

最近SPring-8から発表された成果リスト

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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1月～3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 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
Vadim Brazhkin	12872	100 (2008) 145701	2005B0040	BL14B1	Brazhkin Vadim	AsS Melt under Pressure; One Substance, Three Liquids
Vadim Brazhkin	12873	101 (2008) 035702	2006B3608	BL14B1	Brazhkin Vadim	Nature of the Structural Transformations in B ₂ O ₃ Glass under High Pressure
Ignace Jarrige	13137	101 (2008) 127401	C05A1505 2005A0288	BL10XU BL12XU	Jarrige Ignace Cai Yong	Pressure-Induced Valence Anomaly in TmTe Probed by Resonant Inelastic X-Ray Scattering
Ralf Hambach	13597	101 (2008) 266406	C04B1510	BL12XU	平岡 望	Anomalous Angular Dependence of the Dynamical Structure Factor Near Bragg Reflections: Graphite
David Vine	13602	102 (2009) 043901	2007A1173	BL20XU	Pavlov Konstantin	Deterministic Retrieval of Complex Green's Functions Using Hard X rays
Susumu Shimomura	13721	102 (2009) 076404	2005B0300 2006A1255	BL46XU BL46XU	下村 晋 下村 晋	Charge-Density-Wave Destruction and Ferromagnetic Order in SmNiC ₂
Shinya Hosokawa	13951	102 (2009) 105502	2008A1064	BL35XU	細川 伸也	Transverse Acoustic Excitations in Liquid Ga

Physical Review B

Ryo Kitaura	12966	76 (2007) 172409	2005B0486 2005B0106	BL25SU BL25SU	篠原 久典 篠原 久典	Magnetism of the Endohedral Metallofullerenes M@C ₈₂ (M=Gd,Dy) and the Corresponding Nanoscale Peapods: Synchrotron Soft X-ray Magnetic Circular Dichroism and Density-Functional Theory Calculations
Mathew Debessai	13667	78 (2008) 214517	2007A1461	BL10XU	清水 克哉	Superconductivity under High Pressure in the Binary Compound CaLi ₂
Kiyoshi Nomura	13670	77 (2008) 014302	2006A1219	BL09XU	野村 貴美	Dilution and Clustering of Fe in the Rutile Phases of TiO ₂ and SnO ₂
Yoichi Kamihara	13738	78 (2008) 184512	2007B0098	BL09XU	瀬戸 誠	Coexistence of Superconductivity and Antiferromagnetic Ordering in the Layered Superconductor SmFePO

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
Katsumi Tanigaki	13817	78 (2008) 085203	2007A1684	BL25SU	谷垣 勝己	Energetics of Endohedral Atoms in Type-I Clathrates Observed by Soft X-ray Spectroscopy
			2007B1710	BL02B2	谷垣 勝己	
			2007B1655	BL02B2	良知 健	
Navid Qureshi	13963	79 (2009) 094417	2007B2021	BL08W	櫻井 吉晴	Experimental Magnetic form Factors in $\text{Co}_3\text{V}_2\text{O}_8$: A Combined Study of <i>ab initio</i> Calculations, Magnetic Compton Scattering, and Polarized Neutron Diffraction

Journal of Applied Physics

Masanori Matsui	13525	105 (2009) 013505	2007B1272	BL04B1	松井 正典	The Temperature-Pressure-Volume Equation of State of Platinum
Hiroshi Nakaki	13577	105 (2009) 014107	2005B0189	BL13XU	舟窪 浩	Strain-relaxed Structure in (001)/(100)-oriented Epitaxial $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ Films Grown on (100) SrTiO_3 Substrates by Metal Organic Chemical Vapor Deposition
			2006A1370	BL13XU	坂田 修身	
			2006B1457	BL13XU	坂田 修身	
			2007A1349	BL13XU	舟窪 浩	
Takashi Aratani	13760	104 (2008) 114112	2006A1624	BL27SU	服部 健雄	Angle-resolved Photoelectron Study on the Structures of Silicon Nitride Films and Si_3N_4 /Si Interfaces Formed using Nitrogen-Hydrogen Radicals
Tetsuji Kume	13772	105 (2009) 043522	2008A1375	BL10XU	久米 徹二	Raman and X-ray Diffraction Studies of Cationic Type-I Clathrate $\text{I}_8\text{Sb}_8\text{Ge}_{38}$: Pressure-Induced Phase Transitions and Amorphization
Hirokazu Takahashi	13945	105 (2009) 07D720	2007B1741	BL25SU	角田 匡清	Correlation between Exchange Bias Field and Domain Size of Ferromagnetic Layer in Mn-Ir/Co-Fe Bilayers

Applied Physics Letters

Ignace Jarrige	13138	93 (2008) 054101	C05A1503	BL12XU	Jarrige Ignace	Thermally Activated Charge Transfer in a Prussian Blue Derivative Probed by Resonant Inelastic X-ray Scattering
Shunji Kishimoto	13504	93 (2008) 261901	2007A1543	BL09XU	岸本 俊二	Subnanosecond Time-Resolved X-ray Measurements using an Organic-Inorganic Perovskite Scintillator
			2007B1585	BL09XU	岸本 俊二	
Cheng-Yu Chen	13702	93 (2008) 141105	2007B4264	BL12XU	Chang Shih-Lin	Coherent Trapping of X-ray Photons in Crystal Cavities in the Picosecond Regime
Masanori Kawai	13747	94 (2009) 082102	2008B1314	BL39XU	水牧 仁一朗	Reversible Changes of Epitaxial Thin Films from Perovskite LaNiO_3 to Infinite-Layer Structure LaNiO_2

