

## 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

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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23年4月～6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。

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今後も利用者情報には発行月の2ヶ月前の月末締めで、前号掲載分以降に登録された論文情報を掲載していく予定です。なお、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。

### SPring-8 研究成果登録データベースに2011年4月～6月に登録された論文が掲載された主な雑誌と掲載論文数

掲載雑誌	登録論文数	掲載雑誌	登録論文数
Physical Review B	11	Journal of Molecular Biology	3
Applied Physics Letters	9	The Journal of Physical Chemistry C	3
Journal of the American Chemical Society	8	Journal of Synchrotron Radiation	3
Acta Crystallography Section F	5	Journal of the Physical Society of Japan	3
Inorganic Chemistry	5	Key Engineering Materials	3
Japanese Journal of Applied Physics	5	Materials Transactions	3
Nature	5	Physical Chemistry Chemical Physics	3
粉体および粉体冶金	4	材料	3

他全134誌、計 229報

課題の成果として登録された論文

Applied Physics Letters

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
18142	Hiroshi Yamada	92 (2008) 101909	2004A0382	BL02B2	徐 超男	Anisotropic Lattice Behavior in Elasticoluminescent Material SrAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup>
18610	Toshitaka Oka	98 (2011) 103701	2010B3815	BL23SU	岡 壽崇	Electron Paramagnetic Resonance Study of Unpaired Electron Species in Thin Films of Pyrimidine Bases Induced by Nitrogen and Oxygen K-shell Photoabsorption
18770	Siham Ouardi	97 (2010) 252113	2010A4903	BL15XU	Fecher Gerhard	Thermoelectric Properties and Electronic Structure of Substituted Heusler Compounds: NiTi <sub>0.3-x</sub> Sc <sub>x</sub> Zr <sub>0.35</sub> Hf <sub>0.35</sub> Sn
			2009B0017	BL47XU	Felser Claudia	
18771	Siham Ouardi	98 (2011) 211901	2010B4903	BL15XU	Fecher Gerhard	Electronic Structure of Pt Based Topological Heusler Compounds with C1 <sub>b</sub> Structure and "Zero Band Gap"
18890	Takahiro Nagata	97 (2010) 082902	2009A4600	BL15XU	南風盛 将光	Oxygen Migration at Pt/HfO <sub>2</sub> /Pt Interface under Bias Operation
18891	Oliver Bierwagen	98 (2011) 172101	2009B4601	BL15XU	長田 貴弘	Depletion of the In <sub>2</sub> O <sub>3</sub> (001) and (111) Surface Electron Accumulation by an Oxygen Plasma Surface Treatment
			2010A4604	BL15XU	長田 貴弘	
18900	Takahiro Nagata	98 (2011) 232107	2009B4601	BL15XU	長田 貴弘	XPS Study on Sb-/In- Doping Effects on the Fermi Level and Surface Fermi Level Pinning of SnO <sub>2</sub> (101) Thin Films
			2010A4604	BL15XU	長田 貴弘	
18902	Christian Blum	98 (2011) 252501	2010B4903	BL15XU	Fecher Gerhard	Exploring the Details of the Martensite–Austenite Phase Yransition of the Shape Memory Heusler Compound Mn <sub>2</sub> NiGa by Hard X-ray Photoelectron Spectroscopy, Magnetic and Transport Measurements
18992	Baoe Li	98 (2011) 082101	2010B4607	BL15XU	大橋 直樹	Defects in ZnO Transparent Conductors Studied by Capacitance Transients at ZnO/Si Interface
			2010A4602	BL15XU	大橋 直樹	
			2009B4607	BL15XU	大橋 直樹	
			2009A4605	BL15XU	大橋 直樹	
			2009A4605	BL15XU	大橋 直樹	
			2008A4603	BL15XU	大橋 直樹	
			2007B4607	BL15XU	大橋 直樹	

Physical Review B

18622	Alex Bychkov	83 (2011) 144201	2003B0777	BL04B2	Bychkov Eugene	Intermediate- and Short-Range Order in Phosphorus-Selenium Glasses
			2005B0715	BL04B2	Bychkov Eugene	
			2008A1612	BL04B2	Bychkov Eugene	
			2009B1576	BL04B2	Bychkov Eugene	
18744	Naoki Ishimatsu	83 (2011) 180409(R)	2009B1401	BL39XU	湯本 博勝	Paramagnetism with Anomalously Large Magnetic Susceptibility in β (fcc)-cobalt Probed by X-ray Magnetic Circular Dichroism up to 170 GPa
			2009B1487	BL39XU	石松 直樹	
			2009B2129	BL39XU	河村 直己	
18773	Joachim Barth	81 (2010) 064404	2008A4905	BL15XU	Felser Claudia	Itinerant Half-metallic Ferromagnets Co <sub>2</sub> TiZ (Z=Si, Ge, Sn): <i>Ab initio</i> Calculations and Measurement of the Electronic Structure and Transport Properties
18774	Masato Hagihara	82 (2010) 214424	2008A1174	BL02B2	鄭 旭光	Successive Phase Transitions with Multi-k and Non-coplanar Spin Order, Spin Fluctuations and Field-induced Phases in Deformed Pyrochlore Antiferromagnet Co <sub>2</sub> (OH) <sub>3</sub> Br
18775	Yoichi Ishiwata	82 (2010) 115404	2007B1334	BL02B2	鄭 旭光	Unusual Low-temperature Phase in VO <sub>2</sub> Nanoparticles
18777	Yasuhiro Sakamoto	83 (2011) 104420	2008B1804	BL39XU	佐藤 徹哉	Ferromagnetism of Pt Nanoparticles Induced by Surface Chemisorption
18812	Jürgen Winterlik	83 (2011) 174448	2008A4905	BL15XU	Felser Claudia	Electronic, Magnetic, and Structural Properties of the Ferrimagnet Mn <sub>2</sub> CoSn
			2008A0017	BL47XU	Felser Claudia	
			2008A1606	BL25SU	Felser Claudia	
18872	Hirofumi Akamatsu	83 (2011) 214421	2010A1652	BL47XU	藤田 晃司	Antiferromagnetic Superexchange via 3d States of Titanium in EuTiO <sub>3</sub> as Seen from Hybrid Hartree-Fock Density Functional Calculations

## Journal of the American Chemical Society

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
12279	Katsuyoshi Harada	130 (2008) 432-433	2007A6500	BL44XU	山下 栄樹	Evaluation of the Functional Role of the Heme-6-propionate Side Chain in Cytochrome P450cam
18615	Daigo Miyajima	132 (2010) 8530-8531	理研	BL44B2		Columnar Liquid Crystal with a Spontaneous Polarization along the Columnar Axis
			2008B1777	BL02B2	山本 洋平	
			2009A1651	BL02B2	櫻井 庸明	
			2009A1699	BL02B2	山本 洋平	
18629	Naoaki Yabuuchi	133 (2011) 4404-4419	2009B1777	BL02B2	駒場 慎一	Detailed Studies of a High-Capacity Electrode Material for Rechargeable Batteries, $\text{Li}_2\text{MnO}_3\text{-LiCo}_{1/3}\text{Ni}_{1/3}\text{Mn}_{1/3}\text{O}_2$
18741	Tsuneaki Sakurai	133 (2011) 6537-6540	理研	BL44B2		Electron- or Hole-Transporting Nature Selected by Side-Chain-Directed $\pi$ -Stacking Geometry: Liquid Crystalline Fused Metalloporphyrin Dimers
			2009A1651	BL02B2	櫻井 庸明	
18938	Alexei Belik	133 (2011) 9405-9412	2009A1136	BL02B2	Belik Alexei	Perovskite, $\text{LiNbO}_3$ , Corundum, and Hexagonal Polymorphs of $(\text{In}_{1-x}\text{M}_x)\text{MO}_3$
			2010A1215	BL02B2	Belik Alexei	
			2009B1172	BL04B2	遊佐 齊	
19000	Soichiro Motoyama	133 (2011) 5640-5643	2009B1772	BL13XU	牧浦 理恵	Highly Crystalline Nanofilm by Layering of Porphyrin Metal-Organic Framework Sheets
			2010A1188	BL13XU	牧浦 理恵	

## Acta Crystallographica Section F

17801	Len Ito	64 (2008) 531-532	2004A0707	BL38B1	山口 宏	Crystallization and Preliminary X-ray Structural Studies of Human Prouroguanylin
18635	Nobuo Okazaki	67 (2011) 494-497	2009B1314	BL38B1	玉田 太郎	Crystallization and Preliminary X-ray Diffraction Studies of the Catalytic Domain of a Novel Chitinase, a Member of GH Family 23, from the Moderately Thermophilic Bacterium <i>Ralstonia</i> sp. A-471
18643	Tsutomu Nakamura	63 (2007) 7-11	C05A7201	BL44XU	石川 一彦	Structure of the Catalytic Domain of the Hyperthermophilic Chitinase from <i>Pyrococcus furiosus</i>
18644	Tsutomu Nakamura	61 (2005) 476-478	2004B0831	BL38B1	安宅 光雄	Crystallization and Preliminary X-ray Diffraction Analysis of a Chitin-binding Domain of Hyperthermophilic Chitinase from <i>Pyrococcus furiosus</i>
18778	Tetsuya Masuda	67 (2011) 652-658	2009A1096	BL38B1	梶田 哲哉	High-resolution Structure of the Recombinant Sweet-tasting Protein Thaumatin I
			2009B1379	BL26B1	梶田 哲哉	

