

## 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20年10月～12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、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。また、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
Kenji Nomura	12397	75 (2007) 035212	2005A0226	BL01B1	細野 秀雄	Local Coordination Structure and Electronic Structure of the Large Electron Mobility Amorphous Oxide Semiconductor In-Ga-Zn-O: Experiment and <i>ab initio</i> Calculations
Susumu Shiraki	13035	78 (2008) 115428	2004B0523	BL25SU	川合 真紀	Magnetic Structure of Periodically Meandered One-Dimensional Fe Nanowires
			2004B0774	BL25SU	白木 将	
Laszlo Deák	13044	76 (2007) 224420	2006A1556	BL09XU	Bottyan Laszlo	Perturbative Theory of Grazing-Incidence Diffuse Nuclear Resonant Scattering of Synchrotron Radiation
			2004B0749	BL09XU	Bottyan Laszlo	
			2002B0239	BL09XU	Bottyan Laszlo	
Shigenori Ueda	13249	78 (2008) 205206	1997B1043	BL25SU	菅 滋正	Electronic Structures and <i>p-d</i> Exchange Interaction of Mn-doped Diluted Magnetic Semiconductors
			1999A0404	BL25SU	関山 明	
Satoshi Higashitaniguchi	13278	78 (2008) 174507	2006B3501	BL11XU	三井 隆也	Iron-specific Phonon Density of States in the Superconductors LaFeAsO <sub>1-x</sub> F <sub>x</sub> and La <sub>1-x</sub> Ca <sub>x</sub> FePO
			2007A3501	BL11XU	三井 隆也	
			2007B3501	BL11XU	三井 隆也	
Tomohiro Matsushita	13377	78 (2008) 144111	2005A0445	BL25SU	松下 智裕	Reconstruction Algorithm for Atomic-Resolution Holography using Translational Symmetry
Shinobu Aoyagi	13410	78 (2008) 224102	2003B6004	BL10XU	高田 昌樹	Charge Density Distribution of KMnF <sub>3</sub> under High Pressure
			2008A0096	BL02B2	西堀 英治	
Hiroshi Shiraki	13412	76 (2007) 014043R	2006B1130	BL02B2	東 正樹	Ferromagnetic Cuprates CaCu <sub>3</sub> Ge <sub>4</sub> O <sub>12</sub> and CaCu <sub>3</sub> Sn <sub>4</sub> O <sub>12</sub> with A-site Ordered Perovskite Structure

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
Osami Sakata	13059	33 (2008) 625-628	2004B0382	BL13XU	坂田 修身	X-ray Reciprocal-Lattice Space Imaging Method for Quick Analysis of Buried Crystalline Nanostructure –a Diffraction Method Fixed at an Angular Position
			2005B0435	BL13XU	坂田 修身	
			J04A0512	BL13XU	坂田 修身	
Rie Haruki	13060	33 (2008) 629-631	2007B1899	BL13XU	春木 理恵	Structural Evaluation of an Iron Oxalate Complex Layer Grown on an Ultra-Smooth Sapphire (0001) Surface by a Wet Method
			2007A1680	BL13XU	坂田 修身	
Hiroo Tajiri	13061	33 (2008) 619-622	2004B0382	BL13XU	坂田 修身	Transmission X-ray Diffraction from Bismuth Lines Embedded in Silicon
			J03B0501	BL13XU	田尻 寛男	
Takehiro Noda	13063	33 (2008) 557-560	2004A0076	BL13XU	高橋 功	Structural Study on Interface between Thick Gallium Layer and SiC Substrate by X-ray Reflectivity under Transmission Geometry
			2004B0115	BL13XU	高橋 功	
Tomoaki Kawamura	13068	33 (2008) 599-602	2004B0031	BL46XU	川村 朋晃	Depth Distribution of Ge Fraction in Very-Thin-SGOI Layers Using Total-External-Reflection X-ray Diffraction
			R05A0032	BL46XU	木村 滋	
			2005B0936	BL46XU	木村 滋	
Wataru Yashiro	13097	33 (2008) 607-610	2007A1695	BL09XU	矢代 航	Similarity between Strain Fields Induced by the Xe/NH <sub>3</sub> Plasma Nitridation and the K/O <sub>2</sub> Plasma Oxidation Revealed by a Multi-Wave X-ray Diffraction Phenomenon
			2007B1076	BL09XU	矢代 航	
Wataru Yashiro	13098	33 (2008) 623-624	2004B0382	BL13XU	坂田 修身	X-ray Diffraction from Buried Bi Atomic Wire Formed on Si(001) - Near the Bi LIII Absorption Edge
Masashi Nakamura	13117	33 (2008) 633-636	2005A0368	BL13XU	中村 将志	The Surface Structure of Reconstructed Pt(211)-(2 x 1) Determined using Surface X-ray Diffraction
			2006A1065	BL13XU	中村 将志	

Physical Review Letters

Fumihiko Matui	12498	100 (2008) 207201	2005B0726	BL25SU	松井 文彦	Atomic-layer Resolved Magnetic and Electronic Structure Analysis of Ni Thin Film on a Cu(001) Surface by Diffraction Spectroscopy
			2006A1688	BL25SU	松井 文彦	
Takahiko Sasaki	13263	101 (2008) 206403	2007B1150	BL43IR	佐々木 孝彦	Optical Probe of Carrier Doping by X-ray Irradiation in the Organic Dimer Mott Insulator -(BEDT-TTF) <sub>2</sub> Cu[N(CN) <sub>2</sub> ]Cl
			2008A1121	BL43IR	佐々木 孝彦	
Yasumasa Hikosaka	13327	101 (2008) 073001	2006B1500	BL27SU	繁政 英治	X-ray Absorption Measured in Resonant Auger Scattering Mode
			2007A1866	BL27SU	繁政 英治	
Tatsuo Kaneyasu	13328	101 (2008) 183003	2006A1516	BL27SU	繁政 英治	Mechanism of Spontaneous Two-Electron Emission from Core-Excited States of Molecular CO
Xiao-Jing Liu	13342	101 (2008) 023001	2001A0363	BL27SU	齋藤 則生	Internal Inelastic Scattering Satellite Probed by Molecular-Frame Photoelectron Angular Distributions from CO <sub>2</sub>
			2001B0034	BL27SU	齋藤 則生	
			2002A0609	BL27SU	齋藤 則生	
Xiao-Jing Liu	13343	101 (2008) 083001	2001A0363	BL27SU	齋藤 則生	Breakdown of the Two-Step Model in K-Shell Photoemission and Subsequent Decay Probed by the Molecular-Frame Photoelectron Angular Distributions of CO <sub>2</sub>
			2001B0034	BL27SU	齋藤 則生	
			2002A0609	BL27SU	齋藤 則生	
Georg Prümper	13350	101 (2008) 233202	2007B1089	BL27SU	Pruemper Georg	Is CO Carbon KVV Auger Electron Emission Affected by the Photoelectron?