Journal of the American Chemical Society

Minoru Mitsumi	13118	130 (2008) 14102-14104	2000B0512	BL02B1	満身 稔	Constructing Highly Conducting Metal-Metal Bonded Solids by Electrocrystallization of $[\text{Pt}^{\text{II}}_2(\text{RCS}_2)_4]$ ($\text{RCS}_2^- = \text{Dithiocarboxylato}$, R = Methyl or Ethyl)
			2003B2888	BL02B1	鳥海 幸四郎	
Hiroshi Danjo	13669	131 (2009) 1638-1639	2008B1981	BL38B1	柁 飛雄真	Back to Back Twin Bowls of D_3 -Symmetric Tris(spiroborate)s for Supramolecular Chain Structures
Cedric Tassel	13779	131 (2009) 221-229	2008A1278	BL39XU	水牧 仁一朗	CaFeO_2 : A New Type of Layered Structure with Iron in a Distorted Square Planar Coordination
Yoshifumi Amamoto	13902	129 (2007) 13298-13304	2006B1098	BL40B2	高原 淳	Programmed Thermodynamic Formation and Structure Analysis of Star-like Nanogels with Core Cross-linked by Thermally Exchangeable Dynamic Covalent Bonds

Acta Crystallographica Section F

Tomohito Morikawa	12797	63 (2007) 139-141	2005B3005	BL24XU	杉尾 成俊	Crystallization and Preliminary X-ray Crystallographic Analysis of the Receptor-uncoupled Mutant G_{i1}
Masaki Nojiri	13644	65 (2009) 123-127	2008A6821	BL44XU	野尻 正樹	Expression, Purification, Crystallization and Preliminary X-ray Diffraction Analysis of the Soluble Domain of PPA0092, a Putative Nitrite Reductase from <i>Propionibacterium acnes</i>
Masaki Nojiri	13645	65 (2009) 116-119	2008A6821	BL44XU	野尻 正樹	Crystallization and Preliminary X-ray Diffraction Analysis of a Complex between the Electron-Transfer Partners Hexameric Cu-containing Nitrite Reductase and Pseudoazurin

Applied Physics Express

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
Yoshihiro Takeda	13303	1 (2008)	2006A1377	BL20XU	百生 敦	Differential Phase X-ray Imaging Microscopy with X-ray Talbot Interferometer
		117002	2006B1141	BL20XU	百生 敦	
Tomoaki Fujii	13605	2 (2009) 011002	2007B4802	BL15XU	堀場 弘司	Fabrication and Characterization of AlN/InN Heterostructures
Makina Saitou	13741	2 (2009) 026502	2008A0098	BL09XU	瀬戸 誠	Development of ¹⁵¹ Eu Time-Domain Interferometry and Its Application for the Study of Slow Dynamics in Ionic Liquids
			2008B0098	BL09XU	瀬戸 誠	

Environmental Science & Technology

Yoshio Takahashi	13565	42 (2008) 9045-9050	2007B1175	BL01B1	高橋 嘉夫	Speciation of Antimony in PET Bottles Produced in Japan and China by X-ray Absorption Fine Structure Spectroscopy
			2007B1332	BL01B1	高橋 嘉夫	
			2007A2065	BL37XU	高橋 嘉夫	
			2008A1261	BL01B1	高橋 嘉夫	
Satoshi Mitsunobu	13574	43 (2009) 318-323	2006B1704	BL01B1	光延 聖	Interaction of Synthetic Sulfate Green Rust with Antimony(V)
			2007A1837	BL40XU	光延 聖	
			2007B1175	BL01B1	高橋 嘉夫	
Satosi Endou	13789	42 (2008) 7152-7158	2006A1684	BL37XU	中井 泉	Chemical Speciation of Arsenic-Accumulating Mineral in a Sedimentary Iron Deposit by Synchrotron Radiation Multiple X-ray Analytical Techniques

Japanese Journal of Applied Physics

Yoshio Suzuki	13516	47 (2008) 8595-8599	2006A1563	BL20XU	鈴木 芳生	X-ray Holographic Microscopy using Total-Reflection Mirror Interferometer
			2005A0070	BL20XU	鈴木 芳生	
Nagao Kamijo	13593	48 (2009) 010219	2006A1153	BL08W	上條 長生	Microbeam of 200keV X-ray with Sputtered-Sliced Zone Plate
Atsushi Matsumoto	13904	47 (2008) 1567-1569	2005A0206	BL25SU	今田 真	Electric and Magnetic States of Mn _{2.97} Co _{0.03} GaC Studied by Soft X-ray Photoemission and Magnetic Circular Dichroism
			2005B0710	BL25SU	今田 真	

Journal of Synchrotron Radiation

Takuji Ikeda	13544	10 (2003) 424-429	C01B2003	BL15XU	池田 拓史	High-Resolution and High-Intensity Powder Diffractometer at BL15XU in SPring-8
Kaori Hattori	13701	16 (2009) 1-6	2007A1630	BL45XU	谷森 達	Performance of micro-PIC Gaseous Area Detector in Small Angle X-ray Scattering Experiments
			2007B1407	BL45XU	谷森 達	
			2008A1532	BL45XU	谷森 達	
Hiroyuki Iwamoto	13964	16 (2009) 336-345	2007B1883	BL40XU	岩本 裕之	Quality Evaluation of Quick-Frozen Biological Specimens by Simultaneous Microbeam SAXS/WAXS Recordings
			2008B2206	BL40XU	岩本 裕之	

