

## 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、2019 年 10 月～12 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、実験責任者の方には、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 2019 年 10 月～12 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	15	Macromolecules	5
Japanese Journal of Applied Physics	12	Nature Communications	5
Journal of Synchrotron Radiation	7	Physical Chemistry Chemical Physics	5
Scientific Reports	7	The Journal of Physical Chemistry C	5
Chemical Communications	5	Angewandte Chemie International Edition	4
Journal of the American Chemical Society	5	Journal of Hazardous Materials	4
Journal of the Physical Society of Japan	5	Polymer	4

他全 176 誌、計 297 報

(注意) グループ課題として設定されている課題群については、その論文がグループ課題の中の複数の課題の成果である場合でも、代表課題となっている課題番号のみ表示しています。グループ課題に複数のビームラインの課題が含まれる場合、代表課題が複数のビームラインで実施されたように表示されています。

### 課題の成果として登録された論文

#### Japanese Journal of Applied Physics-1

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
38923	Yanan Wang	58 (2019) 110603	2019A4131	BL12B2	久保園 芳博	Preparation and Characterization of Superconducting $\text{Ba}_{1-x}\text{Cs}_x\text{Tl}_2\text{Sb}_2\text{O}$ , and Its Pressure Dependence of Superconductivity
			2018B4140	BL12B2	久保園 芳博	
38928	Toyohiko Kinoshita	58 (2019) 110503	2016A1844	BL25SU	室 隆桂之	Progress in Photoelectron Holography at SPring-8
			2014B1498	BL25SU	Kozina Xeniya	
			2014B2048	BL25SU	大沢 仁志	
			2015A1485	BL25SU	大沢 仁志	
			2014A7462	BL07LSU	大門 寛	
			2016A1319	BL39XU	田口 宗孝	
			2017B1348	BL13XU	田口 宗孝	
			2015B7498	BL07LSU	加藤 有香子	
			2017B7554	BL07LSU	大門 寛	
38930	Fumihiko Matsui	58 (2019) 110602	2016A1032	BL25SU	松井 文彦	Chemical and Magnetic Properties of Polycrystalline Iron Surface Revealed by Auger Electron Holography, Spectroscopy, and Microscopy
			2011B1583	BL25SU	大門 寛	
			2012B1698	BL25SU	安田 馨	
39050	Mamoru Kitaura	58 (2019) 120602	2017B1282	BL13XU	北浦 守	Local Environment of W and Mo Atoms in $\text{CaW}_{1-x}\text{Mo}_x\text{O}_4$ ( $x = 0.12$ ) Solid Solution Studied by X-ray Structural Analyses
			2017B1061	BL01B1	北浦 守	
39058	Shinya Hosokawa	58 (2019) 120601	2019A1591	BL39XU	細川 伸也	Valence-Selective Local Atomic Structures in Inorganic Materials by X-ray Fluorescence Holography
			2018B4132	BL12B2	細川 伸也	
			2018A1214	BL39XU	細川 伸也	
			2015B1005	BL13XU	細川 伸也	
			2015A0116	BL13XU	林 好一	
39071	Koji Arafune	58 (2019) 125502	2014A1548	BL19B2	新船 幸二	Effect of Post-Deposition Annealing on Electrical Properties and Structures of Aluminum Oxide Passivation Film on a Crystalline Silicon Substrate
39083	Hirosi Sekiguchi	58 (2019) 120501	2014B1507	BL20XU	関口 博史	Dynamic 3D Visualization of Active Protein's Motion using Diffracted X-ray Tracking
			2013A1301	BL28B2	佐々木 裕次	
			2013A1353	BL40XU	養王田 正文	
			2013B1429	BL40XU	養王田 正文	
			2014A1188	BL40XU	養王田 正文	
			2014B1205	BL40XU	関口 博史	
			2015A1229	BL40XU	関口 博史	
			2015A1219	BL40XU	養王田 正文	
			2015B1195	BL40XU	養王田 正文	
			2015B1200	BL40XU	関口 博史	
			2016B1901	BL40B2	関口 博史	
			2013B1380	BL20XU	関口 博史	
			2014A1369	BL20XU	関口 博史	
			2016A1484	BL20XU	関口 博史	
39084	Artoni Kevin Roquero Ang	59 (2020) 010505	2016B1099	BL39XU	中村 照也	X-ray Fluorescence Holography for Soft Matter
			2016A1320	BL39XU	久保 稔	
			2016B1393	BL39XU	久保 稔	
			2016A1391	BL39XU	佐々木 裕次	
			2016B1328	BL39XU	佐々木 裕次	
			2017A1382	BL39XU	佐藤 文菜	
			2017A1137	BL39XU	佐々木 裕次	
			2017B1444	BL39XU	佐藤 文菜	
			2017B1450	BL39XU	林 好一	
			2017B1355	BL39XU	梅名 泰史	
			2018A1155	BL37XU	佐藤 文菜	
			2018A1097	BL39XU	梅名 泰史	
			2018A1229	BL37XU	林 好一	
			2018B1490	BL39XU	佐藤 文菜	
			2018B1153	BL39XU	梅名 泰史	
			2019A1230	BL39XU	梅名 泰史	

**Japanese Journal of Applied Physics-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
39135	Kotohiro Nomura	58 (2019) 100502	2015B1308	BL01B1	山添 誠司	Direct Observation of Catalytically Active Species in Reaction Solution by X-ray Absorption Spectroscopy (XAS)
			2016A1455	BL01B1	野村 琴広	
			2016B1509	BL01B1	野村 琴広	
			2017A1512	BL01B1	野村 琴広	
			2018B1335	BL01B1	野村 琴広	
39166	Noboru Ohashi	58 (2019) 121004	2017A0136	BL46XU	宮寺 哲彦	Evaluation of Exciton Diffusion Length in Highly Oriented Fullerene Films of Fullerene/p-Si(100) Hybrid Solar Cells
39241	Seiji Nakashima	59 (2020) 010602	2019A1296	BL39XU	中嶋 誠二	Atomic Structure Stabilization in BiFeO <sub>3</sub> Thin Film by Mn Doping
			2018B1456	BL13XU	中嶋 誠二	

**Physical Review B**

38785	Tong He	100 (2019) 094525	2017B1336	BL10XU	久保園 芳博	Pressure-Induced Superconductivity in Bi <sub>2-x</sub> Sb <sub>x</sub> Te <sub>3-y</sub> Se <sub>y</sub>
			2017B4133	BL12B2	久保園 芳博	
			2018A4132	BL12B2	久保園 芳博	
			2018B4140	BL12B2	久保園 芳博	
38827	Takashi Kono	100 (2019) 165120	2018B1019	BL25SU	木村 昭夫	Element-Specific Density of States of Co <sub>2</sub> MnGe Revealed by Resonant Photoelectron Spectroscopy
			2018B3842	BL23SU	木村 昭夫	
38929	Hasnan Hafiz	100 (2019) 205104	2014B1335	BL08W	鈴木 宏輔	Identification of Ferrimagnetic Orbitals Preventing Spinel Degradation by Charge Ordering in Li <sub>x</sub> Mn <sub>2</sub> O <sub>4</sub>
			2015B1171	BL08W	鈴木 宏輔	
38961	S. Yamada	100 (2019) 195137	2018A1016	BL13XU	宝野 和博	Experimental Verification of the Origin of Positive Linear Magnetoresistance in CoFe(V <sub>1-x</sub> Mn <sub>x</sub> )Si Heusler Alloys
			2018A2052	BL13XU	田尻 寛男	
			2017B0921	BL13XU	壬生 攻	
38986	Hidekazu Okamura	100 (2019) 195112	2009A0089	BL43IR	岡村 英一	Contrasting Pressure Evolution of f-electron Hybridized States in CeRhIn <sub>5</sub> and YbNi <sub>3</sub> Ga <sub>6</sub> : An Optical Conductivity Study
			2013B1159	BL43IR	大原 繁男	
38988	Mikhail Feygenson	100 (2019) 054306	2015B1176	BL01B1	Sikolenko Vadim	Manifold of Spin States and Dynamical Temperature Effects in LaCoO <sub>3</sub> : Experimental and Theoretical Insights
39036	Yi-Ying Chin	99 (2019) 184407	2016B4255	BL12XU	Huang Di-Jing	Local Spin Moments, Valency, and Long-Range Magnetic Order in Monocrystalline and Ultrathin Films of Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> Garnet
			2017A4251	BL12XU	Chainani Ashish	
39070	James McNulty	100 (2019) 094441	2014B1310	BL39XU	Trodahl Joe	Tunable Magnetic Exchange Springs in Semiconductor GdN/NdN Superlattices
39104	Jack Binns	97 (2018) 024111	2017A1062	BL10XU	Howie Ross	Formation of H <sub>2</sub> -rich Iodine-Hydrogen Compounds at High Pressure
39105	Jack Binns	98 (2018) 140101(R)	2017A1062	BL10XU	Howie Ross	Synthesis of Ni <sub>2</sub> H <sub>3</sub> at High Temperatures and Pressures
39161	Yasuhiro H. Matsuda	100 (2019) 214105	2017B3787	BL22XU	松田 康弘	
			2017A3786	BL22XU	松田 康弘	High Magnetic Field X-ray Diffraction Study of the α Phase of Solid Oxygen: Absence of Giant Magnetostriction

