

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、その内容は以下のURL (SPring-8論文データベース検索ページ) で検索できます。

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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19年8月～9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。

http://www.spring8.or.jp/ja/support/download/publication/user_exp_report/publicfolder_view

今後も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、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。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

Physical Review B

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Hideki Fujisawa	11266	75 (2007) 245423	2006B1567	BL25SU	川合 真紀	Electronic Structure and Magnetism of One-dimensional Fe Monatomic Wires on Au(788) Investigated with ARPES and XMCD
			2004B0523	BL25SU	川合 真紀	
Yasujiro Taguchi	11279	76 (2007) 064508	2006B1761	BL02B2	加藤 健一	Isotope Effect in Li_xZrNCl Superconductors
Akihiko Machida	11358	76 (2007) 052101	2006A3701	BL22XU	町田 晃彦	Long-period Stacking Structures in Yttrium Trihydride at High Pressure
Jude Laverock	11360	76 (2007) 052509	2005A0092	BL08W	Dugdale Stephen	Elliptical Hole Pockets in the Fermi Surfaces of Unhydrated and Hydrated Sodium Cobalt Oxides
			2005B0182	BL08W	Dugdale Stephen	
Benjamin Balke	11381	74 (2006) 104405	2006A1476	BL47XU	Felser Claudia	Properties of the Quaternary Half-metal-type Heusler Alloy $\text{Co}_2\text{Mn}_{1-x}\text{Fe}_x\text{Si}$
Kenji Ohwada	11446	76 (2007) 094113	2002B0277	BL02B1	大和田 謙二	Structural Relations between Two Ground States of NaV_2O_5 under High Pressure: A Synchrotron X-ray Diffraction Study
			2003A2277 原研	BL02B1 BL22XU	大和田 謙二	
Takashi Narushima	11462	76 (2007) 104204	2003B0381	BL04B1	辻 和彦	Pressure Dependence of the Structure of Liquid Sn up to 19.4 GPa

The Journal of Physical Chemistry C

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
Toshihiro Kondo	11376	111 (2007) 13197-13204	2002B0225	BL14B1	魚崎 浩平	Structure of Au(111) and Au(100) Single-Crystal Electrode Surfaces at Various Potentials in Sulfuric Acid Solution Determined by In Situ Surface X-ray Scattering
			2003A0702	BL14B1	魚崎 浩平	
Kenichi Shimizu	11398	111 (2007) 6481-6487	2006A1040	BL01B1	清水 研一	Reaction Mechanism of H ₂ -Promoted Selective Catalytic Reduction of NO with C ₃ H ₈ over Ag-MFI Zeolite
Kenichi Shimizu	11399	111 (2007) 1683-1688	2006A1040	BL01B1	清水 研一	Formation and Redispersion of Silver Clusters in Ag-MFI Zeolite as Investigated by Time-Resolved QXAFS and UV-Vis
Kenichi Shimizu	11400	111 (2007) 950-959	2006A1040	BL01B1	清水 研一	Reductive Activation of O ₂ with H ₂ -Reduced Silver Clusters as a Key Step in the H ₂ -Promoted Selective Catalytic Reduction of NO with C ₃ H ₈ over Ag/Al ₂ O ₃

Cell

Jie-Oh Lee	11464	130 (2007) 906-917	2007A1527	BL41XU	Lee Jie-Oh	Crystal Structure of the TLR4-MD-2 Complex with Bound Endotoxin Antagonist Eritoran
Jie-Oh Lee	11465	130 (2007) 1071-1082	2007A1527	BL41XU	Lee Jie-Oh	Crystal Structure of the TLR1-TLR2 Heterodimer Induced by Binding of a Tri-Acylated Lipopeptide