## Inorganic Chemistry

12205	Takuya Kurahashi	47 (2008) 1674-1686	2007A1090	BL01B1	倉橋 拓也	Transient Intermediates from Mn(salen) with Sterically Hindered Mesityl Groups: Interconversion between $\text{Mn}^{\text{IV}}$ -Phenolate and $\text{Mn}^{\text{III}}$ -Phenoxy Radicals as an Origin for Unique Reactivity
18672	Dmitriy Rusakov	50 (2011) 3559-3566	2009A1136	BL02B2	Belik Alexei	Structural Evolution and Properties of Solid Solutions of Hexagonal $\text{InMnO}_3$ and $\text{InGaO}_3$
			2010A1215	BL02B2	Belik Alexei	
18743	Minoru Mitsumi	50 (2011) 4368-4377	2010B1503	BL02B1	満身 稔	On the Nature of the Multiple Ground States of the MMX Mixed-Valence Chain Compound, $[\text{Pt}^{\text{II/III}}_2(n\text{-PenCS}_2)_4]_{\infty}$
18886	Yoshiyuki Inaguma	50 (2011) 5389-5395	2010A1669	BL02B2	森 大輔	An Approach to Control of Band Gap Energy and Photoluminescence upon Band Gap Excitation in $\text{Pr}^{3+}$ -Doped Perovskites $\text{La}_{1/3}\text{MO}_3$ (M=Nb, Ta): $\text{Pr}^{3+}$
19072	Akihisa Aimi	50 (2011) 6392-6398	2010A1669	BL02B2	森 大輔	High-Pressure Synthesis and Correlation between Structure, Magnetic, and Dielectric Properties in $\text{LiNbO}_3$ -Type $\text{MnMO}_3$ (M = Ti, Sn)

Japanese Journal of Applied Physics

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
18693	Masamitsu Takahashi	50 (2011) 04DH06	2009B3503	BL11XU	高橋 正光	Structural Changes Caused by Quenching of InAs/GaAs(001) Quantum Dots
			2010A3503	BL11XU	高橋 正光	
18762	Kuniaki Arai	50 (2011) 053001	2007A2118	BL25SU	木下 豊彦	Dynamics of Magnetostatically Coupled Vortices Observed by Time-Resolved Photoemission Electron Microscopy
			2007B1739	BL25SU	大谷 義近	
			2008A1987	BL25SU	木下 豊彦	
			2008B1635	BL25SU	木下 豊彦	
			2009A1755	BL25SU	奥田 太一	
			2009B1736	BL25SU	奥田 太一	
2010A1642	BL25SU	奥田 太一				
18769	Naohisa Happo	50 (2011) 05FC11	2009B1168	BL39XU	八方 直久	Local Structure around Mn Atoms in IV-VI Ferromagnetic Semiconductor Ge <sub>0.6</sub> Mn <sub>0.4</sub> Te Investigated by X-ray Fluorescence Holography
18956	Kojiro Mimura	50 (2011) 05FD03	2009A4800	BL15XU	小林 啓介	Temperature-Induced Valence Transition of EuPd <sub>2</sub> Si <sub>2</sub> Studied by Hard X-ray Photoelectron Spectroscopy
19068	Osamu Nakatsuka	50 (2011) 05ED03	2010A1683	BL13XU	中塚 理	Characterization of Local Strain around Through-Silicon Via Interconnects by using X-ray Microdiffraction

The Journal of Biological Chemistry

18715	Yuichi Nishitani	285 (2010) 39339-39347	2008A1511	BL41XU	三木 邦夫	Structure-based Catalytic Optimization of a Type III Rubisco from a Hyperthermophile
			2008A1973	BL41XU	三木 邦夫	
			2008A2001	BL41XU	三木 邦夫	
			2008A2048	BL41XU	山本 雅貴	
			2009A1012	BL41XU	山本 雅貴	
			2009A1013	BL41XU	山本 雅貴	
18726	Koji Nishi	286 (2011) 14427-14434	2008A6837	BL44XU	山縣 ゆり子	Structural Insights into Differences in Drug-binding Selectivity between Two Forms of Human $\alpha_1$ -Acid Glycoprotein Genetic Variants, the A and F1*S Forms
18781	Kengo Kitadokoro	286 (2011) 19549-19555	2010A6515	BL44XU	北所 健悟	Crystal Structure of <i>Clostridium perfringens</i> Enterotoxin Displays Features of $\beta$ -Pore-forming Toxins
			2010B6515	BL44XU	北所 健悟	
			2009A6917	BL44XU	北所 健悟	
			2009B6917	BL44XU	北所 健悟	
18867	Yusuke Nakamichi	286 (2011) 6262-6271	2010A1279	BL38B1	橋本 渉	Structural Determinants in Streptococcal Unsaturated Glucuronyl Hydrolase for Recognition of Glycosaminoglycan Sulfate Groups
			2009B1201	BL38B1	伊藤 貴文	
18868	Akihito Ochiai	285 (2010) 24519-24528	2009B1177	BL38B1	橋本 渉	Crystal Structure of Exotype Alginate Lyase Atu3025 from <i>Agrobacterium tumefaciens</i>
			2009A1179	BL38B1	橋本 渉	

Nature

18052	Takuhiro Ito	467 (2010) 612-616	2009A1238	BL41XU	伊藤 拓宏	Two Enzymes Bound to One Transfer RNA Assume Alternative Conformations for Consecutive Reactions
			2009B1393	BL41XU	伊藤 拓宏	
18265	Shangyu Dang	467 (2010) 734-738	2008A0019	BL41XU	Yan Nieng	Structure of a Fucose Transporter in an Outward-open Conformation
18873	Feiran Lu	472 (2011) 243-246	2008A0019	BL41XU	Yan Nieng	Structure and Mechanism of the Uracil Transporter UraA
19012	Yasufumi Umena	473 (2011) 55-60	2009A1295	BL41XU	沈 建仁	Crystal Structure of Oxygen-Evolving Photosystem II at a Resolution of 1.9 Å
			2009B1971	BL41XU	沈 建仁	
			2010A1139	BL41XU	沈 建仁	
			2010B1249	BL41XU	沈 建仁	
			2010B1158	BL38B1	川上 恵典	
			2009A6916	BL44XU	神谷 信夫	
			2009B6916	BL44XU	神谷 信夫	
			2010A6916	BL44XU	神谷 信夫	
19049	Tomoya Tsukazaki	474 (2011) 235-238	2010A1053	BL41XU	塚崎 智也	Structure and Function of a Membrane Component SecDF that Enhances Protein Export
			2010B1305	BL41XU	塚崎 智也	
			2009A1084	BL41XU	石谷 隆一郎	
			2009B1087	BL41XU	石谷 隆一郎	

## 粉体および粉末冶金 (Journal of the Japan Society of Powder and Powder Metallurgy)

研究成果番号	著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
16878	Yasushi Idemoto	57 (2010) 191-197	2008B2060	BL19B2	伊藤 孝憲	Crystal and Electronic Structures of $\text{Bi}_4(\text{Ti,Si})_3\text{O}_{12}$ Ferroelectrics
18842	Atsushi Nakahira	57 (2010) 542-545	2009A1287	BL01B1	中平 敦	Sintering and Evaluation of $\text{ZrO}_2$ Prepared by Spark Plasma Sintering Method
18844	Atsushi Nakahira	57 (2010) 533-536	2009B1311	BL01B1	中平 敦	Preparation and Evaluation of Hydroxyapatite with Addition of Amorphous $\text{SiO}_2$
18845	Mitsutaka Sato	57 (2010) 529-532	2009B1311	BL01B1	中平 敦	Synthesis of Fe Doped Hydroxyapatite by Aqueous Solution Process

## Journal of Molecular Biology

18640	Tutomu Nakamura	381 (2008) 670-680	2004B0831	BL38B1	安宅 光雄	Tertiary Structure and Carbohydrate Recognition by the Chitin-Binding Domain of a Hyperthermophilic Chitinase from <i>Pyrococcus furiosus</i>
			C05A7201	BL44XU	石川 一彦	
18776	Shigeki Matsumiya	408 (2011) 1001	2005B5689	BL32B2	松宮 茂樹	Corrigendum to "Structural Comparison of Fucosylated and Nonfucosylated Fc Fragments of Human Immunoglobulin G1" [ <i>J. Mol. Biol.</i> 386/3 (2007) 767-779]
18865	Yukie Maruyama	407 (2011) 180-192	2009B1192	BL38B1	丸山 如江	Heterosubunit Composition and Crystal Structures of a Novel Bacterial M16B Metallopeptidase
			2009A1329	BL38B1	丸山 如江	

