

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。

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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17年6月～7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/

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。

・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	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
Yuichiro Morishita	6846	144-147 (2005) 255-257	2003B0101	BL27SU	齋藤 則生	Three-Dimensional Electron-Ion Coincidence Momentum Imaging Spectroscopy using an Ultra-Fast Multi-Hit TDC System
Hitoshi Yamaoka	7760	144-147 (2005) 75-78	2003B0111	BL27SU	山岡 人志	Ion Yield Spectroscopy of Sodium Following K-shell Photoexcitation
Yoshihisa Harada	7785	136 (2004) 143-150	2003A0630	BL27SU	原田 慈久	Polarization Dependence in Resonant Soft X-ray Emission Spectroscopy of 3d Transition Metal Compounds
Nozomu Kamakura	7794	144-147 (2005) 841-843	R04B0038	BL47XU	小林 啓介	Hard X-ray Core Level Photoemission of Vanadium Oxides
Katsutoshi Fujiwara	7808	144-147 (2005) 207-209	2003B0102	BL27SU	上田 潔	Excitation Mechanism of the Lowest-Energy Satellite Bands in F 1s Photoemission from SF ₆
Alberto De Fanis	7818	137-140 (2004) 271-276	2002A0033	BL27SU	上田 潔	Doppler-Free Resonant Raman Auger Spectroscopy Study on Atoms and Molecules
Shan Qiao	7826	144-147 (2005) 749-752	2002A0493	BL25SU	喬 山	Temperature Dependence of Spin and Orbital Magnetic Moments of Sm 4f Electrons in (Sm,Gd)Al ₂
Koichirou Yaji	7827	144-147 (2005) 745-747	2000B0439	BL25SU	木村 昭夫	Cr 2p XMCD Spectra of Ferromagnetic Cr _{1-x} Te: A Configuration Interaction Picture
K. Kuramoto	7828	142 (2005) 253-259	2002A0356	BL27SU	田中 大	C 1s and O 1s Photoelectron Spectra of Formaldehyde with Satellites: Theory and Experiment
			2003A0286	BL27SU	田中 大	
Masamitsu Hoshino	7831	144-147 (2005) 203-205	2003B0102	BL27SU	上田 潔	Angle-Resolved Photoelectron Spectroscopy of the Satellite Bands Accompanying the O 1s Mainline of CO ₂
			2003A0286	BL27SU	田中 大	
S. K. Semenov	7834	144-147 (2005) 211-214	2002A0034	BL27SU	上田 潔	Vibrationally Resolved Photoionization of the O K-shell of CO Molecule
			2003A0286	BL27SU	田中 大	
Masashi Kitajima	7838	144 (2005) 199-202	2002A0357	BL27SU	北島 昌史	High-Resolution Resonant Auger Spectroscopy of CF ₄ , SiF ₄ , and SF ₆
			2003B0344	BL27SU	北島 昌史	
			2002A0034	BL27SU	上田 潔	
FangZhun Guo	8060	144-147 (2005) 1067-1070	2003B0588	BL25SU	大門 寛	Atomic Stereo-Photographs of Cu Single Crystal Taken by Stereo Atomscope
Yasushi Uehara	8067	148 (2005) 75-79	C03B3014	BL16XU	上原 康	X-ray Absorption and Emission Spectroscopy at the Hf-L ₁ Edge of Hafnium-(Silicon)-Oxide Ultra-Thin Film

Acta Crystallographica Section F

著者	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
Masayuki Yamasaki	7683	61 (2005) 288-290	2004B0851	BL38B1	三上 文三	Crystallization and Preliminary X-ray Analysis of Alginate Lyases A1-II and A1-II' from <i>Sphingomonas</i> sp.A1
Zhongcun Pang	7691	61 (2005) 68-70	2004A0715	BL41XU	三上 文三	Crystallization and Preliminary Crystallographic Analysis of Endo-1,3-β-D-Glucanase from <i>Arthrobacter</i> sp.
Haruka Tamura	7877	61 (2005) 595-598	C04A7119 2001A0336	BL44XU BL40B2	井上 豪 甲斐 泰	Crystallization and Preliminary X-ray Analysis of Methylthioribose-1-phosphate Isomerase from <i>Bacillus subtilis</i>
Yasufumi Umena	7937	61 (2005) 439-441	2004B0858	BL41XU	森本 幸生	Crystallization and Preliminary X-ray Diffraction Study of L-lactate Oxidase (LOX), R181M Mutant, from <i>Aerococcus viridans</i>
Jiro Harada	7981	61 (2005) 712-714	2004B0059 2004B0795	BL41XU BL38B1	福山 恵一 福山 恵一	Crystallization and Preliminary X-ray Diffraction Study of BchU, a Methyltransferase from <i>Chlorobium tepidum</i> Involved in Bacteriochlorophyll <i>c</i> Biosynthesis

Acta Crystallographica Section D

Masaichi Warizaya	6832	60 (2004) 2019-2021	C04A8168	BL32B2	木下 誉富	Expression, Purification, Crystallization and Preliminary X-ray Diffraction Studies of Human Liver Regucalcin
Nana Yokochi	7684	60 (2004) 2061-2062	2003B0846	BL38B1	三上 文三	Crystallization and Preliminary X-ray Analysis of Pyridoxal 4-Dehydrogenase, the Second Enzyme in Degradation Pathway I of Pyridoxine
Yukie Maruyama	7729	60 (2004) 289-297	C02B7325	BL44XU	三上 文三	Structure of the Core Region of the Soybean Conglycinin β' Subunit
Marina Vassilyeva	7884	59 (2003) 1651-1652	C02A7125 理研	BL44XU BL45XU	寺田 貴帆	Cloning, Expression, Purification, Crystallization and Initial Crystallographic Analysis of the Lysinebiosynthesis LysX Protein from <i>Thermus thermophilus</i> HB8

