

最近SPring-8から輩出された成果リスト

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/publ/>

このデータベースに登録された原著論文の内、平成16年10～11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/

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（掲載された論文数の多い順）

Physical Review B

主著者	巻、発行年、ページ	研究成果番号	課題番号	ビームライン	実験責任者	タイトル
Nozomu, Hiraoka	70, (2004) 054420	6775	2001B0497	BL08W	平岡 望	Ru-O Orbital Hybridization and Orbital Occupation in SrRuO ₃ : A Magnetic Compton-Profile Study
Akira, Sekiyama	70, (2004) 060506	6779	2001A0128 2002B3009 2003A4009	BL25SU	関山 明 菅 滋正	Technique for Bulk Fermiology by Photoemission Applied to Layered Ruthenates
Seigo, Souma	70, (2004) 073104	6781	2002B0561	BL25SU	高橋 隆	X-ray Angle-Resolved Photoemission Spectroscopy of CaB ₆
Koichiro, Yaji	70, (2004) 064402	6786	2000B0439	BL25SU	木村 昭夫	Electronic Structure of Cr1- X (X=S, Te) Studied by Cr 2p Soft X-ray Magnetic Circular Dichroism
Shan, Qiao	70, (2004) 134418	6817	2003B0674	BL25SU	喬 山	Direct Evidence of Ferromagnetism without Net Magnetization Observed by X-ray Magnetic Circular Dichroism
Jung-Jin, Kim	70, (2004) 161315(R)	6821	理研 2004A0565	BL29XU BL47XU	牧野 久雄	Hybridization of Cr 3d-N 2p-Ga 4s in the Wide Band-Gap Diluted Magnetic Semiconductor Ga _{1-x} Cr _x N
Shin-ichi, Nagamatsu	70, (2004) 174442	6877	2002B0462 2002B0068 2003A0480	BL39XU BL25SU BL39XU	橋爪 弘雄 細糸 信好	Measurement and Multiple-Scattering Calculation of Cu K-edge X-ray Magnetic Circular Dichroism Spectra from an Exchange-Coupled Co/Cu Multilayer
Hisashi, Hayashi	70, (2004) 134427	6881	2002B0475 R03A0017	BL47XU	林 久史	Extended Spin-Polarized X-ray Absorption Near-Edge Spectra of MnO
Hisashi, Hayashi	70, (2004) 155113	6882	2003A0814	BL37XU	林 久史	Quadrupole Transition in the Dy L ₃ Edge Observed by Lifetime-Broadening-Suppressed XANES Spectroscopy

Physica B

主著者	巻、発行年、ページ	研究成果番号	課題番号	ビームライン	実験責任者	タイトル
Kojiro, Mimura	351, (2004) 292-294	6783	2001A0396	BL25SU	三村 功次郎	Temperature Dependence of Eu 4f States in EuPd ₂ S ₂ : Bulk-Sensitive High-Resolution Photoemission Study
Kojiro, Mimura	351, (2004) 295-297	6784	2001A0080 2002A0401	BL25SU	三村 功次郎	High-Resolution Resonant Photoemission Study of CeSi
Koichiro, Yaji	351, (2004) 344-346	6787	2000B0439	BL25SU	木村 昭夫	Soft X-ray Magnetic Circular Dichroism Study of Cr ₅ S ₆
Kouji, Miyamoto	351, (2004) 347-350	6788	2002B0683	BL25SU	木村 昭夫	Orbital Magnetic Moment of "half-metallic" Co ₂ MnGe
Tian, Xie	351, (2004) 351-354	6789	2003A0232	BL25SU	木村 昭夫	Soft X-ray Spectroscopy Study of Mn Nanoclusters on Si(111)-7 × 7 Surface
Shunsuke, Asanao	351, (2004) 355-357	6790	2003B0673	BL25SU	木村 昭夫	Oxygen Adsorption Effect on the Mn 2p XAS and XMCD Spectra of c(2 × 2)CuMn/Cu(001) Two-Dimensional Surface Alloy
Shan, Qiao	351, (2004) 333-337	6791	2002A0493	BL25SU	喬 山	Spin and Orbital Electronic States of Sm 4f Electrons in (Sm, Gd)Al ₂
Kazuo, Soda	351, (2004) 338-340	6822	2001B0108	BL25SU	曾田 一雄	Magnetic Circular Dichroism at Fe and V L _{2,3} Thresholds of Heusler-type Fe _{2-x} V _{1+x} Al