Journal of Applied Physics

Keiji Itoh	11273	101 (2007) 123528	2006B1116	BL04B2	伊藤 恵司	Short-range Structure of ⁻ V ₂ D: Pair Distribution Function Analysis of X-ray and Neutron Diffraction
Yoshiki Kohmura	11363	102 (2007) 023101	2003A0690	BL20XU	香村 芳樹	Determination of Complex Transmissivity using X-ray in-line Holography and Two-beam Interferometry
			2004A0102	BL20XU	香村 芳樹	

Journal of Electron Spectroscopy and Related Phenomena

Hideki Fujisawa	11267	144-147 (2005) 519-523	2003B0371	BL25SU	川合 真紀	Electronic and Magnetic Structures of Fe on a Vicinal Au(111) Surface
Masahiro Kato	11416	160 (2007) 39-48	2004B0369	BL27SU	森下 雄一郎	Absolute Photoionization Cross Sections with Ultra-high Energy Resolution for Ar, Kr, Xe and N ₂ in Inner-shell Ionization Regions

Journal of Physics D: Applied Physics

Gerhard Fecher	11380	40 (2007) 1576-1581	2006A1476	BL47XU	Felser Claudia	High Energy, High Resolution Photoelectron Spectroscopy of Co ₂ Mn _{1-x} Fe _x Si
Sabine Wurmehl	11382	39 (2006) 803-815	2006A1775	BL22XU	Felser Claudia	Electronic Structure and Spectroscopy of the Quaternary Heusler Alloy Co ₂ Cr _{1-x} Fe _x Al

AIP Conference Proceedings

Shigeru Kimura	11353	879 (2007) 1238-1241	2006A1746	BL40XU	高田 昌樹	X-ray Pinpoint Structural Measurement for Nanomaterials and Devices at BL40XU of the SPring-8
			2005B0930	BL40XU	高田 昌樹	
			2005A0885	BL40XU	高田 昌樹	

American Mineralogist

Shigeaki Ono	11271	92 (2007) 1246-1249	2006A1412	BL10XU	小野 重明	High-Pressure Transition of CaCO ₃
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Analytical Chemistry

Yasuo Izumi	11460	79 (2007) 6933-6940	2003A0146	BL15XU	泉 康雄	X-ray Absorption Fine Structure Combined with X-ray Fluorescence Spectroscopy. Monitoring of Vanadium Site in Mesoporous Titania Excited under Visible Light by Selective Detection of the Vanadium K _{5,2} Fluorescence
			2002B0739	BL15XU	泉 康雄	

Chemical Physics Letters

Koji Yoshida	11375	440 (2007) 210-224	2004B0635	BL35XU	山口 敏男	Collective Dynamics of Sub- and Supercritical Methanol by Inelastic X-ray Scattering
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Chemistry of Materials

主著者	研究成果番号	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
Alexei Belik	11369	14 (2002) 4464-4472	C01B2003	BL15XU	池田 拓史	Positional and Orientational Disorder in a Solid Solution of $\text{Sr}_{9+x}\text{Ni}_{1.5-x}(\text{PO}_4)_7$ ($X=0.3$)

Journal of Applied Crystallography

Hiroyuki Takeno	11388	40 (2007) s656-s611	2005A0698	BL40B2	上原 宏樹	Structural Development of Dynamically Asymmetric Polymer Blends under Uniaxial Stretching
			2005A0699	BL40B2	上原 宏樹	
			2005A0700	BL40B2	上原 宏樹	

Journal of Materials Chemistry

Alexei Belik	11371	12 (2002) 3803-3808	C01B2003	BL15XU	池田 拓史	Strontium Phosphates with $-\text{Ca}_3(\text{PO}_4)_2$ -type Structures: $\text{Sr}_9\text{NiLi}(\text{PO}_4)_7$, $\text{Sr}_{9.04}\text{Ni}_{1.02}\text{Na}_{0.88}(\text{PO}_4)_7$, and $\text{Sr}_{9.08}\text{Ni}_{1.04}\text{K}_{0.76}(\text{PO}_4)_7$
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Journal of Molecular Biology