Journal of Physics B: Atomic, Molecular and Optical Physics

Yasumasa Hikosaka	13324	40 (2007) 2091-2097	2005A2489	BL27SU	下條 竜夫	Core-Valence Multiply Excited States in N <sub>2</sub> Probed by Detecting Metastable Fragments
Yuichiro Morishita	13326	41 (2008) 025101	2007A1394	BL27SU	上田 潔	Evidence of Interatomic Coulombic Decay in ArKr after Ar 2p Auger Decay
			2007A1602	BL27SU	森下 雄一郎	
Hironobu Fukuzawa	13344	41 (2008) 045102	2005A2367	BL27SU	齋藤 則生	Nitrogen K-shell Photoelectron Angular Distribution from NO Molecules in the Molecular Frame
Ralph Püttner	13345	41 (2008) 045103	2006B1150	BL27SU	Puettner Ralph	A Vibrational Resolved C 1s <sup>-1</sup> Auger Spectrum of CO <sub>2</sub>
Ralph Püttner	13346	41 (2008) 141001	2006B1150	BL27SU	Puettner Ralph	State-dependent Gerade/Ungerade Intensity Ratios in the Auger Spectrum of N <sub>2</sub>
Stacey Sorensen	13348	41 (2008) 095101	2003A0162	BL27SU	Sorensen Stacey	The O 1s Photoelectron Spectrum of Molecular Oxygen Revisited

## 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
Kenji Nomura	12535	92 (2008) 202117	2007A1971	BL47XU	細野 秀雄	Subgap States in Transparent Amorphous Oxide Semiconductor, In-Ga-Zn-O, Observed by Bulk Sensitive X-ray Photoelectron Spectroscopy
Sally Irvine	13080	93 (2008) 153901	2007B1329 2007B0002	BL20XU BL20B2	Parsons David Lewis Rob	Phase Retrieval for Improved Three-Dimensional Velocimetry of Dynamic X-ray Blood Speckle
Hiroyuki Saitoh	13088	93 (2008) 151918	2008A3604 2007B3609	BL14B1 BL14B1	齋藤 寛之 齋藤 寛之	Formation and Decomposition of AlH <sub>3</sub> in the Aluminum-Hydrogen System
Satoru Inoue	13092	92 (2008) 161911	2007A2061	BL39XU	河村 直己	Single-crystal Epitaxial Thin Films of SrFeO <sub>2</sub> with FeO <sub>2</sub> "Infinite Layers"
Osami Sakata	13441	93 (2008) 241904	2003B0735 2005B0954 2006B1457	BL13XU BL13XU BL13XU	坂田 修身 坂田 修身 坂田 修身	Transformation from an Atomically Stepped NiO Thin Film to a Nanotape Structure: A Kinetic Study Using X-ray Diffraction

## Chemical Physics Letters

Mafumi Hishida	12370	455 (2008) 297-302	2004B0520	BL40B2	瀬戸 秀紀	Hydration Process of Multi-stacked Phospholipid Bilayers to Form Giant Vesicles
Norio Saito	13322	441 (2007) 16-19	2006A1216 2006A1757	BL27SU BL27SU	Liu Xiao-Jing 齋藤 則生	Evidence of Radiative Transfer in Argon Dimers
Hironobu Fukuzawa	13334	436 (2007) 51-56	2004A0168	BL27SU	Pruemper Georg	Site-Specific Ion Pair Production via Normal Auger Decay of Free CH <sub>3</sub> F Molecules Studied by Electron-Ion-Ion Coincidence Spectroscopy
Hironobu Fukuzawa	13336	451 (2008) 182-185	2006B1158	BL27SU	Liu Xiao-Jing	Fluorine K-shell Photoelectron Angular Distribution from CF <sub>4</sub> Molecules in the Molecular Frame
Stacey Sorensen	13351	398 (2004) 168-174	2001B0120 2003A0162	BL27SU BL27SU	Sorensen Stacey Sorensen Stacey	Application of an Atomic Relaxation Model for the Interpretation of O1s to Rydberg Excited Auger Electron Spectra of Molecular Oxygen

## Journal of Electron Spectroscopy and Related Phenomena

Hisashi Hayashi	13268	168 (2008) 34-39	2005B0133 2006A1117 2006B1263	BL39XU BL39XU BL39XU	林 久史 林 久史 宇田川 康夫	A Cartography of K Resonant Inelastic X-ray Scattering for Lifetime-Broadening-Suppressed Spin-Selected XANES Spectra of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub>
Norio Saito	13323	156-158 (2007) 68-72	2006A1757 2006A1216 2005A0022 2005A2367	BL27SU BL27SU BL27SU BL27SU	齋藤 則生 Liu Xiao-Jing 齋藤 則生 齋藤 則生	Electron-Ion Multiple Coincidence Spectroscopy for Small Molecules and Clusters
Kiyoshi Ueda	13325	166-167 (2008) 3-10	2007A1394 2007A1602	BL27SU BL27SU	上田 潔 森下 雄一郎	Interatomic Coulombic Decay Following the Auger Decay: Experimental Evidence in Rare-Gas Dimers
Kiyoshi Ueda	13335	155 (2007) 113-118	2006A1757	BL27SU	齋藤 則生	Electron-Ion Coincidence Momentum Spectroscopy: Its Application to Ar Dimer Interatomic Decay
Takahiro Tanaka	13339	164 (2008) 24-27	2006A1440 2006B1480	BL27SU BL27SU	田中 大 田中 大	Photoabsorption Spectra of CF <sub>3</sub> I and Thermally Dissociated CF <sub>3</sub> I Near the C 1s, I 3d and F 1s Ionisation Thresholds