Journal of the Physical Society of Japan

Kenji Kodama	13729	78 (2009) 034701	2005A0336	BL39XU	児玉 謙司	In-Plane Angular Dependence of Magnetic Anisotropy Energy and Magnetization Processes of Gd Moment Vectors in TM/FeGd/TM Trilayers (TM=Fe, Co) Investigated by X-ray Magnetic Circular Dichroism and Resonant X-ray Magnetic Reflectivity
			2005B0171	BL39XU	児玉 謙司	
Satoshi Higashitaniguchi	13740	78 (2009) 024704	2007A0098	BL09XU	瀬戸 誠	Mössbauer Spectroscopy of La _{0.87} Ca _{0.13} FePO and LaFeAsO _{0.93} F _{0.07} under External Magnetic Field and Nuclear Resonant Inelastic Scattering of La _{0.87} Ca _{0.13} FePO
			2007B0098	BL09XU	瀬戸 誠	
Kentaro Goto	13774	77 (2008) 103301	2006A1688	BL25SU	松井 文彦	Orbital Angular Momentum of Iron Valence Band Electron Analyzed by Photoelectron Stereography
			2006B1453	BL25SU	松井 文彦	
			2008A1696	BL25SU	大門 寛	

Nature

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
Asako Shimada	13395	456 (2008) 520-523	2008A1359	BL41XU	中津 亨	Structural Basis for Gibberellin Recognition by Its Receptor GID1
			2008A2008	BL41XU	加藤 博章	
			2007B1200	BL41XU	中津 亨	
Toshiro Oda	13717	457 (2009) 441-445	2004A0612	BL40B2	小田 俊郎	The Nature of the Globular-to Fibrous-actin Transition
			1997B0187	BL41XU	前田 雄一郎	
			理研	BL45XU		
Takahiro Matsuoka	13944	458 (2009) 186-189	2006A1149	BL10XU	清水 克哉	Direct Observation of a Pressure-Induced Metal-to- Semiconductor Transition in Lithium
			2006B1485	BL10XU	清水 克哉	
			2007A1461	BL10XU	清水 克哉	

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

Chikashi Toyoshima	12134	104 (2007) 19831-19836	2007A0013	BL41XU	豊島 近	How Processing of Aspartylphosphate is Coupled to Luminal Gating of the Ion Pathway in the Calcium Pump
Sung Keun Lee	13598	105 (2008) 7925-7929	2006A4256	BL12XU	Lin Jung-Fu	X-ray Raman Scattering Study of MgSiO ₃ Glass at High Pressure: Implication for Triclustered MgSiO ₃ Melt in Earth's Mantle
Shigeo Yamaguchi	13658	106 (2009) 440-444	2006B1765	BL41XU	清水 伸隆	Low-barrier Hydrogen Bond in Photoactive Yellow Protein

Science and Technology of Advanced Materials

Yukako Kato	10288	7 (2006) S45-S48	2004B0927	BL01B1	大門 寛	Stereophotographs of Diamond and Graphite
			2005A0538	BL25SU	加藤 有香子	
Katsumi Tanigaki	13814	7 (2006) S88-S93	2002B0699	BL02B2	谷垣 勝己	Sp ³ -network Superconductors Made from IVth-group Elements
Katsumi Tanigaki	13815	7 (2006) S83-S87	2002A0228	BL02B2	谷垣 勝己	Superconductivity Appearing from C ₆₀ Doped with Rare-earth Metals
			2005B0099	BL02B2	谷垣 勝己	

Transactions of the Materials Research Society of Japan

Kazuhiko Omote	13056	33 (2008) 535-539	2006A1325	BL13XU	表 和彦	Grazing Incidence Small Angle X-ray Scattering Study for Determining Structure and Composition of Multi- Stack Ge Nanowires on Si(113)
Atsushi Takahara	13623	32 (2007) 259-262	2006A1642	BL13XU	高原 淳	Structural Characterization of Surface-grafted Poly (Vinyl Alcohol) on Silicon Wafer
			2007A1429	BL13XU	高原 淳	
Hiroki Yamaguchi	13624	33 (2008) 573-577	2006A1642	BL13XU	高原 淳	Characterization of the Interface Structure of Hydrophilic and Hydrophobic Polymer Brushes by Neutron Beam and Synchrotron Radiation
			2007A1429	BL13XU	高原 淳	
			2007B1530	BL13XU	高原 淳	

Chemical Communications

Makoto Tadokoro	9306	(2006) 1274-1276	2005B0521	BL02B2	北川 宏	Structures and Phase Transition of Multi-Layered Water Nanotube Confined to Nanochannels
Yoshifumi Amamoto	13901	(2009) 689-691	2007B1776	BL40B2	高原 淳	Rational Approach to Star-like Nanogels with Different Arm Lengths: Formation by Dynamic Covalent Exchange and Their Imaging

Chemistry Letters

Makoto Tadokoro	7840	34 (2005) 236-237	2002A0447	BL02B1	田所 誠	Raphide Crystal Structure in <i>Agave Tequilana</i> Determined by X-ray Originating from Synchrotron Radiation
Musashi Fujishima	9305	35 (2006) 546-547	2005B0521	BL02B2	北川 宏	Galvanostatic Transient Studies on Copper Coordination Polymer under Hydrogen Absorption

ECS 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
Hiroyuki Yoshida	13750	7 (2007) 429-434	2005B5050	BL16XU	出口 博史	Residual Stress Analysis in Lanthanum Gallate-based Cell before and after Fuel Cell Operation
Takayoshi Shimura	13943	13 (2008) 75-82	2005B0290	BL13XU	志村 考功	Application of Synchrotron X-ray Diffraction Methods to Gate Stacks of Advanced MOS Devices
			2006B1759	BL13XU	福田 一徳	
			2007A2029	BL13XU	志村 考功	
			2007A1736	BL20B2	志村 考功	
			2007B1557	BL20B2	志村 考功	

e-Journal of Surface Science and Nanotechnology

Wolfgang Voegeli	13773	6 (2008) 281-285	2008B1546	BL13XU	Voegeli Wolfgang	Surface X-ray Diffraction Study of the Metal-Insulator Transition on the Si(553)-Au Surface
			2008A1214	BL13XU	Voegeli Wolfgang	
Chikako Sakai	13775	5 (2007) 143-147	2006B1453	BL25SU	松井 文彦	Depth Resolved Electronic Structure of Cuprate Superconductor Analyzed by Two-Dimensional X-ray Auger Resonance Emission Spectroscopy
			2006B1572	BL25SU	松井 文彦	

