

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平成16年6～7月に登録された中から原著論文でその別刷もしくはコピー等を受理したもの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雑誌順）

Acta Crystallographica Section D

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
Min, Yao	60 (2004) 39-45	6297	2001B0641	BL41XU	姚閔	Flash-Cooling of Macromolecular Crystals in Capillary to Overcome Increased Mosaicity
Asako, Yamaguchi	60 (2004) 1149-1151	6317	2003B0603	BL40B2	多田俊治	Crystallization and Preliminary X-ray Diffraction Analysis of a Thermostable Endo-1,5- α -L-Arabinanase from <i>Bacillus thermodenitrificans</i> TS-3
Akimasa, Miyanaga	60 (2004) 1286-1288	6365	2003B0876	BL38B1	祥雲弘文	Expression, Purification, Crystallization and Preliminary X-ray Analysis of α -L-Arabinofuranosidase B from <i>Aspergillus kawachii</i>

The Journal of Biological Chemistry

Toyoyuki, Ose	278 (2003) 41069-41076	6298	2001B0660	BL41XU	姚閔	Reaction Intermediate Structures of 1-Aminocyclopropane-1-Carboxylate Deaminase: Insight into PLP-Dependent-Cyclopropane Ring-Opening Reaction
Takafumi, Itoh	279 (2004) 31804-31812	6473	2003B0846	BL38B1	三上文三	Crystal Structure of Unsaturated Glucuronyl Hydrolase, Responsible for the Degradation of Glycosaminoglycan, from <i>Bacillus</i> sp. GL1 at 1.8 \AA Resolution
Masayuki, Yamasaki	279 (2004) 31863-31872	6481	2003A0448	BL41XU	三上文三	Structure and Function of a Hypothetical <i>Pseudomonas aeruginosa</i> Protein PA1167 Classified into Family PL-7

Physics of the Earth and Planetary Interiors

Joy E., Reid	139 (2003) 45-54	6276	2000A0220	BL04B1	鈴木昭夫	The Viscosity of CaMgSi ₂ O ₆ Liquid at Pressures up to 13 GPa
Tomoo, Katsura	143 (2004) 497-506	6305	2002A0296 2002B0044	BL04B1	桂智男	A Large-Volume High-Pressure and High-Temperature Apparatus for in situ X-ray Observation, 'SPEED-Mk.II'
Satoru, Urakawa	143-144 (2004) 469-479	6360	2000B0349 2001B0323	BL04B1	浦川啓	Phase Relationships and Equations of State for FeS at High Pressures and Temperatures and Implications for the Internal Structure of Mars

Applied Physics Letters

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
Hirotaoka, Ohashi	84 (2004) 520-522	6286	2003A0709	BL02B2	谷垣勝己	Low-Glancing-Angle X-ray Diffraction Study on the Relationship between Crystallinity and Properties of C60 Field Effect Transister
M., Shoji	84 (2004) 3756-3758	6287	2003B0103	BL27SU	服部健雄	X-ray Photoelectron Spectroscopy Study on SiO ₂ /Si Interface Structures Formed by Three Kinds of Atomic Oxygen at 300

Chemical Physics Letters

Norio, Saito	393 (2004) 295-299	6488	2002A0533 2003A0368	BL27SU	小谷野猪之助 齋藤則生	Intra-Molecular H ₂ ⁺ Formation in the Core-Excited HCCH Probed by Multiple-Ion Coincidence Momentum Imaging
Toshio, Ibuki	392 (2004) 303-308	6520	2003A0528	BL27SU	伊吹紀男	Total Photoabsorption Cross-Sections of CF ₃ SF ₅ in the C, F and S K-shell Regions

Japanese Journal of Applied Physics

Isao, Takahashi	42 (2003) 7493-7496	6264	2000B0230	BL09XU	古宮聰	Novel Interface Structures between Ultrathin Oxynitride and Si(001) Studied by X-ray Diffraction
Isao, Takahashi	43 (2004) 1561-1565	6265	2002A0049 2002B0206	BL13XU	高橋功	Metal/Semiconductor Interfaces Studied by Transmitted X-ray Reflectivity