Journal of Molecular Biology

Jichun, Ma	338, (2004) 103-114	6140	C02A7000	BL44XU	山下 栄樹	Structure of Rat Monoamine Oxidase A and Its Specific Recognitions for Substrates and Inhibitors
			C02B7000			
			C03A7000			
Zui, Fujimoto	341, (2004) 1227-1235	6809	2002A0130	BL41XU	藤本 瑞	Crystal Structure of Aspartic Proteinase from <i>Irpex lacteus</i> in Complex with Inhibitor Pepstatin
Isao, Sakane	344, (2004) 1123-1133	6854	2001A0527	BL40B2	河田 康志	Structural Stability of Oligomeric Chaperonin 10: the Role of Two α -Strands at the N and C Termini in Structural Stabilization
			2001B0105			
			2001B0648			
Rieko, Oshima	342, (2004) 207-217	6874	2002B0781	BL40B2	伏信 進矢	Structural Evidence for Direct Hydride Transfer from NADH to Cytochrome P450 _{nor}
			2003A0729			
Yoshiaki, Yasutake	344, (2004) 325-333	6876	2000B0599	BL41XU	姚 閔	Crystal Structure of the <i>Pyrococcus horikoshii</i> Isopropylmalate Isomerase Small Subunit Provides Insight into the Dual Substrate Specificity of the Enzyme

Japanese Journal of Applied Physics

Kazuyuki, Uno	43, (2004) 1944-1946	5947	2002B0251	BL01B1	宇野 和行	Thermal Annealing Effect in GaInNAs Thin Films Estimated by Fluorescence X-Ray Absorption Fine Structure Spectroscopy
Yasuhiro, Yoneda	43, (2004) 6821-6824	6772	2002A0059	BL47XU	米田 安宏	X-ray Topography on Domain-Controlled BaTiO ₃ Crystals
Yasushi, Kagoshima	43, (2004) L1449-L1451	6835	C03B5042	BL24XU	籠島 靖	Scanning Differential-Phase-Contrast Hard X-Ray Microscopy with Wedge Absorber Detector

Journal of Physics: Condensed Matter

Yoshihiro, Iwasa	15, (2003) R495-R519	6238	2002A0482	BL02B2	竹延 大志	Superconductivity, Mott-Hubbard States, and Molecular Orbital Order in Intercalated Fullerides
			2002B0210			
Tian, Xie	16, (2004) S5783-S5786	6855	2003A0232	BL25SU	喬 山	X-ray Magnetic Circular Dichroism at L ₂₃ Edge of Co Nanoclusters on Si(111) Surface
Kouji, Miyamoto	16, (2004) S5797-S5800	6856	2002B0683	BL25SU	木村 昭夫	Element-Resolved Magnetic Moments of Heusler-Type Ferromagnetic Ternary Alloy Co ₂ MnGe

Journal of Electron Spectroscopy and Related Phenomena

主著者	巻、発行年、ページ	研究成果番号	課題番号	ビームライン	実験責任者	タイトル	
Akira, Sekiyama	137-140, (2004) 681-685	6776	2000B0036	BL25SU	菅 滋正	High-Energy Bulk-Sensitive Angle-Resolved Photoemission Study of Strongly Correlated Systems	
			2001A0075				
			2001A0128		関山 明		
			2001B0009				菅 滋正
			2002A2009				
			2002B3009				
2003A4009							
Kojiro, Mimura	137-140, (2004) 529-533	6782	2001B0396	BL25SU	三村 功次郎	Bulk-Sensitive High-Resolution Photoemission Study of a Temperature-Induced Valence Transition System EuPd2S2	
Norio, Saito	141, (2004) 183-193	6833	2003B0101	BL27SU	齋藤 則生	Deformation, Nuclear Motion and Fragmentation of Core-Excited CO2 Probed by Multiple-Ion Coincidence Momentum Imaging	