Kazuko Fujiwara	11372	371 (2007) 222-234	2006A6827	BL44XU	藤原 和子	Crystal Structure of Bovine Lipoyltransferase in Complex with Lipoyl-AMP
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Journal of Physics: Condensed Matter

Yukinobu Kawakita	11411	19 (2007) 335201	2005A0711	BL04B2	武田 信一	Comparison of Partial Structures of Melts of Superionic AgI and CuI and Non-superionic AgCl
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Journal of Solid State Chemistry

Alexei Belik	11370	168 (2002) 237-244	C01B2003	BL15XU	池田 拓史	Whitlockite-related Phosphates $\text{Sr}_9\text{A}(\text{PO}_4)_7$ ($A = \text{Sc}, \text{Cr}, \text{Fe}, \text{Ga}, \text{and In}$): Structure Refinement of $\text{Sr}_9\text{In}(\text{PO}_4)_7$ with Synchrotron X-ray Powder Diffraction Data
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Langmuir

Tomoyuki Koga	11379	23 (2007) 8861-8865	2002B0227	BL13XU	佐々木 園	Phase Transition of Alkylsilane Monolayers Studied by Temperature-Dependent Grazing Incidence X-ray Diffraction
			2003A0606	BL13XU	高原 淳	
			2003B0178	BL13XU	高原 淳	
			2004A0319	BL13XU	高原 淳	
			2004B0257	BL13XU	高原 淳	

Macromolecules

Hiroki Uehara	11383	40 (2007) 5820-5826	2003B0418	BL40B2	村上 昌三	Nano-Periodic Arrangement of Crystal/Amorphous Phases Induced by Tensile Drawing of Highly Entangled Polyethylene Solid
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Materials Letters

Yasuo Izumi	10446	61 (2007) 3833-3836	2004A0122	BL10XU	泉 康雄	X-ray Absorption Fine Structure Combined with X-ray Fluorescence Spectrometry. Part 18. Tin Site Structure of Pt-Sn Catalyst
			2003B0386	BL37XU	泉 康雄	

Metallurgical and Materials Transactions A

Hui Zhang	11387	38A (2007) 1774-1785	2006A1092	BL47XU	杉山 大吾	Three-Dimensional Visualization of the Interaction between Fatigue Crack and Micropores in an Aluminum Alloy Using Synchrotron X-Ray Microtomography
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Mineralogical Magazine

Shigeaki Ono	11270	71 (2007) 105-111	2006A1412	BL10XU	小野 重明	High-pressure Phase Transformation in MnCO_3 : a Synchrotron XRD Study
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Nature Structural and Molecular Biology

Thomas Schwarz-Romond	11254	14 (2007) 484-492	2003A0086	BL41XU	柴田 直樹	The DIX Domain of Dishevelled Confers Wnt Signaling by Dynamic Polymerization
			2004A0646	BL41XU	柴田 直樹	

New Journal of Physics

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
Junichi Yamaguchi	11419	9 (2007) 317	2005A0384	BL25SU	菅 滋正	Reduction of Kondo Lattice Effects in $\text{Yb}_{1-x}\text{Lu}_x\text{Al}_3$ Observed by Soft X-ray Photoelectron Spectroscopy

Organohalogen Compounds

Takashi Fujimori	11454	69 (2007) 319-322	2004B0512 2005A0730	BL28B2 BL28B2	田中 庸裕 高岡 昌輝	Understanding Atacamite as a Copper Catalyst for de novo Synthesis by Heating Experiment
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Philosophical Magazine

Manabu Inukai	11278	87 (2007) 3003-3010	2002B0108 2004A0386	BL25SU BL25SU	曾田 一雄 曾田 一雄	Energy Distribution of Co and Ni 3d States of Decagonal Quasicrystal $\text{Al}_{72}\text{Co}_{16}\text{Ni}_{12}$
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Phosphorus, Sulfur and Silicon and the Related Elements

