

## 最近 SPring-8 もしくは SACLA から発表された成果リスト

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利用推進部

SPring-8 もしくは SACLA 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。

[http://www.spring8.or.jp/ja/science/publication\\_database/](http://www.spring8.or.jp/ja/science/publication_database/)

このデータベースに登録された原著論文の内、平成27年7月～9月に登録され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/news\\_publications/publications/user\\_exp\\_report/](http://www.spring8.or.jp/ja/news_publications/publications/user_exp_report/)

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 2015 年 7 月～9 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
Japanese Journal of Applied Physics	13	Review of Scientific Instruments	6
Physical Review B	10	Biochemical and Biophysical Research Communications	5
Applied Physics Letters	8		
Journal of Synchrotron Radiation	8	Physical Review A	5
Scientific Reports	8	Physical Review Letters	5
Nature Communications	7	他全 146 誌、計 286 報	

課題の成果として登録された論文

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
29095	Takahiro Nagata	54 (2015) 06FG01	2011A4611	BL15XU	長田 貴弘	Bias Induced Cu Ion Migration Behavior in Resistive Change Memory Structure Observed by Hard X-ray Photoelectron Spectroscopy
			2011B4611	BL15XU	長田 貴弘	
			2012A4613	BL15XU	長田 貴弘	
29105	Masanori Tsunekawa	54 (2015) 082401	2007A1558	BL25SU	今田 真	Soft X-ray Photoemission Study of $\text{Co}_2(\text{Cr}_{1-x}\text{Fe}_x)\text{Ga}$ Heusler Compounds
29200	Yuka Ikemoto	54 (2015) 082402	2011A1274	BL43IR	池本 夕佳	Improvement of Infrared Near-Field Spectrum by Asymmetric Interferometer Configuration
			2011B1309	BL43IR	池本 夕佳	
			2011B0089	BL43IR	岡村 英一	
			2012A1833	BL43IR	池本 夕佳	
			2012A1153	BL43IR	池本 夕佳	
			2012A0089	BL43IR	岡村 英一	
			2012B1153	BL43IR	池本 夕佳	
			2012B0089	BL43IR	岡村 英一	
			2013A1257	BL43IR	池本 夕佳	
			2013A0089	BL43IR	岡村 英一	
			2013B1443	BL43IR	池本 夕佳	
			2013B0089	BL43IR	岡村 英一	
2014A1152	BL43IR	岡村 英一				
2014B1420	BL43IR	岡村 英一				
2014A1374	BL43IR	池本 夕佳				
29204	Yoshihiro Yamashita	54 (2015) 08KD14	2014B1938	BL46XU	小椋 厚志	X-ray Evaluation of Electronic and Chemical Properties and Film Structures in SiN Passivation Layer on Crystalline Si Solar Cells
29269	Norihiro Ikeno	54 (2015) 08KD19	2012A1771	BL46XU	小椋 厚志	Relationship between Passivation Properties and Band Alignment in $\text{O}_3$ -based Atomic-Layer-Deposited $\text{AlO}_x$ on Crystalline Si for Photovoltaic Applications
			2014A1544	BL46XU	新船 幸二	
29318	Eri Tanaka	53 (2014) 09PB01	2012B1241	BL02B2	谷口 博基	Structural Changes and Microstructures in Stuffed Tridymite-Type Compounds $\text{Ba}_{1-x}\text{Sr}_x\text{Al}_2\text{O}_4$
29477	Akihisa Takeuchi	54 (2015) 092401	2010B1224	BL20XU	竹内 晃久	Differential-Phase-Contrast Knife-Edge Scan Method for Precise Evaluation of X-ray Nanobeam
			2012B1510	BL20XU	竹内 晃久	
			2012B1515	BL20XU	竹内 晃久	
29511	Shigeo Mori	54 (2015) 10NC02	2014A1323	BL02B1	森 茂生	Suppression of Structural Phase Transition by Sr Substitution in the Improper Ferroelectric $\text{BaAl}_2\text{O}_4$
			2015A1510	BL02B2	森 茂生	
29532	Tomoaki Yamada	54 (2015) 10NA07	2012B4906	BL15XU	山田 智明	Domain Structure of Tetragonal $\text{Pb}(\text{Zr,Ti})\text{O}_3$ Nanorods and its Size Dependence
			2012B1554	BL13XU	山田 智明	
			2013A4904	BL15XU	山田 智明	
			2013A1525	BL13XU	山田 智明	
			2013B4908	BL15XU	山田 智明	
			2014A4908	BL15XU	山田 智明	
2014B4908	BL15XU	山田 智明				
29607	Takahiro Oikawa	53 (2014) 05FE06	2013A4713	BL15XU	大橋 直樹	Characterizations of Epitaxial $\text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3$ - $\text{Bi}(\text{Zn}_{1/2}\text{Ti}_{1/2})\text{O}_3$ Solid Solution Films Grown by Pulsed Laser Deposition
29610	Shinobu Aoyagi	54 (2015) 10NB03	2013A0100	BL02B1	青柳 忍	Crystal Structure Analysis of $\text{LiTaO}_3$ under Electric Field
			2013B0100	BL02B1	青柳 忍	
			2014A0100	BL02B1	青柳 忍	
			2014B0100	BL02B1	青柳 忍	
29653	Shuhei Kawakami	54 (2015) 10NC03	2012A1408	BL39XU	中島 伸夫	Mechanism of Intrinsic Dipole Moment Induction in Quantum Paraelectric $\text{SrTiO}_3$
			2012B1202	BL39XU	中島 伸夫	
			2013A1419	BL39XU	中島 伸夫	

Scientific Reports-1

29077	Tetsuya Tachibana	5 (2015) 10977	2012A8036	BL3	上田 潔	Nanoplasma Formation by High Intensity Hard X-rays
29292	David Billington	5 (2015) 12428	2012A1293	BL08W	Dugdale Stephen	Magnetic Frustration, Short-Range Correlations and the Role of the Paramagnetic Fermi Surface of $\text{PdCrO}_2$
29313	Toshiaki Iitaka	5 (2015) 12551	2012B4260	BL12XU	福井 宏之	Pressure-Induced Dissociation of Water Molecules in Ice VII
29352	Takuya Kuroda	5 (2015) 10912	2010B1901	BL41XU	今田 勝巳	Molecular and Structural Analysis of <i>Legionella</i> DotI Gives Insights into an Inner Membrane Complex Essential for Type IV Secretion
			2011A1240	BL41XU	今田 勝巳	

## Scientific Reports-2

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
29535	Hirokazu Masai	5 (2015) 13332	2012B1349	BL01B1	正井 博和	Local Coordination State of Rare Earth in Eutectic Scintillators for Neutron Detector Applications
29536	Hirokazu Masai	5 (2015) 13646	2014A1128	BL01B1	正井 博和	Photoluminescence of Monovalent Indium Centres in Phosphate Glass
29556	Yumi Katasho	5 (2015) 13790	2013A1558	BL19B2	松岡 俊文	Mechanisms for Enhanced Hydrophobicity by Atomic-Scale Roughness
			2013B1543	BL19B2	松岡 俊文	
29668	Kyo Nakajima	5 (2015) 14065	2013B8022	BL3	柳下 明	Photoelectron Diffraction from Laser-Aligned Molecules with X-ray Free-Electron Laser Pulses
			2014A8012	BL3	柳下 明	

## Physical Review B

29091	Nozomu Hiraoka	91 (2015) 241112(R)	2011B4250	BL12XU	平岡 望	Magnetic Circular Dichroism of Nonresonant X-ray Raman Scattering
			2012A4253	BL12XU	平岡 望	
			2012A4254	BL12XU	平岡 望	
29328	Keisuke Ishigami	92 (2015) 064402	2011A3840	BL23SU	藤森 淳	Thickness-Dependent Magnetic Properties and Strain-Induced Orbital Magnetic Moment in SrRuO <sub>3</sub> Thin Films
29356	Kengo Fushiya	92 (2015) 075118	2012A1333	BL01B1	青木 勇二	Logarithmic Temperature Dependence of Samarium Ion Valence in the Heavy-Fermion Sm <sub>x</sub> La <sub>1-x</sub> Os <sub>4</sub> Sb <sub>12</sub>
			2011A1436	BL01B1	青木 勇二	
29418	Naoki Ishimatsu	92 (2015) 054108	2011B1485	BL39XU	石松 直樹	Differences in Local Structure around Co and Fe of the BiCo <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> System Determined by X-ray Absorption Fine Structure
			2012B1354	BL01B1	石松 直樹	
			2013A1734	BL01B1	石松 直樹	
29465	Masanori Inui	92 (2015) 054206	2011B1314	BL35XU	乾 雅祝	Anomalous Dispersion of the Acoustic Mode in Liquid Bi
			2010B1173	BL04B2	乾 雅祝	
			2009B1283	BL04B2	乾 雅祝	
29466	R. G. Burkovsky	90 (2014) 144301	2011A1117	BL35XU	Vakhrushev Sergey	Lattice Dynamics and Antiferroelectricity in PbZrO <sub>3</sub> Tested by X-ray and Brillouin Light Scattering
			2010B1497	BL35XU	Vakhrushev Sergey	
			2008B1240	BL35XU	Vakhrushev Sergey	
29474	Kenichiro Hashimoto	92 (2015) 085149	2013A0089	BL43IR	岡村 英一	Emergence of Charge Degrees of Freedom under High Pressure in the Organic Dimer-Mott Insulator β <sup>-</sup> -(BEDT-TTF) <sub>2</sub> ICl <sub>2</sub>
			2013A1118	BL43IR	佐々木 孝彦	
			2013B0089	BL43IR	岡村 英一	
			2013B1144	BL43IR	佐々木 孝彦	
29566	Lucas Huber	92 (2015) 094304	2012B8003	BL3	Staub Urs	Coherent Acoustic Perturbation of Second-Harmonic-Generation in NiO

## Applied Physics Letters

29247	Hiroyuki Okazaki	106 (2015) 052601	2013A1324	BL25SU	横谷 尚睦	Signature of High T <sub>c</sub> above 25 K in High Quality Superconducting Diamond
29250	Guo-Ling Li	107 (2015) 022109	2013A1400	BL46XU	崔 藝涛	Electronic Structure of β-Ga <sub>2</sub> O <sub>3</sub> Single Crystals Investigated by Hard X-ray Photoelectron Spectroscopy
			2014A1774	BL46XU	陰地 宏	
			2014B1635	BL46XU	陰地 宏	
			2014B1917	BL46XU	陰地 宏	
29267	Daichi Ichinose	107 (2015) 022902	2012A1309	BL13XU	舟窪 浩	Orientation Control of Epitaxial Tetragonal Pb(Zr <sub>x</sub> Ti <sub>1-x</sub> )O <sub>3</sub> Thin Films Grown on (100)KTaO <sub>3</sub> Substrates by Tuning the Zr/(Zr + Ti) Ratio
			2012B4904	BL15XU	舟窪 浩	
			2009A1356	BL13XU	舟窪 浩	
			2014B4909	BL15XU	舟窪 浩	
29314	Naoka Nagamura	106 (2015) 251604	2012A7402	BL07LSU	堀場 弘司	Chemical Potential Shift in Organic Field-Effect Transistors Identified by Soft X-ray <i>Operando</i> Nano-Spectroscopy
			2012B7402	BL07LSU	堀場 弘司	
			2013A7402	BL07LSU	堀場 弘司	
29554	Ryohei Asahara	106 (2015) 233503	2013B3872	BL23SU	渡部 平司	Comprehensive Study and Design of Scaled Metal/High- <i>k</i> /Ge Gate Stacks with Ultrathin Aluminum Oxide Interlayers
			2014B3872	BL23SU	渡部 平司	
29605	Sakyo Hirose	106 (2015) 191602	2011A4610	BL15XU	大橋 直樹	Electric Field and Temperature Dependence of Dielectric Permittivity in Strontium Titanate Investigated by a Photoemission Study on Pt/SrTiO <sub>3</sub> :Nb Junctions
			2011B4610	BL15XU	大橋 直樹	
			2012A4612	BL15XU	大橋 直樹	
			2012B4612	BL15XU	大橋 直樹	
			2013A4716	BL15XU	大橋 直樹	
29606	Shintaro Yasui	103 (2013) 042904	2013A4713	BL15XU	大橋 直樹	Unusual 90° Domain Structure in (2/3)Bi(Zn <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> -(1/3)BiFeO <sub>3</sub> Epitaxial Films with Giant 22% Tetragonal Distortion