Physical Review A

Maria Piancastelli	6904	71 (2005) 10703	2003A0016	BL27SU	Piancastelli Maria N.	Resonant Auger Decay of Above-Threshold Core-Excited H ₂ O
Yoshiaki Ito	6941	69 (2004) 52505	2002B0438 C02B2009	BL15XU BL15XU	伊藤 嘉昭 Vlaicu Aurel M.	Experimental Investigation of the Origin of the Ti K _β Satellites
S. K. Semenov	7835	70 (2004) 52504	2002A0034 2003A0286	BL27SU BL27SU	上田 潔 田中 大	Interplay of Different Partial Waves on Vibrationally Resolved Photoionization of the O K Shell of the CO Molecule
D. A. Mistrov	7836	68 (2003) 22508	2002A0034 2003A0286	BL27SU BL27SU	上田 潔 田中 大	Vibrational Effects on the Shape Resonance Energy in the K-shell Photoionization Spectra of CO
Alberto De Fanis	7839	71 (2005) 52510	2003A0286 2003B0102	BL27SU BL27SU	田中 大 上田 潔	Effect of Vibrations on C 1s Photoemission in Formaldehyde in the Shape Resonance Region

Physical Review B

Tatsuhiko Nishi	7780	71 (2005) 220401(R)	2003A0076 2004A0231 2004B0545	BL43IR BL43IR BL43IR	木村 真一 木村 真一 木村 真一	Infrared Spectroscopy under Multiextreme Conditions: Direct Observation of Pseudogap Formation and Collapse in CeSb
Kana Shibata	7787	68 (2003) 94104	2002B0547	BL01B1	久保園 芳博	Structural and Electronic Properties of Ce@C ₈₂
Makoto Tachibana	7821	71 (2005) 180403(R)	2004B0772	BL02B2	川路 均	Strongly Correlated Behavior in Magnetoresistive Fe _{1-x} Cu _x Cr ₂ S ₄ Spinels
Shintaro Ishiwata	8026	72 (2005) 45104	2002A0635 2002B0004	BL02B2 BL10XU	東 正樹 守友 浩	Pressure/Temperature/Substitution-Induced Melting of A-Site Charge Disproportionation in Bi _{1-x} La _x NiO ₃ (0 < x < 0.5)
Nozomu Kamakura	8028	72 (2005) 14511	2002A0198	BL25SU	小林 啓介	Role of Ag Doping in Ba ₈ Si ₄₆ Compounds

Physica B

Satoshi Tsutsui	6708	359-361 (2005) 1117-1119	2003B0581	BL08W	松田 達磨	Magnetic Compton Scattering Study of UCoAl
Lin Chen	7233	359-361 (2005) 1186-1188	2004A0776	BL43IR	難波 孝夫	Infrared Spectroscopy on the Electronic State of Transition Metal Compounds under High Pressure
Shigeaki Ono	7761	363 (2005) 140-145	2002A0106	BL10XU	小野 重明	High-Pressure and High-Temperature Synthesis of a Cubic IrO ₂ Polymorph
Hisao Kobayashi	7796	359-361 (2005) 974-976	2002A0627	BL35XU	小林 寿夫	Phonon Density of States on DyB ₆ Determined by ¹⁶¹ Dy Nuclear Resonant Inelastic Scattering

Physical Review Letters

主著者	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
Masashi Kitajima	7829	91 (2003) 213003	2002A0357	BL27SU	北島 昌史	Doppler Effect in Resonant Photoemission from SF ₆ : Correlation between Doppler Profile and Auger Emission Anisotropy
			2003B0344	BL27SU	北島 昌史	
			2002A0034	BL27SU	上田 潔	
S. L. Chang	7922	94 (2005) 174801	C04A1506	BL12XU	Chang Shih-Lin	X-Ray Resonance in Crystal Cavities: Realization of Fabry-Perot Resonator for Hard X Rays
			C04B1503	BL12XU	Chang Shih-Lin	
Yuichi Akahama	8022	94 (2005) 195503	2004B0472	BL10XU	赤浜 裕一	New Helical Chain Structure for Scandium at 240 GPa
			2002A0188	BL10XU	赤浜 裕一	
Yasujiro Taguchi	8093	94 (2005) 217002	2004B0263	BL02B2	田口 康二郎	Specific Heat Measurement of the Layered Nitride Superconductor Li _x ZrNCl

Biochemistry

You-Na Kang	7682	44 (2005) 5106-5116	2004B0285	BL38B1	三上 文三	Structural Analysis of Threonine 342 Mutants of Soybean α-Amylase: Role of a Conformational Change of the Inner Loop in the Catalytic Mechanism
			2003A0449	BL41XU	三上 文三	
Keiko Momma	7687	44 (2005) 5053-5064	C01A7136	BL44XU	三上 文三	Direct Evidence for Sphingomonas sp. A1 Periplasmic Proteins as Macromolecule-Binding Proteins Associated with the ABC Transporter: Molecular Insights into Alginate Transport in the Periplasm
Kazuya Nishio	7906	44 (2005) 1184-1192	C04A7000	BL44XU	山下 栄樹	Conformational Changes in the α ₂ -Subunit Coupled to Binding of the α ₂ -Subunit of Tryptophan Synthase from Escherichia coli: Crystal Structure of the Tryptophan Synthase α ₂ -Subunit Alone
			理研	BL44B2		
			2001B0644	BL40B2	森本 幸生	

Chemistry Letters

Toru Inada	7630	34 (2005) 524-525	2004A0425	BL40B2	櫻井 和朗	Small-angle X-ray Scattering from Multi-walled Carbon Nanotubes (CNTs) Dispersed in Polymeric Matrix
			2004B0135	BL40B2	櫻井 和朗	
Minoru Mitsumi	7841	33 (2004) 970-971	2002A0546	BL02B1	満身 稔	Rational Syntheses of Linear Chain Rhodium(I)- Semiquinonato Complexes Using Redox Reaction of Rh ₄ (CO) ₁₂ Cluster with o-Benzoquinone
Koji Honda	7878	34 (2005) 1024-1025	2003A0606	BL13XU	高原 淳	Molecular Aggregation Structure of Poly(fluoroalkyl acrylate) Thin Films Evaluated by Synchrotron-sourced Grazing-incidence X-ray Diffraction