Geophysical Research Letters

Kei Hirose	9030	33 (2006) L01310	2005A5013	BL10XU	巽 好幸	Determination of Post-perovskite Phase Transition Boundary in MgSiO ₃ using Au and MgO Internal Pressure Standards
			2005A5892	BL10XU	巽 好幸	
Kei Hirose	12061	33 (2006) L12S01	2006A0099	BL10XU	廣瀬 敬	Unsolved Problems in the Lowermost Mantle

The Journal of Physical Chemistry C

Miho Yamauchi	13502	112 (2008) 3294-3299	2004B0776	BL02B2	山内 美穂	Nanosize Effects on Hydrogen Storage in Palladium
Masashi Nakamura	13946	113 (2009) 4538-4542	2005A0368	BL13XU	中村 将志	One-Dimensional Zigzag Chain of Water Formed on a Stepped Surface
			2006A1065	BL13XU	中村 将志	
			2007B1342	BL13XU	中村 将志	

Journal of Physics B: Atomic, Molecular and Optical Physics

S. K. Semenov	10217	39 (2006) 375-386	2004A0098	BL27SU	上田 潔	Vibrationally Resolved Photoionization of 1 _g and 1 _u Shells of N ₂ Molecules
Xiao-Jing Liu	10227	39 (2006) 4801-4817	2006A1218	BL27SU	上田 潔	Young's Double-Slit Experiment Using Core-Level Photoemission from N ₂ : Revisit to Cohen-Fano's Two-Center Interference Phenomena

Journal of Physics D: Applied Physics

Yojiro Oba	13704	41 (2008) 134024	2007A1571	BL25SU	佐藤 徹哉	X-ray Magnetic Circular Dichroism Study in Ferromagnetic Pd Nanoparticle
			2006A1233	BL25SU	佐藤 徹哉	
Masahito Tanaka	13742	41 (2008) 055003	2006A1631	BL25SU	朝日 透	Existence and Origin of Compensation Layer Thickness in Tb ₂₀ Co ₈₀ /Pd Multilayered Films

Journal of Solid State Chemistry

Norihito Kijima	13550	177 (2004) 1258-1267	C01B2003	BL15XU	池田 拓史	Crystal Structure of an Open-Tunnel Oxide γ -MnO ₂ Analyzed by Rietveld Refinements and MEM-based Pattern Fitting
Alexei Belik	13978	182 (2009) 685-689	2007A2087	BL02B2	Belik Alexei	Evolution of Structural Distortions in Solid Solutions between BiMnO ₃ and BiScO ₃

Journal of the Ceramic Society of Japan

Fujio Izumi	13546	111 (2003) 617-623	C01B2003	BL15XU	池田 拓史	Development and Applications of the Pioneering Technology of Structure Refinement from Powder Diffraction Data
Toru Wakihara	13900	117 (2009) 277-282	2003B0157	BL04B2	大久保 達也	Changes in the Medium-Range Order during Crystallization of Aluminosilicate Zeolites Characterized by High-Energy X-ray Diffraction Technique

Polymer Journal

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
Hiroki Yamaguchi	13569	40 (2008) 854-860	2008A1694	BL13XU	高原 淳	Molecular Aggregation States of Surface-grafted Poly{2-(perfluorooctyl)ethyl acrylate} Thin Film Analyzed by Grazing Incidence X-ray Diffraction
Ken Terao	13947	41 (2009) 201-207	2007A1034	BL40B2	寺尾 憲	Solution Properties of Amylose Tris(Phenylcarbamate): Local Conformation and Chain Stiffness in 1,4-Dioxane and 2-Ethoxyethanol
			2007B1296	BL40B2	寺尾 憲	

Surface and Interface Analysis

Akihiko Nakaguchi	10639	38 (2006) 1773-1776	2005A0598	BL27SU	越川 孝範	Sb on In/Si(111) Processes with Dynamically Observable LEEM, Selected Area LEED and Chemically Analyzed SR-XPEEM
Michihiro Hashimoto	13568	40 (2008) 1772-1776	2006A1662	BL17SU	越川 孝範	Mapping of Chemical Bonding States of Ag/Si(111) with Synchrotron Radiation Photo Emission Electron Microscopy
			2006B1566	BL17SU	越川 孝範	

Vacuum

Taizo Kawauchi	13576	83 (2008) 873-877	2001B0419	BL09XU	岡野 達雄	UHV-type Synchrotron Radiation Reflectometer
			2002A0302	BL09XU	岡野 達雄	
			2002B0697	BL09XU	岡野 達雄	
			2003B0669	BL09XU	岡野 達雄	
Tatsuya Matsue	13743	83 (2009) 585-588	2006A1537	BL13XU	英 崇夫	Effect of Heating on the Residual Stresses in TiN Films Investigated using Synchrotron Radiation

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

Yuden Teraoka	13599	129 (2009) 294-295	2008A3802	BL23SU	寺岡 有殿	Ultra Thin AlN Layer Formation at Al(111) Surface by Supersonic N ₂ Beams
Makoto Souwa	13600	129 (2009) 229-232	2008A3801	BL23SU	寺岡 有殿	Photoemission Study on Natural Oxidation of Cu ₃ Au with Synchrotron Radiation