**Scientific Reports**

38781	Kotaro Matsumoto	9 (2019) 13275	2018B3658	BL14B1	安田 良	Destruction of Tumor Mass by Gadolinium-Loaded Nanoparticles Irradiated with Monochromatic X-rays: Implications for the Auger Therapy
			2019A3658	BL14B1	安田 良	
38809	Masae Takahashi	9 (2019) 13104	2017A1354	BL43IR	高橋 まさえ	Assessment of the VDW Interaction Converting DMAPS from the Thermal-Motion Form to the Hydrogen-Bonded Form
			2018A1198	BL43IR	高橋 まさえ	
			2016B1321	BL43IR	松井 広志	
38876	Takafumi Itoh	9 (2019) 14870	2016B2722	BL26B1	伊藤 貴文	Structural and Biochemical Characterisation of a Novel Alginate Lyase from <i>Paenibacillus</i> sp. str. FPU-7
			2017A2528	BL26B2	伊藤 貴文	
			2018A2545	BL38B1	伊藤 貴文	
38916	Chih Ming Lin	8 (2018) 1284	2016A4136	BL12B2	Lin Chih Ming	Pressure Effect on Impurity Local Vibrational Mode and Phase Transitions in n-type Iron-Doped Indium Phosphide
38951	Wataru Yashiro	9 (2019) 14120	2014B1185	BL20XU	矢代 航	Probing Surface Morphology using X-ray Grating Interferometry
			2015A1251	BL20XU	矢代 航	
			2015A1244	BL20XU	矢代 航	
			2015B1255	BL20XU	矢代 航	
39139	Makoto Minohara	7 (2017) 9516	2010B1696	BL47XU	Hwang Harold	Dielectric Collapse at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> (001) Heterointerface under Applied Electric Field
39234	Akio Yoneyama	9 (2019) 18831	2017A5400	BL16B2	米山 明男	Novel Z <sub>eff</sub> Imaging Method for Deep Internal Areas using Back-Scattered X-rays
			2017B5400	BL16B2	米山 明男	
			2018A5400	BL16B2	米山 明男	
			2018B5400	BL16B2	米山 明男	

**Chemical 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
38966	Maki Torimoto	55 (2019) 6693-6695	2018B1759	BL14B2	関根 泰	Enhanced Methane Activation on Diluted Metal-Metal Ensembles under an Electric Field: Breakthrough in Alloy Catalysis
			2018A1728	BL14B2	関根 泰	
38972	Wiyanti F. Simanullang	55 (2019) 13999-14002	2017A5071	BL16XU	高橋 直子	Highly Active and Noble-Metal-Alternative Hydrogenation Catalysts Prepared by Dealloying Ni-Si Intermetallic Compounds
			2017B5070	BL16XU	小坂 悟	
39138	Norifumi Muraki	55 (2019) 13864-13867	2015B6548	BL44XU	村木 則文	Structural Basis for the Heme Transfer Reaction in Heme Uptake Machinery from Corynebacteria
			2016A6647	BL44XU	村木 則文	
			2016B6647	BL44XU	村木 則文	
			2014B6955	BL44XU	村木 則文	
			2015A6548	BL44XU	村木 則文	
			2017A6757	BL44XU	村木 則文	
39213	Koto Hirano	55 (2019) 15033-15036	2019A1146	BL01B1	高野 慎二郎	Asymmetric Aerobic Oxidation of Secondary Alcohols Catalyzed by Poly( <i>N</i> -Vinyl-2-Pyrrolidone)-Stabilized Gold Clusters Modified with Cyclodextrin Derivatives
			2018B1123	BL01B1	高野 慎二郎	
39217	Tsuyoshi Nishikawa	55 (2019) 14950-14953	2018B1084	BL40XU	笹森 貴裕	Hydrophobicity and CH/r-Interaction-Driven Self-Assembly of Amphiphilic Aromatic Hydrocarbons into Nanosheets
			2018B1275	BL40XU	箕浦 真生	

**The Journal of Physical Chemistry C**

38830	Takahiro Matsuoka	123 (2019) 25074-25080	2016B1242	BL10XU	松岡 岳洋	Hydrogen-Storing Salt NaCl(H <sub>2</sub> ) Synthesized at High Pressure and High Temperature
			2017A1218	BL10XU	松岡 岳洋	
			2014A1320	BL10XU	松岡 岳洋	
			2017B1492	BL10XU	松岡 岳洋	
38967	Hikaru Saito	123 (2019) 26272-26281	2019A1743	BL14B2	関根 泰	Dehydrogenation of Ethane via the Mars-van Krevelen Mechanism over La <sub>0.8</sub> Ba <sub>2</sub> MnO <sub>3-δ</sub> Perovskites under Anaerobic Conditions
			2018B1759	BL14B2	関根 泰	
39090	Keisuke Itoh	123 (2019) 13467-13471	2017B1190	BL40B2	伊藤 桂介	Structural Alternation Correlated to the Conductivity Enhancement of PEDOT:PSS Films by Secondary Doping
			2016A1617	BL40B2	本間 優太	
			2015B1694	BL40B2	本間 優太	
39157	Ching-Tien Chen	123 (2019) 20304-20313	2018A0155	BL04B2	脇原 徹	Zeolite Crystallization Triggered by Intermediate Stirring
39158	Hiroki Yamada	123 (2019) 28419-28426	2015A0115	BL04B2	脇原 徹	Structural Evolution of Amorphous Precursors toward Crystalline Zeolites Visualized by an in Situ X-ray Pair Distribution Function Approach
			2017A1319	BL08W	脇原 徹	
			2017A1217	BL08W	尾原 幸治	
			2017B1452	BL08W	脇原 徹	
			2018A0155	BL04B2	脇原 徹	

**Journal of Synchrotron Radiation**

38953	Noritake Isomura	26 (2019) 1936-1939	2018B1824	BL46XU	高橋 直子	Thickness of Carbon Coatings on Silicon Materials Determined by Hard X-ray Photoelectron Spectroscopy at Multiple Photon Energies
38954	Noritake Isomura	26 (2019) 1951-1955	2018B5071	BL16XU	高橋 直子	Local Atomic Structure Analysis of GaN Surfaces via X-ray Absorption Spectroscopy by Detecting Auger Electrons with Low Energies
			2019A5071	BL16XU	高橋 直子	
38969	Yuki Sekiguchi	24 (2017) 1024-1038	2014A8033	BL3	中迫 雅由	A Protocol for Searching the Most Probable Phase-Retrieved Maps in Coherent X-ray Diffraction Imaging by Exploiting the Relationship between Convergence of the Retrieved Phase and Success of Calculation
			2014B8052	BL3	中迫 雅由	
			2015A8051	BL3	中迫 雅由	
			2016A8048	BL3	中迫 雅由	
			2016B8064	BL3	中迫 雅由	
39035	Yi-Wei Tsai	26 (2019) 819-824	2015A4263	BL12XU	Chang Shih Lin	Time-Resolved X-ray Reflection Phases of the Nearly Forbidden Si(222) Reflection under Laser Excitation
			2015B4259	BL12XU	Chang Shih Lin	
			2016A4253	BL12XU	Chang Shih Lin	
			2016A4263	BL12XU	Chang Shih Lin	
			2017A4261	BL12XU	Chang Shih Lin	
39115	Ichiro Inoue	26 (2019) 2050-2054	2018B8023	BL3	井上 伊知郎	Determination of X-ray Pulse Duration via Intensity Correlation Measurements of X-ray Fluorescence

**Journal of the American Chemical Society**

研究成果番号	主著者	雑誌情報	課題番号	ピームライン	実験責任者	タイトル
38814	Shinjiro Takano	141 (2019) 15994-16002	2018B1123	BL01B1	高野 慎二郎	Efficient and Selective Conversion of Phosphine-Protected ( $MAu_8^{2+}$ ( $M = Pd, Pt$ ) Superatoms to Thiolate-Protected ( $MAu_{12}^{6-}$ or Alkynyl-Protected ( $MAu_{12}^{4+}$ ) Superatoms via Hydride Doping
39042	Takuo Wakisaka	142 (2020) 1247-1253	2016B1506	BL02B2	北川 宏	Rational Synthesis for a Noble Metal Carbide
			2017A1165	BL02B2	北川 宏	
			2017A4910	BL15XU	草田 康平	
			2017B4908	BL15XU	草田 康平	
39130	Motoya Yamagami	140 (2018) 8644-8647	2018A0154	BL38B1	藤田 誠	Synthetic $\beta$ -Barrel by Metal-Induced Folding and Assembly
			2015A0120	BL38B1	藤田 誠	
39171	Tomoki Nishimura	142 (2020) 154-161	2017B1089	BL40B2	西村 智貴	Substrate-Sorting Nanoreactors Based on Permeable Peptide Polymer Vesicles and Hybrid Liposomes with Synthetic Macromolecular Channels
			2018A1141	BL40B2	西村 智貴	
			2018B1171	BL40B2	西村 智貴	
39208	Takumi Nishikubo	141 (2019) 19397-19403	2017B3751	BL22XU	町田 晃彦	Enhanced Negative Thermal Expansion Induced by Simultaneous Charge Transfer and Polar—Nonpolar Transitions
			2018A1636	BL02B2	西久保 匠	
			2018A1667	BL09XU	西久保 匠	
			2018B3751	BL22XU	町田 晃彦	
			2017B1721	BL47XU	西久保 匠	
			2018B1672	BL47XU	尾形 昂洋	
			2019A1688	BL02B2	西久保 匠	

