

## 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19年12月～平成20年1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、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、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、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	ビームライン	実験責任者	タイトル
Sung-Kwan Mo	11768	74 (2006) 165101	2000B0335	BL25SU	Allen James	Photoemission Study of $(V_{1-x}M_x)_2O_3$ (M=Cr,Ti)
Taku Tsuchiya	11832	76 (2007) 174108	2006A1154	BL10XU	遊佐 斉	Post-Rh <sub>2</sub> O <sub>3</sub> (II) Transition and the High Pressure-Temperature Phase Diagram of Gallia: A First-Principles and X-ray Diffraction Study
			2006B1121	BL10XU	遊佐 斉	
John Tse	11851	76 (2007) 174109	2004A0603	BL10XU	Jiang Jianzhong	Electron Density Topology of High-pressure Ba <sub>8</sub> Si <sub>46</sub> from a Combined Rietveld and Maximum-entropy Analysis
Henning Sternemann	11878	75 (2007) 245102	2006B4261	BL12XU	Tse John	Giant Dipole Resonance of Ba in Ba <sub>8</sub> Si <sub>46</sub> : An Approach for Studying High-Pressure Induced Phase Transitions of Nanostructured Materials
Jung-Fu Lin	11879	75 (2007) 012201	2006A4256	BL12XU	Lin Jung-Fu	Electronic Bonding Transition in Compressed SiO <sub>2</sub> Glass
Shih-Lin Chang	11903	73 (2006) 134111	2006A4261	BL12XU	Chang Shih-Lin	Fabry-Perot Resonator for Hard X Rays: A Diffraction Experiment
Masao Yano	11976	77 (2008) 035118	2004A6009	BL25SU	菅 滋正	Electronic Structure of CeRu <sub>2</sub> X <sub>2</sub> (X = Si, Ge) in the Paramagnetic Phase Studied by Soft X-ray ARPES and Hard X-ray Photoelectron Spectroscopy
			2006A1167	BL25SU	関山 明	
			2007A1005	BL25SU	菅 滋正	
Xu-Guang Zheng	12060	77 (2008) 024418	2006B1189	BL02B2	Zheng Xu-Guang	Defect-induced Short-range-order from a Spin-ice Related State in Deformed Pyrochlore Structure Co <sub>2</sub> (OH) <sub>3</sub> Cl

### Biochemistry

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
Rey-Ting Guo	8635	43 (2004) 7678-7686	C04A1017	BL12B2	Wang Andrew H.-J.	A Molecular Ruler for Chain Elongation Catalyzed by Octaprenyl Pyrophosphate Synthase and Its Structure-Based Engineering to Produce Unprecedented Long Chain <i>Trans</i> -Prenyl Products
Yu-Chih Lo	8648	44 (2005) 1971-1979	C05A1013	BL12B2	Liaw Yen-Chywan	Substrate Specificities of Escherichia <i>Coli</i> Thioesterase I/Protease I/Lysophospholipase L <sub>1</sub> are Governed by Its Switch Loop Movement
Ting-Shou Chen	8649	44 (2005) 7414-7426	C05A1014	BL12B2	Chen Chun-Jung	Structural Difference between Group I and Group II Cobra Cardiotoxins: X-ray, NMR, and CD Analysis of the Effect of <i>cis</i> -Proline Conformation on Three-Fingered Toxins
Norihisa Tamura	9964	44 (2005) 11115-11121	2005A0036	BL41XU	村上 聡	Direct Interaction of Multidrug Efflux Transporter AcrB and Outer Membrane Channel TolC Detected via Site-Directed Disulfide Cross-Linking

### Applied Physics Letters

Chao-Hung Du	11902	88 (2006) 241916	2005B4006	BL12B2	Chang Shih-Lin	Direct Measurement of Spatial Distortions of Charge Density Waves in K <sub>0.3</sub> MoO <sub>3</sub>
Yukako Kato	11980	91 (2007) 251916	2004B0927 2005A0538	BL25SU BL25SU	大門 寛 加藤 有香子	Dopant-site Effect in Superconducting Diamond (111) Studied by Atomic Stereophotography
Nadia Zatsepin	12034	92 (2008) 034101	2006B1033	BL13XU	Nikulin Andrei	Early Detection of Nanoparticle Growth from X-ray Reciprocal Space Mapping