**Nature Communications**

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
29147	Naotaka Tsutsumi	5 (2014) 5340	2012B6727	BL44XU	津中 康央	The Structural Basis for Receptor Recognition of Human Interleukin-18
29383	Hironori Takeda	5 (2014) 5374	2012B1146	BL32XU	塚崎 智也	Structural Basis for Ion Selectivity Revealed by High-Resolution Crystal Structure of Mg <sup>2+</sup> Channel MgtE
			2012B1162	BL32XU	濡木 理	
			2013A1128	BL32XU	塚崎 智也	
			2013A1168	BL32XU	濡木 理	
29453	Hitoki Yoneda	5 (2014) 5080	2012B8014	BL3	米田 仁紀	Saturable Absorption of Intense Hard X-rays in Iron
29522	Zhenxin Zhang	6 (2015) 7731	2013A1052	BL40XU	安田 伸広	Ultrathin Inorganic Molecular Nanowire Based on Polyoxometalates
			2014A1177	BL40XU	安田 伸広	
29559	Shunsuke Yagi	6 (2015) 8249	2013A1188	BL01B1	山田 幾也	Covalency-Reinforced Oxygen Evolution Reaction Catalyst
			2014B1128	BL01B1	山田 幾也	
			2014B1129	BL02B2	山田 幾也	
29588	Haruo Ogawa	6 (2015) 8004	2009B0025	BL41XU	豊島 近	Sequential Substitution of K <sup>+</sup> Bound to Na <sup>+</sup> , K <sup>+</sup> -ATPase Visualized by X-ray Crystallography
			2013A0049	BL41XU	豊島 近	

**Journal of Synchrotron Radiation**

29371	Yuki Sekiguchi	21 (2014) 1378-1383	2012A8005	BL3	中迫 雅由	<i>IDATEN and G-SITENNO</i> : GUI Assisted Software for Coherent X-ray Diffraction Imaging Experiments and Data Analyses at SACLA
			2012B8037	BL3	中迫 雅由	
			2013A8043	BL3	中迫 雅由	
			2013B8049	BL3	中迫 雅由	
			2014A8033	BL3	中迫 雅由	
29372	Yuki Sekiguchi	21 (2014) 600-612	2012A8005	BL3	中迫 雅由	Data Processing Software Suite <i>SITENNO</i> for Coherent X-ray Diffraction Imaging using the X-ray Free-Electron Laser SACLA
			2012B8037	BL3	中迫 雅由	
			2013A8043	BL3	中迫 雅由	
29457	Kazuto Yamauchi	22 (2015) 592-598	光学系			Nanofocusing of X-ray Free-Electron Lasers by Grazing-Incidence Reflective Optics
			2012B8052	BL3	小山 貴久	
			2013A8063	BL3	小山 貴久	
29458	Kensuke Tono	22 (2015) 532-537	2013A8039	BL3	岩田 想	Diverse Application Platform for Hard X-ray Diffraction in SACLA (DAPHNIS): Application to Serial Protein Crystallography using an X-ray Free-Electron Laser
			2013A8040	BL3	島村 達郎	
			2013B8045	BL3	岩田 想	
			2012B8036	BL3	岩田 想	
			2014A8032	BL3	岩田 想	
29467	Daisuke Ishikawa	22 (2015) 3-9	2010B2056	BL35XU	石川 大介	Inelastic X-ray Scattering with 0.75 meV Resolution at 25.7 keV using a Temperature-Gradient Analyzer
			2010A1981	BL35XU	石川 大介	
			理研	BL43LXU		

**Acta Crystallographica Section F**

29146	Takeshi Kimura	70 (2014) 1351-1356	2012B6727	BL44XU	津中 康央	Purification, Crystallization and Preliminary X-ray Crystallographic Analysis of Human IL-18 and Its Extracellular Complexes
29353	Takuma Fukumura	70 (2014) 1215-1218	2013B1305	BL41XU	今田 勝巳	Crystallization and Preliminary X-ray Analysis of the Periplasmic Domain of FlIP, an Integral Membrane Component of the Bacterial Flagellar Type III Protein-Export Apparatus
29564	Wataru Kagawa	71 (2015) 1125-1130	2010B1375	BL41XU	胡桃坂 仁志	Structure of RizA, an L-amino-acid Ligase from <i>Bacillus subtilis</i>
			2011A1528	BL41XU	胡桃坂 仁志	
			2011B1133	BL41XU	胡桃坂 仁志	
29680	Yoshiki Aikawa	71 (2015) 1189-1193	2011A1602	BL41XU	相川 佳紀	Expression, Purification, Crystallization and X-ray Diffraction Studies of the Molecular Chaperone Prefoldin from <i>Homo sapiens</i>
			2011B1672	BL41XU	相川 佳紀	
			2012A1704	BL41XU	相川 佳紀	
			2009B1694	BL41XU	木田 宗志	
			2007A1829	BL41XU	木田 宗志	

**Angewandte Chemie International Edition-1**

29284	Shinichi Nishimura	54 (2015) 8939-8942	2011B1872	BL02B2	西村 真一	Superstructure in the Metastable Intermediate-Phase Li <sub>2/3</sub> FePO <sub>4</sub> Accelerating the Lithium Battery Cathode Reaction
			2013A1665	BL02B2	西村 真一	
29359	Takane Imaoka	54 (2015) 9810-9815	2014B1406	BL01B1	今岡 享稔	Finding the Most Catalytically Active Platinum Clusters With Low Atomicity
			2014A1326	BL01B1	今岡 享稔	

## Angewandte Chemie International Edition-2

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
29537	Kazuyuki Iwase	54 (2015) 11068-11072	2013A1598	BL01B1	松田 翔一	Copper-Modified Covalent Triazine Frameworks as Non-Noble-Metal Electrocatalysts for Oxygen Reduction
			2014B1252	BL01B1	神谷 和秀	
			2015A1302	BL01B1	神谷 和秀	
			2013B1123	BL01B1	神谷 和秀	
29663	Yasuhide Akizuki	54 (2015) 10870-10874	2013A1042	BL27SU	山田 幾也	Rattling in the Quadruple Perovskite $\text{CuCu}_3\text{V}_4\text{O}_{12}$
			2013A1188	BL01B1	山田 幾也	
			2013A1689	BL27SU	藤田 晃司	
			2013A1691	BL01B1	藤田 晃司	
			2014B1135	BL02B2	藤田 晃司	

## Chemical Communications

29262	Rajesh Kodiyath	50 (2014) 15553-15556	2012B4609	BL15XU	阿部 英樹	Visible-Light Photodecomposition of Acetaldehyde by $\text{TiO}_2$ -coated Gold Nanocages: Plasmon-Mediated Hot Electron Transport <i>via</i> Defect States
			2013A4600	BL15XU	阿部 英樹	
			2014A4603	BL15XU	阿部 英樹	
29287	Sooyeon Kim	51 (2015) 11580-11583	2014A1252	BL38B1	久木 一朗	The Unprecedented J-aggregate Formation of Rhodamine Moieties Induced by 9-phenylanthracenyl Substitution
29487	Megumi Mukoyoshi	51 (2015) 12463-12466	2012B1518	BL02B2	北川 宏	Hybrid Materials of Ni NP@MOF Prepared by a Simple Synthetic Method
29615	Zhendong Liu	51 (2015) 12567-12570	2014A1174	BL04B2	小原 真司	A Top-Down Methodology for Ultrafast Tuning of Nanosized Zeolites
			2012A1278	BL04B2	脇原 徹	
			2014A1893	BL04B2	小原 真司	
			2014B1144	BL04B2	小原 真司	
			2014B2035	BL04B2	小原 真司	
2015A0115	BL04B2	脇原 徹				

## Inorganic Chemistry

29104	Yahua Yuan	54 (2015) 3422-3431	2013B4503	BL15XU	山浦 一成	High-Pressure Synthesis, Crystal Structures, and Magnetic Properties of 5d Double-Perovskite Oxides $\text{Ca}_3\text{MgOsO}_6$ and $\text{Sr}_2\text{MgOsO}_6$
			2014A4504	BL15XU	辻本 吉廣	
29173	Hikaru Nagatani	54 (2015) 1698-1704	2013A4910	BL15XU	小俣 孝久	Structural and Thermal Properties of Ternary Narrow-Gap Oxide Semiconductor; Wurtzite-Derived $\beta\text{-CuGaO}_2$
29520	Minoru Mitsumi	53 (2014) 11710-11720	2006B0095	BL02B1	小澤 芳樹	Multifunctional One-Dimensional Rhodium(I)-Semiquinonato Complex: Substituent Effects on Crystal Structures and Solid-State Properties
			2012A1161	BL40XU	安田 伸広	
29521	Yoji Horii	54 (2015) 3297-3305	2012B1109	BL02B1	安田 伸広	Effects of f-f Interactions on the Single-Molecule Magnet Properties of Terbium(III)-Phthalocyaninato Quintuple-Decker Complexes

## Physics of the Earth and Planetary Interiors

29249	Eiji Ito	228 (2014) 170-175	2012A1436	BL04B1	伊藤 英司	High Pressure Study of Transition Metal Monoxides MnO and CoO: Structure and Electrical Resistance
29324	Masayuki Nishi	245 (2015) 52-58	2014B0082	BL04B1	入船 徹男	Phase Transitions of Serpentine in the Lower Mantle
			2014A0082	BL04B1	入船 徹男	
			2013B0082	BL04B1	入船 徹男	
29349	Tomohiro Ohuchi	243 (2015) 1-21	2014B0082	BL04B1	入船 徹男	In Situ Observation of Crystallographic Preferred Orientation of Deforming Olivine at High Pressure and High Temperature
			2014A0082	BL04B1	入船 徹男	
			2013B0082	BL04B1	入船 徹男	
29531	Takeshi Arimoto	246 (2015) 1-8	2014A0082	BL04B1	入船 徹男	Sound Velocities of $\text{Fe}_3\text{Al}_2\text{Si}_2\text{O}_{12}$ Almandine up to 19 GPa and 1700 K
			2013B0082	BL04B1	入船 徹男	
			2013A0082	BL04B1	入船 徹男	

## Polymer-1

29093	Kazuya Matsui	70 (2015) 315-325	2011B7259	BL03XU	濱松 浩	Macroscopically Homogeneous Deformation in Injection Molded Polypropylene Induced by Annealing Studied with Microbeam X-ray Scattering
			2013B7258	BL03XU	濱松 浩	
29094	Kazuya Matsui	70 (2015) 215-221	2013A7209	BL03XU	濱松 浩	Microscopic Deformation Behavior of Hard Elastic Polypropylene during Cold-Stretching Process in Fabrication of Microporous Membrane as Revealed by Synchrotron X-ray Scattering