**Journal of the Physical Society of Japan**

38854	Naoki Ishimatsu	88 (2019) 114601	2013B1297	BL39XU	鬼丸 孝博	Pressure-Induced Collapse of the Guest Eu Off-Centering in Type-I Clathrate $Eu_8Ga_{16}Ge_{30}$
			2015B1253	BL01B1	石松 直樹	
			2014A0078	BL02B1	Iversen Bo	
			2016A1415	BL39XU	石松 直樹	
			2017A1296	BL39XU	石松 直樹	
38878	Chun Lin	88 (2019) 115004	2016A1210	BL47XU	藤森 淳	Nature of Carrier Doping in $T\text{-La}_{1.8-x}\text{Eu}_{0.2}\text{Sr}_x\text{CuO}_4$ Studied by X-Ray Photoemission and Absorption Spectroscopy
38921	Shin-ichi Fujimori	88 (2019) 103701	2018A1073	BL47XU	藤森 淳	Electronic Structure of $UTe_2$ Studied by Photoelectron Spectroscopy
38952	Harushige Nakao	88 (2019) 123701	2016A1615	BL10XU	中尾 敏臣	Superconductivity of Pure $H_3S$ Synthesized from Elemental Sulfur and Hydrogen
			2017B1711	BL10XU	中尾 敏臣	
			2018A0149	BL10XU	清水 克哉	
39101	Noriyuki Kataoka	88 (2019) 104709	2018B1283	BL25SU	横谷 尚陸	$\mu$ -PES Studies on TiNCl and Quasi-two-dimensional Superconductor Na-intercalated TiNCl
2018B1369	BL25SU	横谷 尚陸				

**Macromolecules**

38874	DongChan Kim	52 (2019) 7806-7811	2016B1088	BL40B2	寺尾 憲	Lyotropic Liquid Crystallinity of Linear and Cyclic Amylose Derivatives: Amylose Tris( <i>n</i> -octadecylcarbamate) in Tetrahydrofuran and 2-Octanone
			2017A1082	BL40B2	寺尾 憲	
			2017B1062	BL40B2	寺尾 憲	
38884	Muhammad Ilyas	50 (2017) 8169-8177	2016B1430	BL40B2	野々山 貴行	Water-Triggered Ductile-Brittle Transition of Anisotropic Lamellar Hydrogels and Effect of Confinement on Polymer Dynamics
39004	Kazuaki Rikiyama	52 (2019) 7188-7196	2018B1385	BL40B2	真田 雄介	Unimer Structure and Micellization of Poly(ethylene oxide)-Stereocontrolled Poly( <i>N</i> -isopropylacrylamide) Alternating Multiblock Copolymers in Aqueous Solution
39011	Yuji Matsumoto	52 (2019) 8266-8274	2016B1424	BL40B2	春藤 淳臣	Effect of the Heterogeneous Structure on Mechanical Properties for a Nanocellulose-Reinforced Polymer Composite
			2016B1659	BL40B2	大野 正司	
			2016A1592	BL40B2	大野 正司	
39064	Yuji Kinose	52 (2019) 8733-8740	2016B1208	BL40B2	榎原 圭太	Main-Chain Stiffness of Cellulosic Bottlebrushes with Polystyrene Side Chains Introduced Regioselectively at the O-6 Position
			2017B1727	BL40B2	黄瀬 雄司	

**Nature Communications-1**

38782	Daisuke Morita	7 (2016) 10356	2014A1279	BL26B1	三上 文三	Crystal Structure of the N-myristoylated Lipopeptide-Bound MHC Class I Complex
			2014A1308	BL26B1	三上 文三	
			2014A1841	BL26B2	三上 文三	
			2014B1274	BL26B1	三上 文三	

**Nature Communications-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
38987	Ziqian Xue	10 (2019) 5048	2018B1728	BL14B2	荻原 直希	Missing-Linker Metal-Organic Frameworks for Oxygen Evolution Reaction
39106	Philip Dalladay-Simpson	10 (2019) 1134	2018A1041	BL10XU	Howie Ross	Band Gap Closure, Incommensurability and Molecular Dissociation of Dense Chlorine
39160	Rui Lang	10 (2019) 234	2011B1974	BL14B2	崔 藝壽	Non Defect-Stabilized Thermally Stable Single-Atom Catalyst
39230	Sheng Dai	10 (2019) 440	2016B4133	BL12B2	Chen Tsan Yao	Platinum-Trimer Decorated Cobalt-Palladium Core-Shell Nanocatalyst with Promising Performance for Oxygen Reduction Reaction
			2017A4134	BL12B2	Chen Tsan Yao	
			2017B4145	BL12B2	Chen Tsan Yao	
			2017B4137	BL12B2	Chen Tsan Yao	

**Physical Chemistry Chemical Physics**

38815	Daehyun You	(2019) Online published 16 Aug. 2019	2016B8076 2017A8005 2017B8065	BL1 BL1 BL1	福澤 宏宣 福澤 宏宣 高梨 司	Multi-Particle Momentum Correlations Extracted using Covariance Methods on Multiple-Ionization of Diiodomethane Molecules by Soft-X-ray Free-Electron Laser Pulses
38859	Akihiro Suzuki	(2019) Online published 15 Aug. 2019	2016A8049 2016B8065 2017A8006 2017B8061	BL3 BL3 BL2 BL2	西野 吉則 西野 吉則 西野 吉則 西野 吉則	Design of a Liquid Cell toward Three-Dimensional Imaging of Unidirectionally-Aligned Particles in Solution using X-ray Free-Electron Lasers
			2016A8049 2016B8065 2017A8006 2017B8061	BL3 BL3 BL2 BL2	西野 吉則 西野 吉則 西野 吉則 西野 吉則	
			2019A7592	BL07LSU	De Groot Frank	Direct Observation of the Electronic States of Photoexcited Hematite with Ultrafast 2p3d X-ray Absorption Spectroscopy and Resonant Inelastic X-ray Scattering
			2014A7464 2014B7475 2015A7483 2015B7495 2016A7511 2016B7517	BL07LSU BL07LSU BL07LSU BL07LSU BL07LSU BL07LSU	朝倉 大輔 朝倉 大輔 朝倉 大輔 朝倉 大輔 朝倉 大輔 朝倉 大輔	Operando Soft X-ray Emission Spectroscopy of the Fe <sub>2</sub> O <sub>3</sub> Anode to Observe the Conversion Reaction
39223	Chia-Shuo Hsu	19 (2017) 8681-8693	2016A4129 2016B4129	BL12B2 BL12B2	Chen Hao-Ming Chen Hao-Ming	Valence- and Element-Dependent Water Oxidation Behaviors: <i>in situ</i> X-ray Diffraction, Absorption and Electrochemical Impedance Spectroscopies

**Journal of Hazardous Materials**

38820	Yawen Liu	366 (2019) 538-544	2016B1534 2015B1830	BL01B1 BL01B1	高岡 昌輝 高岡 昌輝	Insight into the Low-Temperature Decomposition of Aroclor 1254 over Activated Carbon-Supported Bimetallic Catalysts Obtained with XANES and DFT Calculations
39055	Liang-Ching Hsu	296 (2015) 230-238	2014A4127 2014B4139	BL12B2 BL12B2	Liu Yu-Ting Chen Jin-Ming	Comparison of the Spectroscopic Speciation and Chemical Fractionation of Chromium in Contaminated Paddy Soils
39170	Daisuke Kawamoto	378 (2019) 120593	2013A1820 2014A1534 2016B1560	BL14B2 BL14B2 BL14B2	大橋 弘範 大橋 弘範 川本 大祐	A New and Practical Se(IV) Removal Method using Fe <sup>3+</sup> Type Cation Exchange Resin
39232	Sang-Ho Lee	384 (2020) 121223	2018A1228 2018B1801 2017A1798 2018A0148 2018A0148	BL01B1 BL14B2 BL05XU BL37XU BL01B1	徳永 純平 高橋 嘉夫 高橋 嘉夫 高橋 嘉夫 高橋 嘉夫	Selective Immobilization of Iodide onto a Novel Bismuth-Impregnated Layered Mixed Metal Oxide: Batch and EXAFS Studies