Journal of Electron Spectroscopy and Related Phenomena

Hisashi, Hayashi	136 (2004) 199-204	6281	2002B0476	BL39XU	林久史	Lifetime-Broadening-Suppressed Polarized Cu K X-ray Absorption Near Edge Structure of Nd _{2-x} Ce _x CuO ₄ Measured by Resonant Inelastic X-ray Scattering Spectroscopy
Hisashi, Hayashi	136 (2004) 191-197	6309	2002B0475 R03A0017	BL47XU	林久史	A Multi-Crystal Spectrometer with a Two-Dimensional Position-Sensitive Detector and Contour Maps of Resonant K Emission in Mn Compounds

Journal of Medical Chemistry

Tadashi, Terasaka	47 (2004) 2728-2731	6260	C03A5029	BL24XU	木下誉富	Structure-Based Design and Synthesis of Non-Nucleoside, Potent, and Orally Bioavailable Adenosine Deaminase Inhibitors
Tadashi, Terasaka	47 (2004) 3730-3743	6518	C03B5029	BL24XU	木下誉富	Structure-Based Design, Synthesis, and Structure-Activity Relationship Studies of Novel Non-Nucleoside Adenosine Deaminase Inhibitors

Review of Scientific Instruments

Yoshio, Suzuki	75 (2004) 1026-1029	6318	2002B0176	BL20XU	鈴木芳生	Measurement of X-ray Coherence using Two-beam Interferometer with Prism Optics
Yoshio, Suzuki	75 (2004) 1155-1157	6319	2002B0175	BL40XU	鈴木芳生	X-ray Imaging Microscopy using Fresnel Zone Plate Objective and Quasimonochromatic Undulator Radiation

Structure

Hiroshi, Nishimasu	12 (2004) 949-959	6363	2002B0804	BL40B2	若木高善	The First Crystal Structure of the Novel Class of Fructose-1, 6-Bisphosphatase Present in Thermophilic Archaea
Masafumi, Hidaka	12 (2004) 937-947	6364	2003B0876	BL38B1	祥雲弘文	Chitobiose Phosphorylase from <i>Vibrio proteolyticus</i> , a Member of Glycosyl Transferase Family 36, Has a Clan GH-L-like (/)6 Barrel Fold

Analytical Chemistry

Kenji, Sakurai	74 (2002) 4532-4535	6332	2000B0302 2001A0347	BL40XU BL40XU	桜井健次	Wavelength-Dispersive Total-Reflection X-ray Fluorescence with an Efficient Johansson Spectrometer and an Undulator X-ray Source: Detection of 10-16 g-level Trace Metals
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Applied Clay Science

Masashi, Nakano	23 (2003) 15-23	6288	2000A0096	BL01B1	中野政詩	Local Structural Information of Cs in Smectite Hydrates by Means of an EXAFS Study and Molecular Dynamics Simulations
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Applied Surface Science

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
Hiroo, Tajiri	234 (2004) 403-408	6416	2002B0189	BL13XU	田尻寛男	Surface X-ray Diffraction in Transmission Geometry
			2003A0189			
			2003A0617			
			2002B0705	BL37XU	寺田靖子	

Cellulose

Yoshiaki, Yuguchi	11 (2004) 203-208	6405	2002B0378	BL40B2	湯口宜明	Gelation of Xyloglucan in Water/Alcohol Systems
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Chemical Physics

Michio, Okada	301 (2004) 315-320	6485	2002A0126	BL23SU	笠井俊夫	Tuning of Dissociative-Adsorption Processes on Cu(100) by Controlling the Kinetic Energy of the Impinging O ₂ Molecule
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Chemistry Letters

Wakako, Suzuki	32 (2003) 1106-1107	6325	2001B0043	BL02B2	小林昭子	Structures of a Single-component Palladium Complex with Extended TTF-type Dithiolate Ligands, Bis(tetrathiafulvalenedithiolato)palladium Determined by Powder X-ray Diffraction
			2002A0100			
			2002A0133			