## The Journal of Physical Chemistry C

12967	Haruya Okimoto	112 (2008) 6103-6109	2006B1565	BL25SU	篠原 久典	Element-Specific Magnetic Properties of Di-Erbium $\text{Er}_2@C_{82}$ and $\text{Er}_2C_2@C_{82}$ Metallofullerenes: A Synchrotron Soft X-ray Magnetic Circular Dichroism Study
			2007A2012	BL25SU	篠原 久典	
16228	Kazuhiko Maeda	111 (2007) 7554-7560	2004B0075	BL01B1	堂免 一成	Roles of $\text{Rh/Cr}_2\text{O}_3$ (Core/Shell) Nanoparticles Photodeposited on Visible-Light-Responsive $(\text{Ga}_{1-x}\text{Zn}_x)(\text{N}_{1-x}\text{O}_x)$ Solid Solutions in Photocatalytic Overall Water Splitting
18155	Takashi Kamegawa	111 (2007) 1076-1078	2006A1394	BL01B1	松岡 雅也	Eliminating Traces of Carbon Monoxide Photocatalytically from Hydrogen with a Single-Site, Non-noble Metal Catalyst

## Journal of Synchrotron Radiation

18901	Tatsuhito Matsuo	18 (2011) 601-604	2008A2055	BL40XU	八木 直人	Measurement of Persistence in $\text{YAG:Ce}^{3+}$ Scintillator with Pulsed Synchrotron X-rays
			2009B1997	BL40XU	八木 直人	
			2010A1790	BL40XU	八木 直人	
			2010A1951	BL40XU	八木 直人	
18920	Masato Hoshino	18 (2011) 569-574	2010A1385	BL20B2	星野 真人	Development of an X-ray Real-time Stereo Imaging Technique using Synchrotron Radiation
18999	Hiroyuki Iwamoto	18 (2011) 564-568	2010A1417	BL40XU	岩本 裕之	Hard X-ray Fourier Transform Holography from an Array of Oriented Referenced Objects
			2010A1952	BL40XU	岩本 裕之	

## Journal of the Physical Society of Japan

18832	Taka-hisa Arima	80 (2011) 052001	2006A1335	BL02B1	有馬 孝尚	Spin-Driven Ferroelectricity and Magneto-Electric Effects in Frustrated Magnetic Systems
			2005B3704	BL22XU	有馬 孝尚	
			2007A1318	BL46XU	有馬 孝尚	
19001	Masaichiro Mizumaki	80 (2011) 074603	2006A1203	BL01B1	水牧 仁一郎	Rare Earth dependent of Einstein Temperature in Filled Skutterdite Compounds $\text{REFe}_4\text{P}_{12}$ (RE = La, Ce, Pr, Nd, and Sm)
19002	Ken Matsumoto	80 (2011) 023709	2009A1302	BL39XU	圓山 裕	Noncollinear Spin Structure in Fe-Ni Invar Alloy Probed by Magnetic EXAFS at High Pressure
			2009B1495	BL39XU	圓山 裕	

**Key Engineering Materials**

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
18641	Hiroyuki Nishino	459 (2011) 11-14	2004A3890	BL08W	小泉 昭久	Magnetic Compton Profile Measurement of Thin Films
			2004B4890	BL08W	小泉 昭久	
			2006A0097	BL08W	桜井 浩	
18881	Shigeru Kimura	470 (2011) 104-109	2007B1005	BL13XU	財満 鎮明	Nanometer-scale Characterization Technique for Si Nanoelectric Materials using Synchrotron Radiation Microdiffraction
			2008A1005	BL13XU	財満 鎮明	
			2008B1005	BL13XU	島川 祐一	
			2009A1003	BL13XU	島川 祐一	
			2009B1942	BL13XU	今井 康彦	
2009B2118	BL13XU	今井 康彦				
18927	Yuji Sano	345-346 (2007) 1589-1592	2004B0915	BL19B2	佐野 雄二	Enhancement of Surface Property by Low-energy Laser Peening without Protective Coating

**Materials Transactions**

18627	Kazutaka Ikeda	52 (2011) 598-601	2007B1764	BL02B2	池田 一貴	Structural and Hydrogen Desorption Properties of Aluminum Hydride
18685	Hiroyuki Saitoh	52 (2011) 602-604	2010A3603	BL14B1	齋藤 寛之	Hydrogenation of Al <sub>3</sub> Ti at High Pressure and High Temperature
			2010B3603	BL14B1	齋藤 寛之	
18686	Hiroyuki Saitoh	52 (2011) 595-597	2009A3601	BL14B1	齋藤 寛之	<i>In Situ</i> X-ray Diffraction Measurements of Aluminum Pulverization prior to the Hydrogenation Reaction
			2009A3602	BL14B1	齋藤 寛之	

**Physical Chemistry Chemical Physics**

18598	Yu Horiuchi	13 (2011) 6309-6314	2009B1127	BL01B1	森 浩亮	Design of Superhydrophobic Surfaces by Synthesis of Carbon Nanotubes over Co-Mo Nanocatalysts Deposited under Microwave Irradiation on Ti-containing Mesoporous Silica Thin Films
18676	Nobuya Hiroshiba	13 (2011) 6280-6285	2009B4602	BL15XU	早川 竜馬	Energy-Level Alignments and Photo-Induced Carrier Processes at the Heteromolecular Interface of Quaterylene and <i>N,N'</i> -dioctyl-3,4,9,10- perylene-dicarboximide
18708	Shun Nishimura	13 (2011) 9335-9343	2010A1598	BL01B1	西村 俊	Role of Base in the Formation of Silver Nanoparticles Synthesized Using Sodium Acrylate as a Dual Reducing and Encapsulating Agent

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

18931	Kiyotaka Masaki	56 (2007) 1133-1138	2005B0886	BL19B2	佐野 雄二	Retardation of Fatigue Crack Growth on AC4CH Cast Aluminum Alloy by Laser Peening
18932	Yuji Sano	57 (2008) 395-400	2005B0886	BL19B2	佐野 雄二	Imaging of Fatigue Cracks in Aluminum Alloy by Micro Computed Tomography with Synchrotron Radiation
18935	Kiyotaka Masaki	58 (2009) 975-981	2006B0187	BL19B2	佐野 雄二	Investigation of Propagation and Interference Behavior of Surface Fatigue Cracks under Rotating Bending Fatigue by $\mu$ CT Technique with Synchrotron Radiation

**Acta Crystallographica Section D**

18674	Yuri Sogabe	67 (2011) 415-422	2006A1102	BL38B1	多田 俊治	High-resolution Structure of Exo-arabinanase from <i>Penicillium chrysogenum</i>
			2006B1742	BL41XU	多田 俊治	
			2008A2043	BL38B1	多田 俊治	
18675	Tetsuko Nakaniwa	59 (2003) 341-342	2001B0316	BL41XU	多田 俊治	Crystallization and Preliminary X-Ray Analysis of a Thermostable Pectate Lase PL 47 from <i>Bacillus</i> sp. TS 47

**AIP Conference Proceedings**

10447	Momoko Takemura	879 (2007) 1573-1576	C03B4012	BL16B2	竹村 モモ子	Characterization of Amorphous High-k Thin Films by EXAFS and GIXS
			C04A4060	BL16B2	竹村 モモ子	
			2004B0493	BL46XU	竹村 モモ子	
18882	Yasuhiko Imai	1221 (2010) 30-32	2008B1005	BL13XU	島川 祐一	High-Angular-Resolution Microbeam X-Ray Diffraction with CCD Detector
			2009A1003	BL13XU	島川 祐一	
			2009A1524	BL13XU	酒井 朗	

**American Mineralogist**

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
16110	Tatsuya Sakamaki	95 (2010) 144-147	2007A3709	BL22XU	浦川 啓	Density of Dry Peridotite Magma at High Pressure using an X-ray Absorption Method
			2007B3707	BL22XU	浦川 啓	
18854	Tatsuya Sakamaki	96 (2011) 553-557	2008A3722	BL22XU	大谷 栄治	Density of Carbonated Magma at High Pressure Using an X-ray Absorption Method
			2008B3726	BL22XU	大谷 栄治	

**Applied Physics Express**

18759	Tetsuya Nakamura	4 (2011) 066602	2009B1410	BL25SU	中村 哲也	Soft X-ray Magnetic Circular Dichroism of a CoFe/MnIr Exchange Bias Film under Pulsed High Magnetic Field
			2010A1345	BL25SU	中村 哲也	
			2010A1500	BL25SU	鳴海 康雄	
			2010B1421	BL25SU	中村 哲也	
19114	Nagatoshi Nishiwaki	2 (2009) 051002	2009B4603	BL15XU	下田 正彦	Green Chemical Catalyst Supported on S-Terminated GaN(0001)

**Biochemical and Biophysical Research Communications**

18187	Taro Masuda	400 (2010) 94-99	2010A1234	BL38B1	増田 太郎	The Universal Mechanism for Iron Translocation to the Ferroxidase Site in Ferritin, which is Mediated by the Well Conserved Transit Site
18866	Yukie Maruyama	405 (2011) 411-416	2010A1279	BL38B1	橋本 渉	Crystal Structure of Bacterial Cell-surface Alginate-binding Protein with an M75 Peptidase Motif