Spectrochimica Acta Part B

Masatoshi, Toyoda	59, (2004) 1311-1315	6804	2003A0816	BL37XU	河合 潤	X-ray Analysis of a Single Aerosol Particle with Combination of Scanning Electron Microscope and Synchrotron Radiation X-ray Microscope
Naoki, Awaji	59, (2004) 1133-1139	6811	C01B3005	BL16XU	淡路 直樹	Wavelength Dispersive Grazing Incidence X-ray Fluorescence of Multilayer Thin Films
Ryohei, Tanuma	59, (2004) 1549-1555	6861	C02B3009	BL16XU	田沼 良平	Submicron-Resolved X-ray Topography using Asymmetric-Reflection Magnifiers
			C02A3000		大沢 通夫	

Journal of the American Chemical Society

Masaki, Azuma	126, (2004) 8244-8246	6112	2000B0562	BL04B2	東 正樹	Pressure-induced Buckling of Spin Ladder in SrCu2O3
			2001B0595			
Shunsuke, Yajima	126, (2004) 10824-10825	6838	2003B0228	BL38B1	矢嶋 俊介	Crystallographic Structures of Two Bisphosphonate: 1-Deoxyxylulose-5-Phosphate Reductoisomerase Complexes
Kousuke, Mori	126, (2004) 10657-10666	6841	2001A0563	BL01B1	金田 清臣	Hydroxyapatite-Supported Palladium Nanoclusters: A Highly Active Heterogeneous Catalyst for Selective Oxidation of Alcohols by Use of Molecular Oxygen

Journal of Synchrotron Radiation

Ryuta, Mizutani	11, (2004) 109-112	5860	2001A0486	BL40B2	水谷 隆太	Protein Splicing of Yeast VMA1-Derived Endonuclease via Thiazolidine Intermediates
			2000A0356			
Naoto, Yagi	11, (2004) 456-461	6802	2000A0450	BL40XU	八木 直人	CCD-based X-ray Area Detector for Time-resolved Diffraction Experiments
			2000A0454		岩本 裕之	
			2002A0057		八木 直人	
			2002A0174	BL20XU	梅谷 啓二	
			J01B0502		八木 直人	

Nature

Daisuke, Nakamura	430, (2004) 1009-1012	6666	2003A0289	BL20B2	広瀬 美治	Ultra-high-Quality Silicon Carbide Single Crystals
Chikashi, Toyoshima	432, (2004) 361-368	6852	2003B0363	BL41XU	豊島 近	Luminal Gating Mechanism Revealed in Calcium Pump Crystal Structures with Phosphate Analogues

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

Michael D., Feese	101, (2004) 1816-1821	6020	1999B0005	BL41XU	黒木 良太	Structure of the Receptor-Binding Domain of Human Thrombopoietin Determined by Complexation with a Neutralizing Antibody Fragment
			2000A0255			
Tomitake, Tsukihara	100, (2004) 15304-15309	6141	C01A7001	BL44XU	吉川 信也	The Low-Spin Heme of Cytochrome c Oxidase as the Driving Element of the Proton-Pumping Process
			C01B7001			
			C02A7001			
			C02B7001			
			C03A7001			

American Mineralogist

主著者	巻、発行年、ページ	研究成果番号	課題番号	ビームライン	実験責任者	タイトル
Tatsuhiko, Kawamoto	89, (2004) 1433-1437	6720	2002B0007	BL04B2	川本 竜彦	Mg/Si Ratios of Aqueous Fluids Coexisting with Forsterite and Enstatite Based on the Phase Relations in the Mg ₂ SiO ₄ -SiO ₂ -H ₂ O System
			2001B0568			

Applied Surface Science

FangZhun, Guo	237, (2004) 616-620	6527	2003A0091	BL25SU	Guo FangZhun	Stereoscopic Photographs of Atomic Arrangements in MoS ₂ Single-Crystal
------------------	------------------------	------	-----------	--------	-----------------	--

Biochemical and Biophysical Research Communications

Shunsuke, Yajima	322, (2004) 966-973	6839	2003A0486	BL41XU	矢嶋 俊介	Relation between tRNase Activity and the Structure of Colicin D According to X-ray Crystallography
---------------------	------------------------	------	-----------	--------	-------	--

Biophysical Journal

Jun'ichi, Wakayama	87, (2004) 430-441	6480	2001B0552	BL40XU	若山 純一	Structural Transients of Contractile Proteins upon Sudden ATP Liberation in Skeletal Muscle Fibers.
			2002A0635			