**Polymer-2**

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
29149	Takamichi Shinohara	69 (2015) 10-16	2012A1298	BL13XU	高原 淳	Molecular Aggregation States and Wetting Behavior of a Poly{2-(perfluorooctyl)ethyl acrylate} Brush-Immobilized Nano-Imprinted Surface
			2012B1219	BL13XU	高原 淳	
			2012A7213	BL03XU	岡本 泰志	
			2012B7263	BL03XU	岡本 泰志	
29608	Maho Nakajima	66 (2015) 160-166	2013B1652	BL45XU	中嶋 真帆	Nano-Structured Micelle Particles of Polylactide-Poly(oxyethylene) Block Copolymers with Different Block Sequences: Specific Influence of Stereocomplex Formation of the Polylactide Blocks

**軽金属 (Journal of Japan Institute of Light Metals)**

29334	Akihide Hosokawa	64 (2014) 611-612	2013B1027	BL20XU	戸田 裕之	Image-Based Finite Element Analysis for Reverse 4D Materials Engineering: Ductile Fracture Originated from Hydrogen Pores
29335	Osamu Kuwazuru	64 (2014) 570-575	2012A1205	BL20XU	戸田 裕之	Three-Dimensional Crack Initiation Behavior of Cast Aluminum Alloy under Low-Cycle Fatigue
			2012B1013	BL20XU	戸田 裕之	
			2013A1181	BL20XU	生貝 初	
			2013A1537	BL20XU	戸田 裕之	
			2013B1027	BL20XU	戸田 裕之	
29336	Aya Kouno	64 (2014) 557-563	2008A1498	BL20XU	小林 正和	Simulation of Deformation Texture Evolution in Aluminum Alloy Based on Local Strain Obtained by Synchrotron 3D Measurements
			2009A1554	BL20XU	小林 正和	
			2011B1116	BL20XU	戸田 裕之	
			2012A1205	BL20XU	戸田 裕之	
			2012B1013	BL20XU	戸田 裕之	
			2013A1181	BL20XU	生貝 初	
			2013B1027	BL20XU	戸田 裕之	
29337	Hiroyuki Toda	64 (2014) 518-524	2013B1027	BL20XU	戸田 裕之	Reverse 4D Materials Engineering: Its Framework and Recent Evolution
			2013A1181	BL20XU	生貝 初	
			2012B1013	BL20XU	戸田 裕之	
			2012A1205	BL20XU	戸田 裕之	

**Bioorganic and Medicinal Chemistry Letters**

29360	Yuta Tanaka	24 (2014) 4001-4005	2013A1216	BL38B1	大山 拓次	Molecular Dynamics Study-Guided Identification of Cyclic Amine Structures as Novel Hydrophobic Tail Components of hPPAR $\gamma$ Agonists
			2013B1246	BL38B1	大山 拓次	
29362	Masao Ohashi	25 (2015) 2639-2644	2014A1364	BL38B1	大山 拓次	Different Structures of the Two Peroxisome Proliferator-Activated Receptor Gamma (PPAR $\gamma$ ) Ligand-Binding Domains in Homodimeric Complex with Partial Agonist, but not Full Agonist
29363	Masao Ohashi	25 (2015) 2758-2762	2014B1169	BL38B1	大山 拓次	Peroxisome Proliferator-Activated Receptor Gamma (PPAR $\gamma$ ) has Multiple Binding Points that Accommodate Ligands in Various Conformations: Structurally Similar PPAR $\gamma$ Partial Agonists Bind PPAR $\gamma$ LBD in Different Conformations

**Journal of Applied Physics**

29407	Tomoaki Yamada	118 (2015) 072012	2011A1550	BL13XU	山田 智明	Negligible Substrate Clamping Effect on Piezoelectric Response in (111)-Epitaxial Tetragonal Pb(Zr, Ti)O $_3$ Films
			2012A1491	BL13XU	山田 智明	
			2012B4906	BL15XU	山田 智明	
			2013B4908	BL15XU	山田 智明	
			2014A4908	BL15XU	山田 智明	
29498	Junichi Ikeuchi	118 (2015) 085308	2011B4904	BL15XU	池内 淳一	Electronic Structure of the Polymer-Cathode Interface of an Organic Electroluminescent Device Investigated using Operando Hard X-ray Photoelectron Spectroscopy
			2010A1780	BL46XU	築嶋 裕之	
			2010B1828	BL46XU	池内 淳一	
			2010B1658	BL46XU	池内 淳一	
29705	Jung Chun Huang	103 (2008) 07D128	2007B4135	BL12B2	Lee Chih Hao	Study of the Local Environment Diversity between Co- and Mn-doped ZnO Single Crystal Film by Multilayer Growth Technique

**Journal of Catalysis-1**

29288	Wan-Ting Chen	326 (2015) 43-53	2014B1065	BL01B1	Waterhouse Geoffrey	Ni/TiO $_2$ : A Promising Low-Cost Photocatalytic System for Solar H $_2$ Production from Ethanol-Water Mixtures
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## Journal of Catalysis-2

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
29289	Zakiya Al-Azri	329 (2015) 355-367	2014B1065	BL01B1	Waterhouse Geoffrey	The Roles of Metal Co-catalysts and Reaction Media in Photocatalytic Hydrogen Production: Performance Evaluation of M/TiO <sub>2</sub> Photocatalysts (M = Pd, Pt, Au) in Different Alcohol-Water Mixtures
29290	Wan-Ting Chen	329 (2015) 499-513	2014B1065	BL01B1	Waterhouse Geoffrey	Effect of TiO <sub>2</sub> Polymorph and Alcohol Sacrificial Agent on the Activity of Au/TiO <sub>2</sub> Photocatalysts for H <sub>2</sub> Production in Alcohol-Water Mixtures

## Journal of the American Chemical Society

29473	Takuya Terai	137 (2015) 10464-10467	2012A1370	BL38B1	杉山 成	Artificial Ligands of Streptavidin (ALiS): Discovery, Characterization, and Application for Reversible Control of Intracellular Protein Transport
			2012B6724	BL44XU	杉山 成	
			2012B1295	BL38B1	杉山 成	
			2013A6827	BL44XU	杉山 成	
29523	Kousuke Ono	137 (2015) 7015-7018	2013A1052	BL40XU	安田 伸広	Self-Assembly of Nanometer-Sized Boroxine Cages from Diboronic Acids
			2014A1016	BL02B1	植草 秀裕	
			2014B1004	BL02B1	植草 秀裕	
29550	Jared Taylor	137 (2015) 11498-11506	2014A1425	BL02B2	北川 宏	The Role of a Three Dimensionally Ordered Defect Sublattice on the Acidity of a Sulfonated Metal-Organic Framework

## Materials Transactions

29079	Shinya Hosokawa	56 (2015) 914-916	2014A1059	BL35XU	細川 伸也	Microscopic Elastic Properties of Polycrystalline Mg <sub>85</sub> Zn <sub>6</sub> Y <sub>9</sub> Alloy with Long-Period Stacking Ordered 18R Phase Investigated by Inelastic X-ray Scattering
			2014B1159	BL35XU	細川 伸也	
29317	Masafumi Matsushita	56 (2015) 910-913	2012B3622	BL14B1	松下 正史	Phase Relations among D0 <sub>3</sub> , α-Mg, and Long-Period Stacking Orders in Mg <sub>85</sub> Zn <sub>6</sub> Y <sub>9</sub> Alloy under 3 GPa
			2013A3616	BL14B1	松下 正史	
			2012B1334	BL04B1	松下 正史	
29326	Hui Li	56 (2015) 424-428	2011B1116	BL20XU	戸田 裕之	Application of Diffraction-Amalgamated Grain Boundary Tracking to Fatigue Crack Propagation Behavior in High Strength Aluminum Alloy

## Physical Chemistry Chemical Physics

29121	Hiroimitsu Maeda	13 (2011) 3843-3850	2009B1593	BL40B2	前田 大光	Water-Supported Organized Structures Based on Wedge-Shaped Amphiphilic Derivatives of Dipyrrolyldiketone Boron Complexes
29263	Hideki Abe	17 (2015) 4879-4887	2009B4608	BL15XU	阿部 英樹	Correlation between the Surface Electronic Structure and CO-oxidation Activity of Pt Alloys
			2010A4609	BL15XU	阿部 英樹	
			2010B4609	BL15XU	阿部 英樹	
			2011A4600	BL15XU	阿部 英樹	
29322	Kenta Fujii	17 (2015) 17838-17843	2012B1502	BL04B2	藤井 健太	Relationship between Low-Q Peak and Long-Range Ordering of Ionic Liquids Revealed by High-Energy X-ray Total Scattering
			2013B1375	BL04B2	藤井 健太	
			2012B1709	BL04B2	土井 寛之	

## ACS Applied Materials &amp; Interfaces

29261	Gubbala V. Ramesh	6 (2014) 16124-16130	2012B4609	BL15XU	阿部 英樹	Stimulation of Electro-oxidation Catalysis by Bulk-Structural Transformation in Intermetallic ZrPt <sub>3</sub> Nanoparticles
			2013A4600	BL15XU	阿部 英樹	
			2013B4602	BL15XU	阿部 英樹	
29518	Zhiping Wang	7 (2015) 10814-10822	2014A1507	BL46XU	宮寺 哲彦	Understanding Device-Structure-Induced Variations in Open-Circuit Voltage for Organic Photovoltaics
			2014B1614	BL46XU	宮寺 哲彦	

## Acta Crystallographica Section A

29282	Po-Yu Liao	71 (2015) 460-466	2013A4129	BL12B2	Chang Shih Lin	Temperature- and Energy-Dependent Phase Shifts of Resonant Multiple-Beam X-ray Diffraction in Germanium Crystals
			2013A4136	BL12B2	Chang Shih Lin	
			2013B4131	BL12B2	Chang Shih Lin	
			2014A4128	BL12B2	Chang Shih Lin	
			2014B4126	BL12B2	Chang Shih Lin	
29702	Vasily Punegov	70 (2014) 64-71	2012B1315	BL20B2	Pavlov Konstantin	Darwin's Approach to X-ray Diffraction on Lateral Crystalline Structures

**AIP Conference Proceedings**

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
29464	Masanori Inui	1673 (2015) 020002	2011A1154	BL35XU	乾 雅祝	Inelastic X-ray Scattering Studies on Dynamic Structure Factor of Polymeric Liquid Se under Pressure
			2011B1316	BL28B2	乾 雅祝	
			2012B1340	BL04B2	乾 雅祝	
29486	Kazuhiro Matsuda	1673 (2015) 020004	2011B1195	BL08W	松田 和博	X-ray Compton Scattering Experiments for Fluid Alkali Metals at High Temperatures and Pressures
			2012A1195	BL08W	松田 和博	
			2012B1522	BL08W	松田 和博	

**ChemCatChem**

29316	Kazuki Fukumoto	6 (2014) 1229-1235	2012B6745	BL44XU	溝端 栄一	Rhodium-Complex-Linked Hybrid Biocatalyst: Stereo-Controlled Phenylacetylene Polymerization within an Engineered Protein Cavity
29330	Hemant Choudhary	7 (2015) 2361-2369	2013B1478	BL01B1	穴戸 哲也	Hydrothermal Preparation of a Robust Boehmite-Supported <i>N,N</i> -Dimethyldodecylamine <i>N</i> -Oxide-Capped Cobalt and Palladium Catalyst for the Facile Utilization of Formic Acid as a Hydrogen Source
			2014B1472	BL01B1	西村 俊	