Acta Crystallographica Section A

Mau-Sen Chiu	13703	64 (2008) 394-403	C04B1503	BL12XU	Chang Shih-Lin	Dynamical Calculation for X-ray Twenty-Four Beam Diffraction in a Two-Plate Crystal Cavity of Silicon
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Advances in Solid Oxide Fuel Cell IV, Ceramic Engineering and Science Proceedings

Hiroyuki Yoshida	13765	29 (2008) 123	2006B5050	BL16XU	出口 博史	Evaluation of the Residual Stress Profiles of Practical Size Lanthanum Gallate-Based Cells in Radial Direction
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Analytical Chemistry

Hisashi Hayashi	13977	81 (2009)	2007B1166	BL39XU	林 久史	Probe for Spin- and Valence-Selective X-ray Absorption
		1522-1528	2008A1336	BL39XU	林 久史	Fine Structure Spectroscopy: EuL ₄ Emission

Angewandte Chemie International Edition

Shuhei Furukawa	13744	48 (2009) 1766-1770	2007A1825	BL13XU	田中 大輔	Heterogeneously Hybridized Porous Coordination Polymer Crystals: Fabrication of Heterometallic Core-Shell Type Single Crystals with In-Plane Rotational Epitaxial Relationship
			2007B1771	BL13XU	北川 進	
			2008A1574	BL13XU	北川 進	

Biochemical and Biophysical Research Communications

Daisuke Tsuchiya	13570	379 (2009) 485-488	2007A1272	BL40B2	土屋 大輔	Cooperativity of Two Active Sites in Bacterial Homodimeric Aconitases
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Biochemical Journal

Hideaki Sato	13975	419 (2009) 339-345	2008A1096	BL38B1	福山 恵一	Crystal Structure of Rat Haem Oxygenase-1 in Complex with Ferrous Verdohaem: Presence of a Hydrogen-bond Network on the Distal Side
			2008B1054	BL41XU	杉島 正一	

Biophysical Journal

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
Takumi Tamura	13639	96 (2009) 1045-1055	2003A0185	BL40XU	岩本 裕之	Dynamics of Thin Filament Activation in Rabbit Skeletal Muscle Fibers Examined by Time-Resolved X-ray Diffraction
			2003B0188	BL40XU	岩本 裕之	
			2004A0585	BL40XU	岩本 裕之	
			2005A0117	BL40XU	岩本 裕之	
			2005B0267	BL45XU	岩本 裕之	

Chemical Geology

Kasuya Tanaka	12607	248 (2008) 104-113	2006A1533	BL01B1	田中 万也	Local Structure of Y and Ho in Calcite and its Relevance to Y Fractionation from Ho in Partitioning between Calcite and Aqueous Solution
			2006A1596	BL01B1	光延 聖	
			2006B1099	BL01B1	高橋 嘉夫	

Chemistry - A European Journal

Chou-Fu Sheu	13728	15 (2009) 2384-2393	2004A2053	BL02B1	Wang Yu	Structure and Electronic Configuration of an Iron(II) Complex in a LIESST State: A Pump and Probe Method
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Chemistry of Materials

Jianding Yu	13615	21 (2009) 259-263	2005B0310	BL02B2	Yu Jianding	Comprehensive Structural Study of Glassy and Metastable Crystalline BaTi ₂ O ₅
			2006A1263	BL04B2	Yu Jianding	

Clinical and Experimental Pharmacology and Physiology

Mikiyasu Shirai	13566	36 (2009) 107-116	2003A0464	BL28B2	徳永 宜之	Synchrotron-based Angiography for Investigation of the Regulation of Vasomotor Function in the Microcirculation <i>in vivo</i>
			2005A0513	BL28B2	Peason James	
			2005B0525	BL28B2	Eppel Gabriela	

Commission on Powder Diffraction, IUCr Newsletter

Fujio Izumi	13547	(2001) 7-9	C01B2003	BL15XU	池田 拓史	Beyond the Abilities of Rietveld Analysis: MEM-based Pattern Fitting with Synchrotron X-ray Powder Diffraction Data
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Earth and Planetary Science Letters

Shigehiko Tateno	13528	277 (2009) 130-136	2007A0099	BL10XU	廣瀬 敬	Determination of Post-perovskite Phase Transition Boundary up to 4400 K and Implications for Thermal Structure in D layer
			2007B0099	BL10XU	廣瀬 敬	

Electrochemistry

Takanori Itoh	13716	77 (2009) 161-168	2007B1915	BL19B2	伊藤 孝憲	Study of Mechanism of Mixed Conduction Due to Electrons and Oxygen Ions in (La _{0.75} Sr _{0.25})MnO _{3.00} and (Ba _{0.5} Sr _{0.5})(Co _{0.8} Fe _{0.2})O _{2.33} through Rietveld Refinement and MEM Analysis
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European Journal of Inorganic Chemistry

Miho Itoi	9325	2006 (2006) 1198-1207	2004B0193	BL02B2	小島 憲道	Charge-Transfer Phase Transition and Ferromagnetism of Iron Mixed-Valence Complexes (n-C _n H _{2n+1}) ₄ N[Fe ^{II} Fe ^{III} (dto) ₃] (n = 3-6; dto = C ₂ O ₂ S ₂)
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Inorganic Chemistry

Alexei Belik	13609	48 (2009) 1000-1004	2007B1192	BL04B2	遊佐 齊	Peculiar High-Pressure Behavior of BiMnO ₃
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International Journal of Cast Metals Research

Takanori Nishimura	13518	21 (2008) 114-118	2007A1431	BL20XU	戸田 裕之	Change in Microstructure of Al-Si-Cu Casting Alloys during High-Temperature Solution Treatment
			2007B1080	BL20XU	戸田 裕之	