**Polymer**

38867	Hongyi Gan	172 (2019) 7-12	2017A7232 2017B7281 2018A7232	BL03XU BL03XU BL03XU	加部 泰三 加部 泰三 加部 泰三	Crystal Structures and Crystalline Elastic Modulus of Paramylon Esters
38926	Takuya Matsumoto	119 (2017) 76-82	2011B3255	BL24XU	西野 孝	Molecular Weight Effect on Surface and Bulk Structure of Poly(3-hexylthiophene) Thin Films
			2012A4803	BL15XU	松井 純爾	
			2012B4803	BL15XU	松井 純爾	
38933	Yu Tomofuji	185 (2019) 121944	2018A1124	BL40B2	寺尾 憲	Single-Chain Conformation of Carboxylated Schizophyllan, a Triple Helical Polysaccharide, in Dilute Alkaline Aqueous Solution
38956	Atsushi Izumi	182 (2019) 121857	2017A1813	BL19B2	加々良 剛志	In situ Residual Stress Analysis in a Phenolic Resin and Copper Composite Material during Curing
			2017B1893	BL19B2	和泉 篤士	
			2018A1751	BL19B2	和泉 篤士	
			2018B1575	BL19B2	和泉 篤士	

**Angewandte Chemie International Edition**

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
38779	Misaki Ueda	58 (2019) 14673-14678	2016A1432	BL02B1	吉成 信人	Structurally Precise Silver Sulfide Nanoclusters Protected by Rhodium(III) Octahedra with Aminothiolates
			2016B1076	BL02B2	吉成 信人	
			2017A1282	BL02B2	吉成 信人	
			2017B1203	BL02B2	吉成 信人	
			2019A1362	BL01B1	吉成 信人	
38880	Sanjog S. Nagarkar	56 (2017) 4976-4981	2016B1231	BL02B2	堀毛 悟史	Enhanced and Optically Switchable Proton Conductivity in a Melting Coordination Polymer Crystal
38962	Tianxiang Chen	59 (2020) 1093-1097	2018B1081	BL02B2	Lo Benedict	Differential Adsorption of L- and D-Lysine on Achiral MFI Zeolites as Determined by Synchrotron X-ray Powder Diffraction and Thermogravimetric Analysis

**Chemical Physics Letters**

38860	Chris Hull	736 (2019) 136811	2017B8072	BL3	Saykally Richard	Early Time Dynamics of Laser-Ablated Silicon using Ultrafast Grazing Incidence X-ray Scattering
38896	Mitsuo Shoji	730 (2019) 416-425	2016B8066	BL3	沈 建仁	Elucidation of the Entire Kok Cycle for Photosynthetic Water Oxidation by the Large-Scale Quantum Mechanics/Molecular Mechanics Calculations: Comparison with the Experimental Results by the Recent Serial Femtosecond Crystallography
			2017A8041	BL3	沈 建仁	
			2017B8025	BL2	沈 建仁	
			2018A8037	BL2	沈 建仁	
			2018B8029	BL2	沈 建仁	
38963	Shota Manabe	711 (2018) 73-76	2018A1728	BL14B2	関根 泰	Theoretical Investigation on Structural Effects of Pt-Mn Catalyst on Activity and Selectivity for Methylcyclohexane Dehydrogenation

**Dalton Transactions**

38918	Malte Fugel	48 (2019) 16330-16339	2015A1329	BL02B1	Grabowsky Simon	Complementary Bonding Analysis of the N-Si Interaction in Pentacoordinated Silicon Compounds using Quantum Crystallography
			2016B1204	BL02B1	Grabowsky Simon	
39033	Hiroaki Ito	48 (2019) 12272-12278	2019A1114	BL02B2	三浦 章	An Electronic Structure Governed by the Displacement of the Indium Site in In-S <sub>6</sub> Octahedra: LnOInS <sub>2</sub> (Ln = La, Ce, and Pr)
			2017B1211	BL02B2	三浦 章	
			2018B1246	BL02B2	後藤 陽介	
39228	Chia-Jui Chang	48 (2019) 7122-7129	2018A4254	BL12XU	Chen Hao-Ming	Revealing the Structural Transformation of Rutile RuO <sub>2</sub> via <i>in situ</i> X-ray Absorption Spectroscopy during the Oxygen Evolution Reaction
			2018B4126	BL12B2	Chen Hao-Ming	

**Geochemical Journal**

39001	Akiko Yamaguchi	52 (2018) 415-425	2015A0118	BL01B1	高橋 嘉夫	Discovery of Ion-Adsorption Type Deposits of Rare Earth Elements (REE) in Southwest Japan with Speciation of REE by Extended X-ray Absorption Fine Structure Spectroscopy
			2017A1798	BL05XU	高橋 嘉夫	
			2015A0118	BL27SU	高橋 嘉夫	
			2015A0118	BL37XU	高橋 嘉夫	
39052	Kazuya Tanaka	53 (2019) 329-331	2018A0148	BL01B1	高橋 嘉夫	Application of Mn-edge XANES to Determination of U Oxidation State in Zircon
39136	Yoko Kebukawa	53 (2019) 53-67	2015A1899	BL43IR	薮田 ひかる	STXM-XANES Analyses of Murchison Meteorite Samples Captured by Aerogel after Hypervelocity Impacts: A Potential Implication of Organic Matter Degradation for Micrometeoroid Collection Experiments

**The Journal of Physical Chemistry B**

38786	Yasushi Imamoto	123 (2019) 9134-9142	2016A1427	BL40B2	今元 泰	Conformational Differences among Metarhodopsin I, Metarhodopsin II, and Opsin Probed by Wide-Angle X-ray Scattering
			2016B1258	BL40B2	今元 泰	
			2012A1263	BL40B2	今元 泰	
			2013A1136	BL40B2	今元 泰	
			2014A1247	BL40B2	今元 泰	
38877	Hikari Watanabe	123 (2019) 6244-6252	2016B1219	BL04B2	梅林 泰宏	Possible Proton Conduction Mechanism in Pseudo-Protic Ionic Liquids: A Concept of Specific Proton Conduction
			2016B1053	BL04B2	関 志朗	
			2012B1709	BL04B2	土井 寛之	
			2012A1682	BL04B2	上野 和英	
			2012A1669	BL04B2	梅林 泰宏	
39057	Takeshi Usuki	123 (2019) 10260-10266	2016A1277	BL04B2	Bychkov Evgeny	Dimeric Molecular Structure of Molten Gallium Trichloride and a Hidden Evolution toward a Possible Liquid–Liquid Transition

**Nature**

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
38902	Takahiko Masuda	573 (2019) 238-242	2014A1334	BL09XU	吉村 浩司	X-ray Pumping of the $^{229}\text{Th}$ Nuclear Clock Isomer
			2014B1524	BL09XU	吉村 浩司	
			2015B1380	BL09XU	吉村 浩司	
			2016A1420	BL09XU	吉村 浩司	
			2016B1232	BL09XU	吉村 浩司	
			2017B1335	BL09XU	吉村 浩司	
			2018A1326	BL19LXU	吉村 浩司	
			2018B1436	BL19LXU	吉村 浩司	
38905	Steeve Greaux	565 (2019) 218-221	2015A0075	BL04B1	入船 徹男	Sound Velocity of $\text{CaSiO}_3$ Perovskite Suggests the Presence of Basaltic Crust in the Earth's Lower Mantle
39140	Reiya Taniguchi	548 (2017) 356-360	2015A1057	BL32XU	西澤 知宏	Structural Insights into Ligand Recognition by the Lysophosphatidic Acid Receptor LPA <sub>6</sub>
			2015A1024	BL32XU	石谷 隆一郎	
			2016A2527	BL32XU	石谷 隆一郎	

**New Journal of Physics**

38828	Kazuki Sumida	21 (2019) 093006	2017A3842	BL23SU	木村 昭夫	Magnetic-Impurity-Induced Modifications to Ultrafast Carrier Dynamics in the Ferromagnetic Topological Insulators $\text{Sb}_{2-x}\text{V}_x\text{Te}_3$
38950	Xiaofan Yang	21 (2019) 113010	2017B1336	BL10XU	久保園 芳博	Superconducting Properties of $(\text{NH}_3)_x\text{Li}_x\text{FeSe}_{0.5}\text{Te}_{0.5}$ under Pressure
			2018A4132	BL12B2	久保園 芳博	
			2018B1265	BL02B1	久保園 芳博	
			2018B4140	BL12B2	久保園 芳博	
39089	Kohei Yamamoto	21 (2019) 123010	2017B8060	BL3	和達 大樹	Ultrafast Demagnetization of Pt Magnetic Moment in $\text{L}_{10}\text{-FePt}$ Probed by Magnetic Circular Dichroism at a Hard X-ray Free Electron Laser
			2017B8088	BL3	久保田 雄也	
			理研	BL19LXU		

**RSC Advances**

38932	Toshiharu Ohnuma	9 (2019) 35655-35661	2014A5350	BL16B2	野口 真一	X-ray Absorption Near Edge Structure Simulation of $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ via First-Principles Calculation
			2014B5350	BL16B2	野口 真一	
			2015A5350	BL16B2	野口 真一	
			2015B5350	BL16B2	野口 真一	
			2016A1567	BL14B2	小林 剛	
			2016A5350	BL16B2	野口 真一	
			2016B5350	BL16B2	野口 真一	
			2018A1596	BL14B2	小林 剛	
			2018B5350	BL16B2	野口 真一	
			2019A1818	BL14B2	小林 剛	
			2019A5350	BL16B2	野口 真一	
			2018B1593	BL14B2	小林 剛	
39172	Yuto Tamura	8 (2018) 35237-35245	2017A1779	BL19B2	鈴木 充朗	Improvement in Interlayer Structure of p-i-n-type Organic Solar Cells with the Use of Fullerene-Linked Tetrabenzoporphyrin as Additive
39222	Tsan Yao Chen	6 (2016) 72607-72615	2014A4137	BL12B2	Chen Tsan Yao	Shell Thickness Effects on Reconfiguration of $\text{NiO}_{\text{core}}\text{Pt}_{\text{shell}}$ Anodic Catalysis in a High Current Density Direct Methanol Fuel Cell
			2014B4137	BL12B2	Chen Tsan Yao	
			2015A4127	BL12B2	Chen Tsan Yao	
			2015A4140	BL12B2	Chen Tsan Yao	
			2015B4131	BL12B2	Chen Tsan Yao	