**Chemistry Letters**

29365	Takahiro Kono	44 (2015) 958-960	2013A1629	BL46XU	吉田 郵司	Synthesis of Novel Push-Pull Chromophores Based on <i>N</i> -Ethylcarbazole for Vacuum Deposition Processed Organic Photovoltaics
			2013A1781	BL46XU	吉田 郵司	
29629	Takashi Nakamura	44 (2015) 755-757	2014A1305	BL01B1	中村 考志	Stability of Copper Nitride Nanoparticles under High Humidity and in Solutions with Different Acidity

**Dalton Transactions**

29102	Wei Yi	44 (2015) 10785-10794	2014A4504	BL15XU	辻本 吉廣	High-Pressure Synthesis, Crystal Structure and Magnetic Properties of $\text{TiCrO}_3$ Perovskite
29499	Takahiro Ito	44 (2015) 15334-15342	2014B1428	BL02B2	坂本 裕俊	Porous Frameworks Constructed by Non-Covalent Linking of Substitution-Inert Metal Complexes
			2015A1490	BL02B2	坂本 裕俊	

**FEBS Letters**

29561	Akito Kawai	589 (2015) 2675-2682	2007B6927	BL44XU	宮本 秀一	Crystal Structure of Family 4 Uracil-DNA Glycosylase from <i>Sulfolobus tokodaii</i> and a Function of Tyrosine 170 in DNA Binding
29706	Maho Morita	589 (2015) 1406-1411	2014A0049	BL41XU	豊島 近	Biselyngbyasides, Cytotoxic Marine Macrolides, are Novel and Potent Inhibitors of the $\text{Ca}^{2+}$ Pumps with a Unique Mode of Binding

**ISIJ International**

29252	Shigeo Sato	55 (2015) 1432-1438	2013A3785	BL22XU	佐藤 成男	Distribution and Anisotropy of Dislocations in Cold-drawn Pearlitic Steel Wires Analyzed Using Micro-beam X-ray Diffraction
29268	Masayoshi Kumagai	55 (2015) 1489-1495	2012A1062	BL28B2	佐藤 成男	Residual Stress Analysis of Cold-drawn Pearlite Steel Wire Using White Synchrotron Radiation

**Journal of Applied Crystallography**

29389	Yujiro Hayashi	48 (2015) 1094-1101	2010A7002	BL33XU	林 雄二郎	Polycrystal Orientation Mapping using Scanning Three-Dimensional X-ray Diffraction Microscopy
			2010B1008	BL37XU	林 雄二郎	
			2010B7002	BL33XU	林 雄二郎	
			2011B7002	BL33XU	林 雄二郎	
			2012A7002	BL33XU	林 雄二郎	
			2012B7002	BL33XU	林 雄二郎	
29576	Tsukasa Miyazaki	48 (2015) 1016-1022	2013A7216	BL03XU	宮崎 司	System for <i>in situ</i> Observation of Three-Dimensional Structural Changes in Polymer Films during Uniaxial Deformation
			2013B7264	BL03XU	宮崎 司	

**The Journal of Biochemistry**

29315	Tatsuya Kawano	157 (2015) 467-475	2011B1595	BL38B1	溝端 栄一	Structure-Based Design of a Streptavidin Mutant Specific for an Artificial Biotin Analogue
29354	Marie Amano	157 (2015) 549-559	2010A1814	BL38B1	今田 勝巳	Recombinant Expression, Molecular Characterization and Crystal Structure of Antitumor Enzyme, L-lysine $\alpha$ -oxidase from <i>Trichoderma viride</i>



## The Journal of Biological Chemistry

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
29685	Yukie Maruyama	290 (2015) 6281-6292	2010B1149	BL38B1	橋本 渉	Metabolic Fate of Unsaturated Glucuronic/Iduronic Acids from Glycosaminoglycans: Molecular Identification and Structure Determination of Streptococcal Isomerase and Dehydrogenase
			2011A1186	BL38B1	橋本 渉	
			2011B2055	BL41XU	橋本 渉	
29686	Ryuuichi Takase	289 (2014) 33198-33214	2011A1186	BL38B1	橋本 渉	Structure-based Conversion of the Coenzyme Requirement of a Short-chain Dehydrogenase/Reductase Involved in Bacterial Alginate Metabolism
			2011B2055	BL41XU	橋本 渉	
			2012B1265	BL38B1	橋本 渉	
			2013A1106	BL38B1	橋本 渉	

## Journal of Materials Chemistry A

29265	Noelia M. Sanchez-Ballester	3 (2015) 6614-6619	2013B4602	BL15XU	阿部 英樹	Activated Interiors of Clay Nanotubes for Agglomeration-Tolerant Automotive Exhaust Remediation
29692	Kousuke Beppu	3 (2015) 13540-13545	2014A1377	BL01B1	細川 三郎	Oxygen Storage Capacity of Sr <sub>3</sub> Fe <sub>2</sub> O <sub>7-δ</sub> Having High Structural Stability

## The Journal of Physical Chemistry C

29090	Hideki Tanaka	119 (2015) 11533-11543	2014A1317	BL02B2	近藤 篤	Modeling and Visualization of CO <sub>2</sub> Adsorption on Elastic Layer-Structured Metal-Organic Framework-11: Toward a Better Understanding of Gate Adsorption Behavior
29472	Masaaki Yoshida	119 (2015) 19279-19286	2014A1058	BL01B1	吉田 真明	Direct Observation of Active Nickel Oxide Cluster in Nickel-Borate Electrocatalyst for Water Oxidation by In Situ O K-Edge X-ray Absorption Spectroscopy
			2015A1138	BL01B1	吉田 真明	

## Journal of the Korean Physical Society

29512	Eri Tanaka	66 (2015) 1355-1358	2014A1323	BL02B1	森 茂生	Structural Changes and Microstructures of Ba <sub>1-x</sub> Sr <sub>x</sub> Al <sub>2</sub> O <sub>4</sub> for 0 < x < 0.4
			2015A1507	BL02B1	森 茂生	
29654	Chisato Temba	66 (2015) 1386-1388	2013B1453	BL39XU	中島 伸夫	X-ray Absorption Study of the Local Dipole Moment in SrTiO <sub>3</sub> under Uniaxial Pressure

## Journal of the Physical Society of Japan

29106	Shinjiro Amasaki	84 (2015) 064704	2007A1380	BL39XU	細糸 信好	Induced Spin Polarization in the Au Layers of Fe/Au Multilayer in an Antiparallel Alignment State of Fe Magnetizations by Resonant X-ray Magnetic Scattering at the Au L <sub>3</sub> Absorption Edge
29485	Koji Kimura	84 (2015) 084701	2011B4257	BL12XU	松田 和博	Inelastic X-ray Scattering Study on Plasmon Dispersion in Liquid Cs
			2012B4261	BL12XU	松田 和博	
			2013A4259	BL12XU	松田 和博	

## JPS Conference Proceedings

29656	Shinya Hosokawa	8 (2015) 031002	2014A1060	BL13XU	細川 伸也	A Combination of Anomalous X-ray Scattering and Neutron Diffraction for Structural Characterizations of Zr <sub>45</sub> Cu <sub>45</sub> Ag <sub>10</sub> Metallic Glass
29661	Kozo Furuta	8 (2015) 031004	2013B1411	BL04B2	森 一広	Local Structure of Lithium Ion Conducting Germanium Sulfide Glass: (Li <sub>2</sub> S) <sub>40</sub> (GeS <sub>2</sub> ) <sub>60</sub>

## Optics Express

29370	Amane Kobayashi	22 (2014) 27892-27909	2013A8043	BL3	中迫 雅由	Dark-Field Phase Retrieval under the Constraint of the Friedel Symmetry in Coherent X-ray Diffraction Imaging
			2013B8049	BL3	中迫 雅由	
			2014A8033	BL3	中迫 雅由	
29701	Thomas Baillie	20 (2012) 16913-16925	2011A1268	BL20B2	Pavlov Konstantin	Phase-contrast X-ray Tomography using Teague's Method

## Physics and Chemistry of Minerals

29291	Lijin Ye	42 (2015) 569-577	2013B1257	BL04B1	Zhai Shuangmeng	Compressibilities of MnFe <sub>2</sub> O <sub>4</sub> Polymorphs
			2014A1736	BL04B1	Zhai Shuangmeng	
29542	Zhaodong Liu	42 (2015) 213-222	2013A0082	BL04B1	入船 徹男	Elastic Wave Velocity of Polycrystalline Mj <sub>80</sub> Py <sub>20</sub> Garnet to 21 GPa and 2,000 K
			2012B0082	BL04B1	入船 徹男	

**Review of Scientific Instruments**

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
29144	Tatsuhiko Naka	86 (2015) 073701	2013A1391	BL37XU	中 竜大	Analysis System of Submicron Particle Tracks in the Fine-Grained Nuclear Emulsion by a Combination of Hard X-ray and Optical Microscopy
			2013B1461	BL37XU	中 竜大	
			2014A1352	BL37XU	中 竜大	
			2014B1415	BL37XU	中 竜大	
29344	Shingo Yamamoto	86 (2015) 083901	2012B1480	BL47XU	田原 譲	Ultrafast Spin-Switching of a Ferrimagnetic Alloy at Room Temperature Traced by Resonant Magneto-Optical Kerr Effect Using a Seeded Free Electron Laser
			2013B7453	BL07LSU	和達 大樹	
			2014A7401	BL07LSU	松田 巖	
			2014A7461	BL07LSU	和達 大樹	

**RSC Advances**

29468	Hongqiang Ma	5 (2015) 71890-71895	2015A1137	BL02B2	Xing Xianran	Structure and Oxide Ion Conductivity in Tetragonal Tungsten Bronze BaBiNb <sub>5</sub> O <sub>15</sub>
29558	Hongqiang Ma	5 (2015) 76957-76962	2015A1137	BL02B2	Xing Xianran	Structure and Electrical Properties of Tetragonal Tungsten Bronze Ba <sub>2</sub> CeFeNb <sub>4</sub> O <sub>15</sub>

**Science**

29280	Jun Abe	349 (2015) 312-316	2009A6902	BL44XU	秋山 修志	Atomic-Scale Origins of Slowness in the Cyanobacterial Circadian Clock
			2009B6902	BL44XU	秋山 修志	
			2010A6502	BL44XU	秋山 修志	
			2010B6502	BL44XU	秋山 修志	
			2011A6602	BL44XU	秋山 修志	
			2011B6602	BL44XU	秋山 修志	
			2012A6702	BL44XU	秋山 修志	
			2012B6702	BL44XU	秋山 修志	
29603	Xiaochun Qin	348 (2015) 989-995	2013B6700	BL44XU	大野 美恵	Structural Basis for Energy Transfer Pathways in the Plant PSI-LHCI Supercomplex
			2014B1281	BL41XU	沈 建仁	
			2014A1243	BL41XU	沈 建仁	
			2015A1108	PX-BL	沈 建仁	
			2015A6522	BL44XU	菅 倫寛	
			2013B6826	BL44XU	菅 倫寛	
			2013A6826	BL44XU	菅 倫寛	
2014A6927	BL44XU	菅 倫寛				
			2014B6927	BL44XU	菅 倫寛	

