

## 最近SPring-8から発表された成果リスト

財団法人高輝度光科学研究センター  
利用業務部

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

<http://4users.spring8.or.jp/pub/> (注)

このデータベースに登録された原著論文の内、平成17年10月～11月にその別刷もしくはコピー等を受理したもの(登録時期は問いません)を以下に紹介します。論文の情報(主著者、巻、発行年、ページ、タイトル)に加え、データベースの登録番号(研究成果番号)を掲載していますので、詳細はホームページでご覧いただくことができます。また実施された課題の情報(課題番号、ビームライン、実験責任者名)も掲載しています。課題番号は最初の4文字が「year」、次の1文字が「term」、後ろの4文字が「proposal no.」となっていますので、この情報から以下のHPで公表している、各課題の英文利用報告書(SPring-8 User Experiment Report)を探してご覧いただくことができます。

[http://www.spring8.or.jp/e/user\\_info/user\\_ex\\_repo/](http://www.spring8.or.jp/e/user_info/user_ex_repo/) (注)

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

(注) 2月にSPring-8ホームページの改訂が予定されており、これらのURLも変更される予定

・課題の成果として登録された論文

## Journal of Electron Spectroscopy and Related Phenomena

主著者名	研究成果番号	巻、発行年、頁	課題番号	ビームライン	実験責任者	タイトル
Tetsuya Nakamura	7059	144-147 (2005) 1035-1038	2003B0258	BL25SU	中村 哲也	Development of Soft X-ray Magnetic Circular Dichroism Spectrometer using a 1.9 T Electromagnet at BL25SU of SPring-8
Akihiko Shigemoto	8420	144-147 (2005) 349-350	2001B1009	BL25SU	関山 明	Angle Resolved Photoemission Study of Quasi One-Dimensional SrCuO <sub>2</sub> by Soft X-ray Excitation
Shin Imada	8424	144-147 (2005) 651-653	2001A0158	BL25SU	今田 真	Photoemission of Heavy Fermion Superconductor PrOs <sub>4</sub> Sb <sub>12</sub> and Other Pr Compounds
Akihiko Shigemoto	8426	144-147 (2005) 671-673	2002A1009	BL25SU	菅 滋正	High Resolution Soft X-ray Photoemission of Kondo Insulator YbB <sub>12</sub>
Atsushi Higashiya	8427	144-147 (2005) 761-763	2001B0174	BL25SU	関山 明	Temperature-Dependent Magnetic Circular Dichroism in Mn 2p X-ray Absorption Spectra of Nd <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub>
Hidenori Fujiwara	8428	144-147 (2005) 807-809	2001A0129 2003A0593	BL25SU BL25SU	関山 明 関山 明	High-Resolution Photoemission Study of Nd <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub>
Akihiko Shigemoto	8429	144-147 (2005) 837-839	2001B1009	BL25SU	菅 滋正	Bulk Sensitive Photoemission Studies of Metal-Insulator Transitions in V <sub>6</sub> O <sub>13</sub> and VO <sub>2</sub>
Atushi Yamasaki	8430	144-147 (2005) 617-619	2003A0593	BL25SU	今田 真	Hard and Soft X-ray Photoemission Spectroscopies of Ferromagnetic Sm <sub>4</sub> As <sub>3</sub>
Atushi Yamasaki	8431	144-147 (2005) 621-623	2001A0158 2002A0433	BL25SU BL25SU	今田 真 今田 真	Bulk-Sensitive Photoemission Spectroscopy of Pr-Based Filled Skutterudites
Masanori Tsunekawa	8432	144-147 (2005) 275-277	2002B0121	BL25SU	関山 明	Soft X-ray Photoemission Study of Organic Conductors BEDT-TTF and BEDO-TTF Salts
Akira Sekiyama	8433	144-147 (2005) 655-657	2001A0130	BL25SU	関山 明	High-Resolution Soft X-ray Photoemission Study of a Kondo Semiconductor and Related Compounds
Akira Sekiyama	8434	144-147 (2005) 659-661	2002A0428	BL25SU	菅 滋正	Soft X-ray Photoemission Study of CaB <sub>6</sub>
Shin Imada	8435	144-147 (2005) 711-713	2002A0433	BL25SU	今田 真	Ferromagnetic Metal to Spin-Glass Insulator Transition in Pyrochlore-Type Molybdates R <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub> Studied with photoemission and XMCD
Shuichi Kasai	8422	144-147 (2005) 507-509	2002A1009 2004A6009	BL25SU BL25SU	関山 明 菅 滋正	Bulk Electronic State of High-T <sub>c</sub> Cuprate La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> Observed by High-Energy Angle Integrated and Resolved Photoemission Spectroscopy
Masanori Tsunekawa	8423	144-147 (2005) 541-543	2002A1009 2004A6009	BL25SU BL25SU	関山 明 菅 滋正	Bulk Electronic Structures of n-Type Superconductor Nd <sub>1.85</sub> Ce <sub>0.15</sub> CuO <sub>4</sub> Probed by High Energy Angle-Resolved Photoemission Spectroscopy
Kazumasa Okada	8501	144-147 (2005) 187-189	2003A0469	BL27SU	岡田 和正	Vibrational Effect on the Fragmentation Dynamics of the C K-shell Excited CF <sub>2</sub> CH <sub>2</sub>