### Japanese Journal of Applied Physics

Tsukasa Nakai	11163	46 (2007) 3968-3972	2006A1641	BL47XU	中居 司	Effect of Interface Layers on Phase-Change Recording Material Analyzed by Hard X-ray Photoelectron Spectroscopy Method
			2005B0232	BL47XU	吉木 昌彦	
Yoshihiro Saito	11887	46 (2007) 5771-5773	2005B0789	BL39XU	斎藤 吉広	Characterization of SiN <sub>x</sub> /Ga <sub>x</sub> In <sub>1-x</sub> As Interface using Hard X-ray Photoemission Spectroscopy
Yuki Nakamoto	12078	46 (2007) 640-641	2007A1338	BL10XU	中本 有紀	Generation of Multi-Megabar Pressure Using Nano-Polycrystalline Diamond Anvils

### Journal of Magnetism and Magnetic Materials

Masao Yano	11769	310 (2007) 437-439	2004A6009	BL25SU	菅 滋正	Bulk 3-D Fermi Surfaces of CeRu <sub>2</sub> Ge <sub>2</sub> Probed by Soft X-ray ARPES
			2004B0400	BL25SU	関山 明	
Hidenori Fujiwara	11770	310 (2007) 816-818	2001A0129	BL25SU	関山 明	Dimensionality of the Electronic States in Nd <sub>0.45</sub> Sr <sub>0.55</sub> MnO <sub>3</sub> Studied by Soft X-ray Photoemission
			2001B0174	BL25SU	関山 明	
			2003A0593	BL25SU	関山 明	
Toshio Miyamachi	11771	310 (2007) e252-e254	2001A0075	BL25SU	菅 滋正	Bulk Sensitive Core-level Photoemission Spectroscopy of VO <sub>2</sub>
			RIKEN	BL19LXU		

### Journal of Non-Crystalline Solids

Takeshi Usuki	11941	353 (2007) 3040-3044	2003B0452	BL04B2	白杵 毅	Structure of Fast Ion Conducting AgI-As <sub>2</sub> Se <sub>3</sub> Glasses
			2004B0320	BL04B2	白杵 毅	
			2005B0735	BL04B2	白杵 毅	
			2006A1551	BL04B2	白杵 毅	
Junpei Okada	11995	353 (2007) 3174-3176	2004A0510	BL35XU	岡田 純平	High-resolution Inelastic X-ray Scattering Measurements of an Al <sub>72</sub> Pd <sub>20</sub> Mn <sub>8</sub> Alloy above the Melting Point
Yutaka Murakami	11943	353 (2007) 2035-2038	2005B0735	BL04B2	白杵 毅	Structure Modelling for Covalently Bonded Network Glasses
			2006A1551	BL04B2	白杵 毅	

## Journal of Physics: Condensed Matter

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
Takashi Uchino	11910	19 (2007) 455214	2004A0417	BL04B2	内野 隆司	Modification of Medium-Range Order in Silica Glass by Ball Milling: Real- and Reciprocal-Space Structural Correlations for the First Sharp Diffraction Peak
Toshihiro Nagao	11949	20 (2008) 055201	J05A0513 2006A0097	BL08W BL08W	伊藤 真義 桜井 浩	Momentum-density Distribution of Magnetic Electrons in Ferromagnetic Nickel
Masahiro Nagao	11970	76 (2007) 492201	2006B4504	BL15XU	長尾 全寛	Nanostructural Evidence at the Phase Boundary of A- and C-type Antiferromagnetic Phases in $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$ Crystals