**Science and Technology of Advanced Materials**

29101	Yahua Yuan	15 (2014) 064901	2013A4504	BL15XU	山浦 一成	High-Pressure Synthesis, Crystal Structure, and Magnetic Properties of KSbO <sub>3</sub> -type 5d Oxides K <sub>0.84</sub> OsO <sub>3</sub> and Bi <sub>2.93</sub> Os <sub>3</sub> O <sub>11</sub>
			2013B4503	BL15XU	山浦 一成	
29103	Wei Yi	16 (2015) 024801	2012A4507	BL15XU	Belik Alexei	Structure and Cation Distribution in Perovskites with Small Cations at the A Site: the Case of ScCoO <sub>3</sub>
			2013B4503	BL15XU	山浦 一成	

**Solid State Ionics**

29295	Yasushi Idemoto	279 (2015) 6-10	2011A1853	BL19B2	井手本 康	Crystal and Electronic Structures, Thermodynamic Stability, and Cathode Performance of Li(Ni, Co, M)O <sub>2</sub> (M = Cu, Zn)
29510	Kazuhiro Mori	280 (2015) 44-50	2013B1411	BL04B2	森 一広	Three-Dimensional Structures and Lithium-Ion Conduction Pathways of (Li <sub>2</sub> S) <sub>x</sub> (GeS <sub>2</sub> ) <sub>100-x</sub> Superionic Glasses

**高圧力の科学と技術 (The Review of High Pressure Science and Technology)**

29325	Masayuki Nishi	24 (2013) 136-144	2008A1716	BL04B1	西 真之	Metastable Phase Relations in the Mantle Transition Region
			2007B1680	BL04B1	西 真之	
29548	Tetsuo Irifune	21 (2011) 278-284	2009B1707	BL04B1	國本 健広	Synthesis of Nano-Polycrystalline Diamond(NPD) and Its Application to Ultrahigh-Pressure Studies

**鑄造工学 (Journal of Japanese Foundry Engineering 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
29358	Tomoya Nagira	87 (2015) 552-560	2009A0014	BL20B2	安田 秀幸	In Situ Observation of Cracking Formation Induced by Deformation in Semi-solid Al-Cu Alloys
			2009B0014	BL20B2	安田 秀幸	
			2010A1420	BL20B2	柳楽 知也	
			2011A1209	BL20B2	Gourlay Christopher	
			2011B1096	BL20XU	柳楽 知也	
			2012A1109	BL20XU	柳楽 知也	
			2012B1173	BL20XU	柳楽 知也	
			2013B1242	BL20XU	柳楽 知也	
			2014B1090	BL20XU	柳楽 知也	
2015A1318	BL20XU	柳楽 知也				
29670	Kazuyuki Shimizu	86 (2014) 19-25	2012A1176	BL20XU	Buffiere Jean Yves	Fatigue Behaviour Analysis of Spheroidal Graphite Iron Via High Resolution 4D Imaging

**2015 Joint IEEE International Symposium on the Applications of Ferroelectric, International Symposium on Integrated Functionalities and Piezoelectric Force Microscopy Workshop (ISAF/ISIF/PFM)**

29534	Daisuke Ito	(2015) 175-177	2012B4906	BL15XU	山田 智明	Fabrication of Tetragonal Pb(Zr,Ti)O <sub>3</sub> Nanorods by Focused Ion Beam and Characterization of the Domain Structure
			2012B1554	BL13XU	山田 智明	
			2013A4904	BL15XU	山田 智明	
			2013A1525	BL13XU	山田 智明	
			2013B4908	BL15XU	山田 智明	
			2014A4908	BL15XU	山田 智明	
			2014B4908	BL15XU	山田 智明	

**ACS Catalysis**

29589	Yuki Nagao	5 (2015) 1986-1994	2013A1344	BL14B2	永尾 有希	Rh/ZrP <sub>2</sub> O <sub>7</sub> as an Efficient Automotive Catalyst for NO <sub>x</sub> Reduction under Slightly Lean Conditions
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**ACS NANO**

29707	Koki Urita	8 (2014) 3614-3619	2012B1780	BL02B2	瓜田 幸幾	Enhanced Electric Double-Layer Capacitance by Desolvation of Lithium Ions in Confined Nanospaces of Microporous Carbon
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**Advanced Electronic Materials**

29455	Young Yong Kim	1 (2015) 201500197	2013B1171	BL40B2	高原 淳	High-Performance n-Type Electrical Memory and Morphology-Induced Memory-Mode Tuning of a Well-Defined Brush Polymer Bearing Perylene Diimide Moieties
			2014A1228	BL02B2	高原 淳	
			2014A1222	BL40B2	高原 淳	

**Advanced Materials**

29148	Gregory A. Williams	27 (2015) 3934-3941	2013B1529	BL19B2	高原 淳	Mechanically Robust and Self-Healable Superlattice Nanocomposites by Self-Assembly of Single-Component "Sticky" Polymer-Grafted Nanoparticles
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**Advanced Materials Interfaces**

29140	Yoichi Ishiwata	2 (2015) 201570057	2011B4126	BL12B2	石渡 洋一	Impurity-Induced First-Order Phase Transitions in Highly Crystalline V <sub>2</sub> O <sub>3</sub> Nanocrystals
			2011B4134	BL12B2	石渡 洋一	
			2012A4135	BL12B2	石渡 洋一	
			2012B4134	BL12B2	石渡 洋一	
			2013A4125	BL12B2	石渡 洋一	
			2013B4134	BL12B2	石渡 洋一	
			2014A4138	BL12B2	石渡 洋一	

**AIP Advances**

29627	Takuto Kojima	5 (2015) 097140	2012A1490	BL37XU	大下 祥雄	Annealing Effects on Recombinative Activity of Nickel at Direct Silicon Bonded Interface
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**AMTC Letters**

29650	Yoshihiro Sugawara	4 (2014) 178-179	2009B3322	BL08B2	山口 聡	Characterization of Dissociated Threading Edge Dislocation Formed in 4H-SiC by Transmission Electron Microscopy
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### Applied Surface Science

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
29366	Yosei Shibata	355 (2015) 1261-1266	2013A1629	BL46XU	吉田 郵司	Morphological Analysis of Co-evaporated Blend Films Based on Initial Growth for Organic Photovoltaics
			2013A1781	BL46XU	吉田 郵司	

### Biochemistry

29197	Hsin-Hui Wu	51 (2012) 575-577	2012A4002	BL12B2	Tsai MingDaw	Structural Delineation of MDC1-FHA Domain Binding with CHK2-pThr68
			2012A4015	BL12B2	Tsai MingDaw	

### Bioengineered

29688	Wataru Hashimoto	6 (2015) 141-148	2007B1268	BL38B1	橋本 涉	Structural Studies on Laz, a Promiscuous Anticancer Neisserial Protein
			2013B1260	BL38B1	橋本 涉	

### Bioscience, Biotechnology, and Biochemistry

29203	Kotaro Suematsu	79 (2015) 952-959	2012A6718	BL44XU	木村 誠	On Archaeal Homologs of the Human RNase P Proteins Pop5 and Rpp30 in the Hyperthermophilic Archaeon <i>Thermococcus kodakarensis</i>
			2012B6718	BL44XU	木村 誠	
			2013A6819	BL44XU	木村 誠	
			2014A6921	BL44XU	木村 誠	

### Bone

29660	Narihiro Okazaki	64 (2014) 82-87	2012A1356	BL20B2	千葉 恒	Trabecular Microfractures in the Femoral Head with Osteoporosis: Analysis of Microcallus Formations by Synchrotron Radiation Micro CT
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### Carbohydrate Polymers

29283	Kayoko Kobayashi	97 (2013) 105-110	2011A1535	BL40B2	和田 昌久	Crystal Transition between Hydrate and Anhydrous (1 → 3)-β-D-xylan from <i>Penicillium dumetosus</i>
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### Carbohydrate Research

29687	Kanate Temtrirath	404 (2015) 39-45	2012B1265	BL38B1	橋本 涉	Structural Insights into Alginate Binding by Bacterial Cell-Surface Protein
			2013A1106	BL38B1	橋本 涉	

### Cardiovascular Diabetology

29271	Mark Waddingham	14 (2015) 92	2012B1469	BL40XU	Pearson James	Chronic Rho-kinase Inhibition Improves Left Ventricular Contractile Dysfunction in Early Type-1 Diabetes by Increasing Myosin Cross-Bridge Extension
			2013B1759	BL40XU	Pearson James	

### Catalysis Letters

29141	Satoshi Kameoka	145 (2015) 1457-1463	2012A4500	BL15XU	許 亜	A Composite Catalyst with a Lamellar Fe <sub>3</sub> O <sub>4</sub> /Pt/Fe <sub>3</sub> O <sub>4</sub> Structure and Complementary Dual Catalytic Functions
			2012B4502	BL15XU	許 亜	
			2013A4902	BL15XU	亀岡 聡	
			2013A4900	BL15XU	亀岡 聡	

### Catalysis Today

29145	Masatomo Yashima	253 (2015) 3-19	2010B1788	BL02B2	伊藤 孝憲	Some Recent Developments in the Atomic-Scale Characterization of Structural and Transport Properties of Ceria-Based Catalysts and Ionic Conductors
			2011B1995	BL02B2	八島 正知	
			2012A1415	BL02B2	八島 正知	
			2011A1442	BL02B2	八島 正知	

### Chemical Physics Letters

29387	Stephan Thuermer	636 (2015) 129-133	2012A1374	BL02B2	加納 博文	Pore-Size Dependent Effects on Structure and Vibrations of 1-ethyl-3-Methylimidazolium Tetrafluoroborate in Nanoporous Carbon
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### Chemistry - An Asian Journal

29626	Hiroyuki Yokoyama	10 (2015) 2292-2295	2012B0039	BL38B1	藤田 誠	Finely Resolved Threshold for the Sharp M <sub>12</sub> L <sub>24</sub> /M <sub>24</sub> L <sub>48</sub> Structural Switch in Multi-Component M <sub>n</sub> L <sub>2n</sub> Polyhedral Assemblies: X-ray, MS, NMR, and Ultracentrifugation Analyses
			2013A0039	BL38B1	藤田 誠	

### Chemistry of 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
29604	Takashi Takeda	27 (2015) 5892-5898	2014B1075	BL37XU	武田 隆史	Narrow-Band Green-Emitting Phosphor Ba <sub>2</sub> LiSi <sub>7</sub> AlN <sub>12</sub> :Eu <sup>2+</sup> with High Thermal Stability Discovered by a Single Particle Diagnosis Approach

### ChemNanoMat

29614	Takayuki Iida	1 (2015) 155-158	2014B1144	BL04B2	小原 真司	Sn-Beta Zeolite Catalysts with High Sn Contents Prepared from Sn-Si Mixed Oxide Composites
			2014A1071	BL04B2	脇原 徹	
			2014A1174	BL04B2	小原 真司	
			2014A1893	BL04B2	小原 真司	
			2014B2035	BL04B2	小原 真司	

### ChemSusChem

29107	Tuteja Jaya	8 (2015) 1862-1866	2014B1472	BL01B1	西村 俊	Selective Oxidation of 1,6-Hexanediol to 6-Hydroxycaproic Acid over Reusable Hydrotalcite-Supported Au-Pd Bimetallic Catalysts
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### Colloids and Surfaces A: Physicochemical and Engineering Aspects

29260	Shinya Hiraki	482 (2015) 454-463	2012A1203	BL37XU	瀧上 隆智	Adsorbed Film of <i>n</i> -tetradecylphosphocholine at the Tetradecane/Water Interface Studied by Interfacial Tensiometry and X-ray Reflection
			2012B1154	BL37XU	瀧上 隆智	