**ACS Applied Energy Materials**

38904	Hidenori Kuroki	1 (2018) 324-330	2016B5390	BL16B2	今井 英人	Refined Structural Analysis of Connected Platinum-Iron Nanoparticle Catalysts with Enhanced Oxygen Reduction Activity
			2017A5390	BL16B2	今井 英人	
39074	Ikuma Takahashi	2 (2019) 8118-8124	2014B5094	BL16XU	高橋 伊久磨	Mechanism of Structural Change and the Trigger of Electrochemical Degradation of Li-Rich Layered Oxide Cathodes during Charge–Discharge Cycles
			2015A5391	BL16B2	高橋 伊久磨	
			2016A5093	BL16XU	高橋 伊久磨	
			2016A7602	BL28XU	小久見 善八	
			2016B7610	BL28XU	松原 英一郎	
			2017A7610	BL28XU	松原 英一郎	

**ACS Catalysis**

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
38964	Tomohiro Yabe	8 (2018) 11470-11477	2018A1728	BL14B2	関根 泰	Ni-Mg Supported Catalysts on Low-Temperature Electrocatalytic Tri-reforming of Methane with Suppressed Oxidation
38982	Takanori Koitaya	9 (2019) 4539-4550	2015B7496	BL07LSU	吉信 淳	CO <sub>2</sub> Activation and Reaction on Zn-Deposited Cu Studied by Ambient-Pressure X-ray Photoelectron Spectroscopy
			2016A7401	BL07LSU	吉信 淳	

**Acta Crystallographica Section D**

39107	Yang Tai	75 (2019) 1096-1106	2015B2033	BL41XU	竹田 一旗	X-ray Crystallographic Studies on the Hydrogen Isotope Effects of Green Fluorescent Protein at Sub-ångström Resolutions
			2015B1037	BL41XU	竹田 一旗	
			2016A6624	BL44XU	竹田 一旗	
			2016A2536	BL41XU	竹田 一旗	
			2017A6728	BL44XU	竹田 一旗	
			2017A2542	BL41XU	竹田 一旗	
			2017B6728	BL44XU	竹田 一旗	
			2018A6827	BL44XU	竹田 一旗	
			2018B2705	BL41XU	竹田 一旗	
			2019A2560	BL41XU	竹田 一旗	
			2016B6624	BL44XU	竹田 一旗	
39249	Shigeki Arai	76 (2020) 73-84	2014B1315	BL38B1	新井 栄揮	Catalytic Mechanism and Evolutionary Characteristics of Thioredoxin from <i>Halobacterium salinarum</i> NRC-1

**Acta Materialia**

38889	Hiroyuki Okazaki	181 (2019) 530-536	2015A1007	BL02B2	廣澤 哲	Quantitative Identification of Constituent Phases in a Nd-Fe-B-Cu Sintered Magnet and Temperature Dependent Change of Electron Density of Nd <sub>2</sub> Fe <sub>14</sub> B Studied by Synchrotron X-ray Diffraction
			2015A1326	BL02B2	上野 若菜	
			2016A1009	BL02B2	廣澤 哲	
			2017A1010	BL02B2	廣澤 哲	
			2018A1009	BL02B2	廣澤 哲	
38890	Satoshi Okamoto	178 (2019) 90-98	2017B1028	BL25SU	岡本 聰	Temperature Dependent Magnetization Reversal Process of a Ga-doped Nd-Fe-B Sintered Magnet Based on First-Order Reversal Curve Analysis
			2017A1022	BL25SU	廣澤 哲	
			2015B1998	BL25SU	小谷 佳範	
			2015A2042	BL25SU	小谷 佳範	

**American Mineralogist**

38995	Mayumi Jige	103 (2018) 1126-1135	2017A1798	BL05XU	高橋 嘉夫	Fe-Kaolinite in Granite Saprolite Beneath Sedimentary Kaolin Deposites: A Mode of Fe Substitution for Al in Kaolinite
39131	Helene Breton	104 (2019) 1781-1787	2018B1464	BL10XU	駒林 鉄也	Static Compression of Fe4N to 77 GPa and its Implication for Nitrogen Storage in the Deep Earth

**Atomization and Sprays**

39147	Rubby Prasetya	29 (2019) 59-78	2014B0111	BL40XU	文 石洙	X-ray Phase Contrast Imaging of Cavitation and Discharged Liquid Jet in Nozzles with Various Sizes
			2018A0145	BL40XU	文 石洙	
39148	Rubby Prasetya	29 (2019) 123-141	2014B0111	BL40XU	文 石洙	In-Nozzle Cavitation and Discharges Liquid Jet during Transient Injection Process
			2018A0145	BL40XU	文 石洙	

**Bulletin of the Chemical Society of Japan**

39041	Chiaki Ishibashi	92 (2019) 1950-1959	2016A1509	BL19B2	井手本 康	Crystal and Electronic Structures of MgCo <sub>2-x</sub> Mn <sub>x</sub> O <sub>4</sub> as Cathode Material for Magnesium Secondary Batteries Using First-Principles Calculations and Quantum Beam Measurements
			2016B1859	BL19B2	井手本 康	
			2018A1040	BL04B2	井手本 康	
39146	Ryo Sasai	92 (2019) 1986-1992	2018A1416	BL02B2	藤村 卓也	Development of a Novel Time-Resolved Synchrotron-Radiation X-ray Diffraction Measurement System for In Situ Observation of Crystal Structure in Aqueous Solution during Chemical Reaction: Application to the Anion-Exchange Reaction of a Layered Double Hydroxide from Chloride to Nitrate
			2017B1196	BL02B2	藤村 卓也	
			2017A1483	BL02B2	藤村 卓也	
			2018A1004	BL02B2	笹井 亮	
			2015A0074	BL02B2	森吉 千佳子	

**Catalysis Science & Technology**

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
39117	Takao Gunji	9 (2019) 6577-6584	2019A1316	BL01B1	松本 太	Electrocatalytic Conversion of Carbon Dioxide to Formic Acid over Nanosized Cu <sub>x</sub> Sn <sub>5</sub> Intermetallic Compounds with a SnO <sub>2</sub> Shell Layer
39245	Yuta Nabae	10 (2020) 493-501	2017A1035	BL14B2	今井 英人	Magnetic Purification of Non-Precious Metal Fuel Cell Catalysts for Obtaining Atomically Dispersed Fe Centers

**Chemistry - A European Journal**

38837	Hidetoshi Ohta	25 (2019) 14762-14766	2017A1576	BL14B2	村山 美乃	Surface Modification of a Supported Pt Catalyst Using Ionic Liquids for Selective Hydrodeoxygénération of Phenols into Arenes under Mild Conditions
			2018A1736	BL14B2	村山 美乃	
39243	Li Hong	25 (2019) 12842-12848	2017B1309	BL02B2	Sun Hong-Tao	Defective [Bi <sub>2</sub> O <sub>2</sub> ] <sup>2+</sup> Layers Exhibiting Ultrabroad Near-Infrared Luminescence

**Communications Physics**

39069	Jonathan Pelliciani	2 (2019) 139	2014A3502	BL11XU	石井 賢司	Reciprocity between Local Moments and Collective Magnetic Excitations in the Phase Diagram of BaFe <sub>2</sub> (As <sub>1-x</sub> P <sub>x</sub> ) <sub>2</sub>
			2014B3502	BL11XU	石井 賢司	
39256	Thanh-Hung Dinh	2 (2019) 150	2016B8006	BL1	錦野 将元	Controlled Strong Excitation of Silicon as a Step towards Processing Materials at Sub-Nanometer Precision
			2017B8004	BL1	錦野 将元	
			2018A8024	BL1	錦野 将元	
			2017A8026	BL1	木下 博雄	

**European Journal of Inorganic Chemistry**

38866	Haibo Yin	2019 (2019) 3745-3752	2017A1063	BL01B1	桑原 泰隆	RuPd Alloy Nanoparticles Supported on Plasmonic H <sub>x</sub> MoO <sub>3-y</sub> for Efficient Photocatalytic Reduction of <i>p</i> -Nitrophenol
			2018B1185	BL01B1	桑原 泰隆	
39006	Jun Maruyama	2019 (2019) 4117-4121	2016A1027	BL14B2	丸山 純	Nanosscopic Combination of Edge and Flat Planes in the Active Site for Oxygen Reduction and Evolution