## Polymer Journal

Masaru Kotera	11981	39 (2007) 1295-1299	2003B0262	BL46XU	西野 孝	Elastic Modulus of the Crystalline Regions of Poly ( <i>p</i> -phenylene terephthalamide) Single Fiber Using SPring-8 Synchrotron Radiation
Yo Nakamura	12005	39 (2007) 1098-1104	2005B0088 2002B0112	BL40B2 BL40B2	中村 洋 中村 洋	Synchrotron Small-Angle X-ray Scattering from Polystyrene Polymacromonomers in Toluene
Kohji Tashiro	12077	39 (2007) 1253-1273	2003A0043 2003B0161	BL04B2 BL04B2	田代 孝二 田代 孝二	Structural Refinement and Extraction of Hydrogen Atomic Positions in Polyoxymethylene Crystal Based on the First Successful Measurements of 2-Dimensional High-Energy Synchrotron X-ray Diffraction and Wide-Angle Neutron Diffraction Patterns of Hydrogenated and Deuterated Species

## Earth and Planetary Science Letters

Tetsuya Komabayashi	11973	260 (2007) 564-569	2005A5013 2005B0010	BL10XU BL10XU	巽 好幸 巽 好幸	Phase Transition in $\text{CaSiO}_3$ Perovskite
Tetsuya Komabayashi	11974	265 (2008) 515-524	2006A0099 2006B0099	BL10XU BL10XU	廣瀬 敬 廣瀬 敬	Simultaneous Volume Measurements of Post-perovskite and Perovskite in $\text{MgSiO}_3$ and Their Thermal Equations of State

## Journal of Applied Physics

Chao-Hung Du	11904	101 (2007) 104915	2006A4001	BL12B2	Chang Shih-Lin	Nonlinearity and Dynamic Phase Transition of Charge-Density-Wave Lattice
Lingqi Li	12013	102 (2007) 114908	2006B1239 2006B1018	BL20XU BL20XU	大垣 智巳 戸田 裕之	Wavelet-based Local Region-of-Interest Reconstruction for Synchrotron Radiation X-ray Microtomography

## Journal of Physics: Conference Series

Satoshi Tsutsui	11931	92 (2007) 012171	2004A0589 2005A0369	BL09XU BL35XU	筒井 智嗣 筒井 智嗣	Low-lying Optical Modes in Filled Skutterudites using Inelastic X-ray Scattering Techniques
Shinji Nakashima	11945	92 (2007) 012136	2006A1453 2006A1448	BL35XU BL04B2	川北 至信 川北 至信	Phonon Dispersion of Metallic Glass $\text{CuZr}_2$

## Physical Review Letters

Ke Yang	11877	98 (2007) 036404	C05A1510	BL12XU	石井 啓文	Inelastic X-ray Scattering Study of Exciton Properties in an Organic Molecular Crystal
Yen-Ru Lee	11906	97 (2006) 185502	2006B4001	BL12B2	Chang Shih-Lin	Multiple-wave Diffraction Anomalous Fine Structure

## Surface Science

Kazushi Sumitani	11907	601 (2007) 5195-5199	2003A0618	BL13XU	高橋 敏男	Structural Study of $\text{Si}(111)\text{-}6 \times 1\text{-Ag}$ Surface Using Surface X-ray Diffraction
Namdong Kim	11964	602 (2008) 369-374	2005A0007	BL13XU	Chung Jinwook	Atomic Structure of a Thallium Nanodot Lattice Formed on the $\text{Si}(111)\text{-}7 \times 7$ Surface

## Acta Crystallographica Section F

Toshio Iwasaki	11962	63 (2007) 1014-1016	2007A1271	BL41XU	清水 伸隆	Crystallization and Preliminary X-ray Diffraction Studies of the ISC-like $[\text{2Fe-2S}]$ Ferredoxin (FdxB) from <i>Pseudomonas putida</i> JCM 20004
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**Angewandte Chemie International Edition**