## Physical Review B

主著者名	研究成果番号	巻、発行年、頁	課題番号	ビームライン	実験責任者	タイトル
Tatsuo Fukuda	7441	71 (2005) 060501	2003B0248	BL35XU	水木 純一郎	Doping Dependence of Softening in the Bond-Stretching Phonon Mode of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ ( $0 < x < 0.29$ )
			2002B0632	BL35XU	水木 純一郎	
Atushi Yamasaki	8438	70 (2004) 113103	2001A0158	BL25SU	今田 真	Possible Kondo Resonance in $\text{PrFe}_4\text{P}_{12}$ Studied by Bulk-Sensitive Photoemission
			2002A0433	BL25SU	今田 真	
Takanori Hattori	8481	72 (2005) 064205	2002B0143	BL04B1	辻 和彦	Pressure and Temperature Dependence of the Structure of Liquid InSb
			2001B0472	BL04B1	辻 和彦	
			2000B0087	BL04B1	辻 和彦	
Tomohiro Kinoshita	8538	72 (2005) 060102	2004A0306	BL22XU	辻 和彦	Pressure-Induced Drastic Structural Change in Liquid CdTe

## Acta Crystallographica Section F

Ben Ammar Youssef	8353	61 (2005) 956-958	2004A0092	BL41XU	武田 壮一	Crystallization and Preliminary Crystallographic Analysis of the Human Calcineurin Homologous Protein CHP2 Bound to the Cytoplasmic Region of the $\text{Na}^+/\text{H}^+$ Exchanger NHE1
			理研	BL44B2		
Eijiro Honjo	8484	61 (2005) 788-790	2003A0221	BL41XU	黒木 良太	Crystallization of a 2:2 Complex of Granulocyte-Colony Stimulating Factor (GCSF) with the Ligand-Binding Region of GCSF Receptor
			2003A0222	BL41XU	黒木 良太	
			2003A0749	BL38B1	黒木 良太	
Yoshinari Shoyama	8486	61 (2005) 799-801	2004A0829	BL41XU	黒木 良太	Crystallization of $^1$ -tetrahydrocannabinolic Acid (THCA) Synthase from <i>Cannabis sativa</i>
			2004B0132	BL38B1	森元 聡	
			2005A0376	BL41XU	森元 聡	

## The Journal of Biological Chemistry

Yoshikazu Tanaka	7333	279 (2004) 32957-32967	2002B0389	BL40B2	田中 勲	How Oligomerization Contributes to the Thermostability of an archaeon Protein: Protein L-Isoaspartyl-O-methyltransferase from <i>Sulfolobus tokodai</i>
			2003A0347	BL41XU	田中 勲	
			2003A0349	BL41XU	田中 勲	
Bruno Kilunga Kubata	8346	280 (2005) 26371-26383	2002A0366	BL40B2	井上 豪	Structural and Mutational Analysis of <i>Trypanosoma brucei</i> Prostaglandin $\text{H}_2$ Reductase Provides Insight into the Catalytic Mechanism of Aldo-ketoreductases
			C03A1017	BL12B2	Tang Mao-Tsu	
Min Ye	8406	280 (2005) 31267-31275	理研	BL26B1		Crystal Structure of M-Ras Reveals a GTP-bound "Off" State Conformation of Ras Family Small GTPase
			2003B0966	BL40B2	村岡 真	