**High Pressure Research**

39215	Miu Kousa	(2019) Published online 12 Dec. 2019	2017B1304	BL39XU	石松 直樹	Element-Selective Elastic Properties of Fe <sub>65</sub> Ni <sub>35</sub> Invar Alloy and Fe <sub>72</sub> Pt <sub>28</sub> Alloy Studied by Extended X-ray Absorption Fine Structure
			2017B1974	BL39XU	河村 直己	
			2018B1355	BL39XU	石松 直樹	
			2019A1530	BL39XU	石松 直樹	
39238	Keitaro Kuramochi	(2019) Published online 17 Dec. 2019	2018B1361	BL39XU	石松 直樹	An Application of NPD to Double-Stage Diamond Anvil Cells: XAS Spectra of Rhenium Metal under High Pressures above 300 GPa
			2018B2091	BL39XU	河村 直己	
			2018B1380	BL10XU	境 肇	
			2019A1520	BL39XU	石松 直樹	

**Inorganic Chemistry Frontiers**

38807	Hajime Toriumi	6 (2019) 1587-1597	2016B1036	BL01B1	青木 芳尚	High-Valence-State Manganate(V) Ba <sub>3</sub> Mn <sub>2</sub> O <sub>8</sub> as an Efficient Anode of a Proton-Conducting Solid Oxide Steam Electrolyzer
			2017B1288	BL01B1	青木 芳尚	
38935	Jinyu Hu	6 (2019) 3146-3151	2018A1210	BL44B2	Lin Kun	A Case of Multifunctional Intermetallic Compounds: Negative Thermal Expansion Coupling with Magnetocaloric Effect in (Gd <sub>3</sub> Ho)(Co <sub>2</sub> Fe) <sub>2</sub>
			2018B1515	BL44B2	Lin Kun	

**IUCrJ**

38861	Tadeo Moreno Chicano	6 (2019) 1074-1085	2017B8014	BL2	Hough Michael	High-Throughput Structures of Protein-Ligand Complexes at Room Temperature using Serial Femtosecond Crystallography
39114	Toshiyuki Nishiyama	7 (2020) 10-17	2014A8038	BL3	八尾 誠	Refinement for Single-Nanoparticle Structure Determination from Low-Quality Single-Shot Coherent Diffraction Data

**The Journal of Biochemistry**

39076	Takafumi Itoh	166 (2019) 503-515	2018A2545	BL26B2	伊藤 貴文	Structural and Functional Characterization of a Glycoside Hydrolase Family 3 β-N-acetylglucosaminidase from <i>Paenibacillus</i> sp. str. FPU-7
			2017A2528	BL38B1	伊藤 貴文	
			2016B2722	BL26B1	伊藤 貴文	
			2018A2545	BL38B1	伊藤 貴文	
39096	Tomoki Himiyama	166 (2019) 89-95	2017A2513	BL38B1	中村 努	Distinct Molecular Assembly of Homologous Peroxiredoxins from <i>Pyrococcus horikoshii</i> and <i>Thermococcus kodakaraensis</i>
			2018A2521	BL38B1	中村 努	

**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
38780	Do Hwan Ahn	292 (2017) 18832-18847	2016A6662	BL44XU	Lee Bong Jin	Structural Analyses of the MazEF4 Toxin-Antitoxin Pair in <i>Mycobacterium tuberculosis</i> Provide Evidence for a Unique Extracellular Death Factor
39118	Haruka Seki	294 (2019) 17143-17154	2018A2528	BL26B2	伏信 進矢	Structural Basis for the Specific Cleavage of Core-Fucosylated N-glycans by Endo- $\beta$ -N-acetylglucosaminidase from the Fungus <i>Cordyceps militaris</i>
			2017A2540	BL26B1	伏信 進矢	
			2016B2714	BL26B1	伏信 進矢	

**The Journal of Immunology**

38783	Yukie Yamamoto	202 (2019) 3349-3358	2016A2575	BL26B1	三上 文三	Identification and Structure of an MHC Class I-Encoded Protein with the Potential to Present N-Myristoylated 4-mer Peptides to T Cells
			2017A6750	BL44XU	三上 文三	
39066	Kimiko Kuroki	203 (2019) 3386-3394	2011B1411	BL41XU	尾瀬 農之	Structural and Functional Basis for LILRB Immune Checkpoint Receptor Recognition of HLA-G Isoforms

**Journal of Physics: Condensed Matter**

38924	Xiaofan Yang	32 (2020) 025704	2017A4138	BL12B2	久保園 芳博	Superconducting Behavior of a New Metal Iridate Compound, SrIr <sub>2</sub> , under Pressure
			2017B4133	BL12B2	久保園 芳博	
			2018A4132	BL12B2	久保園 芳博	
38984	Kenji Shinozaki	32 (2020) 055705	2018B1408	BL04B2	篠崎 健二	Structural Origin of High-Density Gd <sub>2</sub> O <sub>3</sub> -MoO <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> Glass and Low-Density β'-Gd <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> Crystal: a Study Conducted using High-Energy X-ray Diffraction and EXAFS at High Temperatures
			2019A1424	BL01B1	篠崎 健二	

**Materialia**

38774	Wei-Yu Kai	5 (2019) 100194	2016A4126	BL12B2	Chen Shi-Wei	Formation Mechanism of Ni <sub>2</sub> Ti <sub>4</sub> O <sub>x</sub> in NiTi Shape Memory Alloy
38857	Yosuke Kurosaki	7 (2019) 100374	2018A5100	BL16XU	米山 明男	Effects of Ge Addition on Thermoelectric Properties in a Nanocomposite of MnSi <sub>y</sub> and SiGe Thin Films

**Materials Science and Engineering: A**

39045	Meysam Hassanipour	751 (2019) 351-362	2015A0076	BL20XU	戸田 裕之	Assessment of Predominant Microstructural Features Controlling 3D Short Crack Growth Behavior via a Surrogate Approach in Ti-6Al-4V
39046	Meysam Hassanipour	766 (2019) 138264	2015A0076	BL20XU	戸田 裕之	Effects of 3D Microstructural Distribution on Short Crack Growth Behavior in Two Bimodal Ti-6Al-4V Alloys

**Nucleic Acids Research**

38872	Takehito Tanzawa	46 (2018) 3232-3244	2017A2551	BL26B1	加藤 公児	The C-Terminal Helix of Ribosomal P Stalk Recognizes a Hydrophobic Groove of Elongation Factor 2 in a Novel Fashion
			2018A2508	BL41XU	加藤 公児	
			2016A6611	BL44XU	加藤 公児	
39078	Akira Hirata	47 (2019) 10942-10955	2013B1272	BL45XU	平田 章	Structure of tRNA Methyltransferase Complex of Trm7 and Trm734 Reveals a Novel Binding Interface for tRNA Recognition
			2014A1246	BL38B1	平田 章	
			2014A1063	BL26B1	樹田 哲哉	
			2015B2047	BL26B2	平田 章	
			2016A2547	BL38B1	平田 章	

**Organometallics**

39133	Kotohiro Nomura	38 (2019) 4497-4507	2017A1512	BL01B1	野村 琴広	Solution XAS Analysis for Exploring Active Species in Syndiospecific Styrene Polymerization and 1-Hexene Polymerization Using Half-Titanocene-MAO Catalysts: Significant Changes in the Oxidation State in the Presence of Styrene
			2018A1245	BL01B1	野村 琴広	
			2019A1233	BL01B1	野村 琴広	
39134	Masaharu Kuboki	38 (2019) 1544-1559	2018B1335	BL01B1	野村 琴広	(Arylimido)niobium(V) Complexes Containing 2-Pyridylmethylanilido Ligand as Catalyst Precursors for Ethylene Dimerization That Proceeds via Cationic Nb(V) Species

**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
38911	Michihiro Suga	366 (2019) 334-338	2016B8070	BL3	吾郷 日出夫	An Oxy/Oxo Mechanism for Oxygen-Oxygen Coupling in PSII Revealed by an X-ray Free-Electron Laser
			2017A8040	BL3	吾郷 日出夫	
			2017B8015	BL2	菅 倫寛	
			2017B8028	BL2	吾郷 日出夫	
			2018A8009	BL2	吾郷 日出夫	
			2018A8010	BL2	菅 倫寛	
			2016A2542	BL41XU	沈 建仁	
			2016B6621	BL44XU	菅 倫寛	
			2017A2535	BL41XU	沈 建仁	
			2017A6724	BL44XU	菅 倫寛	
			2017B6724	BL44XU	菅 倫寛	
			2018A2530	BL41XU	沈 建仁	
			2018B6822	BL44XU	菅 倫寛	
			2015A7002	BL33XU	林 雄二郎	Intragranular Three-Dimensional Stress Tensor Fields in Plastically Deformed Polycrystals
			2015B7002	BL33XU	林 雄二郎	
			2016A7002	BL33XU	林 雄二郎	
			2016B7002	BL33XU	林 雄二郎	
			2017A7002	BL33XU	林 雄二郎	
			2017B7002	BL33XU	林 雄二郎	
			2018A7002	BL33XU	林 雄二郎	
			2018B7002	BL33XU	林 雄二郎	
			2019A7002	BL33XU	林 雄二郎	
			2019B7002	BL33XU	林 雄二郎	