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
Takato Mitsudome	11827	47 (2007) 138-141	2007A1677	BL01B1	金田 清臣	Oxidant-Free Alcohol Dehydrogenation Using a Reusable Hydrotalcite-Supported Silver Nanoparticle Catalyst

**Applied Catalysis A: General**

Dalin Li	12059	332 (2007) 98-109	2006B1217	BL01B1	穴戸 哲也	Self-activation and Self-regenerative Activity of Trace Rh-doped Ni/Mg(Al)O Catalysts in Steam Reforming of Methane
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**Biochemical and Biophysical Research Communications**

Shinya Mimasu	12080	366 (2008) 15-22	2006A1494	BL41XU	仙石 徹	Crystal Structure of Histone Demethylase LSD1 and Tranylcypromine at 2.25 Å
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**Biophysical Journal**

James Pearson	11860	93 (2007) 4319-4329	2003A0465 2003B0382	BL40XU BL40XU	白井 幹康 白井 幹康	Effects of Sustained Length-Dependent Activation on In Situ Cross-Bridge Dynamics in Rat Hearts
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**Bulletin of the Chemical Society of Japan**

Yasuo Kameda	11886	80 (2007) 2329-2333	2006A1034	BL04B2	亀田 恭男	X-ray Diffraction Studies on the Structure of Concentrated Aqueous Solutions Involving Alanine Molecules with Different Optical Activities
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**Chemical Physics Letters**

Ralph Puettner	11765	445 (2007) 6-11	2006B1150	BL27SU	Puettner Ralph	Potential Energy Curves of the Quasi-Stable States of CO <sup>2+</sup> Determined Using Auger Spectroscopy
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**Chemistry Letters**

Nobuyuki Kitajima	11863	37 (2008) 32-33	2006A0180	BL37XU	北島 信行	Observation of Arsenic Transfer in Leaf Tissue of Hyperaccumulator Fern by Utilizing Synchrotron Radiation Micro-XRF Imaging
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**ChemMedChem**

Hiromasa Kurosaki	10071	1 (2006) 969-972	2002B0801	BL38B1	山縣 ゆり子	Probing, Inhibition, and Crystallographic Characterization of Metallo-β-lactamase (IMP-1) with Fluorescent Agents Containing Dansyl and Thiol Groups
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**Crystallography Reports**

Shih-Lin Chang	11905	52 (2007) 23-27	2007A4250	BL12XU	Chang Shih-Lin	Realization of Fabry-Perot Resonators for Hard X-Rays Using Micro- and Nanotechnology
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**ECS Transactions**

Shinji Fujieda	11930	6 (2007) 185-202	2005B3803	BL23SU	寺岡 有殿	Bias Temperature Instability Characterization of Advanced Gate Stacks
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**Europhysics Letters**

David Schrupp	11767	70 (2005) 789-795	2002B0104 2003B0159	BL25SU BL25SU	Claessen Ralph Sing Michael	High-energy Photoemission on Fe <sub>3</sub> O <sub>4</sub> : Small Polaron Physics and the Verwey Transition
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**Journal of Applied Physiology**

Daryl Schwenke	11862	102 (2007) 787-793	2006B1401	BL28B2	Pearson James	Imaging of the Pulmonary Circulation in the Closed-Chest Rat using Synchrotron Radiation Microangiography
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**Journal of Catalysis**

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
Dalin Li	11783	250 (2007) 299-312	2006B1217	BL01B1	宍戸 哲也	Self-regenerative Activity of Ni/Mg(Al)O Catalysts with Trace Ru during Daily Start-up and Shut-down Operation of CH <sub>4</sub> Steam Reforming

**The Journal of Chemical Physics**

Darrah Thomas	12081	127 (2007) 244309	2007A1046	BL27SU	Thomas Darrah	Boron 1s Photoelectron Spectrum of <sup>11</sup> B <sub>F</sub> <sub>3</sub> : Vibrational Structure and Linewidth
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**Journal of Electron Spectroscopy and Related Phenomena**