## Journal of Physics: Condensed Matter

Hisao Kobayashi	13140	20 (2008) 415217	2003A0309	BL10XU	小林 寿夫	Pressure-induced Melting of Charge-order in Eu <sub>4</sub> As <sub>3</sub> without Structural Change
Yukio Kajihara	13229	20 (2008) 494244	2005B0093	BL35XU	乾 雅祝	Dynamical Inhomogeneity of Liquid Te Near the Melting Temperature Proved by Inelastic X-ray Scattering Measurements
Vishwajeet Kulkarni	13238	20 (2008) 075203	2003A0028	BL01B1	Sarode Prabhakar	Effect of Ti <sup>4+</sup> Substitution on Structural, Transport and Magnetic Properties of La <sub>0.67</sub> Sr <sub>0.33</sub> Mn <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub>
Kaustubh Priolkar	13239	20 (2008) 335227	2003A0028	BL01B1	Sarode Prabhakar	Local Structural Changes in Paramagnetic and Charge-ordered Phases of Sm <sub>0.2</sub> Pr <sub>0.3</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> : an EXAFS Study
Jesus Chaboy	13298	21 (2009) 016002	J05A0509	BL39XU	河村 直己	XAS and XMCD Study of the Influence of Annealing on the Atomic Ordering and Magnetism in an NiMnGa Alloy

## 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	実験責任者	タイトル
Tatsuo Yanagisawa	12345	378 (2008) 634-652	2004A0177	BL41XU	関根 俊一	Crystallographic Studies on Multiple Conformational States of Active-Site Loops in Pyrrolysyl-tRNA Synthetase
			2004B0416	BL41XU	仙石 徹	
			2005A0392	BL41XU	関根 俊一	
			2005A0733	BL41XU	仙石 徹	
			2005B0529	BL41XU	関根 俊一	
			2005B0083	BL41XU	伊藤 拓宏	
		理研	BL26B1			
Kohei Ogura	12595	380 (2008) 373-385	2006B1214	BL38B1	橋本 涉	Substrate Recognition by Family 7 Alginate Lyase from <i>Sphingomonas</i> sp. A1
Yoshimitsu Shimomura	13121	383 (2008) 133-143	2005B0984	BL41XU	福山 恵一	The Asymmetric Trimeric Architecture of [2Fe-2S] IscU: Implications for Its Scaffolding during Iron-Sulfur Cluster Biosynthesis
			2006A2727	BL41XU	福山 恵一	
Tatsuo Yanagisawa	13489	378 (2008) 634-652	2005B0529	BL41XU	関根 俊一	Crystallographic Studies on Multiple Conformational States of Active-site Loops in Pyrrolysyl-tRNA Synthetase

## Acta Crystallographica Section F

Ryo Takahashi	12617	63 (2007) 375-377	2006B1666	BL38B1	吉田 卓也	Crystallization of Human Nicotinamide Phosphoribosyltransferase
			2006A1719	BL38B1	吉田 卓也	
Che-Yen Wang	12659	64 (2008) 318-322	2007B1696	BL41XU	山下 哲生	Crystallization and Preliminary X-ray Diffraction Analysis of Recombinant Hepatitis E Virus-like Particle
Eiko Matsumoto	13472	64 (2008) 453-458	2006B1766	BL41XU	関根 俊一	Structure of an N-terminally Truncated Selenophosphate Synthetase from <i>Aquifex aeolicus</i>

## Applied Geochemistry

Yoshio Takahashi	13311	23 (2008) 2452-2461	2005B0181	BL37XU	高橋 嘉夫	High-Sensitive Measurement of Uranium L <sub>III</sub> -Edge X-ray Absorption Near-Edge Structure (XANES) for the Determination of the Oxidation States of Uranium in Crustal Materials
			2006B1701	BL37XU	板井 啓明	
			2004B0169	BL37XU	高橋 嘉夫	
			2006A1497	BL37XU	高橋 嘉夫	
			2006B1099	BL01B1	高橋 嘉夫	
Takaaki Itai	13314	23 (2008) 2667-2675	2007A1804	BL01B1	板井 啓明	Selective Detection of Fe and Mn Species at Mineral Surfaces in Weathered Granite by Conversion Electron Yield X-ray Absorption Fine Structure
			2007B1332	BL01B1	高橋 嘉夫	
			2006A1596	BL01B1	光延 聖	
			2006B1099	BL01B1	高橋 嘉夫	
Satoshi Mitsunobu	13424	23 (2008) 3236-3243	2006A1533	BL01B1	田中 万也	Characterization of Fe(III) (hydr)oxides in Arsenic Contaminated Soil under Various Redox Conditions by XAFS and Mössbauer Spectroscopies
			2006A1596	BL01B1	光延 聖	
			2006B1704	BL01B1	光延 聖	

## Applied Surface Science

Yoshihisa Yamamoto	13099	254 (2008) 6232-6234	2006B1629	BL23SU	末光 眞紀	SR-PES and STM Observation of Metastable Chemisorption State of Oxygen on Si(110)-16×2 Surface
Kuniyuki Kakushima	13147	254 (2008) 6106-6108	2007A0005	BL47XU	財満 鎮明	Band Bending Measurement of HfO <sub>2</sub> /SiO <sub>2</sub> /Si Capacitor with Ultra-Thin La <sub>2</sub> O <sub>3</sub> Insertion by XPS
Yasushi Toyoshima	13272	255 (2008) 2149-2152	2007B4802	BL15XU	堀場 弘司	Analysis of ITO/Mg:GaN Interfaces by Synchrotron Radiation Hard X-ray Photoemission Spectroscopy and Their Electrical Characteristics
			2006B4605	BL15XU	小林 啓介	