**Solid State Ionics**

38991	Kazuhiro Mori	344 (2020) 115141	2014A1413 2015A1372	BL04B2 BL04B2	森 一広 森 一広	Structural and Electrochemical Features of $(\text{Li}_2\text{S})_x(\text{SiS}_2)_{100-x}$ Superionic Glasses
39040	Naoya Ishida	343 (2019) 115080	2016A1509 2016B1859 2016A1510 2016B1852	BL19B2 BL19B2 BL14B2 BL14B2	井手本 康 井手本 康 井手本 康 井手本 康	Crystal Structure and Cathode Properties of Delithiated $\text{Li}_{1-x}\text{Mn}_{1/3}\text{Ni}_{1/3}\text{Co}_{1/3}\text{O}_2$ for Mg Rechargeable Batteries

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

39043	Kyosuke Hirayama	69 (2019) 223-227	2015A0076	BL20XU	戸田 裕之	Influence of Hydrogen on Stress Corrosion Cracking Behavior in Al-10Mg Alloy
39044	Hiro Fujihara	69 (2019) 186-193	2015A0076	BL20XU	戸田 裕之	Hydrogen Desorption Behavior in Al-8%Zn-1%Mg Alloy

**分析化学 (Bunseki Kagaku)**

38971	Satoru Kosaka	68 (2019) 801-804	2013B5071	BL16XU	野崎 洋	Determination of Trace Amount of Bromine Adsorbed on Aluminium Plate by Synchrotron Radiation XRF
			2014A5071	BL16XU	高橋 直子	
			2014B5070	BL16XU	小坂 悟	
			2015A5070	BL16XU	小坂 悟	
			2015B5070	BL16XU	小坂 悅	
39010	Seika Onozaki	68 (2019) 757-768	2018A1704	BL37XU	阿部 善也	Investigation of Physical and Chemical Characteristics of Radioactive Aerosols Emitted from Reactor Unit 1 by Fukushima Daiichi Nuclear Power Plant Accident
			2018B1748	BL37XU	阿部 善也	
			2017B1757	BL37XU	中井 泉	
			2017A1719	BL37XU	中井 泉	
			2016B1811	BL37XU	中井 泉	
			2016A1705	BL37XU	中井 泉	

**2019 30th Annual SEMI Advanced Semiconductor Manufacturing Conference (ASMC)**

38808	Murugesan Mariappan	(2019) 1-5	2019A1540	BL47XU	Mariappan Murugesan	500 nm-sized Ni-TSV with Aspect Ratio 20 for Future 3D-LSIs_A Low-Cost Electroless-Ni Plating Approach
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**ACS Applied Materials & Interfaces**

38818	Katsuyoshi Kakinuma	11 (2019) 34957-34963	2016A1007	BL14B2	犬飼 潤治	Electronic States and Transport Phenomena of Pt Nanoparticle Catalysts Supported on Nb-Doped SnO <sub>2</sub> for Polymer Electrolyte Fuel Cells
			2017A1777	BL46XU	犬飼 潤治	
			2015B5092	BL16XU	今井 英人	
			2016A5090	BL16XU	今井 英人	
			2016B5091	BL16XU	今井 英人	

**ACS Applied Nano Materials**

研究成果番号	主著者	雑誌情報	課題番号	ピームライン	実験責任者	タイトル
38903	Daisuke Takimoto	2 (2019) 5743-5751	2016B5091	BL16XU	今井 英人	Two-Dimensional Effects on the Oxygen Reduction Reaction and Irreversible Surface Oxidation of Metallic Ru Nanosheets and Nanoparticles
			2017A1035	BL14B2	今井 英人	
			2017B3397	BL08B2	今井 英人	
			2017B1612	BL14B2	今井 英人	

**ACS Earth and Space Chemistry**

38998	Shitong Yang	3 (2019) 29-38	2015A0118 2015A0118 2018A0148	BL01B1 BL27SU BL37XU	高橋 嘉夫 高橋 嘉夫 高橋 嘉夫	Comparison of Arsenate and Molybdate Speciation in Hydrogenetic Ferromanganese Nodules
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**ACS Materials Letters**

39244	Ju-Ping Ma	1 (2019) 185-191	2017B1309	BL02B2	Sun Hong-Tao	Defect-Triggered Phase Transition in Cesium Lead Halide Perovskite Nanocrystals
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**ACS Omega**

39132	Kotohiro Nomura	4 (2019) 18833-18845	2016A1455	BL01B1	野村 琴広	XAS Analysis of Reactions of (Arylimido)vanadium(V) Dichloride Complexes Containing Anionic NHC That Contains a Weakly Coordinating $B(C_6F_5)_3$ Moiety (WCA-NHC) or Phenoxide Ligands with Al Alkyls: A Potential Ethylene Polymerization Catalyst with WCA-NHC Ligands
			2016B1509	BL01B1	野村 琴広	
			2017A1512	BL01B1	野村 琴広	
			2018A1245	BL01B1	野村 琴広	
			2018B1335	BL01B1	野村 琴広	

**ACS Sustainable Chemistry & Engineering**

38793	Kengo Nakajima	7 (2019) 6522-6530	2017B1245	BL01B1	宍戸 哲也	Highly Efficient Supported Palladium–Gold Alloy Catalysts for Hydrogen Storage Based on Ammonium Bicarbonate/Formate Redox Cycle
			2017B1326	BL27SU	三浦 大樹	

**Advanced Energy Materials**

39227	Ching-Wei Tung	9 (2019) 1901308	2017A4257	BL12XU	Chen Hao-Ming	Light-Induced Activation of Adaptive Junction for Efficient Solar-Driven Oxygen Evolution: In Situ Unraveling the Interfacial Metal–Silicon Junction
			2018A4125	BL12B2	Chen Hao-Ming	
			2018A4130	BL12B2	Chen Hao-Ming	
			2018B4137	BL12B2	Chen Hao-Ming	
			2018A4254	BL12XU	Chen Hao-Ming	

**Advanced Optical Materials**

39242	Li Hong	(2019) Online published 19 Dec. 2019	2017B1309	BL02B2	Sun Hong-Tao	Theory-Guided Defect Tuning through Topochemical Reactions for Accelerated Discovery of UVC Persistent Phosphors
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**AIP Advances**

39122	Yoichi Nishino	9 (2019) 125003	2014B1809 2018A1445	BL02B2 BL02B2	宮崎 秀俊 宮崎 秀俊	Effects of Off-Stoichiometry and Ti Doping on Thermoelectric Performance of $Fe_2VAI$ Heusler Compound
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**Applied Catalysis A: General**

38965	Hirofumi Seki	581 (2019) 23-30	2018B1759	BL14B2	関根 泰	Effect of Ba Addition to Ga- $\alpha$ -Al <sub>2</sub> O <sub>3</sub> Catalyst on Structure and Catalytic Selectivity for Dehydrogenation of Ethane
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**Applied Microbiology and Biotechnology**

39231	Hsi-Ho Chiu	100 (2016) 8411-8424	2015A4000	BL12B2	Chen Chun Jung	Three Important Amino Acids Control the Regioselectivity of Flavonoid Glucosidation in Glycosyltransferase-1 from <i>Bacillus Cereus</i>
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**Applied Physics A**

39080	Kung-Liang Lin	122 (2016) 117	2015A4130	BL12B2	Lin Chih Ming	Structural Properties of Pressure-Induced Structural Phase Transition of Si-doped GaAs by Angular-Dispersive X-ray Diffraction
			2014B4142	BL12B2	Lin Chih Ming	
			2014A4134	BL12B2	Lin Chih Ming	
			2013B4129	BL12B2	Lin Chih Ming	
			2013A4131	BL12B2	Lin Chih Ming	
			2012B4125	BL12B2	Lin Chih Ming	

**Applied Sciences**

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
39113	Toshiyuki Nishiyama	9 (2019) 4932	2014A8038	BL3	八尾 誠	Multispectroscopic Study of Single Xe Clusters Using XFEL Pulses

**The Astrophysical Journal**

38974	Tao Xiong	885 (2019) 163	2018A4269	BL12XU	Zhu LinFan	Oscillator Strengths for the Lyman and Werner Bands of Molecular Hydrogen Studied by the Dipole ( $\gamma$ , $\gamma$ ) Method
			2018B4263	BL12XU	Zhu LinFan	

**Batteries and Supercaps**

39009	Takashi Nakamura	2 (2019) 688-694	2016B1194	BL37XU	雨澤 浩史	Operando Observation of Formation and Annihilation of Inhomogeneous Reaction Distribution in a Composite Electrode for Lithium-Ion Batteries
			2017A1484	BL37XU	雨澤 浩史	
			2017B1509	BL37XU	雨澤 浩史	
			2016A1310	BL37XU	雨澤 浩史	
			2014B1301	BL01B1	雨澤 浩史	
			2015A2059	BL37XU	寺田 靖子	
			2015B1389	BL37XU	雨澤 浩史	
			2015B1991	BL37XU	新田 清文	
			2016B1143	BL01B1	中村 崇司	
			2016B1968	BL37XU	新田 清文	