Japanese Journal of Applied Physics

Souichiro Mizusaki	8056	44 (2005) 3939-3944	2002A0086	BL08W	山口 益弘	Magnetic Compton Scattering Studies of Electrochemically Hydrobenated Nickel
			2002B0109	BL08W	山口 益弘	
Kentarou Kajiwara	8104	44 (2005) 4211-4212	2000A0102	BL28B2	木村 滋	New Topographic Method of Detecting Microdefects Using Weak-Beam Topography with White X-Rays
			2003A0622	BL28B2	梶原 堅太郎	
			2003B0747	BL28B2	梶原 堅太郎	
Yoshio Suzuki	8012	44 (2005) 1994-1998	2003A0187	BL20XU	竹内 晃久	Performance Test of Fresnel Zone Plate with 50 nm Outermost Zone Width in Hard X-ray Region
			2004A0175	BL20XU	竹内 晃久	

Journal of Physics: Condensed Matter

De Qian Zhao	7769	15 (2003) L749-L753	2002B0242	BL14B1	Wang Wei Hua	Melting and Crystallization of Nd ₆₀ Al ₁₀ Fe ₂₀ Co ₁₀ Bulk Metallic Glass under High Pressure
Zhi Xin Wang	7772	15 (2003) 5923-5932	2002B0242	BL14B1	Wang Wei Hua	Formation and Crystallization of CuZrHfTi Bulk Metallic Glass under Ambient and High Pressures
Takuo Ohkouchi	7879	17 (2005) 4023-4033	2003B0435	BL39XU	壬生 攻	Depth-Selective Measurements of Induced Magnetic Polarization in Cu Layers of Gd/Cu Multilayers by ¹¹⁹ Sn Mössbauer Spectroscopy

Angewandte Chemie International Edition

Kohki Ebitani	7852	44 (2005) 3423-3426	2003B0944	BL01B1	金田 清臣	Heterotrimeric RuMnMn Species on a Hydrotalcite Surface as Highly Efficient Heterogeneous Catalysts for Liquid-Phase Oxidation of Alcohols with Molecular Oxygen
			2004A0489	BL01B1	金田 清臣	
Minoru Mitsumi	8025	44 (2005) 4164-4168	2004A3888	BL02B1	鳥海 幸四郎	A Neutral Mixed-Valent Conducting Polymer Formed by Electron Transfer between Metal d and Ligand Orbitals

Applied Physics Letters

主著者	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
Wei Hua Wang	7768	83 (2003) 5202-5204	2002B0242	BL14B1	Wang Wei Hua	Nucleation and Growth in Bulk Metallic Glass under High Pressure Investigated using <i>in situ</i> X-ray Diffraction
Hiroo Omi	7927	86 (2005) 263112	C04B5092	BL24XU	尾身 博雄	In-Plane Strain Distribution in the Surface Region of Thin Silicon Overlayers on Insulator

Applied Surface Science

Tomokazu Sano	7801	247 (2005) 571-576	2003B0725	BL13XU	佐野 智一	Femtosecond Laser Driven Shock Synthesis of the High-Pressure Phase of Iron
Takeo Hattori	8103	234 (2004) 197-201	2003A0649	BL27SU	服部 健雄	Dependence of SiO ₂ /Si Interface Structure on Low-Temperature Oxidation Process

The Journal of Biological Chemistry

Takako Mukai	7689	279 (2004) 50591-50600	2003B0335	BL41XU	三上 文三	Crystal Structure of Bacterial Inorganic Polyphosphate/ATP-glucomannokinase
Hirofumi Kurokawa	7728	279 (2004) 20186-20193	2004A0715 C02B7325	BL41XU BL44XU	三上 文三 三上 文三	A Redox-controlled Molecular Switch Revealed by the Crystal Structure of a Bacterial Heme PAS Sensor

Journal of Molecular Biology

Takatsugu Kobayashi	7810	346 (2005) 105-117	2003B0077	BL41XU	石谷 隆一郎	Structural Snapshots of the KMSKS Loop Rearrangement for Amino Acid Activation by Bacterial Tyrosyl-tRNA Synthetase
Masayoshi Nakasako	8116	351 (2005) 627-640	2003A0979	BL38B1	中迫 雅由	Conformational Dynamics of Complementary Determining Region H3 of an Anti-Dansyl Fv Fragment in the Presence of Its Hapten

Journal of Physics and Chemistry of Solids

Yukinobu Kakutani	6887	65 (2004) 2071-2076	2004A0207 2002A0207	BL08W BL08W	坂井 信彦 坂井 信彦	Monte-Carlo Simulation on Compton Double Scattering of Polarized X-rays
Minoru Ota	7147	65 (2004) 2065-2070	2003B2890	BL08W	小泉 昭久	Magnetic Compton Profiles of Fe Thin Film and Anisotropy of Co/Pd Multilayer

Journal of Synchrotron Radiation

Tsuguhisa Sekioka	7866	12 (2005) 530-533	2003A0115	BL37XU	関岡 嗣久	Atomic Imaging in EBCO Superconductor Films by an X-ray Holography System using a Toroidally Bent Graphite Analyzer
Emilie Collart	7923	12 (2005) 473-478	C03B1507	BL12XU	Shukla Abhay	Spherically Bent Analyzers for Resonant Inelastic X-ray Scattering with Intrinsic Resolution Below 200meV

Physica Scripta

Yoshio Takahashi	7859	T115 (2005) 936-939	2000B0276 2001B0393	BL01B1 BL01B1	高橋 嘉夫 高橋 嘉夫	Determination of the Ce(IV)/Ce(III) Ratio by XANES in Soil Horizons and its Comparison with the Degree of Ce Anomaly
Yasutaka Nagai	8077	T115 (2005) 664-666	C01A4020	BL16B2	野中 敬正	Study on the Thermal Degradation of CeO ₂ -ZrO ₂ Solid Solution by XAFS and XRD