## Journal of Molecular Biology

Toshihiro Kuroita	8348	351 (2005) 291-298	2002B0845	BL38B1	松村 浩由	Structural Mechanism for Coordination of Proofreading and Polymerase Activities in Archaeal DNA Polymerases
Youhei Kondou	8477	352 (2005) 976-985	C03A7000	BL44XU	山下 栄樹	Structure of the Central Hub of Bacteriophage Mu Baseplate Determined by X-ray Crystallography of gp44
Masayuki Yamasaki	8593	352 (2005) 11-21	2004B0851	BL01B1	三上 文三	A Structural Basis for Depolymerization of Alginate by Polysaccharide Lyase Family-7

## Journal of the Physical Society of Japan

Atushi Yamasaki	8437	74 (2005) 2538-2543	2000A0114	BL25SU	今田 真	Photoemission Spectroscopy of $\text{Sm}_4\text{As}_3$ Using Soft and Hard X-rays
Hidishi Fujishita	8444	74 (2005) 2743-2747	2001A0192	BL02B2	藤下 豪司	A Study of Structures and Order Parameters in Antiferroelectric $\text{PbHfO}_3$ by Synchrotron Radiation
Norifumi Yamada	8489	74 (2005) 2853-2859	2000A0203	BL40B2	井上 勝晶	SAXS, SANS and NSE Studies on "Unbound State" in DPPC/Water/ $\text{CaCl}_2$ System
			2000B0469	BL40B2	井上 勝晶	
			2001A0547	BL40B2	井上 勝晶	

## Nuclear Instruments and Methods in Physics Research Section B

Tetsuya Nakamura	7060	238 (2005) 251-254	2003B0258	BL25SU	中村 哲也	Soft X-ray Magnetic Circular Dichroism Study of $\text{Al}_{40}\text{Mn}_{25}\text{Fe}_{15}\text{Ge}_{20}$ Decagonal Quasicrystal
			2004A0150	BL25SU	中村 哲也	
			2004A0151	BL25SU	中村 哲也	
Shino Takeda	8386	231 (2005) 333-337	2004A0245	BL37XU	武田 志乃	Tin Accumulation in Spermatozoa of the Rats Exposed to Tributyltin Chloride by Synchrotron Radiation X-ray Fluorescence (SR-XRF) Analysis with Microprobe
Yasuhiro Yoneda	8537	238 (2005) 150-153	2004A0018	BL04B2	米田 安宏	PDF Analysis on Re-crystallized Structure from Amorphous BiT

**The Journal of Biochemistry**

主著者名	研究成果番号	巻、発行年、頁	課題番号	ビームライン	実験責任者	タイトル
Asako Yamaguchi	8364	137 (2005) 587-592	2003B0603	BL40B2	多田 俊治	Structural Basis for Thermostability of End-1,5- $\alpha$ -L-Arabinanase from <i>Bacillus thermodenitrificans</i> TS-3
Chizuru Hongo	8371	138 (2005) 135-144	2000B0036	BL40B2	奥山 健二	Repetitive Interactions Observed in the Crystal Structure of a Collagen-Model Peptide, [(Pro-Pro-Gly) <sub>9</sub> ] <sub>3</sub>
			2001A0233	BL40B2	奥山 健二	
			2001B0127	BL40B2	奥山 健二	

**Journal of Physics: Condensed Matter**

Christopher Howard	8451	17 (2005) L459-L465	2005A0355	BL02B2	Howard Christopher	Space-Group Symmetry for the Perovskite Ca <sub>0.3</sub> Sr <sub>0.7</sub> TiO <sub>3</sub>
Marcos A. Avila	8597	17 (2005) 6969-6979	2005A0628	BL01B1	高橋 嘉夫	Direct Observation of Fe Spin Reorientation in Single-Crystalline YbFe <sub>6</sub> Ge <sub>6</sub>