**Biochemistry**

11551	Shigenori Kanaya	46 (2007) 7460-7468	2005B6709	BL44XU	金谷 茂則	Structural, Thermodynamic, and Mutational Analyses of a Psychrotrophic RNase HI
18903	Takashi Saitoh	50 (2011) 5487-5496	2007A1469	BL38B1	神田 大輔	Crystallographic Snapshots of Tom20-Mitochondrial Presequence Interactions with Disulfide-Stabilized Peptides

**Biochimica et Biophysica Acta - Bioenergetics**

19010	Kenji Takasaka	1797 (2010) 278-284	2009A1295	BL41XU	沈 建仁	Structural and Functional Studies on Ycf12 (Psb30) and PsbZ-deletion Mutants from a Thermophilic Cyanobacterium
			2009B1971	BL41XU	沈 建仁	
			2010A1139	BL41XU	沈 建仁	
			2009B6916	BL44XU	神谷 信夫	
19011	Keisuke Kawakami	1807 (2011) 319-325	2009B1971	BL41XU	沈 建仁	Roles of Psbl and Psbm in Photosystem II Dimer Formation and Stability Studied by Deletion Mutagenesis and X-ray Crystallography
			2010A1139	BL41XU	沈 建仁	
			2010B1249	BL41XU	沈 建仁	
			2010A6916	BL44XU	神谷 信夫	
			2010B6916	BL44XU	神谷 信夫	

**Chemical Communications**

18740	Wei Ma	47 (2011) 5813-5815	2010A1454	BL02B2	高原 淳	Poly(methyl methacrylate) Grafted Imogolite Nanotubes Prepared through Surface-initiated ARGET ATRP
18767	Hideto Imai	47 (2011) 3538-3540	2008A1152	BL40XU	今井 英人	Growth Limits in Platinum Oxides Formed on Pt-skin Layers on Pt-Co Bimetallic Nanoparticles
			2008B1125	BL40XU	今井 英人	
			2009A1219	BL40XU	今井 英人	
			2009A5391	BL16B2	今井 英人	
			2009B5390	BL16B2	今井 英人	

**Chemistry of Materials**

18772	Changhai Wang	22 (2010) 6575-6582	2009A4131	BL12B2	Fecher Gerhard	Probing the Size Effect of Co <sub>2</sub> FeGa-SiO <sub>2</sub> @C Nanocomposite Particles Prepared by a Chemical Approach
			2009B4128	BL12B2	Felser Claudia	
18939	Yoshihiro Tsujimoto	22 (2010) 4625-4631	2007B1656	BL02B2	辻本 吉廣	Two-Dimensional S = 1 Quantum Antiferromagnet (NiCl)Sr <sub>2</sub> Ta <sub>3</sub> O <sub>10</sub>

### Dalton Transactions

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
18628	Naoaki Yabuuchi	40 (2011) 1846-1848	2009B1777	BL02B2	駒場 慎一	Low-Temperature Phase of $\text{Li}_2\text{FeSiO}_4$ : Crystal Structure and a Preliminary Study of Electrochemical Behavior
18742	Miho Yamauchi	40 (2011) 4842-4845	理研	BL44B2		Production of an Ordered (B2) CuPd Nanoalloy by Low-Temperature Annealing under Hydrogen Atmosphere
			2009A1748	BL02B2	山内 美穂	

### e-Journal of Surface Science and Nanotechnology

18623	Michio Ishikawa	9 (2011) 40-45	2009B1212	BL43IR	池本 夕佳	Application of a Modulating Technique to Detect Near-Field Signals Using a Conventional IR Spectrometer with a Ceramic Light Source
			2009A1266	BL43IR	池本 夕佳	
18624	Yuka Ikemoto	9 (2011) 63-66	2010B1310	BL43IR	池本 夕佳	Near-Field Spectroscopy with Infrared Synchrotron
			2010A1199	BL43IR	池本 夕佳	Radiation Source

### Earth and Planetary Science Letters

18333	Tatsuya Sakamaki	299 (2010) 285-289	2009B3784	BL22XU	大谷 栄治	Density of High-Ti Basalt Magma at High Pressure and Origin of Heterogeneities in the Lunar Mantle
18724	Hidenori Terasaki	304 (2011) 559-564	2008B1582	BL10XU	大谷 栄治	Liquidus and Solidus Temperatures of a Fe-O-S Alloy up to the Pressures of the Outer Core: Implication for the Thermal Structure of the Earth's Core
			2009A1570	BL10XU	大谷 栄治	
			2009B0028	BL10XU	大谷 栄治	

### ECS Transactions

18819	Heiji Watanabe	35 (2011) 265-274	2010A3876	BL23SU	渡部 平司	Impact of Stacked $\text{AlON/SiO}_2$ Gate Dielectrics for SiC Power Devices
19096	Arata Komatsu	33 (2010) 467-472	2009B0026	BL46XU	宮崎 誠一	Study of $\text{HfO}_2/\text{Si}/\text{Strained-Ge}/\text{SiGe}$ Using Angle Resolved X-ray Photoelectron Spectroscopy
			2010A0026	BL46XU	宮崎 誠一	

### The European Physical Journal - Special Topics

18814	Masanori Inui	196 (2011) 167-174	2009B1286	BL35XU	乾 雅祝	Inelastic X-ray Scattering Measurements of Dynamical Cross-over in Liquid $\text{As}_2\text{Se}_3$ at High Temperature and High Pressure
18815	Shinya Hosokawa	196 (2011) 85-93	2008A1064	BL35XU	細川 伸也	Transverse Excitations in Liquid Ga

### The Journal of Chemical Physics

18654	Mohammad Alam	134 (2011) 145102	2009B1222	BL40B2	岡 俊彦	Kinetics of Low pH-Induced Lamellar to Miccontinuous Cubic Phase Transition in Dioleoylphosphatidylserine/monoolein
			2010A1198	BL40B2	岡 俊彦	
18761	Yusuke Tamenori	134 (2011) 204302	2006B1107	BL27SU	為則 雄祐	Photodissociation Investigation of Doubly Charged Ethanol Clusters Induced by Inner-shell Electron Ionization
			2009A1143	BL27SU	為則 雄祐	

### Journal of Crystal Growth

18625	Fumio Kawamura	321 (2011) 100-105	2010A1861	BL14B2	武田 隆史	Synthesis of High-Crystallinity Cubic-GaN Nanoparticles Using the Na Flux Method—A Proposed New Usage for a Belt-Type High-Pressure Apparatus
18780	Takuo Sasaki	323 (2011) 13-16	2009A3573	BL11XU	山口 真史	Growth Temperature Dependence of Strain Relaxation during $\text{InGaAs}/\text{GaAs}(001)$ Heteroepitaxy
			2009B3571	BL11XU	山口 真史	

### Journal of Physics B: Atomic, Molecular and Optical Physics

18679	James Harries	44 (2011) 095101	2007B1396	BL27SU	Harries James	Long-lived, Highly-excited Neutral Hydrogen Atom Production Following Oxygen 1s Photo-Excitation of Gas-Phase Water Molecules
			2007B1397	BL27SU	Harries James	
			2008A1350	BL27SU	Harries James	
18751	Kohjiro Kobatashi	44 (2011) 115102	2009A1047	BL08W	桜井 浩	Accurate Compton Scattering Measurements for $\text{N}_2$ Molecules



**Journal of Physics: Conference Series**

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
17867	Yoshihiko Kobayashi	200 (2010) 012090	2007A1381	BL46XU	小林 義彦	Extraordinary Hall Effect in Ba <sub>1-x</sub> Sr <sub>x</sub> RuO <sub>3</sub>
18732	Katsuhiro Yamamoto	272 (2011) 012015	2009B1103	BL03XU	山本 勝宏	Solvent Annealing Induced Perpendicular Orientation of Cylindrical Microdomains in Polystyrene-b-poly(4-hydroxyl styrene)/PEG Oligomer Blend Thin Film Made by Spin-coating from Selective Solvent
			2010A1180	BL40B2	山本 勝宏	
			2010A7225	BL40B2	宮崎 司	

**Journal of Structural Biology**

18716	Kazuki Takeda	174 (2011) 92-99	2006A1716	BL38B1	三木 邦夫	Dimer Structure and Conformational Variability in the N-terminal Region of an Archaeal Small Heat Shock Protein, StHsp14.0
			2006B1664	BL38B1	三木 邦夫	
			2010A1290	BL41XU	竹田 一旗	
			2010B1204	BL41XU	竹田 一旗	
18717	Akito Kawai	174 (2011) 443-450	2008B6831	BL44XU	宮本 秀一	A Novel Heterotetrameric Structure of the Crenarchaeal PCNA2-PCNA3 Complex