Alexei Belik	11368	177 (2002) 1899-1902	C01B2003	BL15XU	池田 拓史	Structural Changes and Phase Transitions in Whitlockite-like Phosphates
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Physica Status Solidi (a)

Ryohei Tanuma	11422	204 (2007) 2706-2713	2005B3211	BL24XU	田沼 良平	Three-dimensional Topography using an X-ray Microbeam and Novel Slit Technique
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Proceedings of the Royal Society B Biological Sciences

Hiroyuki Iwamoto	11281	274 (2007) 2297-2305	2006A1413 2007A1191	BL40XU BL40XU	岩本 裕之 岩本 裕之	Flight Muscle Myofibrillogenesis in the Pupal stage of <i>Drosophila</i> as Examined by X-ray Microdiffraction and Conventional Diffraction
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Science

Don Brownlee	10717	314 (2006) 1711-1716	2006A1463	BL47XU	土山 明	Comet 81P/Wild 2 Under a Microscope
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Synchrotron Radiation Instrumentation: Ninth International Conference

Tatsuyuki Sakurai	11282	879 (2007) 1380-1383	2004A0102	BL20XU	後藤 俊治	Evaluation of Defects inside Beryllium Foils using X-ray Computed Tomography and Shearing Interferometry
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高分子論文集 (Japanese Journal of Polymer Science and Technology)

Hiroki Uehara	11384	64 (2007) 525-538	2005A0700 2005A0698 2003B0303	BL40B2 BL40B2 BL40B2	上原 宏樹 上原 宏樹 上原 宏樹	Structural and Property Development for Conventional Polymers Utilizing Molecular Anisotropy and Entanglement Characteristics
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材料 (Journal of the Society of Materials Science, Japan)

Kenji Suzuki	11396	56 (2007) 217-222	2005B3701 2006A3714	BL22XU BL22XU	菖蒲 敬久 菖蒲 敬久	Measurement of Residual Stress Distribution in Laser-Shock Peened Ti using Hard Synchrotron X-Rays
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分析化学 (Bunseki Kagaku)

Mitsuhiro Hirai	10575	55 (2006) 411-418	2004B0082	BL40B2	平井 光博	Thermal Unfolding Process of Proteins Depending on Structural Hierarchy Clarified by Wide-Angle X-ray Scattering at a Third Generation Synchrotron Source
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膜 (Membrane)

Tomohiro Hayakawa	11338	32 (2007) 221-228	2002A0256	BL40B2	平井 光博	Membrane Properties of Dipalmitoyl Bis (monoacylglycero) Phosphate
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博士論文 (東京大学)

Nobuyuki Zen	11359	(2007) 1-131	2006B1763	BL01B1	豊川 秀訓	Study on Operating Point Controlled Superconductive TES Microcalorimeters
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課題以外の成果として登録された論文

AIP Conference Proceedings

主著者	研究成果番号	雑誌情報		ビームライン	タイトル
Yoshinori Nishino	11290	879 (2007) 1376-1379	理研	BL29XU	Evaluation of In-Vacuum Imaging Plate Detector for X-Ray Diffraction Microscopy
Kazuki Ito	11346	879 (2007) 1160-1163	理研 理研	BL44B2 BL45XU	Fiber-Optic Taper Coupled With A Large Format Charge-Coupled Device X-ray Detector: Fast Readout and High Duty-Cycle Ratio
Yujiro Hayashi	11311	879 (2007) 1258-1261	理研	BL19LXU	Time-resolved X-ray Triple-crystal Diffractometry Probing Dynamic Strain in Semiconductors
Hiroshi Yamazaki	11322	879 (2007) 946-949	理研	BL29XU	Present Status of Pin-post Water-cooled Silicon Crystals for Monochromators of SPring-8 X-ray Undulator Beamlines