International Journal of Modern Physics B

Takao Hanabusa	12735	20 (2006) 4691-4696	2003B0324	BL13XU	日下 一也	Thermal Stress Behavior in Nano-size Thin Aluminum Films
			2003A0305	BL13XU	英 崇夫	

Journal de Physique IV France

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
Yoshio Nogami	10183	131 (2005) 39-42	2002B0579	BL02B1	野上 由夫	X-ray Structural Study of Charge and Anion Orderings of TMTTF Salts

Journal of Alloys and Compounds

Keiji Itoh	13948	474 (2009) 4-8	2005B0066	BL04B2	伊藤 恵司	Structural Study of Amorphous LaNi_5D_x : <i>In situ</i> Neutron and X-ray Diffraction Experiments in Deuterium Gas
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Journal of Applied Crystallography

Yuko Ikeda	12754	40 (2007) s549-s552	2006A1298	BL40B2	池田 裕子	Study on Two-Dimensional Small-Angle X-ray Scattering of <i>in situ</i> Silica Filled Nanocomposite Elastomer during Deformation
			2005B0661	BL40B2	池田 裕子	

Journal of Catalysis

Yuya Miyahara	13753	259 (2008) 36-42	C05A4050	BL16B2	出口 博史	Evaluation of Catalytic Activity of $\text{Ga}_2\text{O}_3\text{-Al}_2\text{O}_3$ Solid Solutions for CH_4 -SCR by UV-vis Spectra after Adsorption of C_3H_6 as a Probe
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The Journal of Chemical Physics

Szilvia Pothoczki	13976	130 (2009) 064503	2007A1084	BL04B2	Pusztai Laszlo	Nanometer Range Correlations between Molecular Orientations in Liquids of Molecules with Perfect Tetrahedral Shape: CCl_4 , SiCl_4 , GeCl_4 , and SnCl_4
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Journal of Crystal Growth

Hiroyuki Saitoh	12956	310 (2008) 473-476	2006A3604	BL14B1	齋藤 寛之	Decomposition of InN at High Pressures and Temperatures and Its Thermal Instability at Ambient Conditions
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Journal of Geophysical Research

Yoshinori Tange	13764	114 (2009) B02214	2003B0411	BL04B1	高橋 栄一	Phase Relations in the System MgO-FeO-SiO_2 to 50 GPa and 2000 °C: An Application of Experimental Techniques using Multianvil Apparatus with Sintered Diamond Anvils
			2004B0437	BL04B1	高橋 栄一	
			2004A3892	BL10XU	巽 好幸	

Journal of Materials Science: Materials in Electronics

Takayoshi Shimura	13745	19 (2008) S189-S193	2006B1759	BL13XU	福田 一徳	Characterization of Strained Si Wafers by X-ray Diffraction Techniques
			2007A2029	BL13XU	志村 考功	
			2007A1736	BL20B2	志村 考功	
			2007B1557	BL20B2	志村 考功	

Journal of Mineralogical and Petrological Sciences

Eriko Satou	13950	103 (2008) 141-144	2006B1344	BL37XU	中井 泉	Study of Zn-bearing beaverite $\text{Pb}(\text{Fe}_2\text{Zn})(\text{SO}_4)_2(\text{OH})_6$ Obtained from Mikawa Mine, Niigata Prefecture, Japan
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Journal of Molecular Biology

Tatsuhito Matsuo	13534	383 (2008) 1019-1036	2007A1226	BL40XU	八木 直人	Structural Changes in the Muscle Thin Filament during Contractions Caused by Single and Double Electrical Pulses
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Journal of Physics and Chemistry of Solids

Alfred Baron	13919	69 (2008) 3100-3102	2005A0148	BL35XU	Baron Alfred	First Study of the B_{1g} Buckling Phonon Mode in Optimally Doped, De-Twinned, $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ by Inelastic X-ray Scattering
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Journal of Physics: Condensed Matter

Tomoyuki Yamamoto	13691	21 (2009) 104211	2008A1274	BL01B1	山本 知之	Local Environment Analysis of Dopants in Ceramics by X-ray Absorption Near-Edge Structure with the Aid of First-Principles Calculations
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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
Keiji Itoh	13949	144 (2009) 012107	2007A1157	BL04B2	伊藤 恵司	Structure of Mg ₅₀ Ni ₅₀ Amorphous Alloy Studied by Using X-ray Diffraction and Reverse Monte Carlo Modelling

Journal of the Electrochemical Society

Hiroyuki Yoshida	13751	155 (2008) B738-B742	2005B5050	BL16XU	出口 博史	Residual Stress Analysis in Lanthanum Gallate-Based Cells before and after Fuel Cell Operation
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Journal of Vacuum Science & Technology B

Maki Suemitsu	13662	27 (2009) 547-550	2008A3880	BL23SU	末光 眞希	Initial Oxidation of Si(110) as Studied by Real-Time Synchrotron-Radiation X-ray Photoemission Spectroscopy
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Key Engineering Materials

Takao Hanabusa	12734	353-358 (2007) 671-674	2004A0277	BL13XU	日下 一也	Stress-assisted Atomic Migration in Thin Copper Films
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Langmuir

Yohko Yano	13692	25 (2009) 32-35	2007A1197	BL37XU	矢野 陽子	Driving Force behind Adsorption-Induced Protein Unfolding: A Time-Resolved X-ray Reflectivity Study on Lysozyme Adsorbed at an Air/Water Interface
			2007B1091	BL37XU	矢野 陽子	

Microelectronic Engineering

Daisuke Nakamura	10096	83 (2006) 139-141	2002B0335	BL20B2	広瀬 美治	Ultrahigh-quality Single Crystals of Silicon Carbide by Alternate Repetition of Growth Perpendicular to c-axis
			2003A0289	BL20B2	広瀬 美治	
			2004A0091	BL20B2	広瀬 美治	