Circulation

James T., Pearson	109 (2004) 2983-2986	6275	2004A0192	BL40XU	Pearson James	In Situ Measurements of Crossbridge Dynamics and Lattice Spacing in Rat Hearts by X-Ray Diffraction Sensitivity to Regional Ischemia
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Contributions to Mineralogy and Petrology

Shigeaki, Ono	147 (2004) 505-509	6425	2003A0202	BL04B1	小野重明	Phase Transition of Zircon at High P-T Conditions
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Journal of Electron Spectroscopy and Related Phenimena

Hiroshi, Maruyama	136 (2004) 135-141	6311	OVERALL	BL29XU		XMCD Study of Electronic States in Rare-Earth Iron Garnet
				BL39XU		

Journal of Geophysical Research

Tomoo, Katsura	109 (2004) B02209	6303	2000A0373	BL04B1	桂智男	Olivine-Wadsleyite Transition in the System (Mg,Fe) ₂ SiO ₄		
			2003B0393					
			2001A0289					
			2001B0188					
			2002A0297					
			1998A0036				松井正典	
			1998A0233					Walter J. Michael
			2000B0404					加藤工

Journal of Physics and Chemistry of Solids

Shigeaki, Ono	65 (2004) 1527-1530	6483	2002A0106	BL10XU	小野重明	High-Pressure Phase Transition of Hematite, Fe ₂ O ₃
			2002B0162			

Journal of Synchrotron Radiation

Seiji, Kawado	11 (2004) 304-308	6404	2003A0129	BL28B2	川戸清爾	Determination of the Three-Dimensional Structure of Dislocations in Silicon by Synchrotron White X-ray Topography Combined with a Topo-Tomographic Technique
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JSME International Journal Series A

Kenji, Suzuki	47 (2004) 318-323	6500	2001B0063	BL02B1	鈴木賢治	Estimation Spalling Stress in Thermal Barrier Coatings Using Hard Synchrotron X-rays
			2002A0116			
			2002B0158	BL19B2		

Langmuir

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
Motonari, Adachi	20 (2004)	6501	2001B0368	BL45XU	足立基齊	Formation Processes of the Integrated Ordered Mesostructure of Silica at Liquid-Liquid Interface using Synchrotron Radiation X-rays
	5965-5968		2002A0289			

Nature

Artem, Oganov	430 (2004) 445-448	6517	2003A0013	BL10XU	巽好幸	Theoretical and Experimental Evidence for a Post-Perovskite Phase of MgSiO ₃ in Earth's D' Layer
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Nuclear Instruments and Methods in Physics Research Section B

Kenji, Sakurai	199 (2003)	6331	2000A0435	BL40XU	桜井健次	Chemical Characterization using Relative Intensity of Manganese K _L and K _M X-ray Fluorescence
	391-395		2000B0302			
			2001A0347			

Physica B

Takashi, Saito	329-333 (2003) 866-867	6324	2001B0594	BL02B2	東正樹	Monoclinic Distortion in the Insulating Phase of PrNiO ₃
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Physical Review Letters

Takahiko, Sasaki	92 (2004)	6261	2003B0114	BL43IR	佐々木孝彦	Imaging Phase Separation Near the Mott Boundary of the Correlated Organic Superconductors (BEDT-TTF) ₂ X
	227001		2003A0075			

Proteins: Structure, Function, and Genetics

Idumi, Ishikawa	54 (2004) 814-816	6296	2002B0385	BL41XU	渡邊信久	Crystal Structure of Human p120 Homologue Protein PH1374 from <i>Pyrococcus horikoshii</i>
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Solid State Communications

Koichi, Miyachi	124 (2002) 189-193	6423	2001B0473	BL14B1	河本洋二	In situ EXAFS Study on GeS ₂ Glass under High-Pressure
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Structural Chemistry

Masaki, Takata	14 (2003) 23-38	6327	2000B0122	BL02B2	高田昌樹	Synchrotron Radiation for Structural Chemistry - Endohedral Natures of Metallofullerenes Found by Synchrotron Radiation Powder Method
			2000A0038			
			2001A0077		坂田誠	
			2001A0387		高田昌樹	
			1999B0087		坂田誠	
1999B0088						