Physica Status Solidi C

Hiroyuki Tanaka	7790	0 (2003) 2864-2868	2003A0251 2002A0715 2002B0495	BL19B2 BL19B2 BL19B2	寺口 信明 鈴木 彰 鈴木 彰	Magnetic Properties of the Rare-Earth-Doped Semiconductor GaEuN
Masahiko Hashimoto	7792	0 (2003) 2650-2653	2003A0251 2002A0715 2002B0495	BL19B2 BL19B2 BL19B2	寺口 信明 鈴木 彰 鈴木 彰	Local Structure of Rare-Earth-Doped Diluted Magnetic Semiconductor GaGdN

American Mineralogist

Hitoshi Yusa	7863	90 (2005) 1017-1020	2003B0401 2004A0619 2004B0187	BL10XU BL10XU BL10XU	遊佐 斉 遊佐 斉 遊佐 斉	Unquenchable Hexagonal Perovskite in High-Pressure Polymorphs of Strontium Silicates
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Analytical Sciences

Yoichi Tanaka	8055	21 (2005) 839-843	2004A0185	BL37XU	田邊 晃生	Investigation of Individual Micrometer-Size Kosa Particle with On-Site Combination of Electron Microscope and Synchrotron X-ray Microscope
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Biochemical and Biophysical Research Communications

主著者	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
Shigetarou Mori	7688	327 (2005) 500-508	2004A0713	BL38B1	三上 文三	NDA-binding Mode and the Significance of Intersubunit Contact Revealed by the Crystal Structure of <i>Mycobacterium tuberculosis</i> NDA Kinase-NDA Complex

Biophysical Journal

Toshiro Oda	8054	88 (2005) 2727-2736	2001A0224	BL40B2	難波 啓一	Position and Orientation of Phalloidin in F-actin Determined by X-ray Fiber Diffraction Analysis
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Chemical Physics

Toshio Ibuki	7911	314 (2005) 119-126	2004A0053 2003A0528	BL27SU BL27SU	伊吹 紀男 伊吹 紀男	Photofragmentation of C, F and S K-shell Excited CF_3SF_5 Studied by PEPICO and PIPICO Spectroscopy
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Chemistry - A European Journal

Fausto Cargnoni	6219	10 (2004) 3861-3870	2001A0462 2002A0148 2003A0205	BL02B2 BL02B2 BL02B2	Iversen Bo Iversen Bo 西堀 英治	Interstitial Zn Atoms do the Trick in Thermoelectric Zinc Antimonide, Zn_4Sb_3 . A Combined Maximum Entropy Method X-Ray Electron Density and an Ab Initio Electronic Structure Study
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Chemistry of Materials

Alexei A. Belik	7798	17 (2005) 269-276	2004A0379 2003B0556	BL14B1 BL02B2	東 正樹 東 正樹	Crystallographic Features and Tetragonal Phase Stability of $PbVO_3$, a New Member of $PbTiO_3$ Family
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Europhysics Letters

Nozomu Kamakura	7789	67 (2004) 240-246	2002A0589	BL27SU	鎌倉 望	Layer-Dependent Band Dispersion and Correlations using Tunable Soft X-ray ARPES
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Ferroelectrics

Noritaka Kato	8021	314 (2005) 135-141	2002B0706	BL46XU	加藤 徳剛	Structural Phase Transition of J-Aggregate Crystallites on the Binary Counter-Ion Subphase
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The Journal of Chemical Physics

Masashi Nakamura	7851	122 (2005) 224703	2003A0382 2004A0223	BL13XU BL13XU	伊藤 正時 伊藤 正時	Water Adsorption on a $p(2 \times 2)$ -Ni(111) O Surface Studied by Surface X-ray Diffraction and Infrared Reflection Absorption Spectroscopy at 25 and 140 K
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Journal of Crystal Growth

Masahiko Hashimoto	7788	273 (2004) 149-155	2003A0251 2002A0715 2002B0495	BL19B2 BL19B2 BL19B2	寺口 信明 鈴木 彰 鈴木 彰	Local Structural Change in GaCrN Grown by Radio Frequency Plasma-Assisted Molecular-Beam Epitaxy
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Journal of Geophysical Research

Tomoo Katsura	7783	109 (2004) B12209	2002B0044 2003B0640	BL04B1 BL04B1	桂 智男 桂 智男	Thermal Expansion of Mg_2SiO_4 Ringwoodite at High Pressures
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The Journal of Physical Chemistry B

Kazu Okumura	7936	109 (2005) 12380-12386	2004B0311	BL01B1	奥村 和	Quick XAFS Studies on the Y-Type Zeolite Supported Au Catalysts for CO- O_2 Reaction
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Journal of Physics B: Atomic, Molecular and Optical Physics

Yoshiaki Ito	6943	37 (2004) 2303-2310	C02B2009 2004B0438	BL15XU BL15XU	Vlaicu Aurel M. 伊藤 嘉昭	Threshold Excitation in Fe $K_{3,4}$ Satellites
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Journal of the Physical Society of Japan

Ritthikrai Chai-Ngam	8086	74 (2005) 1843-1848	2003B2890 2004A3890	BL08W BL08W	小泉 昭久 小泉 昭久	Experimental Study on Interlayer Magnetic Coupling in Sputtered Al/Fe/Al/Gd Magnetic Multilayer Films. I
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Langmuir

Hideya Kawasaki	7867	21 (2005) 5731-5737	2003B0525	BL45XU	佐々木 茂男	Protonation-Induced Structural Change of Lyotropic Liquid Crystals in Oley- and Alkyltrimethylamine Oxides/Water Systems
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Mineralogical Magazine

主著者	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
Yoshio Takahashi	7860	69 (2005) 179-190	2003A0536	BL01B1	高橋 嘉夫	Determination of the Eu(II)/Eu(III) Ratios in Minerals by X-ray Absorption Near-Edge Structure (XANES) and its Application to Hydrothermal Deposits
			2003B0385	BL01B1	高橋 嘉夫	
			2004A0617	BL01B1	高橋 嘉夫	

Nature Materials

Jeffrey G. Snyder	6218	3 (2004) 458-463	2001A0462	BL02B2	Iversen Bo	Disordered Zinc in Zn ₄ Sb ₃ with Phonon-Glass and Electron-Crystal Thermoelectric Properties
			2002A0148	BL02B2	Iversen Bo	
			2003A0205	BL02B2	西堀 英治	