## Journal of Synchrotron Radiation

Taihei Mukaide	12568	15 (2008) 329-334	2004B0911	BL19B2	野間 敬	<i>In situ</i> Observation of Water Distribution and Behaviour in a Polymer Electrolyte Fuel Cell by Synchrotron X-ray Imaging
			2005A0271	BL19B2	野間 敬	
			2006B0167	BL20B2	向出 大平	
Hiroshi Fukui	13085	15 (2008) 618-623	2006A1242	BL35XU	福井 宏之	Precise Determination of Elastic Constants by High-Resolution Inelastic X-ray Scattering
Nobuo Kamiya	13450	15 (2008) 304-307	2007B1278	BL41XU	沈 建仁	X-ray Crystallographic and Biochemical Characterizations of a Mutant Photosystem II Complex from <i>Thermosynechococcus vulcanus</i> with the <i>psbTc</i> Gene Inactivated by an Insertion Mutation
			2008A1031	BL41XU	沈 建仁	

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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
Ryo Masuda	13053	75 (2006) 094716	2005A5891	BL09XU	瀬戸 誠	Nuclear Resonant Scattering of Synchrotron Radiation by Yb Nuclides
			2005B7004	BL09XU	瀬戸 誠	
			原研	BL11XU		
Tatsuo Fukuda	13054	77 (2008) 103715	2008A2050	BL35XU	内山 裕士	Lattice Dynamics of LaFeAsO <sub>1-x</sub> F <sub>x</sub> and PrFeAsO <sub>1-y</sub> via Inelastic X-ray Scattering and First-Principles Calculation
			2008A1981	BL35XU	Baron Alfred	
Takeshi Matsumura	13091	77 (2008) 103601	2007A3703	BL22XU	稲見 俊哉	Structural Phase Transition in the Spin Gap System YbAl <sub>3</sub> C <sub>3</sub>
			2008A3701	BL22XU	稲見 俊哉	

The Journal of Chemical Physics

Shin-ichi Nagaoka	13260	129 (2008) 204309	2005A0076	BL27SU	長岡 伸一	Site-Specific Fragmentation Caused by Core-Level Photoionization in F <sub>3</sub> SiCH <sub>2</sub> CH <sub>2</sub> Si(CH <sub>3</sub> ) <sub>3</sub> Vapor: Comparison between Si:1s and 2p Photoionizations by Means of Photoelec
			2005B0279	BL27SU	長岡 伸一	
			2007B1734	BL27SU	長岡 伸一	
Darrah Thomas	13347	128 (2008) 144311	2007A1046	BL27SU	Thomas Darrah	Recoil Excitation of Vibrational Structure in the Carbon 1s Photoelectron Spectrum of CF <sub>4</sub>
Raimund Feifel	13349	128 (2008) 064304	2003A0162	BL27SU	Sorensen Stacey	X-ray Absorption and Resonant Auger Spectroscopy of O <sub>2</sub> in the Vicinity of the O 1s * Resonance: Experiment and Theory

Applied Physics Express

Takehiro Fukuyama	12706	1 (2008) 065004	2006B0164	BL46XU	佐藤 充	X-ray Reflectivity Study on Depth Profile of Acid Generator Distribution in Chemically Amplified Resists
Takahisa Koyama	13248	1 (2008) 117003	2007B3200	BL24XU	籠島 靖	Optical Properties of MoSi <sub>2</sub> /Si Multilayer Laue Lens as Nanometer X-ray Focusing Device

High Pressure Research

Yasuo Ohishi	13237	28 (2008) 163-173	2008A1990	BL10XU	大石 泰生	Highly Intense Monochromatic X-ray Diffraction Facility for High-Pressure Research at SPring-8
			2007B2018	BL10XU	大石 泰生	
Yoshinori Tange	13484	28 (2008) 245-254	2006A1754	BL04B1	丹下 慶範	Pressure Generation to 80 GPa Using Multianvil Apparatus with Sintered Diamond Anvils
			2006B1502	BL04B1	丹下 慶範	
			2007A1868	BL04B1	丹下 慶範	
			2007B1650	BL04B1	丹下 慶範	

IEICE Transactions on Electronics

Tomoyuki Koganezawa	13016	E91-C (2008) 1587-1592	2007A1860	BL46XU	廣沢 一郎	Dependence of Kind of Solvents for Washing on Surface of Rubbed Polyimide Film
Ichiro Hirozawa	13017	E91-C (2008) 1593-1598	2007A1263	BL19B2	廣沢 一郎	Effects of Rubbing Condition and Soaking Time on Surface Crystallization of Rubbed Polyimide Film by Soaking into Acetone
			2007A1859	BL19B2	廣沢 一郎	

Japanese Journal of Applied Physics

Ryo Masuda	13276	47 (2008) 8087-8090	2007A3501	BL11XU	三井 隆也	Development of neV-Resolution Spectroscopy Using Synchrotron-Based <sup>57</sup> Fe Mössbauer Radiation
Takaya Mitsui	13277	47 (2008) 7136-7139	2007B3501	BL11XU	三井 隆也	Conversion Electron and X-ray Mössbauer Spectroscopies Using Synchrotron Radiation

Journal of Applied Physics

Toshiyuki Matsunaga	12452	103 (2008) 093511	2005A0141	BL47XU	松永 利之	Structural Characteristics of GeTe-rich GeTe-Sb <sub>2</sub> Te <sub>3</sub> Pseudobinary Metastable Crystals
			2004B0356	BL02B2	松永 利之	
			2006A0199	BL02B2	松永 利之	
M. Murugesan	13149	104 (2008) 074316	2007B0005	BL47XU	財満 鎮明	Investigation of the Effect of <i>in situ</i> Annealing of FePt Nanodots under High Vacuum on the Chemical States of Fe and Pt by X-ray Photoelectron Spectroscopy