### ECS Transactions

29444	Akio Ohta	64 (2014) 241-248	2014A0109	BL47XU	宮崎 誠一	Characterization of Chemical Bonding Features and Interfacial Reactions in Ge-MIS Structure with HfO <sub>2</sub> /TaGe <sub>x</sub> O <sub>y</sub> Dielectric Stack
			2013A1696	BL47XU	野平 博司	

### Electrochimica Acta

29488	Hiroyuki Koshikawa	180 (2015) 173-177	2013B1123	BL01B1	神谷 和秀	Heat-Treated 3,5-diamino-1,2,4-triazole/graphene Hybrid Functions as an Oxygen Reduction Electrocatalyst with High Activity and Stability
			2014B1252	BL01B1	神谷 和秀	
			2015A1302	BL01B1	神谷 和秀	

### Energy & Environmental Science

29264	Rajesh Kodiyath	8 (2015) 1685-1689	2012B4609	BL15XU	阿部 英樹	Promoted C-C Bond Cleavage over Intermetallic TaPt <sub>3</sub> Catalyst toward Low-Temperature Energy Extraction from Ethanol
			2013A4600	BL15XU	阿部 英樹	
			2014A4603	BL15XU	阿部 英樹	

### European Journal of Medicinal Chemistry

29361	Masao Ohashi	90 (2015) 53-67	2014A1364	BL38B1	大山 拓次	Structural Design and Synthesis of Arylalkynyl Amide-Type Peroxisome Proliferator-Activated Receptor $\gamma$ (PPAR $\gamma$ )-selective Antagonists Based on the Helix12-Folding Inhibition Hypothesis
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### Experimental Thermal and Fluid Science

29526	Seoksu Moon	68 (2015) 68-81	2013A1654	BL40XU	文 石洙	Ultrafast X-ray Study of Multi-Hole GDI Injector Sprays: Effects of Nozzle Hole Length and Number on Initial Spray Formation
			2013B1729	BL40XU	文 石洙	
			2014A1168	BL40XU	文 石洙	

### Ferroelectrics

29319	Shigeo Mori	464 (2014) 116-121	2012B1241	BL02B2	谷口 博基	Structural Phase Transition and Microstructures in Stuffed Tridymite-Type Compounds; Ba(Al, Fe) <sub>2</sub> O <sub>4</sub>
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### Geophysical Research Letters

29198	Sayuri Minobe	42 (2015) 5206-5211	2014A0080	BL10XU	廣瀬 敬	Stability and Compressibility of a New Iron-Nitride $\beta$ -Fe <sub>7</sub> N <sub>3</sub> to Core Pressures
			2014B0080	BL10XU	廣瀬 敬	
			2015A0080	BL10XU	廣瀬 敬	

### IFMBE Proceedings

29281	Mercedes Martinson	51 (2015) 166-168	2013A1591	BL20B2	Martinson Mercedes	Indirect Measurement of Average Alveolar Dimension using Dynamic Phase-Contrast Imaging
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**Inorganica Chimica Acta**

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
29525	Jianlin Han	433 (2015) 3-12	2010A1976	BL02B1	安田 伸広	Carbonyl Group Coordination Preferences in Square-Planer Ni <sup>II</sup> and Pd <sup>II</sup> Complexes of Pentadentate Ligands by Electron-Withdrawing/Donating Substituents
			2010B1489	BL40XU	安田 伸広	
			2010B1494	BL02B1	安田 伸広	

**International Journal of Pharmaceutics**

29507	Ryusuke Kajihara	495 (2015) 140-143	2014B1120	BL37XU	野口 修治	Structural Investigation of Spherical Hollow Excipient Mannit Q by X-ray Microtomography
			2013A1187	BL37XU	野口 修治	

**IOP Conference Series: Materials Science and Engineering**

29136	Arvind Prasad	84 (2015) 012014	2012B1430	BL20B2	野北 和宏	Real-Time Synchrotron X-ray Observations of Equiaxed Solidification of Aluminium Alloys and Implications for Modelling
			2014A1540	BL20B2	野北 和宏	
			2014A1541	BL20B2	野北 和宏	

**IUCrJ**

29703	Venkatesha Hathwar	2 (2015) 563-574	2014A0078	BL02B1	Iversen Bo	Quantitative Analysis of Intermolecular Interactions in Orthorhombic Rubrene
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**Journal of Alloys and Compounds**

29388	Naruki Endo	645 (2015) S61-S63	2012B3603	BL14B1	遠藤 成輝	Hydrogenation of L <sub>12</sub> -type AlNi <sub>3</sub> Alloy at High Pressure and Temperature
			2013A3603	BL14B1	遠藤 成輝	
			2013B3603	BL14B1	遠藤 成輝	

**Journal of Antimicrobial Chemotherapy**

29557	Akihiro Morinaka	70 (2015) 2779-2786	2012A1531	BL41XU	今吉 憲幸	OP0595, a New Diazabicyclooctane: Mode of Action as a Serine $\beta$ -lactamase Inhibitor, Antibiotic and $\beta$ -lactam 'Enhancer'
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**Journal of Asian Ceramic Societies**

29478	Yoshihiro Tsujimoto	3 (2015) 325-333	2012A4508	BL15XU	辻本 吉廣	Size Dependence of Structural, Magnetic, and Electrical Properties in Corundum-Type Ti <sub>2</sub> O <sub>3</sub> Nanoparticles Showing Insulator-Metal Transition
			2014A4504	BL15XU	辻本 吉廣	

**Journal of Bone Mineral Research**

29659	Ko Chiba	27 (2012) 1511-1517	2009A1866	BL20B2	千葉 恒	Relationship between Microstructure and Degree of Mineralization in Subchondral Bone of Osteoarthritis: A Synchrotron Radiation $\mu$ CT Study
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**The Journal of Chemical Physics**

29311	Shuta Tahara	143 (2015) 044509	2011B1531	BL04B2	田原 周太	Intermediate-Range Chemical Ordering of Cations in Molten RbCl-AgCl
			2010B1597	BL04B2	川北 至信	
			2011B1457	BL02B1	尾原 幸治	

**Journal of Crystal Growth**

29142	Takuo Sasaki	425 (2015) 13-15	2012A3510	BL11XU	大下 祥雄	<i>In situ</i> Three-Dimensional X-ray Reciprocal-Space Mapping of InGaAs Multilayer Structures Grown on GaAs(001) by MBE
			2012B3511	BL11XU	大下 祥雄	

**Journal of Electron Spectroscopy and Related Phenomena**

29669	Akira Yagishita	200 (2015) 247-256	2013B8022	BL3	柳下 明	Photoelectron Angular Distributions from Single Oriented Molecules: Past, Present and Future
			2014A8012	BL3	柳下 明	

**Journal of Materials Sciences and Applications**

29609	Keita Watanabe	1 (2015) 256-261	2012B1167	BL04B2	淵 真悟	High-Energy X-ray Diffraction Measurements and Luminescence Properties of Sm <sup>3+</sup> -Doped Borate Glasses
			2014B1162	BL04B2	淵 真悟	

**Journal of Nanoparticle Research**

29657	Yuji Ohkubo	15 (2013) 1597	2012A1344	BL01B1	中川 貴	Radiolytic Synthesis of Carbon-Supported PtRu Nanoparticles using High-Energy Electron Beam: Effect of pH Control on the PtRu Mixing State and the Methanol Oxidation Activity
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## Journal of Pharmaceutical Sciences

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
29357	Nobuhiro Mizuno	104 (2015) 2482-2488	2012A0084	BL02B2	久保田 佳基	Structural Basis for Polymer Packing and Solvation Properties of the Organogermanium Crystalline Polymer Propagermanium and Its Derivatives
			2012B0084	BL02B2	久保田 佳基	
			2012A1832	BL41XU	長谷川 和也	
			理研	BL44B2		

## The Journal of Physical Chemistry Letters

29348	Koji Motomura	6 (2015) 2944-2949	2012B8045	BL3	上田 潔	Charge and Nuclear Dynamics Induced by Deep Inner-Shell Multiphoton Ionization of CH <sub>3</sub> I Molecules by Intense X-ray Free-Electron Laser Pulses
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## Journal of Physics: Condensed Matter

29434	Siyuan Zhu	27 (2015) 362201	2011B4803	BL15XU	木村 昭夫	Drastic Change in Density of States upon Martensitic Phase Transition for Metamagnetic Shape Memory Alloy Ni <sub>2</sub> Mn <sub>1+x</sub> In <sub>1-x</sub>
			2012A4805	BL15XU	木村 昭夫	

## Journal of Physics: Conference Series

29086	Hitoshi Sato	592 (2015) 012016	2011B4801	BL15XU	佐藤 仁	Photoemission Study on YbZn <sub>1-x</sub> Sn <sub>x</sub> Cu <sub>4</sub>
			2012A4801	BL15XU	佐藤 仁	

## Journal of Polymer Science Part B: Polymer Physics

29285	Philip-kunio Naito	53 (2015) 1065-1069	2012B1442	BL40B2	和田 昌久	Crystal Transition from Hydrated Chitosan and Chitosan/Monocarboxylic Acid Complex to Anhydrous Chitosan Investigated by X-Ray Diffraction
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## Journal of Power Sources

29704	Chih-Wei Hu	270 (2014) 449-456	2012A4125	BL12B2	Lee Chih Hao	Real-time Investigation on the Influences of Vanadium Additives to the Structural and Chemical State Evolutions of LiFePO <sub>4</sub> for Enhancing the Electrochemical Performance of Lithium-Ion Battery
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## Journal of Solid State Chemistry

29172	Hikaru Nagatani	222 (2015) 66-70	2013A4910	BL15XU	小俣 孝久	Structure of β-AgGaO <sub>2</sub> ; Ternary I-III-VI <sub>2</sub> Oxide Semiconductor with a Wurtzite-Derived Structure
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## Journal of Structural and Functional Genomics

29343	Tatsuo Yanagisawa	16 (2015) 25-41	2014A1075	BL41XU	関根 俊一	A SelB/EF-Tu/aIF2γ-like Protein from <i>Methanosarcina mazei</i> in the GTP-bound Form Binds CysteinyI-tRNA <sup>Cys</sup>
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## Journal of the Ceramic Society of Japan

29327	Takayuki Murakami	123 (2015) 667-671	2014A1567	BL14B2	村上 隆幸	Evaluation of the Structure of Ag in Thermal Sprayed Ag-containing Hydroxyapatite Coatings
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## Journal of the Electrochemical Society

29658	Kota Suzuki	162 (2015) A7083-A7090	2010B1818	BL46XU	菅野 了次	Interfacial Analysis of Surface-Coated LiMn <sub>2</sub> O <sub>4</sub> Epitaxial Thin Film Electrode for Lithium Batteries
			2011A1375	BL37XU	菅野 了次	
			2011B3671	BL22XU	菅野 了次	
			2011B1863	BL46XU	菅野 了次	
			2012A3617	BL14B1	田村 和久	

## Macromolecules

29613	Rintaro Takahashi	48 (2015) 7222-7229	2014B1715	BL40B2	高橋 倫太郎	Intermolecular Interactions and Self-Assembly in Aqueous Solution of a Mixture of Anionic-Neutral and Cationic-Neutral Block Copolymers
			2014B1087	BL40B2	寺尾 憲	

## Materials &amp; Design

29135	Mohd Arif Anuar Mohd Salleh	82 (2015) 136-147	2013B1524	BL37XU	野北 和宏	Development of a Microwave Sintered TiO <sub>2</sub> Reinforced Sn-0.7wt%Cu-0.05wt%Ni Alloy
			2014A1360	BL37XU	安田 秀幸	