Physics and Chemistry of Minerals

Yu Nishihara	7960	31 (2005) 660-670	2001B0486	BL04B1	高橋 栄一	<i>P-V-T</i> Equation of State of Stishovite to the Mantle Transition Zone Conditions
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Physics of the Earth and Planetary Interiors

Willem Van Westrenen	7814	151 (2005) 163-176	2003A0053	BL04B1	Li Jie	Thermoelastic Properties of (Mg _{0.64} Fe _{0.36})O Ferropericlaase Based on in situ X-ray Diffraction to 26.7 GPa and 2173 K
			2003A0094	BL04B1	Fei Yingwei	
			2002A0485	BL04B1	Li Jie	
			2001B0487	BL04B1	Fei Yingwei	

Plant and Cell Physiology

Akihiko Tohri	8048	43 (2002) 429-439	2000B0046 理研	BL41XU BL45XU	沈 建仁	Comparison of the Structure of the Extrinsic 33 kDa Protein from Different Organisms
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Proceedings of the National Academy of Sciences of the United States of America

Takatsugu Kobayashi	7811	102 (2005) 1366-1371	2003B0077	BL41XU	石谷 隆一郎	Structural Basis of Nonnatural Amino Acid Recognition by an Engineered Aminoacyl-tRNA Synthetase for Genetic Code Expansion
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Protein and Peptide Letters

Yuichiro Kezuka	7938	11 (2004) 401-405	2003A0554	BL41XU	野中 孝昌	Crystallization and Preliminary X-ray Analysis of Plant Class I Chitinase from Rice
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Protein Science

Sachiko Toma	7894	14 (2005) 409-416	C03A7000	BL44XU	山下 栄樹	The Crystal Structures of Semi-Synthetic Aequorins
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Proteins: Structure, Function, and Bioinformatics

Hye-Jin Yoon	7686	57 (2004) 639-642	2003B0846	BL38B1	三上 文三	Crystal Structure of Peptide Deformylase from <i>Staphylococcus aureus</i> in Complex with Actinonin, a Naturally Occurring Antibacterial Agent
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Respiratory Physiology & Neurobiology

Toshihiro Sera	7812	147 (2005) 51-63	2004A0169	BL20B2	世良 俊博	Localized Morphometric Deformations of Small Airways and Alveoli in Intact Mouse Lungs under Quasi-Static Inflation
			R03B0032	BL38B1	世良 俊博	
			R03B0049	BL38B1	世良 俊博	
			R04A0052	BL38B1	世良 俊博	

Solid State Communications

Mikako Inoue	7820	134 (2005) 303-306	2003B0585	BL02B2	川路 均	Structural and Magnetic Properties of the Phase Transition in Absorbed and Non-Absorbed Copper(II) <i>trans</i> -1,4-cyclohexanedicarboxylate
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Synthetic Metals

Sadaharu Jo	7864	150 (2005) 223-226	2004A0212 2003B0068	BL28B2 BL28B2	安宅 光雄 高妻 孝光	Preparation of Polydiacetylene Single Crystals Based on Physical Vapor Growth Technique
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Transactions of the Materials Research Society of Japan

主著者	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
Noritaka Kato	7644	30 (2005) 117-121	2002B0706 2004A0247	BL46XU BL46XU	加藤 徳剛 加藤 徳剛	Grazing Incidence X-ray Diffraction of Merocyanine J- Aggregate Monolayers at the Air-Water Interface

日本レオロジー学会誌 (Journal of the Society of Rheology, Japan)

主著者	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
Shinichi Sakurai	7153	32 (2004) 179-187	2002A0649	BL19B2	櫻井 伸一	Crystallization Behavior of Linear Low Density Polyethylene in its Blend with a Rubber Polymer as Revealed by Synchrotron SAXS / WAXS / Hv-SALS Simultaneous Measurements

博士論文

主著者	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
Tomokazu Sano	5728 7740	大阪大学, (2004)	2003B0725	BL13XU	佐野 智一	Applications of Femtosecond Laser Ablation of Metals to Microprocessing
Hiroki Harada	8070	京都大学, (2005)	2003B0216	BL01B1	高岡 昌輝	Thermite Reaction applied for Waste Treatment and Recycling
Tsutomu Matsui		東京工業大学, (2005) 1-82	2004B0849 2004B0850	BL38B1 BL41XU	田中 信夫 田中 信夫	Structural Studies on a Human DEAD-box RNA Helicase, rck/p54

・ 課題の成果以外で登録された論文

Acta Crystallographica Section D

主著者	研究成果番号	巻、発行年、ページ	課題番号	ビームライン	タイトル
Tadashi Nakai	7880	59 (2003) 554-557	理研	BL45XU	Coexpression, Purification, Crystallization and Preliminary X-Ray Characterization of Glycine Decarboxylase (P-Protein) of the Glycine-Cleavage System from <i>Thermus thermophilus</i> HB8
Peter Rehse	7881	60 (2004) 357-358	理研	BL26B1	Expression, Purification, Crystallization and Preliminary Crystallographic Analysis of Osmotically Inducible Protein C
Eiji Inagaki	7882	60 (2004) 761-763	理研 理研	BL26B1 BL44B2	Crystallization and Preliminary Crystallographic Analysis of 2-keto-3- deoxygluconate Kinase from <i>Thermus thermophilus</i>
Hltomi Takahashi	7883	60 (2004) 97-104	理研	BL26B1	Structure and Implications for the Thermal Stability of Phosphopantetheine Adenylyltransferase from <i>Thermus thermophilus</i>
Sachiko Yoshiba	7885	59 (2003) 1840-1842	理研	BL44B2	Overproduction, Crystallization and Preliminary Diffraction Data of ADP-ribose Pyrophosphatase from <i>Thermus thermophilus</i> HB8
Neratur Lokanath	7886	59 (2003) 2294-2296	理研	BL26B1	Crystallization and Preliminary X-ray Crystallographic Studies of NADP-dependent 3-hydroxyisobutyrate Dehydrogenase from <i>Thermus thermophilus</i> HB8
Neratur Lokanath	7899	60 (2004) 1450-1452	理研	BL26B1	Purification, Crystallization and Preliminary Crystallographic Analysis of the Glycine-Cleavage System Component T-protein from <i>Pyrococcus horikoshii</i> OT3
Hitomi Takahashi	7900	60 (2004) 1846-1854	理研	BL26B1	Structure of the <i>Thermus thermophilus</i> Putative Periplasmic Glutamate/Glutamine-Binding Protein
Neratur Lokanath	7901	60 (2004) 1816-1823	理研 理研	BL45XU BL26B1	Structure of Aldolase from <i>Thermus thermophilus</i> HB8 Showing the Contribution of Oligomeric State to Thermostability
Peter Rehse	7902	60 (2004) 1997-2002	理研	BL26B1	Structure of the RNA-Processing Inhibitor RraA from <i>Thermus thermophilus</i>
Tadashi Nakai	8083	59 (2003) 1610-1618	理研	BL44B2	Structure of <i>Thermus thermophilus</i> HB8 H-protein of the Glycine-Cleavage System, Resolved by a Six-Dimensional Molecular-Replacement Method