### Journal of Electronic Materials

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
Tina Ventura	12400	37 (2008) 32-39	2006A1645	BL47XU	野北 和宏	The Influence of 0-0.1 wt.% Ni on the Microstructure and Fluidity Length of Sn-0.7Cu-xNi
Brad Tinkham	13163	37 (2008) 1793-1798	2006A1600	BL11XU	Tinkham Brad	GaSb(001) Surface Reconstructions Measured at the Growth Front by Surface X-Ray Diffraction

### Journal of Magnetism and Magnetic Materials

Akane Agui	13106	320 (2008) 3015-3018	2002B0642 2003A0689	BL23SU BL23SU	朝日 透 朝日 透	Magnetic Circular Dichroism of [Co/Pd] and [CoB/Pd] Multilayered Films
Akinori Irizawa	12676	310 (2007) 221-222	2006A1113 2006A1188 2006B1406	BL43IR BL43IR BL43IR	入澤 明典 入澤 明典 入澤 明典	Optical Study on Metal-Insulator Change in PrFe <sub>4</sub> P <sub>12</sub> Under High Pressure

### Journal of Physics: Conference Series

Kazuyuki Hirose	13148	100 (2008) 012011	2006B0005	BL47XU	財満 鎮明	Relationship between Optical Dielectric Constant and XPS Relative Chemical Shift of 1s and 2p Levels for Dielectric Compounds
Takahiro Matsuoka	13153	121 (2008) 052003	2006A1149 2006B1485 2007A1461 2007B1649	BL10XU BL10XU BL10XU BL10XU	清水 克哉 清水 克哉 清水 克哉 清水 克哉	Superconductivity and Crystal Structure of Lithium under High Pressure

### Journal of the American Chemical Society

Katsuhiko Kanaizuka	13285	130 (2008) 15778-15779	2007A1680	BL13XU	坂田 修身	Construction of Highly Oriented Crystalline Surface Coordination Polymers Composed of Copper Dithiooxamide Complexes
Fengxia Geng	13394	130 (2008) 16344-16350	2007B4800	BL15XU	小林 啓介	General Synthesis and Structural Evolution of a Layered Family of Ln <sub>8</sub> (OH) <sub>20</sub> Cl <sub>4</sub> · nH <sub>2</sub> O (Ln=Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, and Y)

### Key Engineering Materials

Satoshi Wada	9365	320 (2006) 139-142	2005A0691	BL02B2	和田 智志	Size Dependence of Dielectric Properties for Barium Titanate Nanoparticles Prepared under Various Vacuum Atmosphere
Takuya Hoshina	9366	320 (2006) 131-134	2005B0724 2005A0691 2004A0566	BL02B2 BL02B2 BL02B2	和田 智志 和田 智志 八島 正知	Phase Transition Behaviors of Barium Titanate Nanoparticles

### Physical Review A

Masashi Kitajima	13337	78 (2008) 033422	2006B1150	BL27SU	Puetter Ralph	Angle Resolved Photoion Yield and Resonant Auger Spectroscopy for the Doubly Excited Rydberg States above the C 1s Threshold of CO
Takahiro Tanaka	13338	78 (2008) 022516	2006A1572	BL27SU	田中 隆宏	Symmetry Resolved X-ray Absorption Fine Structure and Resonant Auger Spectator Electron Decay Study of O 1s Rydberg Resonances in O <sub>2</sub>

### Physics of the Earth and Planetary Interiors

Kei Hirose	12618	167 (2008) 149-154	2006A0099 2005A5013	BL10XU BL10XU	廣瀬 敬 巽 好幸	Simultaneous Volume Measurements of Au and MgO to 140 GPa and Thermal Equation of State of Au Based on MgO Pressure Scale
Shigeaki Ono	13107	170 (2008) 267-273	2006A1412	BL10XU	小野 重明	Experimental Constraints on the Temperature Profile in the Lower Mantle

### Vacuum

Shigeharu Tamura	13028	83 (2008) 691-694	2004B0180 2005B0269	BL20XU BL20XU	上條 長生 上條 長生	Multilevel-type Multilayer X-ray Lens (Fresnel Zone Plate) by Sputter Deposition
Kazuya Kusaka	13321	83 (2008) 637-640	2003A0305 2003B0322	BL13XU BL13XU	英 崇夫 英 崇夫	Measurement of Electromigration-Induced Stress in Aluminum Alloy Interconnection

**Acta Crystallographica Section D**

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
Masaki Nojiri	13464	65 (2009) 85-92	2006B6824	BL44XU	野尻 正樹	Atomic Resolution Structure of Pseudoazurin from the Methylophilic Denitrifying Bacterium <i>Hyphomicrobium denitrificans</i> : Structural Insights into Its Spectroscopic Properties

**Acta Materialia**

Hiroyuki Toda	13478	56 (2008) 6027-6039	2006B1018	BL20XU	戸田 裕之	Direct Measurement Procedure for 3-D Local Crack
			2007B1080	BL20XU	戸田 裕之	Driving Force Using Synchrotron X-ray
			2005A0417	BL47XU	戸田 裕之	Microtomography

**Analytical Sciences**

Thiraporn Charoenraks	13162	24 (2008) 1239-1244	2007B1497	BL04B2	藤井 健太	Micro-solvent Cluster Extraction Using Aqueous Mixed Solvents of Ionic Liquid
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**Angewandte Chemie International Edition**

Mizuki Tada	13462	47 (2008) 9252-9255	2005A0452	BL01B1	唯 美津木	Photoinduced Reversible Structural Transformation and Selective Oxidation Catalysis of Unsaturated Ruthenium Complexes Supported on SiO <sub>2</sub>
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**Applied Radiation and Isotopes**

Nobuteru Nariyama	13252	67 (2009) 155-159	2007A1214	BL28B2	成山 展照	Spectromicroscopic Film Dosimetry for High-Energy Microbeam from Synchrotron Radiation
			2007B1241	BL28B2	成山 展照	