**Nuclear Instruments and Methods in Physics Research Section A**

Yoshihiro Asano	7468	451 (2000) 685-696	2000A0447	BL40XU	浅野 芳裕	Measurement of Gas Bremsstrahlung at the SPring-8 Insertion Device Beamline using PWO Scintillator
Atushi Yamasaki	8436	547 (2005) 136-150	2002B3009	BL25SU	関山 明	Bulk Sensitive Photoelectron Spectroscopy with Soft and Hard X-rays: Soft X-ray ARPES toward High Resolution HAXPES
			1999B0076	BL25SU	菅 滋正	
			2001A0128	BL25SU	菅 滋正	
			2003A4009	BL25SU	今田 真	
			2000A0114	BL25SU	菅 滋正	

**Acta Crystallographica Section B**

Kouichi Kifune	8366	61 (2005) 492-497	2003B0940	BL02B2	黒岩 芳弘	Extremely Long Period-Stacking Structure in the Sb-Te Binary System
			2004A0492	BL02B2	松永 利之	
			2004B0356	BL02B2	松永 利之	

**Acta Crystallographica Section D**

Min Yao	7334	61 (2005) 294-301	2003A0347	BL41XU	田中 勲	Structure of the Type I L-asparaginase from the Hyperthermophilic archaea <i>Pyrococcus horikoshii</i> at 2.16 Å Resolution
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**Analytical Chemistry**

Yasuo Izumi	8316	77 (2005) 6969-6975	2004A0122	BL37XU	泉 康雄	X-ray Absorption Fine Structure Combined with X-ray Fluorescence Spectrometry. Improvement of Spectral Resolution at the Absorption Edges of 9 - 29 keV
			2003B0386	BL10XU	泉 康雄	
			2001B0004	BL10XU	泉 康雄	
			2001A0022	BL10XU	泉 康雄	
			1999B0220	BL10XU	泉 康雄	
			1998A0295	BL10XU	泉 康雄	

**Analytical Science**

Masaki Takaoka	8562	21 (2005) 769-773	2001A0367	BL01B1	高岡 昌輝	Determination of Chemical Form of Antimony in Contaminated Soil around a Smelter using X-ray Absorption Fine Structure
			2001A0368	BL01B1	高岡 昌輝	

**Applied Catalysis B**

Mari Uenishi	7654	57 (2005) 267-273	2002B0605	BL01B1	西畑 保雄	Redox Behavior of Palladium at Start-up in the Perovskite-Type LaFePdO <sub>x</sub> Automotive Catalysts Showing a Self-Regenerative Function
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**Biochemistry**

Tadayoshi Shirakawa	8388	44 (2005) 12402-12410	2003B0488	BL41XU	福山 恵一	Identification of Variant Molecules of <i>Bacillus thermoproteolyticus</i> Ferredoxin: Crystal Structure Reveals Bound Coenzyme A and an Unexpected [3Fe-4S] Cluster Associated with a Canonical [4Fe-4S] Ligand Motif
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**Bioconjugate Chemistry**

Kazunori Koikai	8576	16 (2005) 1349-1351	2004A0425	BL40B2	櫻井 和朗	Transition from a Normal to Inverted Cylinder for an Amidine-Bearing Lipid/pDNA Complex and Its Excellent Transfection
			2004B0135	BL40B2	櫻井 和朗	

## ChemBioChem

主著者名	研究成果番号	巻、発行年、頁	課題番号	ビームライン	実験責任者	タイトル
Kenji Okuyama	8370	6 (2005)	2002B0052	BL40B2	奥山 健二	Unexpected Puckering of Hydroxyproline in the Guest Triplets, Hyp-Pro-Gly and Pro-alloHyp-Gly Sandwiched between Pro-Pro-Gly Sequence
		1184-1187	2002A0089	BL40B2	奥山 健二	