Bone

Teruki, Sone	35, (2004) 432-438	6060	2000B0310	BL20B2	曾根 照喜	Analysis of Three-Dimensional Microarchitecture and Degree of Mineralization in Bone Metastases from Prostate Cancer using Synchrotron Microcomputed Tomography
			2001A0207			
			2001B0240			

Chemistry of Materials

Arup, Gayen	16, (2004) 2317-2326	6878	2003A0028	BL01B1	Sarode Prabhakar	Ce _{1-x} Rh _x O ₂ - Solid Solution Formation in Combustion Synthesized Rh/CeO ₂ Catalysts by XRD, TEM, XPS and EXAFS
----------------	-------------------------	------	-----------	--------	---------------------	--

Electrochemical and Solid-State Letters

Tsutomu, Shinagawa	7, (2004) G235-G237	6762	2003A0339	BL38B1	伊崎 昌伸	Transparent Ferromagnetic Semiconductor Fe-Zn-O Hetero granular Films
			2003B0223	BL19B2		

The EMBO Journal

Momoyo, Ishikawa	23, (2004) 2745-2754	6663	2002A0062	BL38B1	森川 耿右 土屋 大輔	Structural Basis for Channelling Mechanism of a Fatty Acid -Oxidation Multienzyme Complex
			2004A0505	BL40B2		

Journal of Applied Crystallography

Yanbin, Wang	37, (2004) 947-956	6879	2004A0001	BL04B1	Wang Yanbin	A New Technique for Angle-Dispersive Powder Diffraction using an Energy-Dispersive Setup and Synchrotron Radiation
-----------------	-----------------------	------	-----------	--------	-------------	--

The Journal of Biological Chemistry

Akimasa, Miyanaga	279, (2004) 44907-44914	6875	2003B0877	BL40B2	祥雲 弘文	Crystal Structure of a Family 54 -L-Arabinofuranosidase Reveals a Novel Carbohydrate-binding Module That can Bind Arabinose
----------------------	----------------------------	------	-----------	--------	-------	---

Journal of Chemical Physics

Mikihito, Takenaka	121, (2004) 7501-7504	6767	2004A0075	BL45XU	竹中 幹人	Shear-Induced Phase Separation in "Nonentangled" Oligomer Mixture
-----------------------	--------------------------	------	-----------	--------	-------	---

Journal of Electroanalytical Chemistry

A. K., Shukla	563, (2004) 181-190	6883	2001A0376	BL01B1	Sarode Prabhakar	Carbon-Supported Pt-Fe Alloy as a Methanol-Resistant Oxygen-Reduction Catalyst for Direct Methanol Fuel Cells
------------------	------------------------	------	-----------	--------	---------------------	---

Journal of Mineralogical and Petrological Sciences

Masanori, Matsui	99, (2004) 72-75	6857	2003B0640	BL04B1	桂 智男	The Temperature-Pressure-Volume Equation of State of -Mg ₂ SiO ₄
			2002B0044			

Materials Research Society Symposia Proceedings

主著者	巻、発行年、ページ	研究成果番号	課題番号	ビームライン	実験責任者	タイトル
Katsushi, Tanaka	793, (2004) 305-310	6765	R02B0021	BL46XU	筒井 智嗣 田中 克志	Crystallographic Features of Rhenium Disilicide
			2002B0417	BL02B2		
			2003A0609	BL46XU		

Materials Transactions

Akira, Taniyama	45, (2004) 2326-2331	6870	2002A0658	BL19B2	谷山 明	In-situ Observation of Growth Behavior of Fe-Zn Intermetallic Compounds at Initial Stage of Galvannealing Process
			2002B0578		佐藤 真直	

Nature Structural and Molecular Biology

Meipei, She	11, (2004) 249-256	5910	2003A0092	BL41XU	Song Haiwei	Crystal Structure of Dcp1p and Its Functional Implications in mRNA Decapping
----------------	-----------------------	------	-----------	--------	-------------	--

Physical Review Letters

Akira, Sekiyama	93, (2004) 156402	6780	1999B0076	BL25SU	関山 明	Mutual Experimental and Theoretical Validation of Bulk Photoemission Spectra of Sr _{1-x} Ca _x VO ₃
--------------------	----------------------	------	-----------	--------	------	---

Physics in Medicine and Biology

Marcus J., Kitchen	49, (2004) 4335-4348	6819	2003A0181	BL20B2	Lewis Rob	On the Origin of Speckle in X-ray Phase Contrast Images of Lung Tissue
			2003B0190			