**Materials 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
29667	Sota Takagi	161 (2015) 13-16	2014B1136	BL10XU	興野 純	X-ray Diffraction Study of the Icosahedral AlCuFe Quasicrystal at Megabar Pressures

**Materials Science and Technology**

29333	Christian Schlacher	31 (2015) 516-521	2011A1291	BL20XU	Schlacher Christian	Investigation of Creep Damage in Advanced Martensitic Chromium Steel Weldments using Synchrotron X-ray Micro-Tomography and EBSD
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**Materials Science Forum**

29655	Yoshihiro Sugawara	778-780 (2014) 366-369	2009B3322	BL08B2	山口 聡	Characterization of Threading Edge Dislocation in 4H-SiC by X-ray Topography and Transmission Electron Microscopy
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**Microscopy Today**

29502	Ryuta Mizutani	23 (2015) 12-17	2008B1261	BL47XU	水谷 隆太	Scanning Brain Networks with Micro-CT
			2013B0034	BL20XU	水谷 隆太	
			2013B0041	BL47XU	水谷 隆太	
			2014B1083	BL20XU	水谷 隆太	
			2014B1096	BL20B2	水谷 隆太	
			2015A1160	BL20XU	水谷 隆太	

**Nano Letters**

29517	Tetsuhiko Miyadera	15 (2015) 5630-5634	2014B1614	BL46XU	宮寺 哲彦	Crystallization Dynamics of Organolead Halide Perovskite by Real-Time X-ray Diffraction
			2015A1689	BL46XU	宮寺 哲彦	

**Nature Methods**

29452	Michihiro Sugahara	12 (2015) 61-63	2012B8036	BL3	岩田 想	Grease Matrix as a Versatile Carrier of Proteins for Serial Crystallography
			2013A8039	BL3	岩田 想	
			2013A8040	BL3	島村 達郎	
			2013B8044	BL3	島村 達郎	
			2013B8045	BL3	岩田 想	
			2014A8032	BL3	岩田 想	

**Optics Letters**

29286	Yi-Wei Tsai	40 (2015) 2969-2972	2013A4261	BL12XU	Chang Shih Lin	Single-mode Selection for Hard X-ray Cavity Resonance
			2013B4259	BL12XU	Chang Shih Lin	
			2014A4250	BL12XU	Chang Shih Lin	
			2014A4260	BL12XU	Chang Shih Lin	
			2014B4265	BL12XU	Chang Shih Lin	

**Physica Status Solidi C**

29089	Hitoshi Sato	12 (2015) 620-623	2012B4801	BL15XU	佐藤 仁	Electronic Structure of YbNiX <sub>3</sub> (X=Si, Ge) Studied by Hard X-ray Photoemission Spectroscopy
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**Physical Review Letters**

29631	Alessandro Erba	115 (2015) 117402	2009A2022	BL08W	櫻井 吉晴	Anharmonic Thermal Oscillations of the Electron Momentum Distribution in Lithium Fluoride
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**Plant Science**

29137	Hiroaki Sakai	238 (2015) 170-177	2010B1695	BL37XU	吉田 薫	A Decrease in Phytic Acid Content Substantially Affects the Distribution of Mineral Elements within Rice Seeds
			2013B1209	BL37XU	吉田 薫	

**Structural Dynamics**

29456	Yoshihiro Ogi	2 (2015) 034901	2013B8068	BL3	鈴木 俊法	Ultraviolet Photochemical Reaction of [Fe(III)(C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> ] <sup>3-</sup> in Aqueous Solutions Studied by Femtosecond Time-Resolved X-ray Absorption Spectroscopy Using an X-ray Free Electron Laser
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**Structure**

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
29689	Yukie Maruyama	23 (2015) 1643-1654	2013A1106	BL38B1	橋本 渉	Structure of a Bacterial ABC Transporter Involved in the Import of an Acidic Polysaccharide Alginate
			2012B1265	BL38B1	橋本 渉	
			2012A1317	BL38B1	橋本 渉	
			2011B1108	BL38B1	橋本 渉	
			2011B2055	BL41XU	橋本 渉	
			2011A1186	BL38B1	橋本 渉	
			2010B6500	BL44XU	山下 栄樹	
			2010A1279	BL38B1	橋本 渉	
2009B1177	BL38B1	橋本 渉				

**Superconductor Science and Tecgnology**

29678	Kozo Osamura	26 (2013) 045012	2012A1765	BL46XU	町屋 修太郎	Direct Evidence of the High Strain Tolerance of the Critical Current of DI-BSCCO Tapes Fabricated by Means of the Pretensioned Lamination Technique
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**Synthetic Metals**

29611	Rei Yoshida	208 (2015) 43-48	2014A0100	BL02B1	青柳 忍	Crystal Structure and Magnetic Properties of the Charge-Transfer Complex (BDTA) <sub>2</sub> (H <sub>3</sub> O) <sub>2</sub> [Fe(II)(CN) <sub>6</sub> ]
			2014B0100	BL02B1	青柳 忍	

**Thin Solid Films**

29131	Masanobu Izaki	520 (2012) 1779-1783	2010A1741	BL14B2	伊崎 昌伸	Effects of Preparation Temperature on Optical and Electrical Characteristics of (111)-oriented Cu <sub>2</sub> O Films Electrodeposited on (111)-Au Film
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**Transactions of the Materials Research Society of Japan**

29616	Ryo Iizuka	40 (2015) 295-299	2013A1407	BL02B1	黒岩 芳弘	Large Electric-field-induced Strain in Pseudo-cubic BaTiO <sub>3</sub> -Bi(Mg <sub>0.5</sub> Ti <sub>0.5</sub> )O <sub>3</sub> -BiFeO <sub>3</sub> Ceramics
			2014A0078	BL02B1	Iversen Bo	
			2014B0078	BL02B1	Iversen Bo	

**World Journal of Diabetes**

29143	Mark. T. Waddingham	6 (2015) 943-960	2013B1759	BL40XU	Pearson James	Contractile Apparatus Dysfunction Early in the Pathophysiology of Diabetic Cardiomyopathy
			2012B1469	BL40XU	Pearson James	

**Zoological Letters**

29364	Hiroyuki Iwamoto	1 (2015) 24	2009A1469	BL45XU	岩本 裕之	X-ray Diffraction Pattern from the Flight Muscle of <i>Toxorhynchites towadensis</i> Reveals the Specific Phylogenetic Position of Mosquito among Diptera
			2012A1272	BL45XU	岩本 裕之	
			2012B1256	BL45XU	岩本 裕之	
			2013B1333	BL45XU	岩本 裕之	
2014A1298	BL45XU	岩本 裕之				

**高分子論文集 (Japanese Journal of Polymer Science and Technology)**

29298	Kazuki Mita	71 (2014) 573-579	2008B1538	BL20XU	竹中 幹人	Heterogeneous Density Fluctuation of Polyethylene under Uniaxial Stretch
			2014A7217	BL03XU	三田 一樹	

**第 47 回 X 線材料強度に関するシンポジウム講演論文集 (Proceedings of the Symposium on X-ray Studies on Mechanical Behavior of Materials)**

29696	Keisuke Tanaka	47 (2013) 51-56	2012B1239	BL46XU	田中 啓介	Evaluation of Grain-Size Distribution of Nanocrystalline Nickel Films by X-ray Profile Analysis and Transmission Electron Microscopy
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**第 49 回 X 線材料強度に関するシンポジウム講演論文集 (Proceedings of the Symposium on X-ray Studies on Mechanical Behavior of Materials)**

29697	Keisuke Tanaka	49 (2015) 1-4	2014B1226	BL02B1	田中 啓介	Evaluation of Internal Stress in Short-Fiber Reinforced Plastics by Transmission X-Ray Diffraction
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**材料 (Journal of the Society of Materials Science, Japan)**

29320	Daisuke Suzuki	64 (2015) 536-541	2013A3788	BL22XU	八代 浩二	Crystalline Structure Changing of Rolled AZ61 Magnesium Alloy in Rapid Heating
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日本結晶学会誌 (Journal of the Crystallographic Society of Japan)

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
29505	Sho Amatsu	57 (2015) 233-238	2011B6615	BL44XU	北所 健悟	Crystal Structure of Hemagglutinin from Type B <i>Clostridium Botulinum</i>
			2012A6715	BL44XU	北所 健悟	
			2012B6715	BL44XU	北所 健悟	
			2013A6816	BL44XU	北所 健悟	
			2013B6816	BL44XU	北所 健悟	
			2014A6918	BL44XU	北所 健悟	
2014B6918	BL44XU	北所 健悟				

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	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
29493	Takayuki Murakami	62 (2015) 408-412	2012B1312	BL14B2	村上 隆幸	Investigation of Chemical State of Vanadium at the Interface Between Thermal Sprayed Hydroxyapatite Coating and Ti-6Al-4V Alloy Substrate

博士論文 (京都大学)

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
29506	Koji Kimura	(2015)	2010B4260	BL12XU	松田 和博	Inelastic X-ray Scattering Study of Plasmons in Liquid Alkali Metals
			2011B4257	BL12XU	松田 和博	
			2012B4261	BL12XU	松田 和博	
			2013A4259	BL12XU	松田 和博	
			2014A4265	BL12XU	松田 和博	
			2014B4254	BL12XU	松田 和博	

博士論文 (東北大学)

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
29679	Noritoshi Yagihashi	(2013)	2011A1973	BL14B2	朝倉 清高	Selective Deposition on the Oxide Supports of Catalyst Nanoparticle using Liquid Phase Synthesis and its Structure Control

課題以外の成果として登録された論文

Biochemical and Biophysical Research Communications

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	タイトル
29379	S. M. Kumar	449 (2014) 107-113	理研	BL26B1	Crystal Structure Studies of NADP <sup>+</sup> Dependent Isocitrate Dehydrogenase from <i>Thermus thermophilus</i> Exhibiting a Novel Terminal Domain
29380	S. M. Kumar	451 (2014) 126-130	理研	BL26B1	Crystal Structures of Type III <sub>H</sub> NAD-dependent D-3-phosphoglycerate Dehydrogenase from Two Thermophiles
29381	K. J. Pampa	453 (2014) 662-667	理研	BL26B1	Crystal Structure of Product-Bound Complex of UDP-N-acetyl-D-mannosamine Dehydrogenase from <i>Pyrococcus horikoshii</i> OT3
29382	M. Manjula	459 (2015) 113-117	理研	BL26B1	Crystal Structure of ATP-binding Subunit of an ABC Transporter from <i>Geobacillus kaustophilus</i>
29594	Ramya Sundaresan	465 (2015) 174-179	理研	BL26B2	Crystal Structure Analysis of Ornithine Transcarbamylase from <i>Thermus thermophilus</i> - HB8 Provides Insights on the Plasticity of the Active Site

Physical Review A

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	タイトル
29376	Hiroshi Iwayama	91 (2015) 021402(R)	SCSS		Transient Charge Dynamics in Argon-Cluster Nanoplasmas Created by Intense Extreme-Ultraviolet Free-Electron-Laser Irradiation
29410	Tokuei Sako	84 (2011) 053419	SCSS		Suppression of Ionization Probability Due to Rabi Oscillations in the Resonance Two-Photon Ionization of He by EUV Free-Electron Lasers
29421	Suet Yi Liu	81 (2010) 031403(R)	SCSS		Time-Resolved Photoelectron Imaging using a Femtosecond UV Laser and a VUV Free-Electron Laser
29431	Akinori Sugishima	86 (2012) 033203	SCSS		Charge and Energy Transfer in Argon-Core-Neon-Shell Clusters Irradiated by Free-Electron-laser Pulses at 62 nm
29438	Yutaka Imamura	87 (2013) 043413	理論		Theoretical Study on Valence Excitations of Multiply Ionized States for Envelope Measurement of X-ray Free-Electron-Laser Pulses