## Chemistry Letters

Satoshi	8539	34 (2005)	2005B0488	BL01B1	光延 聖	X-ray Absorption Study on the Dominance of Sb(V) as
Mitsunobu		1656-1657	2005A0628	BL01B1	高橋 嘉夫	Secondary Antimony Species in Soil

## Dalton Transactions

Keiko Nunokawa	8534	(2005)	2002A0475	BL04B2	高木 繁	A New 19-Metal-Atom Cluster [(Me <sub>2</sub> PhP) <sub>10</sub> Au <sub>12</sub> Ag <sub>7</sub> (NO <sub>3</sub> ) <sub>9</sub> ] with a Nearly Staggered-Staggered M <sub>5</sub> Ring Configuration
		2726-2730	2003A0454	BL04B2	尾中 証	
			2003B0346	BL04B2	高木 繁	

## Earth and Planetary Science Letters

Shigeaki Ono	8448	236 (2005)	2002A0106	BL10XU	小野 重明	In situ Observations of Phase Transition between Perovskite and CaIrO <sub>3</sub> -Type Phase in MgSiO <sub>3</sub> and Pyrolytic Mantle Composition
		914-932	2002B0162	BL10XU	小野 重明	
			2003A0013	BL10XU	巽 好幸	

## The Journal of Biochemistry

Junichiro Taka	8544	137 (2005)	理研	BL26B1		Stabilization Due to Dimer Formation of Phosphoribosyl Anthranilate Isomerase from <i>Thermus thermophilus</i> HB8: X-ray Analysis and DSC Experiments
		569-578	2003B0276	BL20XU	鈴木 芳生	

## Environmental Science &amp; Technology

Masaki	8561	39 (2005)	2002B0370	BL01B1	高岡 昌輝	Dynamic Change of Copper in Fly Ash during de Novo
Takaoka		5878-5884	2003B0215	BL01B1	高岡 昌輝	Synthesis of Dioxins

## European Journal of Biochemistry

Yusaku Hioki	8573	271 (2004)	C02A7248	BL44XU	油谷 克英	The Crystal Structure of the Tryptophan Synthase $\alpha_2$ Subunit from the <i>Hyperthermophile pyrococcus furiosus</i> Investigation of Stabilization Factors
		2624-2635	2001A0089	BL41XU	油谷 克英	

## International Journal of Image and Graphics

Osamu Oshiro	7264	3 (2003)	2002A0323	BL20B2	小笠原 康夫	Kidney Glomerulus Observation in Interactive VR Space
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## International Journal of Mass Spectrometry

Shin-ichi Nagaoka	8571	247 (2005)	2002A0029	BL27SU	長岡 伸一	Site-Specific Fragmentation Caused by Core-Level
		101-105	2002B0101	BL27SU	長岡 伸一	Photoexcitation: Comparison between Si:1s and 2p
			2003A0023	BL27SU	長岡 伸一	Photoexcitations in F <sub>3</sub> SiCH <sub>2</sub> CH <sub>2</sub> Si(CH <sub>3</sub> ) <sub>3</sub> Vapor

## Japanese Journal of Applied Physics

Yoshihiro	8465	44 (2005)	2004B4889	BL02B2	黒岩 芳弘	High-Energy SR Powder Diffraction Evidence of Multisite
Kuroiwa		7151-7155	2005A5889	BL02B2	黒岩 芳弘	Disorder of Pb Atom in Cubic Phase of PbZr <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub>

## Journal of Applied Physics

Shintaro Yokoyama	8543	98 (2005)	2003B0596	BL13XU	舟窪 浩	Dependence of Electrical Properties of Epitaxial Pb(Zr,Ti)O <sub>3</sub> Thick Films on Crystal Orientation and Zr/(Zr+Ti) Ratio
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## Journal of Catalysis

Kazu Okumura	8362	234 (2005)	2005B0022	BL01B1	奥村 和	The Active and Reusable Catalysts in the Benzylation of Anisole
		300-307	2005A0305	BL01B1	奥村 和	Derived from a Heteropoly Acid