Akihiko Shigemoto	11772	156 (2007) 472-475	2000B0337	BL25SU	菅 滋正	Observation of Bulk Electronic States of Kondo Semiconductor YbB <sub>12</sub> by High-resolution Soft X-ray Photoemission Spectroscopy
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**Journal of Mineralogical and Petrological Sciences**

Daisuke Hamane	11816	102 (2007) 291-297	2006A1459	BL10XU	藤野 清志	Ferric Iron and Aluminum Partitioning between MgSiO <sub>3</sub> - and CaSiO <sub>3</sub> -perovskites under Oxidizing Conditions
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**The Journal of Physical Chemistry B**

Xianyu Xue	11846	111 (2007) 13156-13166	2006A1008	BL04B1	神崎 正美	High-Pressure -Al(OH) <sub>3</sub> and -AlOOH Phases and Isostructural Hydroxides/ Oxyhydroxides: New Structural Insights from High-Resolution <sup>1</sup> H and <sup>27</sup> Al NMR
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**Journal of the Physical Society of Japan**

Kazuuya Yamamoto	11859	76 (2007) 124705	C05A2001	BL15XU	Vlaicu Aurel	Intermediate-valence Behavior of YbCu <sub>5-x</sub> Al <sub>x</sub> around Quantum Critical Point Measured by Resonant Inelastic X-ray Scattering at Yb L <sub>3</sub> Absorption Edge
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**Materials Science and Engineering A**

Yutaka Murakami	11942	449-451 (2007) 544-547	2003B0452 2004B0320	BL04B2 BL04B2	白杵 毅 白杵 毅	Intermediate-range Structure of Amorphous GeSe <sub>2</sub> Alloy
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**Nature Materials**

Marc De Boissieu	12018	6 (2007) 977-984	2004A0439	BL35XU	De Boissieu Marc	Lattice Dynamics of the Zn-Mg-Sc Icosahedral Quasicrystal and its Zn-Sc Periodic 1/1 Approximant
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**Nuclear Instruments and Methods in Physics Research Section A**

Konstantin Pavlov	11818	548 (2005) 163-168	2005A0065 2003B0190	BL20B2 BL20B2	Pavlov Konstantin Lewis Rob	Unification of Analyser-based and Propagation-based X-ray Phase-Contrast Imaging
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**Physica B**

Ignace Jarrige	11876	378-380 (2006) 1154-1155	C04B1500	BL12XU	Jarrige Ignace	f-level Occupancy in TmTe Under Pressure Investigated by High-resolution X-ray Absorption Spectroscopy
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**Physics and Chemistry of Minerals**

Hiroaki Ohfuji	12068	34 (2007) 335-343	2005B7005 2006A0099	BL10XU BL10XU	巽 好幸 廣瀬 敬	A New High-Pressure and High-Temperature Polymorph of FeS
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**Proteins: Structure, Function, and Bioinformatics**

Hiroyoshi Matsumura	11549	70 (2008) 592-598	2006B6806 2006B1642	BL44XU BL38B1	井上 豪 井上 豪	Novel Cation- Interaction Revealed by Crystal Structure of Thermoalkalophilic Lipase
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**Proceedings of the National Academy of Sciences of the United States of America**

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
Akira Nakamura	12072	104 (2007)	2005B0458	BL41XU	三木 邦夫	Structural Basis for Regulation of Bifunctional Roles in Replication Initiator Protein
		18484-18489	2007A1375	BL41XU	三木 邦夫	
			2003B0863	BL41XU	三木 邦夫	
			2004A0676	BL41XU	三木 邦夫	
			2004B0838	BL41XU	三木 邦夫	
			2005A0854	BL41XU	三木 邦夫	
			2005B1798	BL41XU	三木 邦夫	
			2006A2716	BL41XU	三木 邦夫	
			2006B2664	BL41XU	三木 邦夫	
			2003A0437	BL41XU	三木 邦夫	
			RIKEN	BL26B1		
			RIKEN	BL44B2		