Nuclear Instruments and Methods in Physics Research Section A-1

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	タイトル
29411	Haruhiko Ohashi	649 (2011) 163-165	SCSS		Performance of Focusing Mirror Device in EUV Beamline of SPing-8 Compact SASE Source (SCSS)
			光学系		
29427	Hirokazu Maesaka	696 (2012) 66-74	加速器		Sub-Micron Resolution rf Cavity Beam Position Monitor System at the SACLA XFEL Facility

**Nuclear Instruments and Methods in Physics Research Section A-2**

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	タイトル
29428	Yuji Otake	696 (2012) 151-163	加速器 SCSS		LLRF and Timing System for the SCSS Test Accelerator at SPring-8
29436	Haruhiko Ohashi	710 (2013) 139-142	光学系	BL3	Beamline Mirrors and Monochromator for X-ray Free Electron Laser of SACLA

**Physical Review Letters**

29373	Mitsuru Nagasono	107 (2011) 193603	SCSS		Observation of Free-Electron-Laser-Induced Collective Spontaneous Emission (Superfluorescence)
29426	Yuichi Inubushi	109 (2012) 144801	光学系	BL3	Determination of the Pulse Duration of an X-Ray Free Electron Laser Using Highly Resolved Single-Shot Spectra
29439	Takashi Tanaka	110 (2013) 084801	理論		Proposal for a Pulse-Compression Scheme in X-Ray Free-Electron Lasers to Generate a Multiterawatt, Attosecond X-Ray Pulse
29460	Takashi Tanaka	114 (2015) 044801	理論		Proposal to Generate an Isolated Monocycle X-Ray Pulse by Counteracting the Slippage Effect in Free-Electron Lasers

**Review of Scientific Instruments**

29409	Hidekazu Mimura	79 (2008) 083104	SCSS 光学系		Focusing Mirror for X-ray Free-Electron Lasers
29419	Toshihiko Shimizu	81 (2010) 033102	SCSS		Response-Time Improved Hydrothermal-Method-Grown ZnO Scintillator for Soft X-ray Free-Electron Laser Timing-Observation
29420	Yuichi Inubushi	81 (2010) 036101	SCSS		Measurement of Saturable Absorption by Intense Vacuum Ultraviolet Free Electron Laser using Fluorescent Material
29500	Takahiro Tanaka	86 (2015) 093104	理研	BL3	Room-Temperature Calorimeter for X-ray Free-Electron Lasers

**Applied Physics Express**

29432	Kazumasa Okamoto	5 (2012) 096701	SCSS		Effect of Ultrahigh-Density Ionization of Resist Films on Sensitivity Using Extreme-Ultraviolet Free-Electron Laser
29441	Yuki Shinzato	6 (2013) 022401	SCSS		Vacuum Ultraviolet Fluorescence Spectroscopy of Nd <sup>3+</sup> :LaF <sub>3</sub> Using Femtosecond Extreme Ultraviolet Free Electron Laser
29459	Takahiro Sato	8 (2015) 012702	光学系		Highly Efficient Arrival Timing Diagnostics for Femtosecond X-ray and Optical Laser Pulses

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

29374	James Harries	48 (2015) 105002	SCSS		A Streak Camera Study of Superfluorescence at Multiple Wavelengths from Helium Atoms Excited using Free Electron Laser Pulses
29377	Eiji Shigemasa	46 (2013) 164020	SCSS		Resonance-Enhanced Three-Photon Single Ionization of Ne by Ultrashort Extreme-Ultraviolet Pulses
29412	Takahiro Sato	44 (2011) 161001	SCSS		Determination of the Absolute Two-Photon Ionization Cross Section of He by an XUV Free Electron Laser

**Journal of Synchrotron Radiation**

29350	Makina Yabashi	21 (2014) 976-985	理研	BL29XU	Optics for Coherent X-ray Applications
29351	Makina Yabashi	22 (2015) 477-484	XFEL	BL3	Overview of the SACLA Facility
29437	Atsushi Tokuhisa	20 (2013) 899-904	理論		High-Speed Classification of Coherent X-ray Diffraction Patterns on the K Computer for High-Resolution Single Biomolecule Imaging

**Europhysics Letters**

29417	Takanori Tanikawa	94 (2011) 34001	加速器 SCSS		Nonlinear Harmonic Generation in a Free-Electron Laser Seeded with High Harmonic Radiation
29423	G. Lambert	88 (2009) 54002	加速器 SCSS		Seed Level Requirement for Improving the Temporal Coherence of a Free-Electron Laser

**Optics Express**

29378	Hiroshi Iwayama	20 (2012) 23174-23179	SCSS		Demonstration of Up-Conversion Fluorescence from Ar Clusters in Intense Free-Electron-Laser Fields
29433	Tatiana Pikuz	20 (2012) 3424-3433	SCSS		Optical Features of a LiF Crystal Soft X-ray Imaging Detector Irradiated by Free Electron Laser Pulses

### Physical Review B

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	タイトル
29461	Chikafumi Kaneko	90 (2014) 085109	理研	BL29XU	Electric Polarization along the <i>c</i> Axis in the Ferroelectric Helimagnetic Phase of $\text{CuFe}_{1-x}\text{Ga}_x\text{O}_2$ ( $x=0.035$ )
29462	Yves Joly	89 (2014) 224108	理研	BL17SU	Chirality, Birefringence, and Polarization Effects in $\alpha$ -quartz Studied by Resonant Elastic X-ray Scattering

### Acta Crystallographica Section D

29435	Thomas Barends	69 (2013) 838-842	理研	BL3	Anomalous Signal from S Atoms in Protein Crystallographic Data from an X-ray Free-Electron Laser
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### Applied Optics

29442	Tatiana Pikuz	52 (2013) 509-515	SCSS		Soft X-ray Free-Electron Laser Imaging by LiF Crystal and Film Detectors over a Wide Range of Fluences
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### Applied Physics Letters

29424	Takahiro Sato	92 (2008) 154103	加速器		Dissociative Two-Photon Ionization of $\text{N}_2$ in Extreme Ultraviolet by Intense Self-Amplified Spontaneous Emission Free Electron Laser Light
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### ChemBioChem

29347	Haruhiko Ehara	16 (2015) 1435-1439	装置技術	BL41XU	Crystal Structure of Okadaic Acid Binding Protein 2.1: A Sponge Protein Implicated in Cytotoxin Accumulation
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### Chemistry Letters

29463	Wataru Kosaka	43 (2014) 890-892	理研	BL44B2	Coordination Programming in the Design of Porous Coordination Polymers: Tuning of the Electronic Activity of Frameworks for Selective Nitrogen Monoxide Trapping
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### Contributions to Plasma Physics

29416	N. A. Inogamov	51 (2011) 419-426	SCSS		Two-Temperature Warm Dense Matter Produced by Ultrashort Extreme Vacuum Ultraviolet-Free Electron Laser (EUV-FEL) Pulse
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### Dalton Transactions

29494	Masaaki Sadakiyo	44 (2015) 15764-15768	理研	BL44B2	Preparation of Solid-Solution Type Fe-Co Nanalloy by Synchronous Deposition of Fe and Co using Dual Arc Plasma Guns
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### IEEE Transactions on Nuclear Science

29429	Kohei Yamanoi	59 (2012) 2298-2300	SCSS		Indium-Doped ZnO Scintillator with 3-Ps Response Time for Accurate Synchronization of Optical and X-ray Free Electron Laser Pulses
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### Japanese Journal of Applied Physics

29440	Kohei Yamanoi	52 (2013) 040203	SCSS		Time-Resolved Pump and Probe Experiment for Wide-Gap Semiconductors Using Free Electron Laser and Synchronously-Operated Femtosecond Laser
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### The Journal of Biological Chemistry

29367	Masaki Okumura	289 (2014) 27004-27018	理研	BL45XU	Inhibition of the Functional Interplay between ER Oxidoreductin-1 $\alpha$ (Ero1 $\alpha$ ) and Protein Disulfide Isomerase (PDI) by the Endocrine Disruptor Bisphenol A
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### Journal of Crystal Growth

29443	Kohei Yamanoi	362 (2013) 264-267	SCSS		Optical Properties of Hydrothermal-Method-Grown ZnO Crystal as EUV Laser Diagnostics Material
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### Journal of Magnetism and Magnetic Materials

29385	Y. Hiraoka	384 (2015) 160-165	理研	BL17SU	The Effect of Field Cooling on a Spin-Chiral Domain Structure in a Magnetoelectric Helimagnet $\text{Ba}_{0.5}\text{Sr}_{1.5}\text{Zn}_2\text{Fe}_{12}\text{O}_{22}$
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### Journal of Optical Technology

29413	N. A. Inogamov	78 (2011) 473-480	SCSS		Ablation of Insulators under the Action of Short Pulses of X-ray Plasma Lasers and Free-Electron Lasers
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**Journal of Structural and Functional Genomics**

研究成果番号	主著者	雑誌情報	課題番号	ビームライン	タイトル
29342	Toshiaki Higo	15 (2014) 191-199	理研	BL32XU	Development of a Hexahistidine-3× FLAG-tandem Affinity Purification Method for Endogenous Protein Complexes in <i>Pichia pastoris</i>

**Journal of the Physical Society of Japan**

29375	Kyo Nakajima	84 (2015) 054301	SCSS		Simultaneous Measurements of Super-Radiance at Multiple Wavelengths from Helium Excited States: I. Experiment
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**Methods**

29501	Kazuhiro Maeshima	70 (2014) 154-161	理研	BL45XU	Chromatin Structure Revealed by X-ray Scattering Analysis and Computational Modeling
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**Metrologia**

29422	Norio Saito	47 (2010) 21-23	SCSS		Radiometric Comparison for Measuring the Absolute Radiant Power of a Free-Electron Laser in the Extreme Ultraviolet
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**Nature Communications**

29454	Hidekazu Mimura	5 (2014) 3539	光学系		Generation of $10^{20}$ Wcm <sup>-2</sup> Hard X-ray Laser Pulses with Two-Stage Reflective Focusing System
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**Nature Physics**

29408	G. Lambert	4 (2008) 296-300	SCSS		Injection of Harmonics Generated in Gas in a Free-Electron Laser Providing Intense and Coherent Extreme-Ultraviolet Light
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**Physical Chemistry Chemical Physics**

29662	Akio Kawasaki	17 (2015) 24783-24790	理研	BL44B2	Change in the Crystalline Structure during the Phase Transition of the Palladium-Hydrogen System
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**Physical Review E**

29430	Jae Hyun Park	86 (2012) 042901	SCSS		Assessment of Radiation Damage in Single-Shot Coherent Diffraction of DNA Molecules by an Extreme-Ultraviolet Free-Electron Laser
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**Physical Review Special Topics - Accelerators and Beams**

29425	Takashi Tanaka	15 (2012) 110701	挿入光源		Undulator Commissioning by Characterization of Radiation in X-ray Free Electron Lasers
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**応用物理 (Journal of Applied Physics, Japan)**

29469	Yukio Takahashi	83 (2014) 366-370	理研	BL29XU	Visualization of Dislocation Strain Field by X-ray Ptychography and Production of X-ray Vortex Beam
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