**Journal of the Ceramic Society of Japan**

18621	Yoshinori Kobayashi	119 (2011) 285-290	2008A1762	BL14B2	小林 義徳	Cation Distribution Analysis of Sr-La-Co M-type Ferrites by Neutron Diffraction, Extended X-ray Absorption Fine Structure and X-ray Magnetic Circular Dichroism
18664	Toru Wakihara	119 (2011) 255-260	2009B1113	BL04B2	脇原 徹	Synthesis and Characterization of Si-based Materials: Zeolites and SiAlONs

**Langmuir**

18792	Yan Cheng	27 (2011) 6905-6909	2008A1110	BL02B2	金子 克美	Tuning of Gate Opening of an Elastic Layered Structure MOF in CO <sub>2</sub> Sorption with a Trace of Alcohol Molecules
19031	Naoya Nishi	27 (2011) 7531-7536	2009B1396	BL37XU	垣内 隆	Temperature Dependence of Multilayering at the Free Surface of Ionic Liquids Probed by X-ray Reflectivity Measurements
			2010A1238	BL37XU	垣内 隆	

**Physics and Chemistry of Minerals**

18705	Yasuhiro Kuwayama	(2011) Online Publish	2005A5013	BL10XU	巽 好幸	Pressure-induced Structural Evolution of Pyrite-type SiO <sub>2</sub>
			2006A0099	BL10XU	廣瀬 敬	
			2006B0099	BL10XU	廣瀬 敬	
18839	Shuangmeng Zhai	38 (2011) 357-361	2010A1314	BL04B1	Zhai Shuangmeng	Compressibility of Strontium Orthophosphate Sr <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> at High Pressure

**Polymer Journal**

17140	Kiyoka Okada	42 (2010) 464-473	2006A1304	BL40B2	彦坂 正道	Elongational Crystallization of Isotactic Polypropylene Forms Nano-oriented Crystals with Ultra-high Performance
			2006B1185	BL40B2	彦坂 正道	
			2007A1567	BL40B2	彦坂 正道	
			2007B1173	BL40B2	彦坂 正道	
			2008B1611	BL40B2	彦坂 正道	
			2009A1331	BL40B2	彦坂 正道	
			2009B1385	BL40B2	彦坂 正道	
17998	YoungAh Kang	42 (2010) 657-662	2007B1226	BL40B2	大越 豊	Development of a Fiber Structure in Poly(vinylidene Fluoride) by a CO <sub>2</sub> Laser-Heated Drawing Process

**Procedia Engineering**

18918	Daiki Shiozawa	2 (2010) 1413-1419	2008B1922	BL19B2	中井 善一	Observation of Crack Propagation under Torsion Fatigue Tests by Synchrotron $\mu$ CT Imaging
			2009A1895	BL19B2	中井 善一	
18930	Shigeru Suzuki	10 (2011) 88-93	2009A1765	BL19B2	鈴木 茂	Characteristic Microstructure of Polycrystalline Fe-Mn-C Alloys Deformed by Tensile Test

### Scripta Materialia

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
17660	Hidenori Terasaki	64 (2011) 29-32	2009B2086	BL46XU	寺崎 秀紀	Diffusional and Displacive Transformation Behaviour in Low Carbon-Low Alloy Steels Studied by a Hybrid in situ Observation System
18661	Tomoya Nagira	64 (2011) 1129-1132	2010A1420	BL20B2	柳楽 知也	Direct Observation of Deformation in Semi-Solid Carbon Steel
			2010B1242	BL20B2	柳楽 知也	
			2009B0014	BL20B2	安田 秀幸	
			2009A0014	BL20B2	安田 秀幸	

### Surface Science

18981	Hirokazu Fukidome	601 (2007) 4675-4679	2005B0651	BL27SU	上田 一之	Microscopically Controlled Oxidation of H/Si(100) by Lateral Surface Electric Field Studied by Emission Electron Microscopies
18993	Jesse Williams	605 (2011) 1336-1340	2010B4607	BL15XU	大橋 直樹	Polarity Determination of Wurtzite-type Crystals Using Hard X-ray Photoelectron Diffraction
			2010A4602	BL15XU	大橋 直樹	
			2009B4607	BL15XU	大橋 直樹	
			2008A4603	BL15XU	大橋 直樹	

### Thin Solid Films

18150	Tetsuji Kato	518 (2010) S147-S150	2008B1839	BL13XU	酒井 朗	Structural Change of Direct Silicon Bonding Substrates by Interfacial Oxide Out-diffusion Annealing
18996	Yutaka Adachi	519 (2011) 5875-5881	2010B4607	BL15XU	大橋 直樹	Polarity of Heavily Doped ZnO Films Grown on Sapphire and SiO <sub>2</sub> Glass Substrates
			2010A4602	BL15XU	大橋 直樹	
			2009B4607	BL15XU	大橋 直樹	
			2009A4605	BL15XU	大橋 直樹	
			2007B4607	BL15XU	大橋 直樹	
			2007A4609	BL15XU	大橋 直樹	
			2008A4603	BL15XU	大橋 直樹	

### 分析化学 (Bunseki Kagaku)

18057	Masayoshi Okuyama	59 (2010) 513-520	2006A1765	BL43IR	奥山 誠義	The Identification and the Analysis of Degraded State of Excavated Archaeological Textile Fibers Using Synchrotron FT-IR Micro-Spectroscopy
			2007A1306	BL43IR	奥山 誠義	
			2007B1364	BL43IR	奥山 誠義	
			2008A1442	BL43IR	奥山 誠義	
			2009A1301	BL43IR	奥山 誠義	
			2005B0500	BL43IR	佐藤 昌憲	
			2006A1030	BL43IR	佐藤 昌憲	
			2007A1045	BL43IR	佐藤 昌憲	
			2007B1174	BL43IR	佐藤 昌憲	
18604	Kiyokazu Katayama	59 (2010) 531-535	2003A0671	BL43IR	西岡 利勝	Analysis of Composition Distribution in High Impact Polypropylene Particles Using Synchrotron Infrared Microspectroscopy Imaging
			2003B0038	BL43IR	西岡 利勝	

### Acta Materialia

18951	Satoshi Ohhashi	47 (2009) 4727-4735	2009A4504	BL15XU	山本 昭二	Phase Formation and Structures of Quasicrystals and Approximants in the Zn-Mg-(Ti, Zr, Hf) System
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### Advances in X-ray Analysis

18753	Jun-ichi Shibano	52 (2008) 376-382	2007B1543	BL28B2	柴野 純一	Study on Computerized Tomography and Strain Mapping Near the Internal Crack Tip of Steel Bar Using Synchrotron White X-ray
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### Angewandte Chemie International Edition

18860	Takafumi Ueno	50 (2011) 4849-4852	2008A1124	BL38B1	上野 隆史	Post-Crystal Engineering of Zinc-Substituted Myoglobin to Construct a Long-Lived Photoinduced Charge-Separation System
			2009B1065	BL38B1	上野 隆史	

**Antiviral Research**

研究成果番号	著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
18222	Kazuki Izumi	87 (2010) 179-186	2009A1283	BL38B1	中村 昇太	Characterization of HIV-1 Resistance to a Fusion Inhibitor, N36, Derived from the gp41 Amino-terminal Heptad Repeat

**Applied Catalysis A: General**

18905	Toyokazu Tanabe	384 (2010) 241-251	2009B4502	BL15XU	山本 昭二	Microstructure of Leached Al-Cu-Fe Quasicrystal with High Catalytic Performance for Steam Reforming of Methanol
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**Biochimica et Biophysica Acta - Proteins and Proteomics**

18869	Ryuichi Takase	1804 (2010) 1925-1936	2009B1177	BL38B1	橋本 涉	Molecular Identification of Unsaturated Uronate Reductase Prerequisite for Alginate Metabolism in <i>Sphingomonas</i> sp. A1
			2009A1179	BL38B1	橋本 涉	

**Calcified Tissue International**

18666	Takeshi Matsumoto	88 (2011) 432-441	2006A1805	BL20B2	松本 健志	In Vivo CT Quantification of Trabecular Bone Dynamics in Mice after Sciatic Neurectomy Using Monochromatic Synchrotron Radiation
			2007A2077	BL20B2	松本 健志	

**Cancer Research**

17848	Sachiko Kaida	70 (2010) 7031-7041	2009A1708	BL37XU	Cabral Horacio	Visible Drug Delivery System by Supramolecular Nanocarriers Directing to Single-Platformed Diagnosis and Therapy of Pancreatic Tumor Model
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**Catalysis Communications**

17652	Mari Uenishi	9 (2008) 311-314	2006A3603	BL14B1	谷口 昌司	Time Evolution of Palladium Structure Change with Redox Fluctuations in a LaFePdO <sub>3</sub> Perovskite Automotive Catalyst by High-Speed Analysis with in situ DXAFS
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**Catalysis Communications**

18153	Masaya Matsuoka	122 (2007) 39-45	2006A1394	BL01B1	松岡 雅也	In-situ Characterization of the Highly Dispersed Mo <sup>6+</sup> -Oxide Species Supported onto Various Oxides and Their Photocatalytic Activities
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**Cell**