## Journal of Electrochemical Society

Tutomu Shinagawa	8409	152 (2005)	2003A0339	BL38B1	伊崎 昌伸	Characterization of Transparent Ferromagnetic Fe:ZnO
		G736-G741	2003B0223	BL19B2	伊崎 昌伸	Semiconductor Films Chemically Prepared from Aqueous
			2003B0224	BL25SU	品川 勉	Solutions
			2004A0201	BL01B1	伊崎 昌伸	

### The Journal of Peptide Research

主著者名	研究成果番号	巻、発行年、頁	課題番号	ビームライン	実験責任者	タイトル
Mitsunobu Doi	8410	66 (2005) 181-189	C00B5003 C00A0503	BL24XU BL24XU	長谷川 浩史 長谷川 浩史	Structure and Property of Self-Assemble Valinyl Bolaform Amides having Different Chirality

### Journal of Thermal Analysis and Calorimetry

Shinobu Aoyagi	8464	81 (2005) 627-630	2002B0166 2004A3889	BL02B2 BL02B2	黒岩 芳弘 黒岩 芳弘	Size Effect on Crystal Structure and Chemical Bonding Nature in BaTiO <sub>3</sub> Nanopowder
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### Kautschuk Gummi Kunststoffe

Yuko Ikeda	7724	58 (2005) 455-460	2003B0664	BL40XU	池田 裕子	Green Nano-Composites Prepared from Natural Rubber and <i>In Situ</i> Silica
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### Langmuir

Ryouji Karinaga	8568	21 (2005) 9398 -9401	2005A0680 2005A0681	BL40B2 BL40B2	櫻井 和郎 鄭 然桓	Inclusion of DNA into Organic Gelator Fibers Made of Amphipathic Molecules and Its Controlled Release
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### Medical Physics

Toshihiro Sera	8467	32 (2005) 2787-2792	2004B0034 R04B0008 R04B0052	BL20B2 BL38B1 BL38B1	八木 直人 世良 俊博 世良 俊博	Refraction-Enhanced Tomography of Mouse and Rabbit Lungs
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### Nature Structural and Molecular Biology

Ryuya Fukunaga	8359	12 (2005) 915-922	理研 2004B0416	BL26B1 BL41XU		Aminoacylation Complex Structures of Leucyl-tRNA Synthetase and tRNA <sup>Leu</sup> Reveal Two Modes of Discriminator-base Recognition
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### Physical Review Letters

Kenta Adachi	8479	95 (2005) 197202	2004B0161	BL02B2	勝藤 拓郎	Magnetic-Field Switching of Crystal Structure in an Orbital-Spin- Coupled System: MnV <sub>2</sub> O <sub>4</sub>
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### Polymer

Keiichi Noguchi	8461	46 (2005) 10823-10830	2001A0236	BL40B2	野口 恵一	Molecular and Crystal Structure of Poly(Tetramethylene Adipate) Alpha form Based on Synchrotron X-ray Fiber Diffraction
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### Progress in Nuclear Energy

Sou Watanabe	8462	47 (2005) 632-638	2003B0622	BL19B2	藤田 玲子	XAFS Study of Europium Chloride at High Temperatures
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### Review of Scientific Instruments

Yoshio Suzuki	8560	76 (2005) 93702	2003B0276 2004A0172	BL20XU BL20XU	鈴木 芳生 鈴木 芳生	Hard X-ray Holographic Microscopy using Refractive Prism and Fresnel Zone Plate Objective
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### Science

Yasuhiro Kuwayama	8176	309 (2005) 923-925	2004B4013 2005A5013	BL10XU BL10XU	巽 好幸 巽 好幸	The Pyrite-Type High-Pressure Form of Silica
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### Solid State Communications

Tatsuo Fujii	8492	136 (2005) 375-379	2003B0171	BL15XU	藤井 達生	Site-Specific Valence-Band X-ray Photoelectron Spectra of a SrTiO <sub>3</sub> Single-Crystal by X-ray Standing Wave Technique
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### Solid State Ionics

Hiroshi Deguchi	8466	176 (2005) 1817-1825	C02A4008	BL16B2	出口 博史	EXAFS Study of Doped Ceria using Multiple Data Set Fit
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## 博士論文

主著者名	研究成果番号	巻、発行年、頁	課題番号	ビームライン	実験責任者	タイトル
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