Scripta Materialia

Akira, Taniyama	51, (2004) 53-58	6285	2002A0711	BL19B2	谷山 明	Structure Analysis of Ferrite in Deformed Pearlitic Steel by Means of X-ray Diffraction Method with Synchrotron Radiation
--------------------	---------------------	------	-----------	--------	------	---

Structure

Hiroyoshi, Matsumura	10, (2002) 1721-1730	5216	1999A0197	BL41XU	甲斐 泰	Crystal Structure of C4 Form Maize and Quaternary Complex of E.coli Phosphoenolpyruvate Carboxylases
			2001A0337	BL40B2		
			C00A73G	BL44XU		
			2000A0381	BL41XU		

材料 (Journal of the Society of Materials Science, Japan)

Masashi, Ishii	52, (2003) 1405-1409	4632	2002B0586	BL10XU	石井 真史	Site-Selective X-ray Absorption Measurement of Buried Quantum Dot Interface
-------------------	-------------------------	------	-----------	--------	-------	---

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

Kyoko, Hayashi	32, (2004) 179-187	6785	2002A0649	BL19B2	櫻井 伸一	Crystallization Behavior of Linear Low Density Polyethylene in Its Blend with a Rubber Polymer as Revealed by Synchrotron SAXSWAXS/Hv-SALS Simultaneous Measurements
-------------------	-----------------------	------	-----------	--------	-------	--

・ 課題の成果以外で登録された論文 (原研、理研、加速器等)

Applied Surface Science

主著者	巻、発行年、ページ	研究成果番号		ビームライン	タイトル
Hiromitsu, Tomizawa	235, (2004) 214-220	6845	加速器		Spectrographic Approach for the Diagnosis of rf Breakdown in Accelerator rf Structures

Applied Physics Letters

Yasutaka, Takata	84, (2004) 4310-4312	6013	理研	BL29XU	A Probe of Intrinsic Valence Band Electronic Structure: Hard X-ray Photoemission
---------------------	-------------------------	------	----	--------	--

IEEE Transactions on Applied Superconductivity

Koji, Tsumaki	14, (2004) 433-436	6862	加速器		DC Septum Magnets and Their Leakage Field Effects on an Electron Beam in the SPring-8 Storage Ring
------------------	-----------------------	------	-----	--	--

Infrared Physics and Technology

Yuka, Ikemoto	45, (2004) 369-373	5387	装置技術	BL43IR	Infrared Microspectroscopy Station at BL43IR of SPring-8
------------------	-----------------------	------	------	--------	--

Japanese Journal of Applied Physics

主著者	巻、発行年、ページ	研究成果番号		ビームライン	タイトル
Yoshio, Suzuki	43, (2004) 7311-7314	6810	理論		Resolution Limit of Refractive Lens and Fresnel Lens in X-ray Region

Journal of Physics: Condensed Matter

Yasuo, Narumi	16, (2004) L57-L63	6803	理研	BL19LXU	The Coexistence of Magnetic Phases at the First-Order Phase Transition of a Metamagnet FeCl ₂ · 2H ₂ O Studied by X-ray Diffraction
------------------	-----------------------	------	----	---------	---

Journal of Vacuum Science & Technology A

Hiroshi, Saeki	22, (2004) 2212-2215	6397	加速器		Pressure-Measurement Errors in a Cold-Cathode-Ionization Gauge Caused by an External-Electron Source
-------------------	-------------------------	------	-----	--	--

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

Kyoko, Hanawa- Suetsugu	101, (2004) 9595-9600	6598	理研	BL45XU	Crystal Structure of Elongation Factor P from Thermus Thermophilus HB8
-------------------------------	--------------------------	------	----	--------	--

Surface Science

Akitaka, Yoshigoe	566-568, (2004) 1124-1129	6773	原研	BL23SU	Real-time Monitoring of Oxidation Processes on Si(001) Surface using O ₂ Gas under 1000 K by Synchrotron Radiation Photoemission Spectroscopy
----------------------	------------------------------	------	----	--------	--

Thin Solid Films

Kousuke, Moritani	464-465, (2004) 48-51	6830	原研	BL23SU	Translational Energy Induced Reconstruction and Adsorption in the Oxidation Processes of Cu{111}
----------------------	--------------------------	------	----	--------	--