**Science**

Umeharu Ohto	11172	316 (2007) 1632-1634	2006B1687	BL38B1	大戸 梅治	Crystal Structures of Human MD-2 and Its Complex with Antiendotoxic Lipid IVa
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**Solid State Ionics**

Takeshi Usuki	11939	177 (2006)	2003B0452	BL04B2	臼杵 毅	Ionic Conduction Pathways in Noble Metal Chalcocyanide Glasses
		2581-2584	2004B0320	BL04B2	臼杵 毅	
			2005B0735	BL04B2	臼杵 毅	
			2006A1551	BL04B2	臼杵 毅	

**Surface and Coatings Technology**

Masahito Tagawa	11777	202 (2007) 1003-1010	2006A1598	BL23SU	田川 雅人	Space Environmental Effects on MoS <sub>2</sub> and Diamond-like Carbon Lubricating Films: Atomic Oxygen-induced Erosion and its Effect on Tribological Properties
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**画像ラボ (Image Lab)**

Mitsuru Nakazawa	11838	(2007) 10-14	2005A0066	BL20B2	Wilkinson David	材料内部の変形・破壊特性のための3次元画像解析
			2005B0019	BL47XU	戸田 裕之	

**電気学会論文誌C (IEEJ Transactions on Electronic, Information and Systems)**

Mitsuru Nakazawa	11839	127 (2007) 824-830	2005A0066	BL20B2	Wilkinson David	3D Image Analysis for Evaluating Internal Deformation / Fracture Characteristics of Materials
			2005B0019	BL47XU	戸田 裕之	

**粉体および粉末冶金 (Journal of the Japan Society of Powder and Powder Metallurgy)**

Kengo Oka	11908	54 (2007) 53-57	2007A1810	BL02B2	岡 研吾	Synthesis and Physical Property of Triangular Lattice Antiferromagnet InFe <sub>2</sub> O <sub>4</sub>
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**Doctor Thesis**

Thomas Claesson	11762	(2007)	2006A1001	BL25SU	Månsson Martin	Investigations of Transition Metal Systems
			2006B1020	BL25SU	Månsson Martin	
Martin Månsson	11763	(2007)	2006A1001	BL25SU	Månsson Martin	Adatoms, Quasiparticles & Photons
			2006B1020	BL25SU	Månsson Martin	

課題以外の成果として登録された論文

**The Journal of Biological Chemistry**

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
Takashi Kumasaka	11961	282 (2007)	RIKEN	BL45XU	Crystal Structure of Blastocidin S Deaminase (BSD) <i>Implications for Dynamical Properties of Catalytic Zinc</i>
		37103-37111	RIKEN	BL26B1	
Seong Kim	12071	282 (2007) 33107-33117	RIKEN	BL44B2	Crystal Structure of the Oxygenase Component (HpaB) of the 4-Hydroxyphenylacetate 3-Monooxygenase from <i>Thermus thermophilus</i> HB8

**Acta Crystallographica Section A**

Kenji Tamasaku	11892	63 (2007) 437-438	RIKEN	BL19LXU	Idler Energy Dependence of Nonlinear Diffraction in X + EUV Parametric Down-Conversion
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**Biochemistry**

Katsuyoshi Harada	11780	46 (2007)	RIKEN	BL44B2	Structure and Ligand Binding Properties of Myoglobins Reconstituted with Monodepropionated Heme: Functional Role of Each Heme Propionate Side Chain
		9406-9416	RIKEN	BL45XU	

**Journal of Structural Biology**

Thirumananseri Kumarevel	12079	161 (2008) 9-17	RIKEN	BL26B1	Crystal Structure of the MarR Family Regulatory Protein, ST1710, from <i>Sulfolobus tokodaii</i> Strain 7
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Seong Kim	12073	70 (2008) 718-730	RIKEN	BL45XU	Crystal Structures of the Flavin Reductase Component (HpaC) of 4-Hydroxyphenylacetate 3-Monooxygenase from <i>Thermus thermophilus</i> HB8: Structural Basis for the Flavin Affinity
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