18266	Shiqian Qi	141 (2010) 446-457	2008A0019	BL41XU	Yan Nieng	Crystal Structure of the <i>Caenorhabditis elegans</i> Apoptosome Reveals an Octameric Assembly of CED-4
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**Cement and Concrete Research**

18684	Kunio Matsui	41 (2011) 510-519	2008B1864	BL19B2	松野 信也	<i>In situ</i> Time-resolved X-ray Diffraction of Tobermorite Formation in Autoclaved Aerated Concrete: Influence of Silica Source Reactivity and Al Addition
			2009B1788	BL19B2	松野 信也	

**Chemical Physics Letters**

19024	Keita Kanda	506 (2011) 98-103	2009A1295	BL41XU	沈 建仁	Labile Electronic and Spin States of the CaMn <sub>4</sub> O <sub>5</sub> Cluster in the PSII System Refined to the 1.9 Å X-ray Resolution. UB3LYP Computational Results
			2009B1971	BL41XU	沈 建仁	
			2010A1139	BL41XU	沈 建仁	
			2010B1249	BL41XU	沈 建仁	
			2010B1158	BL38B1	川上 恵典	
			2009A6916	BL44XU	神谷 信夫	
			2009B6916	BL44XU	神谷 信夫	
			2010A6916	BL44XU	神谷 信夫	
2010B6916	BL44XU	神谷 信夫				

**Chemosphere**

18670	Noriko Yamaguchi	83 (2011) 925-932	2008B1272	BL01B1	山口 紀子	Arsenic Release from Flooded Paddy Soils is Influenced by Speciation, Eh, pH, and Iron Dissolution
			2009B1136	BL01B1	山口 紀子	

### ChemPhysChem

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
18853	Masashi Nakamura	12 (2011) 1430-1434	2008B1395	BL13XU	中村 将志	Outer Helmholtz Plane of the Electrical Double Layer Formed at the Solid Electrode-Liquid Interface
			2009A1694	BL13XU	中村 将志	
			2009B1363	BL13XU	中村 将志	

### ChemSusChem

18656	Akihiro Tsuji	4 (2011) 542-548	2009B1497	BL01B1	海老谷 幸喜	Selective Oxidation of Glycerol by Using a Hydrotalcite-Supported Platinum Catalyst under Atmospheric Oxygen Pressure in Water
			2010A1598	BL01B1	西村 俊	

### Chinese Journal of Physics

18631	Kazuaki Iwasa	49 (2011) 231-238	2007B1328	BL35XU	岩佐 和晃	Softening of the Longitudinal Phonon Mode along the [100] Direction in GdB <sub>6</sub>
			2009A1224	BL35XU	岩佐 和晃	

### Corrosion Science

18184	Michio Kaneko	52 (2010) 1889-1896	2007A1925	BL46XU	木村 正雄	Effects of Titanium Carbide (TiC) and Anodizing Voltages on Discoloration Resistance of Colored-Titanium Sheets
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### Diamond Light Source Proceedings

18856	Clara Guglieri	1 (2011) e143	2009B0024	BL39XU	Chaboy Jesus	X-ray Absorption Spectroscopy Characterization of the Interface in Capped ZnO Nanoparticles
			2010A0024	BL39XU	Chaboy Jesus	
			2008B1773	BL39XU	Chaboy Jesus	

### Electrochemical and Solid-State Letters

12407	Shinji Okamoto	11 (2008) J47-J49	2003B0960	BL19B2	岡本 慎二	Ba-Substitution Effect on Luminescent Properties and Thermal Degradation of Sr <sub>3</sub> MgSi <sub>2</sub> O <sub>8</sub> :Eu <sup>2+</sup> Blue Phosphor Under Vacuum-UV-Light Excitation
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### Electrochemistry

18803	Jun Maruyama	79 (2011) 318-321	2008A1891	BL14B2	丸山 純	Factors for Active Site Generation and Pore Development in Fuel Cell Catalysts Formed from Glucose/Nitrogen Source/Fe Salts
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### Electrochemistry Communications

18659	Kazuhiisa Tamura	13 (2011) 411-413	2009A3604	BL14B1	田村 和久	Direct Observation of Au(111) Electrode Surface Structure in Bis(trifluoromethylsulfonyl)amide-based Ionic Liquids Using Surface X-ray Scattering
			2009B3615	BL14B1	田村 和久	

### Electrochimica Acta

18665	Keisuke Fugane	56 (2011) 3874-3883	2009B4605	BL15XU	森 利之	Activity of Oxygen Reduction Reaction on Small amount of Amorphous CeO <sub>x</sub> Promoted Pt Cathode for Fuel Cell Application
			2010A4606	BL15XU	森 利之	

### Environmental Science & Technology

18749	Yoko Shimamoto	45 (2011) 2086-2092	2007B1175	BL01B1	高橋 嘉夫	Formation of Organic Iodine Supplied as Iodide in a Soil-Water System in Chiba, Japan
			2008B1436	BL37XU	高橋 嘉夫	
			2009A1242	BL37XU	高橋 嘉夫	
			2010A1612	BL01B1	柏原 輝彦	
			2009A1668	BL01B1	柏原 輝彦	
			2010B1664	BL37XU	東郷 洋子	

### European Journal of Inorganic Chemistry

17862	Rie Makiura	2010 (2010) 3715-3724	2008A1580	BL13XU	牧浦 理恵	Porous Porphyrin Nano-Architectures on Surfaces
			2008B1801	BL13XU	牧浦 理恵	
			2009A1703	BL13XU	牧浦 理恵	
			2009B1772	BL13XU	牧浦 理恵	

### Ferroelectrics

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
18967	Daisuke Mori	414 (2011) 180-189	2010A1669	BL02B2	森 大輔	High-Pressure Synthesis, Structure, Dielectric and Magnetic Properties for SrCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub>

### Green Chemistry

18655	Navneet Kumar Gupta	13 (2011) 824-827	2010A1598	BL01B1	西村 俊	Hydrotalcite-Supported Gold-Nanoparticle-Catalyzed Highly Efficient Base-Free Aqueous Oxidation of 5-hydroxymethylfurfural into 2,5-furandicarboxylic Acid under Atmospheric Oxygen Pressure
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### IEEE Transactions on Components, Packaging and Manufacturing Technology

18183	Shinji Koike	1 (2011) 100-110	2007B1814	BL47XU	小池 真司	SPring-8 X-ray Micro-Tomography Observations of Zirconium Inclusions in CO <sub>2</sub> Laser Fusion Splice for Single Mode Optical Fibers
			2008A1790	BL19B2	小池 真司	

### ITE Letters on Batteries, New Technologies & Medicine

15995	Tetsuya Ozaki	8 (2007) B24-B29	2005B0871	BL19B2	綿田 正治	Crystal Structure Analysis and Electrode Properties of La-Mg-Ni-based Hydrogen Storage Alloy
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### Journal of Applied Crystallography

18671	Osami Sakata	44 (2011) 385-391	2004A0534	BL13XU	坂田 修身	Application of Synchrotron-based Reciprocal-space Mapping at a Fixed Angular Position to Identification of Crystal Symmetry of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> Epitaxial Thin Films
			2005B0435	BL13XU	坂田 修身	
			2006A1370	BL13XU	坂田 修身	
			2006B1457	BL13XU	坂田 修身	

### Journal of Applied Physics

19086	Minoru Maeda	109 (2011) 023904	2008B1557	BL02B2	高瀬 浩一	In-field J <sub>c</sub> Improvement by Oxygen-free Pyrene Gas Diffusion into Highly Dense MgB <sub>2</sub> Superconductor
			2009A1334	BL02B2	高瀬 浩一	

### Journal of Basic Microbiology

18870	Yukie Maruyama	50 (2010) 311-317	2009A1179	BL38B1	橋本 涉	Mutational Studies of the Peptidoglycan Hydrolase FlgJ of <i>Sphingomonas</i> sp. Strain A1
			2008B1112	BL38B1	橋本 涉	

### Journal of Biomechanical Science and Engineering

18757	Satoshi Yamada	6 (2011) 114-124	2010A1592	BL28B2	山田 悟史	Residual Stress Distribution in the Bovine Femoral Diaphysis Measured by Synchrotron
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### Journal of Electron Spectroscopy and Related Phenomena

18813	Misaki Hayashi	184 (2011) 338-341	2009B1410	BL25SU	中村 哲也	25 Tesla Pulsed-High-Magnetic-Field System for Soft X-ray Spectroscopy
			2010A1345	BL25SU	中村 哲也	
			2010A1500	BL25SU	鳴海 康雄	

### Journal of Environmental Quality

18694	Yohey Hashimoto	40 (2011) 696-703	2007B1315	BL01B1	橋本 洋平	Enhanced Transformation of Lead Speciation in Rhizosphere Soils Using Phosphorus Amendments and Phytostabilization: XAFS Spectroscopy Investigation
			2008A1265	BL01B1	橋本 洋平	
			2009A1255	BL01B1	橋本 洋平	