Microporous and Mesoporous Materials

Takuji Ikeda	13530	57 (2003) 249-261	C01B2003	BL15XU	池田 拓史	K ⁺ Ion Distribution in Zeolite ZK-4's with Various Si/Al Ratios and the Contribution of K ⁺ Ions to K Cluster Formation
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Nano Research

Ryo Kitaura	12969	1 (2008) 152-157	2007B1732	BL25SU	篠原 久典	High Yield Synthesis and Characterization of the Structural and Magnetic Properties of Crystalline ErCl ₃ Nanowires in Single-Walled Carbon Nanotube Templates
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Nuclear Instruments and Methods in Physics Research Section A

Hiroki Ueno	13686	600 (2009) 322-324	2005A0711	BL04B2	武田 信一	Partial Structures in Molten AgBr
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Nuclear Instruments and Methods in Physics Research Section B

Kaoru Ohya	13066	266 (2008) 541-548	2002B0196	BL15XU	伊藤 秋男	Emission Statistics of X-ray Induced Photoelectrons and Its Comparison with Electron- and Ion-Induced Electron Emissions
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Physica C

Katsumi Tanigaki	13816	451 (2007) 19-23	2005A0332	BL25SU	谷垣 勝己	Missing Superconductivity in BaAlSi with the AlB ₂ Type Structure
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Polymer

Kiyoka Okada	10394	48 (2007) 1116-1126	2004B0271	BL40B2	彦坂 正道	Supercooling (T) Dependence of Nano-nucleation of PE by SAXS and Proposal of a New Nucleation Theory
			2006A1576	BL40B2	岡田 聖香	

RNA 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
Yuzuru Ito	13792	5 (2008) 169-177	2006B1766	BL41XU	関根 俊一	Crystallographic and Mutational Studies of seryl-tRNA Synthetase from the Archaeon <i>Pyrococcus horikoshii</i>

Scripta Materialia

Teruyuki Ikeda	13952	60 (2009) 321-324	2007A1569	BL02B2	池田 輝之	In situ Observation of Eutectoid Reaction Forming a PbTe-Sb ₂ Te ₃ Thermoelectric Nanocomposite by Synchrotron X-ray Diffraction
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Solid State Ionics

Hiroyuki Yoshida	13748	178 (2007) 399-405	C04A4051	BL16B2	出口 博史	Study on Pyrolysing Behavior of NiO-SDC Composite Particles Prepared by Spray Pyrolysis Technique
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Spectrochimica Acta Part B

Takahisa Koyama	11410	62 (2007) 603-607	C04B5042	BL24XU	籠島 靖	Tomographic Quantitative Phase Measurement by Hard X-ray Micro-interferometer with 250 nm Spatial Resolution
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Surface Review and Letters

Fumihiko Matui	13776	14 (2007) 637-643	2005A0540	BL25SU	大門 寛	Stereo Photograph of Atomic Arrangement and Atomic-Orbital Analysis by Two-Dimensional Photoelectron Spectroscopy
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Surface Science

Shin Takahashi	13509	603 (2009) 221-225	2007A3874	BL23SU	寺岡 有殿	High Resolution X-ray Photoelectron Spectroscopy Study on Initial Oxidation of 4H-SiC(0001)-(3x 3) R30 ° Surface
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軽金属 (Journal of Japan Institute of Light Metals)

Masakazu Kobayashi	13972	59 (2009) 30-34	2006A1056	BL47XU	戸田 裕之	Three-Dimensional Observation of Micro-pores in 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)

Daisuke Yamazaki	13668	18 (2008) 254-259	2007A1398	BL04B1	山崎 大輔	Post-Perovskite Transformation in Germanates Using Sintered Diamond Anvils
			2006A1477	BL04B1	山崎 大輔	

繊維学会誌 (Journal of the Society of Fiber Science and Technology, Japan)

Toshihisa Tanaka	13006	60 (2004) 309-315	2005A0307	BL47XU	岩田 忠久	Processing of Strong Fibers of Microbial Biodegradable Aliphatic Polyesters - Drawing and Annealing Conditions of Polyhydroxyalkanoates Fibers -
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地球化学 (Geochemistry)

Tetsu Kogiso	13554	42 (2008) 217-228	2004B0124	BL20XU	小木 曾 哲	Non-destructive Search for Micrometer-Scale Minerals from the Inside of Rock Samples with Synchrotron Radiation X-ray: A Case Study for Platinum-Group Elements
			2005A0413	BL20XU	小木 曾 哲	
			2005B0166	BL20XU	小木 曾 哲	
			2006A1347	BL20XU	小木 曾 哲	
			2006B1101	BL47XU	小木 曾 哲	

表面科学 (Journal of The Surface Science Society of Japan)

Noritaka Kato	9666	27 (2006) 258-264	2003B0222	BL46XU	加藤 徳剛	Structural Analysis of a J-aggregate Monolayer at the Air-Water Interface by a Grazing Incidence X-ray Diffraction Method and Calculation of the Energy Level of Its Excitonic Absorption Band
			2004A0247	BL46XU	加藤 徳剛	

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
Koh Ida	12874	283 (2008) 16584-16590	理研	BL45XU	Structural Basis of Proteolytic Activation of L-Phenylalanine Oxidase from <i>Pseudomonas</i> sp.P-501
Kenji Inaba	13578	283 (2008) 35042-35052	理研	BL45XU	A Pair of Circularly Permutated PDZ Domains Control RseP, the S2P Family Intramembrane Protease of <i>Escherichia coli</i>
Noriko Handa	13791	283 (2008) 19657-19664	理研	BL26B2	Crystal Structure of the GAF-B Domain from Human Phosphodiesterase 10A Complexed with its Ligand, cAMP