**Biochemistry**

Masayasu Taki	13287	47 (2008) 7726-7733	C05A7206	BL44XU	岡島 俊英	Further Insight into the Mechanism of Stereoselective Proton Abstraction by Bacterial Copper Amine Oxidase
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**Biochimica et Biophysica Acta - Proteins and Proteomics**

Daisuke Tsuchiya	13086	1784 (2008) 1847-1856	2006B1261	BL40B2	土屋 大輔	Versatile Architecture of a Bacterial Aconitase B and Its Catalytic Performance in the Sequential Reaction Coupled with Isocitrate Dehydrogenase
			2007A1272	BL40B2	土屋 大輔	

**Biomacromolecules**

Masahisa Wada	13491	9 (2008) 2898-2904	2007B1349	BL38B1	和田 昌久	Structure and Thermal Behavior of a Cellulose I-Ethylenediamine Complex
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**Chemistry - A European Journal**

Fengxia Geng	13062	14 (2008) 9255-9260	2007B4800	BL15XU	小林 啓介	New Layered Rare Earth Hydroxides with Anion-Exchange Properties
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**Chemistry and Biology**

Tatsuo Yanagisawa	13244	15 (2008) 1187-1197	2004A0177	BL41XU	関根 俊一	Multistep Engineering of Pyrrolysyl-tRNA Synthetase to Genetically Encode N <sup>-</sup> -(o-Azidobenzoyloxycarbonyl)lysine for Site-Specific Protein Modification
			2004B0416	BL41XU	仙石 徹	
			2005A0392	BL41XU	関根 俊一	
			2005A0733	BL41XU	仙石 徹	
			2005B0529	BL41XU	関根 俊一	
			2005B0083	BL41XU	伊藤 拓宏	

**Chemistry Letters**

Teruhiko Kasiwabara	13315	37 (2008) 756-757	2005A0628	BL01B1	高橋 嘉夫	Oxidation States of Antimony and Arsenic in Marine Ferromanganese Oxides Related to Their Fractionation in Oxidic Marine Environment
			2007A1804	BL01B1	板井 啓明	
			2007B1332	BL01B1	高橋 嘉夫	

**Chemistry of Materials**

Hiroshi Shiraki	13409	20 (2008) 7077-7080	2007B1674	BL02B2	岡 研吾	Structural and Magnetic Properties of A-Site-Ordered Perovskites ACu <sub>3</sub> Sn <sub>4</sub> O <sub>12</sub> with A = Ca <sup>2+</sup> , Sr <sup>2+</sup> , and Pb <sup>2+</sup>
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### Earth and Planetary Science 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
Artem Oganov	13108	273 (2008) 38-47	2006A1412	BL10XU	小野 重明	Novel Phases of MgCO <sub>3</sub> , CaCO <sub>3</sub> and CO <sub>2</sub> at Megabar Pressures: Their Structure, Chemistry and Role in the Earth's Mantle

### e-Journal of Surface Science and Nanotechnology

Yasushi Toyoshima	13273	6 (2008) 254-257	2007B4802	BL15XU	堀場 弘司	Determination of Band Structures of InN/GaN Interfaces by Synchrotron Radiation Hard X-ray Photoemission Spectroscopy
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### European Journal of Radiology

Toshihiro Sera	13262	68S (2008) S54-S57	2007A1716	BL20B2	上杉 健太郎	High-Resolution Visualization of Tumours in Rabbit Lung using Refraction Contrast X-ray Imaging
			2004A0034	BL20B2	八木 直人	
			2005A0110	BL20B2	八木 直人	

### The FEBS Journal

Tomoko Nishino	12603	275 (2008) 3278-3289	2002B0285	BL40XU	西野 武士	Mammalian Xanthine Oxidoreductase - Mechanism of Transition from Xanthine Dehydrogenase to Xanthine Oxidase
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### FEBS Letters

Toshihide Okajima	13286	582 (2008) 3434-3438	C04B7416	BL44XU	内海 龍太郎	Response Regulator YycF Essential for Bacterial Growth: X-ray Crystal Structure of the DNA-binding Domain and its PhoB-like DNA Recognition Motif
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### Ferroelectrics

Satoshi Wada	13393	346 (2007) 64-71	2005A0693	BL02B2	和田 智志	Crystal Growth of Lithium-Doped Silver Niobate Single Crystals and Their Piezoelectric Properties
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### Hyperfine Interactions

Laszlo Deak	13045	167 (2006) 709-715	2006A1556	BL09XU	Bottyan Laszlo	Synchrotron Mössbauer Reflectometry using Stroboscopic Detection
			2004B0749	BL09XU	Bottyan Laszlo	

### International Journal of High Speed Electronics and Systems

Takeo Hattori	10694	16 (2006) 353-364	2005B0005	BL47XU	財満 鎮明	Study on the Gate Insulator/Silicon Interface Utilizing Soft and Hard X-ray Photoelectron Spectroscopy at SPring-8
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### International Journal of Radiation Biology

Kentaro Fujii	13355	84 (2008) 1104-1111	2006B3830	BL23SU	藤井 健太郎	Induction of Single Strand Breaks, and Base Lesions in Plasmid DNA Films Induced by Carbon, Nitrogen, and Oxygen <i>KLL</i> Auger Process
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### Japanese Journal of Applied Physics Series

Yasuhiro Yoneda	13114	47 (2008)	2007A1327	BL04B2	米田 安宏	Local Structure of BiFeO <sub>3</sub> -BaTiO <sub>3</sub> Mixture
		7590-7594	原研	BL14B1		

### Journal of Advanced Concrete Technology

Michael Angelo Promentilla	13290	6 (2008) 273-286	2007A1951	BL20XU	人見 尚	Characterizing the 3D Pore Structure of Hardened Cement Paste with Synchrotron Microtomography
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### Journal of Chemical and Engineering Data

Toshimichi Kamei	13456	53 (2008) 2801-2806	2008A5962	BL32B2	柏木 立己	Solid-Liquid Equilibria in an L-Isoleucine + L-Alanine + Water System
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**Journal of Geophysical Research**