### Journal of Geochemical Exploration

19040	Yoko S. Shimamoto	107 (2010) 117-123	2003B0385	BL01B1	高橋 嘉夫	Soil Column Experiments for Iodate and Iodide using K-edge XANES and HPLC-ICP-MS
			2007B1175	BL01B1	高橋 嘉夫	
			2008A1463	BL37XU	高橋 嘉夫	

### Journal of Geophysical Research

18722	Takashi Yoshino	116 (2011) B04202	2008A1201	BL04B1	芳野 極	Effect of Iron Content on Electrical Conductivity of Ferropericlase with Implications for the Spin Transition Pressure
			2008B1226	BL04B1	芳野 極	

**Journal of Inorganic and Organometallic Polymers and Materials**

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
19115	Nagatoshi Nishiwaki	20 (2010) 873-876	2009A4603	BL15XU	角谷 正友	Reusability, Durability and Treatability of Palladium Catalyst on a Semiconductor Plate: Comparison with Commercially Available Solid-Supported Palladium Catalysts

**Journal of Mass Spectrometry**

18910	Kazumasa Okada	46 (2011) 635-639	2006A1395	BL27SU	岡田 和正	Photofragmentation of the K-shell Excited
			2007A2026	BL27SU	岡田 和正	Perfluorocyclobutane: Anisotropies in the Fragments
			2008A1503	BL27SU	岡田 和正	and Breakdown Pathways

**Journal of Materials Chemistry**

19066	Naoaki Yabuuchi	21 (2011) 10035-10041	2009B1777	BL02B2	駒場 慎一	Effect of Heat-Treatment Process on FeF <sub>3</sub> Nanocomposite Electrodes for Rechargeable Li Batteries
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**Journal of Materials Research**

19056	Seiji Yamazoe	26 (2011) 1504-1516	2010A1197	BL01B1	山添 誠司	A Structural Study of Cu-In-Se Compounds by X-ray Absorption Fine Structure
			2010B1502	BL01B1	山添 誠司	

**Journal of Materials Science**

18906	Toyokazu Tanabe	46 (2011) 2242-2250	2009B4502	BL15XU	山本 昭二	Evolution of Microstructure Induced by Air Calcination of Leached Al-Cu-Fe Quasicrystal and Its High Catalytic Activity
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**Journal of Nanoscience and Nanotechnology**

18950	Sergey Suturin	11 (2011) 2990-2996	2006A1601	BL13XU	Sokolov Nikolai	Initial Stages of High-temperature CaF <sub>2</sub> /Si(001) Epitaxial Growth Studied by Surface X-ray Diffraction
			2005A0575	BL13XU	Sokolov Nikolai	

**Journal of Non-Crystalline Solids**

19047	Makoto Mizuno	357 (2011) 594-597	2008B1418	BL45XU	小西 隆士	Glass Transition and Thermal Expansivity in Silica-Polystyrene Nanocomposites
			2010A1200	BL40B2	深尾 浩次	
			2010A1291	BL40B2	小西 隆士	

**Journal of Photochemistry and Photobiology B**

19023	Keisuke Kawakami	104 (2011) 9-18	2009A1295	BL41XU	沈 建仁	Structure of the Catalytic, Inorganic Core of Oxygen-Evolving Photosystem II at 1.9 Å Resolution
			2009B1971	BL41XU	沈 建仁	
			2010A1139	BL41XU	沈 建仁	
			2010B1249	BL41XU	沈 建仁	
			2010B1158	BL38B1	川上 惠典	
			2009A6916	BL44XU	神谷 信夫	
			2009B6916	BL44XU	神谷 信夫	
			2010A6916	BL44XU	神谷 信夫	
			2010B6916	BL44XU	神谷 信夫	

**The Journal of Physical Chemistry Letters**

18695	Yohko Yano	2 (2011) 995-999	2009A1686	BL37XU	矢野 陽子	Protein Salting Out Observed at an Air-Water Interface
			2009B1308	BL37XU	矢野 陽子	

**Journal of Physics and Chemistry of Solids**

19091	Takahiro Mori	69 (2008) 298-301	2005A0166	BL01B1	森 貴洋	Study of Local Segregation in GaInNAs using EXAFS Measurements
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**Journal of Physics: Condensed Matter**

18766	Shuta Tahara	23 (2011) 235102	2006B1332	BL04B2	川北 至信	Medium-range Correlation of Ag Ions in Superionic Melts of Ag <sub>2</sub> Se and AgI by Reverse Monte Carlo Structural Modelling –Connectivity and Void Distribution
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**Journal of Solid Mechanics and Materials Engineering**

研究成果番号	著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
18929	Kiyotaka Masaki	2 (2008) 1104-1113	2005B0886	BL19B2	佐野 雄二	Investigation of Fatigue Crack Behavior with Synchrotron Radiation on AC4CH Casting Aluminum Alloy
			2006A0189	BL19B2	佐野 雄二	
			2006B0187	BL19B2	佐野 雄二	
			2007A1430	BL19B2	野上 由夫	

**Journal of Solid State Chemistry**

18703	Kazuhiko Mukai	184 (2011) 1096-1104	2007A1917	BL19B2	向 和彦	Magnetic Properties of the Chemically Delithiated $\text{Li}_x\text{Mn}_2\text{O}_4$ with $0.07 \leq x \leq 1$
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**Journal of the Vacuum Society of Japan**

18963	Daichi Yamazaki	54 (2011) 307-312	2009B3801	BL23SU	寺岡 有殿	Synchrotron X-ray Photoemission Study of NiTi Surface Oxidation with Hyperthermal Oxygen Molecular Beam
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**Macromolecules**

19046	Kenji Nakamura	44 (2011) 3053-3061	2010A1200	BL40B2	深尾 浩次	Systematic Dielectric Relaxation Study of Solid-Like Polyelectrolyte-Surfactant Complexes Formed between Poly(styrenesulfonate) and Cationic Surfactants
			2010B1479	BL40B2	深尾 浩次	
			2010A1291	BL40B2	小西 隆士	
			2010B1482	BL40B2	小西 隆士	

**Materials Science Forum**

18752	Jun-ichi Shibano	638-642 (2010) 2476-2481	2007A1641	BL28B2	柴野 純一	Transmission Imaging and Strain Mapping in the Vicinity of Internal Crack Tip Using Synchrotron White X-ray
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**Monatshefte fur Chemie / Chemical Monthly**

14438	Miki Hasegawa	140 (2009) 751-763	2007B1716	BL02B2	長谷川 美貴	Ultra-Thin Emissive Molecular Devices: Polarized Emission of Ln(III) Complex Films
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**Nature Communications**

18817	J. Garcia- Barriocanal	1 (2010) 82	2007B1516	BL25SU	Duffy Jonathan	Spin and Orbital Ti Magnetism at $\text{LaMnO}_3/\text{SrTiO}_3$ Interfaces
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**Nature Materials**

17860	Rie Makiura	9 (2010) 565-571	2008A1580	BL13XU	牧浦 理恵	Surface Nano-Architecture of A Metal-Organic Framework
			2008B1801	BL13XU	牧浦 理恵	
			2009A1703	BL13XU	牧浦 理恵	
			2009B1772	BL13XU	牧浦 理恵	

**Nature Nanotechnology**

14017	Xu-Guang Zheng	3 (2008) 724-726	2008B1776	BL02B2	鄭 旭光	Giant Negative Thermal Expansion in Magnetic Nanocrystals
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**Nature Structural and Molecular Biology**

18692	Xiaowei Pan	18 (2011) 309-316	2008B1026	BL41XU	Chang WenRui	Structural Insights into Energy Regulation of Light- harvesting Complex CP29 from Spinach
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**Nucleic Acids Research**

18003	Akiyoshi Nakamura	38 (2010) 672-682	2008B1489	BL41XU	田中 勲	Two Distinct Regions in <i>Staphylococcus aureus</i> GatCAB Guarantee Accurate tRNA Recognition
			2009A1119	BL40B2	姚 閔	
			2009B1110	BL41XU	田中 勲	

**Optics Express**

18140	Sally Irvine	18 (2010) 13478-13491	2008B1985	BL20XU	Parsons David	Assessment of the Use of a Diffuser in Propagation- based X-ray Phase Contrast Imaging
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### Optics Letters

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
18141	Kaye Morgan	36 (2011) 55-57	2009B1922	BL20XU	Parsons David	Quantitative X-ray Phase Contrast Imaging Using a Single Grating of Comparable Pitch to Sample Feature Size

### Philosophical Magazine

18739	Kazuo Soda	91 (2011) 2510-2518	2009A1672	BL27SU	曾田 一雄	Spectroscopic Study of Ni-rich Al-Co-Ni Quasicrystal
			2009B1729	BL27SU	曾田 一雄	

### Physica B

19067	Terukai Takeuchi	406 (2011) 2559-2564	2000B0068	BL09XU	志村 考功	X-ray Diffraction Profiles of Si Nanowires with Trapezoidal Cross-Sections
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### Physica C

19057	Rikiya Yoshida	470 (2010) S389-S390	2008B1581	BL27SU	横谷 尚睦	Analysis on Photoemission Spectrum of Superconducting FeSe
			2009A1515	BL25SU	横谷 尚睦	