Physical Review Letters

Lars G. M. Pettersson	12997	100 (2008) 249801	理研	BL17SU	Comment on "Isotope and Temperature Effects in Liquid Water Probed by X-ray Absorption and Resonant X-ray Emission Spectroscopy"
Masaharu Matsunami	13587	102 (2009) 036403	理研	BL17SU	Anomalous Duality of 4f Electrons in Filled Skutterudite CeOs ₄ Sb ₁₂
Yoshinori Nishino	13619	102 (2009) 018101	理研	BL29XU	Three-dimensional Visualization of a Human Chromosome Using Coherent X-ray Diffraction

Journal of Synchrotron Radiation

Nobuo Okazaki	13067	15 (2008) 288-291	制御	BL26B2	Mail-in Date Collection at SPring-8 Protein Crystallography Beamlines
Chi-Yi Huang	13596	15 (2008) 50-54	光学系	BL12XU	Cost-effective Upgrade of a Focusing System for Inelastic X-ray Scattering Experiments under High Pressure

Nucleic Acids Research

Subash Gopinath	13720	36 (2008) 3463-3473	理研	BL26B1	Insights into Anti-Termination Regulation of the <i>hut</i> Operon in <i>Bacillus subtilis</i> : Importance of the Dual RNA-binding Surfaces of HutP
Thirumananseri Kumarevel	13802	36 (2008) 4808-4820	理研	BL26B2	Crystal Structure of Glutamine Receptor Protein from <i>Sulfolobus tokodaii</i> Strain 7 in Complex with its Effector L-glutamine: Implications of Effector Binding in Molecular Association and DNA Binding

Proteins: Structure, Function, and Bioinformatics

Akihiro Yamamura	13706	73 (2008) 1053-1057	理研	BL26B2	Crystal Structure of TTHA1429, a Novel Metallo-β-lactamase Superfamily Protein from <i>Thermus thermophilus</i> HB8
Minoru Hayashida	13825	71 (2008) 519-523	理研	BL44B2 BL45XU	Crystal Structure of <i>N</i> -acylamino Acid Racemase from <i>Thermus thermophilus</i> HB8

Acta Crystallographica Section F

Vladimir Meshcheryakov	13930	64 (2008) 528-530	理研	BL44B2	Crystallization and Preliminary X-ray Crystallographic Analysis of Full-Length Yeast Tropomyosin 2 from <i>Saccharomyces cerevisiae</i>
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Biochemical and Biophysical Research Communications

Preethi Ragunathan	13932	375 (2008) 124-128	理研	BL26B2	Crystal Structure of ST2348, a CBS Domain Protein, from Hyperthermophilic Archaeon <i>Sulfolobus tokodaii</i>
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Biophysical Journal

Shiho Minakata	13931	95 (2008) 710-719	理研	BL44B2	Two-Crystal Structures of Tropomyosin C-Terminal Fragment 176-273: Exposure of the Hydrophobic Core to the Solvent Destabilizes the Tropomyosin Molecule
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Journal of Applied Physics

Ritsuko Eguchi	13914	105 (2009) 056103	理研	BL29XU	Structure and Photoemission Spectroscopy of Strain-Controlled Metal-Insulator Transition in NdNiO ₃ Thin Films
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The Journal of Chemical Physics

Kaname Kanai	13586	129 (2008) 224507	理研	BL17SU	Anomalous Electronic Structure of Ionic Liquids Determined by Soft X-ray Emission Spectroscopy: Contributions from the Cations and Anions to the Occupied Electronic Structure
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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
Ihsanawati	13796	383 (2008) 871-884	理研	BL26B2	Crystal Structure of tRNA N^2,N^2 -guanosine Dimethyltransferase Trm1 from <i>Pyrococcus horikoshii</i>

Journal of Structural and Functional Genomics

Michihiro Sugahara	13718	9 (2008) 21-28	理研	BL26B1	High-throughput Crystallization-to-Structure Pipeline at RIKEN SPring-8 Center
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Measurement Science and Technology

Kensuke Higuchi	9558	16 (2005) 381-385	原研	BL11XU	Precise Measurement of Density and Structure of Undercooled Molten Silicon by Using Synchrotron Radiation Combined with Electromagnetic Levitation Technique
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Molecular and Cellular Biology

Hideaki Shimizu	13820	28 (2008) 3663-3671	理研 理研	BL26B1 BL26B2	Crystal Structure of an Active Form of BACE1, an Enzyme Responsible for Amyloid Protein Production
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Physical Review B

Yukio Takahashi	13969	78 (2008) 092105	理研	BL29XU	Element-specific Hard X-ray Diffraction Microscopy
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Proceedings of the National Academy of Sciences of the United States of America

Takeshi Murata	13641	105 (2008) 8607-8612	理研	BL26B1	Ion Binding and Selectivity of the Rotor Ring of the Na^+ -Transporting V-ATPase
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Protein Science

Seisuke Kusano	13794	17 (2008) 1907-1914	理研	BL26B2	Crystal Structure of the Human Receptor Activity-Modifying Protein 1 Extracellular Domain
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Review of Scientific Instruments

Tomoyuki Takeuchi	13737	80 (2009) 023905	理研	BL17SU	An Ultrahigh-Vacuum Apparatus for Resonant Diffraction Experiments using Soft X rays ($h\nu \approx 300\text{-}3000$ eV)
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Surface and Interface Analysis

Yukio Takahashi	13970	40 (2008) 1046-1049	理研	BL29XU	Coherent X-ray Diffraction Measurements of Cu Thin Lines
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