Journal of Molecular Biology

主著者	研究成果番号	巻、発行年、頁	課題番号	ビームライン	タイトル
Peter Rehse	7891	338 (2004) 959-968	理研	BL26B1	Crystallographic Structure and Biochemical Analysis of the <i>Thermus thermophilus</i> Osmotically Inducible Protein C
Jun Hoseki	7892	333 (2003) 515-526	理研	BL45XU	Crystal Structure of a Family 4 Uracil-DNA Glycosylase from <i>Thermus thermophilus</i> HB8
Hiroaki Sakai	7893	332 (2003) 729-740	理研 理研	BL44B2 BL45XU	Crystal Structure of a Lysine Biosynthesis Enzyme, LysX, from <i>Thermus thermophilus</i> HB8
Noriyasu Ohshima	7898	340 (2004) 477-489	理研 理研	BL26B1 BL44B2	Structure of <i>Thermus thermophilus</i> 2-Keto-3-deoxygluconate Kinase: Evidence for Recognition of an Open Chain Substrate
Tetsunari Kimura	7994	350 (2005) 349-362	理研	BL45XU	Specifically Collapsed Intermediate in the Early Stage of the Folding of Ribonuclease A
Gentaro Miyazaki	8081	292 (1999) 1121-1136	理研	BL44B2	Magnesium(II) and Zinc(II)-Protoporphyrin IX's Stabilize the Lowest Oxygen Affinity State of Human Hemoglobin Even More Strongly than Deoxyheme
Tadashi Nakai	8082	337 (2004) 1011-1033	理研 理研	BL45XU BL44B2	Ligand-induced Conformational Changes and a Reaction Intermediate in Branched-chain 2-Oxo Acid Dehydrogenase (E1) from <i>Thermus thermophilus</i> HB8, as Revealed by X-ray Crystallography

Acta Crystallographica Section F

主著者	研究成果番号	巻、発行年、頁		ビームライン	タイトル
Tomoe Kitao	7904	61 (2005) 43-45	理研	BL26B1	Crystallization and Preliminary Crystallographic Analysis of the Nickel-Responsive Regulator NikR from <i>Pyrococcus horikoshii</i>
Neratur Lokanath	7905	61 (2005) 56-58	理研	BL26B1	Purification, Crystallization and Preliminary Crystallographic Analysis of the Vacuole-Type ATPase Subunit E from <i>Pyrococcus horikoshii</i> OT3
Bagautdinov Bagautdin	7908	61 (2005) 193-195	理研	BL26B1	Purification, Crystallization and Preliminary Crystallographic Analysis of the Biotin-Protein Ligase from <i>Pyrococcus horikoshii</i> OT3
Kazutaka Murayama	7951	61 (2005) 26-29	理研	BL26B2	Structure of a Putative <i>Trans</i> -editing Enzyme for Prolyl-tRNA from <i>Aeropyrum pernix</i> K1 at 1.7 Resolution
Jeyakantha Jeyaraman	8046	61 (2005) 463-468	理研	BL26B1	Structure of PIN-Domain Protein PH0500 from <i>Pyrococcus horikoshi</i>

The Journal of Biological Chemistry

Takashi Wada	7889	278 (2003) 30022-30027	理研	BL44B2	Crystal Structure of 4-(Cytidine 5'-diphospho)-2-C-methyl-D-erythritol kinase, an Enzyme in the Non-mevalonate Pathway of Isoprenoid Synthesis
Maki Tawaramoto	7890	278 (2003) 51454-51461	理研	BL44B2	Crystal Structure of the Human Centromere protein B (CENP-B) Dimerization Domain at 1.65- Resolution
Sachiko Yoshiba	7913	279 (2004) 37163-37174	理研	BL44B2	Structural Insights into the <i>Thermus thermophilus</i> ADP-ribose Pyrophosphatase Mechanism via Crystal Structures with the Bound Substrate and Metal
Vladimir Svetlov	7944	279 (2004) 38087-38090	理研	BL45XU	Discrimination against Deoxyribonucleotide Substrates by Bacterial RNA Polymerase
Toshiaki Okuno	8047	278 (2003) 41500-41509	理研	BL45XU	Helix 8 of the Leukotriene B ₄ Receptor Is Required for the Conformational Change to the Low Affinity State after G-protein Activation
Takashi Kudo	8071	276 (2001) 5020-5026	理研	BL44B2	A Positively Charged Cluster Formed in the Heme-distal Pocket of Cytochrome P450nor Is Essential for Interaction with NADH