### PLoS Biology

18723	Tohru Minamino	9 (2011) e1000616	2007B2049	BL41XU	今田 勝巳	Structural Insight into the Rotational Switching Mechanism of the Bacterial Flagellar Motor
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### Polymer

18898	YoungAh Kang	52 (2011) 2044-2050	2007B1226	BL40B2	大越 豊	In-situ Analysis of Fiber Structure Development for Isotactic Polypropylene
			2008A1485	BL40B2	浦川 宏	

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

18642	Tsutomu Nakamura	105 (2008) 6238-6242	2007A1533	BL38B1	松村 浩由	Oxidation of Archaeal Peroxiredoxin Involves a Hypervalent Sulfur Intermediate
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### Protein Science

18765	Rouben A. Dilanian	20 (2011) 457-464	2004A0304	BL40XU	岡 俊彦	A New Approach for Structure Analysis of Two-Dimensional Membrane Protein Crystals Using X-ray Powder Diffraction Data
			2003A0173	BL40B2	岡 俊彦	
			2003B0270	BL40B2	岡 俊彦	

### Proteins: Structure, Function, and Bioinformatics

18714	Izumi Orita	78 (2010) 3488-3492	2006A2716	BL41XU	三木 邦夫	Crystal Structure of 3-Hexulose-6-Phosphate Synthase, a Member of the Orotidine 5'-Monophosphate Decarboxylase Suprafamily
			2006B2664	BL41XU	三木 邦夫	

### Science

18709	Yoshiharu Sakurai	332 (2011) 698-702	2003B0762	BL08W	伊藤 真義	Imaging Doped Holes in a Cuprate Superconductor with High-Resolution Compton Scattering
			2004A0152	BL08W	伊藤 真義	
			2007B1413	BL08W	Bansil Arun	
			2008A1191	BL08W	Bansil Arun	
			2010A1907	BL08W	櫻井 吉晴	

### Science Signaling

18725	Yohei Mukai	3 (2010) ra83-92	2006A6839	BL44XU	山縣 ゆり子	Solution of the Structure of the TNF-TNFR2 Complex
			2006B2672	BL41XU	山縣 ゆり子	

### Tetrahedron Letters

18130	Yusuke Mikami	51 (2010) 5466-5468	2010A1081	BL01B1	金田 清臣	Selective Deoxygenation of Styrene Oxides under a CO Atmosphere Using Silver Nanoparticle Catalyst
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### Topics in Catalysis

18943	Tetsuya Shishido	53 (2010) 672-677	2009B1398	BL01B1	宍戸 哲也	Generation of Brønsted Acid Over Alumina-Supported Niobia Calcined at High Temperatures
			2009A1606	BL01B1	宍戸 哲也	



## Virtual Journal of Biological Physics Research

研究成果番号	著者	雑誌情報	課題番号	ビームライン	実験責任者	タイトル
13081	Andreas Fouras	14 (2007) 1-7	2006A0002	BL20B2	Lewis Rob	Three-dimensional Synchrotron X-ray Particle Image Velocimetry

## X線分析の進歩 (Advances in X-ray Chemical Analysis, Japan)

18669	Takashi Yamamoto	42 (2011) 237-248	2010A1334	BL01B1	山本 孝	XAFS Characterization of Active Fe Species in Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Catalyst for Styrene Dimerization
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## 高分子論文集 (Japanese Journal of Polymer Science and Technology)

12234	Go Matsuba	64 (2007) 419-428	2002A0328	BL45XU	金谷 利治	The Effects of Ultra-high Molecular Weight Component on Crystallization under Shear Flow
			2003A0149	BL45XU	金谷 利治	

## 実験力学 (Journal of the Japanese Society for Experimental Mechanism)

18928	Yuji Sano	7 (2007) 61-67	2004A0806	BL19B2	佐野 雄二	Characterization of Laser-Peened Materials by Synchrotron Radiation and Neutron Diffraction Techniques
			2004B0915	BL19B2	佐野 雄二	
			2005B0886	BL19B2	佐野 雄二	
			2006A0189	BL19B2	佐野 雄二	

## 表面科学 (Journal of the Surface Science Society of Japan)

18948	Yoshiyuki Yamashita	32 (2011) 320-324	2009A4600	BL15XU	南風盛 将光	Bias-application in Hard X-ray Photoelectronic Study for Advanced Materials
			2009B4810	BL15XU	小林 啓介	
			2010B4600	BL15XU	長田 貴弘	

## 保全学 (Maintenology)

18681	Kenji Suzuki	10 (2011) 57-63	2008A1766	BL02B1	田中 良彦	Residual Micro-stresses in Austenitic Stainless Steel Due to High Strain Rate
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## 博士論文 (九州大学)

18937	Koji Ohara	(2010)	2007B1676	BL04B2	尾原 幸治	Study on the Lithium Ionic Conduction Path in Perovskite Crystal Including the Random Distribution of Lithium and Lanthanum Ions
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## 博士論文 (東北大学)

18974	Hiroyuki Handa	(2011)	2009B1735	BL17SU	吹留 博一	Study on Epitaxial Process of Graphene by Thermal Annealing of 3C-SiC/Si
			2010A1674	BL17SU	吹留 博一	
			2010B1712	BL17SU	吹留 博一	

## 博士論文 (北陸先端大学院大学)

18691	Shun Nishimura	(2011)	2009A1662	BL01B1	西村 俊	Studies on Development of Highly Functionalized anion-structured Catalysts by Mechanistic Approaches
			2009B1690	BL01B1	西村 俊	
			2008B1328	BL01B1	海老谷 幸喜	
			2010A1598	BL01B1	西村 俊	

## 課題以外の成果として登録された論文

## Physical Review B

研究成果番号	著者	雑誌情報	課題番号	ビームライン	タイトル
18662	Miho Ikeda	83 (2011) 134417	理研	BL44B2	Competition between Vanadium Tetramerization and Trimerization Ba <sub>1-x</sub> Sr <sub>x</sub> V <sub>13</sub> O <sub>18</sub>
18840	Yukio Takahashi	83 (2011) 214109	理研	BL29XU	Towards High-resolution Ptychographic X-ray Diffraction Microscopy
18879	Kenji Ishii	83 (2011) 241101(R)	原研	BL11XU	Polarization-analyzed Resonant Inelastic X-ray Scattering of the Orbital Excitations in KCuF <sub>3</sub>

**Journal of the American Chemical Society**

研究成果番号	主著者	雑誌情報	関連情報	ビームライン	タイトル
18616	Yasunao Miyamura	132 (2010) 3292-3294	理研	BL44B2	Shape-Directed Assembly of a 'Macromolecular Barb' into Nanofibers: Stereospecific Cyclopolymerization of Isopropylidene Diallylmalonate
18617	Miho Yamauchi	133 (2011) 1150-1152	理研	BL44B2	Highly Selective Ammonia Synthesis from Nitrate with Photocatalytically Generated Hydrogen on CuPd/TiO <sub>2</sub>

**Proceedings of SPIE**

15337	Satoshi Matsuyama	5918 (2005) 591804	理研	BL29XU	Hard X-ray Nano-focusing at 40nm Level using K-B Mirror Optics for Nanoscopy/Spectroscopy
15338	Satoshi Matsuyama	5533 (2004) 181-191	理研	BL29XU	Wave-Optical and Ray-Tracing Analysis to Establish a Two Dimensional Focusing Unit using K-B Mirror Arrangement

**Analytical Chemistry**

12569	Atsushi Ikeda	79 (2007) 8016-8023	原研	BL11XU	Extended X-ray Absorption Fine Structure Investigation of Adsorption and Separation Phenomena of Metal Ions in Organic Resin
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**Chemistry an Asian Journal**

18600	Wei-Shi Li	5 (2010) 1566-1572	理研	BL44B2	Use of Side-Chain Incompatibility for Tailoring Long-Range p/n Heterojunctions: Photoconductive Nanofibers Formed by Self-Assembly of an Amphiphilic Donor-Acceptor Dyad Consisting of Oligothiophene and Perylenediimide
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**The EMBO Journal**

18273	Yoriko Murayama	30 (2011) 68-78	理研	BL45XU	Tracking and Visualizing the Circadian Ticking of the Cyanobacterial Clock Protein KaiC in Solution
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**Journal of the Vacuum Society of Japan**

18748	Masaya Ooishi	54 (2011) 158-161	加速器		Scratch and Corrosion Resistance of an Aluminum Flange with an Electron Beam Modified Seal Edge
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**Nuclear Instruments and Methods in Physics Research Section A**

18736	Yuji Otake	637 (2011) S7-S11	XFEL		Advanced Diagnosis of the Temporal Characteristics of Ultra-Short Electron Beams
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**PLoS Biology**

18516	Shuichi Takeda	8 (2010) e1000416	理研	BL26B1	Two Distinct Mechanisms for Actin Capping Protein Regulation - Steric and Allosteric Inhibition
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**Vacuum**

18706	Hiroshi Saeki	85 (2011) 975-977	加速器		Vacuum Seal for a Rectangular Flange
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