Physical Review B

Kenji Ishii	11265	76 (2007) 045124	原研	BL11XU	Momentum-dependent Charge Excitations of a Two-leg Ladder: Resonant Inelastic X-ray Scattering of $(\text{La,Sr,Ca})_{14}\text{Cu}_{24}\text{O}_{41}$
Yasutaka Takata	11268	75 (2007) 233404	理研 理研	BL17SU BL19LXU	Recoil Effects of Photoelectrons in a Solid
Tomoyuki Kirimura	11310	73 (2006) 085309	理研	BL19LXU	Photon-stimulated Desorption from Chlorinated Si(111): Etching of SiCl by Picosecond-pulsed Laser Irradiation

Nuclear Instruments and Methods in Physics Research Section A

Masaru Kitamura	11366	507 (2003) 670-679	装置技術	BL15XU	Thermal Analysis of YB_{66} Crystal of BL15XU at SPring-8 by Finite Element Method
Masaru Kitamura	11367	510 (2003) 389-398	装置技術	BL15XU	Quality of the YB_{66} Crystal of BL15XU at SPring-8

Applied Physics Letters

Kosuke Nagashio	11280	91 (2007) 061916	原研	BL11XU	Dynamic Process of Dendrite Fragmentation in Solidification from Undercooled Si Melt using Time-resolved X-ray Diffraction
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Japanese Journal of Applied Physics

Akira Saito	11307	45 (2006) 1913-1916	理研	BL19LXU	Scanning Tunneling Microscopy Combined with Hard X-ray Microbeam of High Brilliance from Synchrotron Radiation Source
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Journal of Applied Crystallography

Hiroshi Takahashi	11345	40 (2007) s312-s317	理研	BL45XU	Structural Characterization of <i>N</i> -Lignoceroyl (C24:0) Sphingomyelin Bilayer Membranes: A Reevaluation
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Journal of Synchrotron Radiation

Masaru Kitamura	11365	10 (2003) 310-312	装置技術	BL15XU	Non-existence of Positive Glitches in Spectra using the YB_{66} Double-crystal Monochromator of BL15XU at SPring-8
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Journal of the Optical Society of America A

Hiroshi Yamazaki	11321	23 (2006) 3171-3176	理研	BL29XU	Reconstruction of Complex-valued Electron Density with X-ray in-line Holograms
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Journal of the Physical Society of Japan

Yoshikazu Tanaka	11325	76 (2007) 043708	理研	BL19LXU	Lattice Deformations Induced by an Applied Magnetic Field in the Frustrated Antiferromagnet HgCr_2O_4
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Macromolecules

Tomoharu Sawayanagi	11347	40 (2007) 2392-2399	理研	BL45XU	Structural Transition of Poly[(<i>R</i>)-3-hydroxybutyrate-co-(<i>R</i>)-3-hydroxyvalerate] Single Crystals on Heating As Revealed by Synchrotron Radiation SAXS and WAXD
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Nature

Hideo Ago	11337	448 (2007) 609-612	理研	BL44B2	Crystal Structure of a Human Membrane Protein Involved in Cysteinyl Leukotriene Biosynthesis
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Surface Science

主著者	研究成果番号	雑誌情報		ビームライン	タイトル
Shin Takahashi	11438	601 (2007) 3809-3812	原研	BL23SU	Vibrationally-assisted Dissociative Adsorption of Oxygen on Ru(0001)-p(2x1)-O

軽金属 (Journal of Japan Institute of Light Metals)

Eiichiro Matsubara	11298	56 (2006) 635-638	理研	BL29XU	Examples of Structural Analyses in Aluminum by Synchrotron and X-ray Diffraction
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平成19年10月30日

共用ビームラインBL46XUの名称変更のお知らせ

独立行政法人理化学研究所
財団法人高輝度光科学研究センター

共用ビームラインBL46XUの名称を以下のように変更しました。

新名称：産業利用（日本語）
Engineering Science Research（英語）

旧名称：R&D（日本語および英語）

以上