Protein Science

Noriko Handa	7896	12 (2003) 1621-1632	理研	BL44B2	Crystal Structure of the Conserved Protein TT1542 from <i>Thermus thermophilus</i> HB8
Hajime Sugawara	7903	14 (2005) 202-208	理研	BL45XU	Crystal Structure of the Histidine-Containing Phosphotransfer Protein ZmHP2 from Maize
Hongfei Wang	7914	13 (2004) 2806-2810	理研	BL44B2	Crystal Structure of Ribosomal Protein L27 from <i>Thermus thermophilus</i> HB8
Mutsuko Kukimoto-Niino	7915	13 (2004) 3038-3042	理研	BL26B1	Crystal Structures of Possible Lysine Decarboxylases from <i>Thermus thermophilus</i> HB8
Mutsuko Kukimoto-Niino	7920	14 (2005) 823-827	理研	BL26B1	Crystal Structure of a Predicted Phosphoribosyltransferase (TT1426) from <i>Thermus thermophilus</i> HB8 at 2.01 Resolution
Noriko Handa	7953	14 (2005) 1004-1010	理研	BL45XU	Crystal Structure of a Novel Polyisoprenoid-Binding Protein from <i>Thermus thermophilus</i> HB8
			理研	BL44B2	

Proteins: Structure, Function, and Bioinformatics

Michihiro Sugahara	7907	58 (2005) 249-252	理研	BL26B1	Crystal Structure of Dehydroquinase Synthase From <i>Thermus thermophilus</i> HB8 Showing Functional Importance of the Dimeric State
Neratur Lokanath	7909	58 (2005) 769-773	理研	BL26B1	Crystal Structure of a Component of Glycine Cleavage System: T-Protein from <i>Pyrococcus horikoshii</i> OT3 at 1.5 Resolution
Seiichiro Kishishita	7916	57 (2004) 883-887	理研	BL44B2	Crystal Structure of a Conserved Hypothetical Protein TT1751 From <i>Thermus thermophilus</i> HB8
Azusa Seto	7917	58 (2005) 235-242	理研	BL44B2	ATP-Induced Structural Change of Dephosphocoenzyme A Kinase from <i>Thermus thermophilus</i> HB8
Kazutaka Murayama	7919	58 (2005) 982-984	理研	BL44B2	Crystal Structure of TT1662 From <i>Thermus thermophilus</i> HB8: A Member of the / Hydrolase Fold Enzymes

Nuclear Instruments and Methods in Physics Research Section A

主著者	研究成果番号	巻、発行年、頁		ビームライン	タイトル
Takemasa Masuda	7844	543 (2005) 415-430	加速器 制御		Event-Synchronized Data Acquisition System for the SPring-8 Linac Beam Position Monitors
Tetsuya Ishikawa	8135	547 (2005) 42-49	理研	BL29XU	High-Resolution X-ray Monochromators
Ashish Chainani	8136	547 (2005) 163-168	理研	BL29XU	Hard-X-ray Photoelectron Spectroscopy of Na _x CoO _{2-y} H ₂ O
Yasutaka Takata	8123	547 (2005) 50-55	理研	BL29XU	Development of Hard X-ray Photoelectron Spectroscopy at BL29XU in SPring-8

Physical Review B

Wei Hua Wang	7762	70 (2004) 92203	原研	BL14B1	High-Pressure Suppression of Crystallization in the Metallic Supercooled Liquid Zr ₄₁ Ti ₁₄ Cu _{12.5} Ni ₁₀ Be _{22.5} : Influence of Viscosity
Zhi Xin Wang	7764	69 (2004) 92202	原研	BL14B1	Crystallization Mechanism of Cu-Based Suppercooled Liquid under Ambient and High Pressure
Wei Hua Wang	7771	68 (2003) 184105	原研	BL14B1	Effect of Pressure on Nucleation and Growth in the Zr _{46.75} Ti _{8.25} Cu _{7.5} Ni ₁₀ Be _{27.5} Bulk Glass Forming Alloy Investigated using <i>in situ</i> X-ray Diffraction
J. E. Lorenzo	7968	69 (2004) 220409	理研	BL19LXU	Observation of a Lattice Instability at the Field-induced Phase Transition of the Spin-gapped Compound Cu ₂ (C ₅ H ₁₂ N ₂) ₂ Cl ₄

Biochemistry

Tsugumi Nakanishi	7962	44 (2005) 1136-1144	理研 理研	BL44B2 BL45XU	Crystal Structure of Pyruvate Phosphate Dikinase from Maize Revealed an Alternative Conformation in the Swiveling-Domain Motion
Shingo Nagano	8072	42 (2003) 14507-14514	理研	BL44B2	Infrared Spectroscopic and Mutational Studies on Putidaredoxin-Induced Conformational Changes in Ferrous CO-P450cam

Europysics Letters

Nozomu Kamakura	7791	68 (2004) 557-563	理研 留保時間	BL17SU BL47XU	Hard X-ray Core-Level Photoemission of V ₂ O ₃
Yoshikazu Tanaka	7971	68 (2004) 671-677	理研	BL19LXU	Direct and Quantitative Determination of the Orbital Ordering in CeB ₆ by X-ray Diffraction

International Journal of Radiation Biology

Ritsuko Watanabe	6987	80 (2004) 823-832	原研	BL23SU	DNA Strand Breaks by Direct Energy Deposition by Auger and Photo-Electrons Ejected from DNA Constituent Atoms Following K-shell Photoabsorption
Akinari Yokoya	6988	80 (2004) 833-839	原研	BL23SU	<i>In situ</i> Observation of Guanine Radicals Induced by Ultrasoft X-ray Irradiation around the K-edge Region of Nitrogen and Oxygen

Japanese Journal of Applied Physics

Hiroyuki Saitoh	7766	43 (2004) L981-L983	原研	BL14B1	Synthesis of Al _x Ga _{1-x} N Alloy by Solid-Phase Reaction under High Pressure
Hidekazu Mimura	8138	44 (2005) L539-L542	光学系	BL29XU	Hard X-ray Diffraction-Limited Nanofocusing with Kirkpatrick-Baez Mirrors

Journal of Synchrotron Radiation

Go Ueno	7912	12 (2005) 380-384	理研 理研	BL26B1 BL26B2	Beamline Scheduling Software: Administration Software for Automatic Operation of the RIKEN Structural Genomics Beamlines at SPring-8
Hidekazu Mimura	8139	11 (2004) 343-346	理研	BL29XU	Image Quality Improvement in a Hard X-ray Projection Microscope using Total Reflection Mirror Optics

