thermophilus</i> HB8
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**The Journal of Biological Chemistry**

Yuki Oguchi	14202	283 (2008) 25414-25420	理研	BL44B2	Opening and Closing of the Hydrophobic Cavity of LolA Coupled to the Lipoprotein Binding and Release
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**The Journal of Chemical Physics**

Sekika Yamamoto	14157	124 (2006) 144511	原研	BL14B1	Pressure Dependence of Local Structure in Liquid Carbon Disulfide
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**Journal of Physics: Condensed Matter**

Yasuhiro Inamura	14146	19 (2007) 415104	原研	BL14B1	Transformation in Intermediate-Range Structure of Vitreous Silica under High Pressure and Temperature
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**Journal of Synchrotron Radiation**

Yoshihiro Asano	14113	16 (2009) 317-324	XFEL		Analyses of the Factors for the Demagnetization of Permanent Magnets Caused by High Energy Electron Irradiation
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**Molecular Cell**

Shuji Akiyama	14002	29 (2008) 703-716	理研	BL45XU	Assembly and Disassembly Dynamics of the Cyanobacterial Periodosome
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**Physica Status Solidi A**

Katsuaki Sato	14008	206 (2009) 1-5	理研	BL17SU	Characterization of Fe 3d States in CuFeS <sub>2</sub> by Resonant X-ray Emission Spectroscopy
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**Physical Chemistry Chemical Physics**

Takashi Tokushima	14009	11 (2009) 1679-1682	理研	BL17SU	Selective Observation of the Two Oxygen Atoms at Different Sites in the Carboxyl Group (-COOH) of Liquid Acetic Acid
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**Science**

Beom Joon Kim	14048	323 (2009) 1329-1332	理研 理研	BL19LXU BL29XU	Phase-Sensitive Observation of a Spin-Orbital Mott State in Sr <sub>2</sub> IrO <sub>4</sub>
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**日本結晶学会誌 ( Journal of the Crystallographic Society of Japan )**

Akira Yoshiasa	14152	51 (2009) 66-69	原研	BL14B1	High Pressure and High Temperature EXAFS and Diffraction Study of AgI (MS35)
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