Surface Science

Wataru, Yashiro	550 (2004) 93-105	6258	2001A0154	BL09XU	高橋敏男	New Method to Characterize Mesoscopic Range and Very Small Strain with using Multi-Wave X-ray Diffraction
			2001B0343			
			2002A0317		矢代航	
			2002B0102			
			2000A0285		高橋敏男	
2001A0153						

The Journal of Biochemistry

Masaki, Unno	279 (2004) 21055-21061	6339	2003B0156	BL41XU	海野昌喜	Crystal Structure of the Dioxygen-bound Heme Oxygenase from <i>Corynebacterium diphtheriae</i>
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Thermochimica Acta

M., Kodama	416 (2004) 105-111	6270	2003A0354	BL40B2	高橋浩	Estimation of Interlamellar Water Molecules in Sphingomyelin Bilayer Systems Studied by DSC and X-ray Diffraction
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Thin Solid Films

Takao, Hanabusa	459 (2004) 245-248	6430	2003A0305	BL13XU	英崇夫	Residual Stress and Thermal Stress Observation in Thin Copper Films
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Transaction of the Materials Research Society of Japan

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
Atsushi, Takahara	28 (2003) 85-88	6497	2003A0606	BL13XU	高原淳	Analysis of Aggregation States of Polymer Thin Films Based on Grazing Incidence X-ray Diffraction

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

Kenji, Suzuki	53 (2004) 734-739	6491	2002B0158	BL19B2	鈴木賢治	Oxidization of Thermal Barrier Coatings and Spalling Stress Analyzed with Synchrotron X-Rays
			2003A0161	BL02B1		
			2002A0116			
			2003A0678	BL19B2	尾角英毅	

真空 (Journal of the Vacuum Society of Japan)

Yuji, Takakuwa	47 (2004) 457-461	6390	2003A0602	BL23SU	高桑雄二	Oxidation State during Growth of Very Thin Oxide on Ti(0001) Surface
			2002B0634			
			2002A0167			
			2001B0044			

日本機械学会論文集 A編 (Transactions of the Japan Society of Mechanical Engineers, Series A)

Kenji, Suzuki	70 (2004) 724-739	6340	2001B0063	BL02B1	鈴木賢治	Estimation of Spalling Stress in Thermal Barrier Coating using High Energy X-rays from Synchrotron
			2002A0116			
			2002B0158	BL19B2		

・ 課題の成果以外で登録された論文 (原研、理研、加速器等)

JETP Letters

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
Vadim, Brazhkin	78 (2003) 393-397	6422	原研	BL14B1	Structural Transformations in Liquid, Crystalline, and Glassy B2O3 under High Pressure

Journal of Physics: Condensed Matter

Yoshinori, Katayama	15 (2003) 6085-6103	6419	原研	BL14B1	X-ray Structural Studies on Elemental Liquids under High Pressures
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Nuclear Instruments and Methods in Physics Research A

Toshiya, Inami	467-468 (2001) 1081-1083	6381	原研	BL11XU	An Inelastic X-ray Scattering Spectrometer for Materials Science on BL11XU at SPring-8
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Physica B

Yasuhiro, Matsuda	346-347 (2004) 519-523	6380	原研	BL22XU	Application of a Portable Pulsed Magnet to Synchrotron Radiation Experiments
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Radiation Medicine

Masatsugu, Hirano	22 (2004) 56-59	6447	理研	BL29XU	Imaging of Fine Structure of Bone Sample with High Coherent X-ray Beam and High Spatial Resolution Detector
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The Journal of Biological Chemistry

Tetsuya, Hori	279 (2004) 22615-22623	6370	理研	BL26B2	Structural Basis of Leukotriene B4 12-Hydroxydehydrogenase/15-Oxo-prostaglandin13-Reductase Catalytic Mechanism and a Possible Src Homology 3 Domain Binding Loop
				BL45XU	

The Journal of Comparative Neurology

Daisuke, Sakurai	475 (2004) 70-82	6446	理研	BL40XU	The Role of Pigment Cells in the Brain of Ascidian Larva
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