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
Wendy Mao	13055	113 (2008) B09213	2003A0022	BL35XU	Mao Ho- Kwang	Experimental Determination of the Elasticity of Iron at High Pressure
			2003B0693	BL35XU	Mao Ho- Kwang	

**Journal of Materials Chemistry**

Aude Isambert	13288	18 (2008) 5705-5844	2008A1965	BL04B2	小原 真司	Amorphization of Faujasite at High Pressure: an X-ray Diffraction and Raman Spectroscopy Study
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**Journal of Non-Crystalline Solids**

Hideo Hosono	12396	354 (2008) 2796-2800	2005A0226	BL01B1	細野 秀雄	Factors Controlling Electron Transport Properties in Transparent Amorphous Oxide Semiconductors
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**The Journal of Organic Chemistry**

Hirohito Tsue	13391	73 (2008) 7748-7755	2008A1157	BL02B2	津江 広人	Azacalix[7]arene Heptamethyl Ether: Preparation, Nanochannel Crystal Structure, and Selective Adsorption of Carbon Dioxide
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**The Journal of Physical Chemistry C**

Kazu Okumura	13116	112 (2008) 16740-16747	2007B1950	BL14B2	平山 明香	Stepwise Growth of Pd Clusters in USY Zeolite at Room Temperature Analyzed by QXAFS
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**Journal of Physics and Chemistry of Solids**

Hiroyuki Okazaki	13363	69 (2008) 2978-2981	2005B0165 J04B0523	BL27SU BL25SU	横谷 尚睦 横谷 尚睦	Near $E_F$ Electronic Structure of Heavily Boron-Doped Superconducting Diamond
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**Journal of the Electrochemical Society**

Molina Joel	13146	154 (2007) G110-G116	2006B0005	BL47XU	財満 鎮明	Effects of N <sub>2</sub> -Based Annealing on the Reliability Characteristics of Tungsten/La <sub>2</sub> O <sub>3</sub> /Silicon Capacitors
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**Macromolecules**

Ken Terao	13038	41 (2008) 7203-7210	2006A1055	BL40B2	奥山 健二	Chain Dimensions and Hydration Behavior of Collagen Model Peptides in Aqueous Solution: [Glycyl-4( <i>R</i> )-hydroxyprolyl-4( <i>R</i> )-hydroxyproline] <sub><i>n</i></sub> , [Glycylprolyl-4( <i>R</i> )-hydroxyproline] <sub><i>n</i></sub> , and Some Related Model Peptides
			2007A1034	BL40B2	寺尾 憲	
			2007B1084	BL40B2	奥山 健二	

**Materials Research Bulletin**

Alexei Belik	13087	43 (2008) 3179-3187	2007A2087	BL02B2	Belik Alexei	Crystal Structures and Properties of BiMn <sub>1-x</sub> Al <sub>x</sub> O <sub>3</sub> with $x = 0.03$ and $0.1$
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**Materials Science Forum**

Takao Hanabusa	12736	490-491 (2005) 577-582	2003B0324	BL13XU	日下 一也	In-situ Observation of Thermal Stress in Nano-size Thin Aluminum Films
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**Mineralogical Magazine**

Shigeaki Ono	13109	72 (2008) 659-665	2006A1412	BL10XU	小野 重明	Phase Transitions of BaCO <sub>3</sub> at High Pressures
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**Organic Process Research & Development**

Toshimichi Kamei	13235	12 (2008) 850-854	2007A5962	BL32B2	柏木 立己	Mechanism of Mutual Incorporation of L-Isoleucine and Isomeric Amino Acids in Batch Crystallization
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### Photosynthesis Research

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
Isao Enami	13455	98 (2008) 349-363	2006A1266	BL41XU	沈 建仁	Structures and Functions of the Extrinsic Proteins of Photosystem II from Different Species
			2006B1306	BL41XU	沈 建仁	
			2007A1241	BL41XU	沈 建仁	
			2007A2099	BL41XU	沈 建仁	
			2007B1994	BL41XU	沈 建仁	
			2007B1278	BL41XU	沈 建仁	

### Physica Status Solidi (a)

Masakiyo Tsunoda	13265	204 (2007) 4033-4036	2006B1556	BL25SU	角田 匡清	Correlation between Spin Dependent Scattering and Impurity Polarization in CPP-GMR Spin Valves with Ultra Thin Cu Inserted Fe-Co Layers
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### Physics in Medicine and Biology

Marcus Kitchen	13052	53 (2008)	2006B0002	BL20B2	Lewis Rob	Dynamic Measures of Regional Lung Air Volume
		6065-6077	2007A0002	BL20B2	Lewis Rob	Using Phase Contrast X-ray Imaging

### Polyhedron

Takuya Akatsuka	13313	27 (2008) 3146-3150	2004A0617	BL01B1	高橋 嘉夫	Multiple-Scattering Approach to Sn L <sub>3</sub> -edge X-ray Absorption Near-Edge Structure (XANES) Analyses for Organic Tin Compounds
			2005A0628	BL01B1	高橋 嘉夫	
			2006B1099	BL01B1	高橋 嘉夫	

### Scripta Materialia

Kazuhiro Nogita	12399	55 (2006) 787-790	2006A1645	BL47XU	野北 和宏	Determination of Strontium Segregation in Modified Hypoeutectic Al-Si Alloy by Micro X-ray Fluorescence Analysis
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### Solid State Communications

Takanori Itoh	13243	149 (2009) 41-44	2007A1890	BL02B2	伊藤 孝憲	Determination of the Crystal Structure and Charge Density of (Ba <sub>0.5</sub> Sr <sub>0.5</sub> )(Co <sub>0.8</sub> Fe <sub>0.2</sub> )O <sub>2.33</sub> by Rietveld Refinement and Maximum Entropy Method Analysis
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### Solid-State Electronics

Atsushi Ogura	13261	52 (2008) 1845-1848	2007A1913	BL13XU	小椋 厚志	Evaluation of Super-Critical Thickness Strained-Si on Insulator (sc-SSOI) Substrate
			2007A1736	BL20B2	志村 孝功	
			2007A1216	BL46XU	小椋 厚志	