Journal of the Physical Society of Japan

Yasuo Narumi	7970	73 (2004) 2650-2653	理研	BL19LXU	Synchrotron X-ray Diffraction Studies of the Incommensurate Phase of a Spin-Peierls System CuGeO ₃ in Strong Magnetic Fields
Koichi Katsumata	7972	74 (2005) 1598-1601	理研	BL19LXU	Synchrotron X-ray Diffraction Studies of -Gd ₂ S ₃

The EMBO Journal

著者	研究成果番号	巻、発行年、頁		ビームライン	タイトル
Tadashi Nakai	7910	24 (2005) 1523-1536	理研	BL44B2	Structure of P-protein of the Glycine Cleavage System: Implications for Nonketotic Hyperglycinemia
			理研	BL45XU	
Mamoru Matsubara	7961	23 (2004) 712-718	理研	BL45XU	Crystal Structure of a Myristoylated CAP-23/NAP-22 N-terminal Domain Complexed with Ca ²⁺ /calmodulin

Molecular Cell

Wataru Kagawa	7895	10 (2002) 359-371	理研	BL45XU	Crystal Structure of the Homologous-Pairing Domain from the Human Rad52 Recombinase in the Undecameric Form
Manli Jiang	7943	15 (2004) 777-788	理研	BL45XU	RNA Displacement and Resolution of the Transcription Bubble during Transcription by T7 RNA Polymerase

Biomacromolecules

Tadahisa Iwata	7980	6 (2005) 1803-1809	理研	BL45XU	Time-Resolved X-ray Diffraction Study on Poly[(R)-3-hydroxybutyrate] Films during Two-Step-Drawing: Generation Mechanism of Planar Zigzag Structure
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Cancer Research

Mari Shimura	8134	65 (2005) 4998-5002	理研	BL29XU	Element array by Scanning X-ray Fluorescence Microscopy after Cis-Diamminedichloro-Platinum (II) Treatment
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Cell

Dmitry Temiakov	7888	116 (2004) 381-391	理研	BL26B1	Structural Basis for Substrate Selection by T7 RNA Polymerase
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Diamond and Related Materials

Vladimir Turkevich	7773	11 (2002) 1769-1773	原研	BL14B1	Kinetics of Diamond Spontaneous Crystallization from the Melt of the Fe-Al-C System at 6.5 GPa
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EMBO Reports

Kentaro Ifuku	7966	5 (2004) 362-367	理研	BL44B2	Crystal Structure of the PsbP Protein of Photosystem II from <i>Nicotiana tabacum</i>
			理研	BL45XU	

International Congress Series

Daisuke Irikura	8053	1233 (2002) 453-459	理研	BL45XU	Crystal Structure of Lipocalin-Type Prostaglandin D Synthase
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Journal of Electron Spectroscopy and Related Phenomena

Yasutaka Takata	7825	144-147 (2005) 1063-1065	理研	BL29XU	A Novel Probe of Intrinsic Electronic Structure: Hard X-ray Photoemission Spectroscopy
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Journal of Magnetism and Magnetic Materials

A. Hannan	7969	272-276 (2004) e427-e428	理研	BL19LXU	High Field Magnetic Phase Diagram of CeP Studied by Synchrotron Radiation X-ray Diffraction
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The Journal of Physical Chemistry B

Kazuhisa Tamura	7930	109 (2005) 12832-12836	原研	BL14B1	Structural Kinetics Studies on Phase Transitions of the Bi UPD Layer between the (2 × 2) and (p × 3) Structures Using Surface X-ray Diffraction
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Journal of Structural Biology

Hiroaki Sakai	7918	149 (2005) 99-110	理研	BL44B2	Crystal Structures of the Signal Transducing Protein GlnK from <i>Thermus thermophilus</i> HB8
			理研	BL45XU	

Macromolecular Rapid Communications

Masahiro Fujita	8030	(2005) 678-683	理研	BL45XU	Synchrotron SAXS and WAXS Studies on Changes in Structural and Thermal Properties of Poly[(R)-3-hydroxybutyrate] Single Crystals during Heating
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Nature

主著者	研究成果番号	巻、発行年、頁		ビームライン	タイトル
Kozo Tomita	7947	430 (2004) 700-704	理研	BL44XU	Structural Basis for Template-Independent RNA Polymerization

Nature Structural and Molecular Biology

Tetsuya	7963	11 (2004)	理研	BL26B1	Crystal Structure of the C-terminal Clock-Oscillator Domain of the Cyanobacterial KaiA Protein
Uzumaki		623-631	理研	BL26B2	

The Pharmacogenomics Journal

Masashi Miyano	8059	1 (2001) 225-228	理研	BL45XU	How the G protein-Coupled Receptor Activates GTP-Binding Protein
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Physica B

Kaori Kuzushita	8064	359-361 (2005) 1045-1047	原研	BL22XU	Resonant X-ray Scattering Study of UNiGa ₅
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Physical Review Letters

Koji Horiba	7759	93 (2004)	理研	BL29XU	Nature of the Well Screened State in Hard X-ray Mn 2p Core-Level
		236401	留保時間	BL47XU	Photoemission Measurements of La _{1-x} Sr _x MnO ₃ Films

Physics Letters A

A. V. Darahanau	8140	335 (2005) 494-498	理研	BL29XU	Nano-Resolution Profiling of Micro-Structures using Quantative X-ray Phase Retrieval from Fraunhofer Diffraction Data
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Proteins: Structure, Function, and Genetics

Azusa Seto	7897	53 (2003) 768-771	理研	BL44B2	Crystal Structure of a Hypothetical Protein, TT1725, From <i>Thermus thermophilus</i> HB8 at 1.7 Resolution
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Review of Scientific Instruments

Hidekazu Mimura	8137	76 (2005) 45102	理研	BL29XU	Relative Angle Determinable Stitching Interferometry for Hard X-ray Reflective Optics
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