### Superconductor Science and Tecgnology

Takatoshi Nomura	13241	21 (2008) 125028	2007B1300	BL02B2	加藤 健一	Crystallographic Phase Transition and High-T <sub>c</sub> Superconductivity in LaFeAsO:F
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### Thin Solid Films

Futoshi Utsuno	12515	516 (2008) 5818-5821	2004B0328	BL19B2	島根 幸朗	A Structural Study of Amorphous In <sub>2</sub> O <sub>3</sub> -ZnO Films by Grazing Incidence X-ray Scattering (GIXS) with Synchrotron Radiation
			2004B0329	BL46XU	島根 幸朗	

### 日本応用磁気学会誌 (Journal of the Magnetism Society of Japan)

Masakiyo Tsunoda	13266	32 (2008) 540-542	2007A1976	BL25SU	角田 匡清	Spin Polarization of Sub-monolayer Cu Embedded in Fe <sub>70</sub> Co <sub>30</sub> Films
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### 日本接着学会誌 (Journal of the Adhesion Society of Japan)

Yasushi Okamoto	13034	43 (2007) 279-284	2005A0756	BL13XU	高原 淳	Influence of Annealing Treatment on Adhesion Behavior of Poly(butylene terephthalate)
			2005B0431	BL13XU	高原 淳	
			2006A1642	BL13XU	高原 淳	

課題以外の成果として登録された論文

**Acta Crystallographica Section D**

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
Seiichiro Kishishita	13234	64 (2008) 397-406	理研	BL26B1	Structures of Two Archaeal Diphthine Synthases: Insights into the Post-Translational Modification of Elongation Factor 2
Hitoshi Yamamoto	13309	64 (2008) 1068-1077	理研	BL26B1	Structure of a Haloacid Dehalogenase Superfamily Phosphatase PH1421 from <i>Pyrococcus horikoshii</i> OT3: Oligomeric State and Thermoadaptation Mechanism
Hisashi Mizutani	13312	64 (2008) 1020-1033	理研	BL26B1	Systematic Study on Crystal-Contact Engineering of Diphthine Synthase: Influence of Mutations at Crystal-Packing Regions on X-ray Diffraction Quality

**Journal of Molecular Biology**

Hitoshi Yamamoto	13306	382 (2008) 747-762	理研	BL26B1	Crystal Structure of Glucose-6-Phosphate Isomerase from <i>Thermus thermophilus</i> HB8 Showing a Snapshot of Active Dimeric State
Tamao Hisano	12998	356 (2006) 993-1004	理研 理研	BL45XU BL44B2	The Crystal Structure of Polyhydroxybutyrate Depolymerase from <i>Penicillium funiculosum</i> Provides Insights into the Recognition and Degradation of Biopolyesters

**Acta Crystallographica Section F**

Yuko Kurahashi	13143	64 (2008) 1027-1030	理研	BL44B2	Crystallization and Preliminary Diffraction Studies of Prostaglandin E <sub>2</sub> -specific Monoclonal Antibody Fab Fragment in the Ligand Complex
Asako Kounosu	13304	64 (2008) 1146-1148	理研	BL26B2	Crystallization and Preliminary X-ray Diffraction Studies of the Prototypal Homologue of mitoNEET ( <i>Th</i> -NEET0026) from the Extreme Thermophile <i>Thermus thermophilus</i> HB8

**Journal of Magnetism and Magnetic Materials**

Toshiya Inami	13090	310 (2007) 748-750	原研	BL22XU	Resonant X-ray Magnetic Diffraction Experiments on SmB <sub>2</sub> C <sub>2</sub>
Kenji Ishii	13094	310 (2007) e178-e180	原研	BL22XU	Resonant X-ray Scattering of PrRu <sub>4</sub> P <sub>12</sub>

**Macromolecules**

Jun Wuk Park	13005	38 (2005) 2345-2354	理研	BL45XU	Unique Crystalline Orientation of Poly[( <i>R</i> )-3-hydroxybutyrate]/Cellulose Propionate Blends under Uniaxial Drawing
Myung-Im Kim	13089	41 (2008) 7667-7670	理研	BL45XU	Stability of the <i>F</i> <sub>ddd</sub> Phase in Diblock Copolymer Melts

**Proteins: Structure, Function, and Bioinformatics**

Yoshihiro Agari	13230	73 (2008) 1063-1067	理研	BL26B1	X-ray Crystal Structure of a CRISPR-associated Protein, Cse2, from <i>Thermus thermophilus</i> HB8
Thirumananeri Kumarevel	13255	71 (2008) 1156-1162	理研	BL26B1	Crystal Structure of an Archaeal Specific DNA-binding Protein (Ape10b2) from <i>Aeropyrum pernix</i> K1

**The Journal of Biological Chemistry**

Ali Malay	13253	283 (2008) 14022-14031	理研	BL26B1	Crystal Structures of Fission Yeast Histone Chaperone Asf1 Complexed with the Hip1 B-domain or the Cac2 C Terminus
Kenji Fukui	13264	283 (2008) 33417-33427	理研	BL26B2	Crystal Structure of MutS2 Endonuclease Domain and the Mechanism of Homologous Recombination Suppression

**Applied Physics Letters**

Chetan Jariwala	13383	93 (2008) 191502	理研	BL17SU	Low Power Density Multihole Cathode Very-High-Frequency Plasma for Mixed Phase Si:H Thin Films
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**Inorganic Chemistry**

Kenji Yoshii	13018	47 (2008) 6493-6501	原研	BL14B1	Magnetic and Dielectric Properties of InFe <sub>2</sub> O <sub>4</sub> , InFeCuO <sub>4</sub> and InGaCuO <sub>4</sub>
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### Macromolecular Symposia

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
Yoshiharu Doi	13003	224 (2005) 11-19	理研	BL45XU	Mechanical Properties of Uniaxially Cold-Drawn Films of Poly[(R)-3-hydroxybutyrate] and Its Copolymers

### Physical Review B

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