**Beilstein Journal of Organic Chemistry**

38912	Runa Kono	15 (2019) 2204-2212	2019A1110	BL40XU	内田 欣吾	Aggregation-Induced Emission Effect on Turn-off Fluorescent Switching of a Photochromic Diarylethene
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**Biochemical and Biophysical Research Communications**

38873	Yuxin Ye	519 (2019) 186-191	2017A2551	BL26B1	加藤 公児	The pH-Dependent Conformational Change of Eukaryotic Translation Initiation Factor 5: Insights into Partner-Binding Manner
			2018A2508	BL41XU	加藤 公児	

**Biochemistry**

38832	Takumi Kuwata	58 (2019) 2318-2325	2017A1403	BL45XU	池口 雅道	Structure, Function, Folding, and Aggregation of a Neuroferritinopathy-Related Ferritin Variant
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**Biochimica et Biophysica Acta - Bioenergetics**

39120	Jannina Preissler	1859 (2018) 8-18	2014B1032	BL09XU	Wang Hongxin	Enzymatic and Spectroscopic Properties of a Thermostable [NiFe]-Hydrogenase Performing H <sub>2</sub> -driven NAD <sup>+</sup> -reduction in the Presence of O <sub>2</sub>
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**Biochimica et Biophysica Acta - General Subjects**

39082	Siqin Bala	1864 (2020) 129418	2018B6815	BL44XU	神田 大輔	Crystal Contact-Free Conformation of an Intrinsically Flexible Loop in Protein Crystal: Tim21 as the Case Study
			2018A6815	BL44XU	神田 大輔	
			2017B6718	BL44XU	神田 大輔	
			2017A6718	BL44XU	神田 大輔	
			2016B6617	BL44XU	神田 大輔	
			2016A6617	BL44XU	神田 大輔	

**Biochimie**

38871	Wataru Saburi	144 (2018) 63-73	2017A6713	BL44XU	加藤 公児	Biochemical and Structural Characterization of <i>Marinomonas mediterranea</i> D-mannose Isomerase Marme_2490 Phylogenetically Distant from Known Enzymes
			2017B6713	BL44XU	加藤 公児	
			2016A6611	BL44XU	加藤 公児	

**Bioorganic and Medicinal Chemistry Letters**

39255	Masato Tsuyuguchi	30 (2020) 126837	2018A6814	BL44XU	木下 誉富	Structural Insights for Producing CK2α1-Specific Inhibitors
			2018B6814	BL44XU	木下 誉富	

**Biophysical Reviews**

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
38833	Daisuke Sato	11 (2019) 449-455	2012A1217	BL45XU	池口 雅道	Mechanisms of Ferritin Assembly Studied by Time-Resolved Small-Angle X-ray Scattering
			2012B1114	BL45XU	池口 雅道	
			2013B1392	BL45XU	池口 雅道	
			2015A1374	BL45XU	池口 雅道	
			2016B1217	BL45XU	池口 雅道	
			2017A1403	BL45XU	池口 雅道	
			2017B1308	BL45XU	池口 雅道	
			2018A1262	BL45XU	池口 雅道	
			2018B1404	BL45XU	池口 雅道	
			2018A1062	BL45XU	佐藤 大輔	
			2011A1133	BL45XU	池口 雅道	

**Carbohydrate Polymers**

39054	Akari Okugawa	231 (2020) 115663	2016A1098 2016B1072	BL40B2 BL40B2	山根 千弘 山根 千弘	Relaxation Phenomenon and Swelling Behavior of Regenerated Cellulose Fibers Affected by Water
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**Chem**

39214	Satoshi Tominaka	(2019) Published online 9 Dec. 2019	2017A1207	BL08W	富中 悟史	Geometrical Frustration of B-H Bonds in Layered Hydrogen Borides Accessible by Soft Chemistry
			2018A1304	BL08W	尾原 幸治	

**ChemElectroChem**

39053	Shouiti Hitomi	6 (2019) 5070-5079	2014A1543	BL46XU	駒場 慎一	Application of Acrylic-Rubber-Based Latex Binder to High-Voltage Spinel Electrodes of Lithium-Ion Batteries
			2016B1581	BL46XU	駒場 慎一	

**Chemical Geology**

39002	Masanobu Sakakibara	522 (2019) 121-134	2014A1277	BL01B1	高橋 嘉夫	Redistribution of Zn during Transformation of Ferrihydrite: Effects of Initial Zn Concentration
			2014B1348	BL01B1	高橋 嘉夫	

**Chemical Science**

39226	Naoki Ando	10 (2019) 7816-7821	2017B1179	BL40XU	笹森 貴裕	Near-Infrared Fluorescein Dyes Containing a Tricoordinate Boron Atom
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**Chemistry of Materials**

38772	Miwa Murakami	31 (2019) 7704-7710	2015A1013	BL02B2	小久見 善八	High Anionic Conductive Form of $Pb_xSn_{2-x}F_4$
			2015B1014	BL02B2	小久見 善八	

**Chemosphere**

38997	Sang-Ho Lee	211 (2018) 903-911	2018A0148	BL01B1	高橋 嘉夫	Enhanced Adsorption of Arsenate and Antimonate by Calcined Mg/Al Layered Double Hydroxide: Investigation of Comparative Adsorption Mechanism by Surface Characterization
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**Communications Biology**

38894	Norifumi Muraki	2 (2019) 385	2017A6757	BL44XU	村木 則文	Structural Characterization of HypX Responsible for CO Biosynthesis in the Maturation of NiFe-Hydrogenase
			2017B6757	BL44XU	村木 則文	
			2018A6853	BL44XU	村木 則文	
			2018B6853	BL44XU	村木 則文	

**Comptes Rendus Geoscience**

38913	Tetsuo Iritsume	351 (2019) 260-268	2015A0075	BL04B1	入船 徹男	High Pressure Generation in Kawai-type Multianvil Apparatus using Nano-Polystyrene Diamond Anvils
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**Construction and Building Materials**

39211	Sungchul Bae	237 (2020) 117714	2017A3782	BL22XU	裴 晟哲	Analysis of Atomistic Structural Deformation Characteristics of Calcium Silicate Hydrate in 53-Year-Old Tricalcium Silicate Paste using Atomic Pair Distribution Function
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**Contributed Papers from Materials Science and Technology 2019 (MS&T19)**

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
39056	Yoshikazu Nakai	(2019) 822-829	2016B1589	BL46XU	牧野 泰三	Initiation and Propagation of Rolling Contact Fatigue Cracks Observed by Laminography Using Ultra-Bright Synchrotron Radiation X-ray
			2018A1548	BL46XU	牧野 泰三	
			2018B1612	BL46XU	牧野 泰三	
			2019A1635	BL46XU	牧野 泰三	

**Crystals**

39108	Tomohiro Yamaguchi	9 (2019) 631	2015A3512	BL11XU	山口 智広	In Situ Synchrotron X-ray Diffraction Reciprocal Space Mapping Measurements in the RF-MBE Growth of GaInN on GaN and InN
			2016A3562	BL11XU	山口 智広	
			2017A3587	BL11XU	山口 智広	

**CrystEngComm**

39142	Tsan Yao Chen	18 (2016) 5860-5868	2014A4139	BL12B2	Liu Yu-Ting	Self-Aligned Synthesis of a NiPt-Alloy <sub>core</sub> @Pt <sub>shell</sub> Nanocrystal with Contrivable Heterojunction Structure and Oxygen Reduction Activity
			2014A4127	BL12B2	Liu Yu-Ting	

**ECS Transactions**

38862	Yuta Nabae	92 (2019) 621-625	2016B7907	BL36XU	難波江 裕太	In-Situ XAFS Study to Monitor the Degradation of an Fe/N/C Cathode Catalyst in PEMFC
			2017A1035	BL14B2	今井 英人	
			2018A7840	BL36XU	岩澤 康裕	
			2018B7907	BL36XU	難波江 裕太	

**Electrochemistry**

39219	Satoshi Hashigami	87 (2019) 357-364	2017B5050	BL16XU	立松 正幹	Hard X-ray Photoelectron Spectroscopy Analysis of Surface Chemistry of Spray Pyrolyzed LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> Positive Electrode Coated with Lithium Boron Oxide
			2018A5050	BL16XU	立松 正幹	
			2018B5050	BL16XU	出口 博史	

**Electrochimica Acta**

38985	Lakmini Jayasingha	329 (2020) 135177	2017B1539	BL04B2	Jayathilaka Charith	Nanoporous Cu <sub>2</sub> O Nanotube/Nanorod Array Electrodes for Non-Enzymatic Glucose Sensing with High Sensitivity and Very Low Detection Limit
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**Engineering Fracture Mechanics**

39047	Kazuyuki Shimizu	216 (2019) 106503	2015A0076	BL20XU	戸田 裕之	Hydrogen Partitioning Behavior and Related Hydrogen Embrittlement in Al-Zn-Mg Alloys
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**Enzyme and Microbial Technology**

38784	Teisuke Takita	130 (2019) 109363	2018B6848	BL44XU	三上 文三	Increase in the Thermostability of GH11 Xylanase XynJ from <i>Bacillus</i> sp. Strain 41M-1 using Site Saturation Mutagenesis
			2018A2533	BL26B1	三上 文三	

**FEBS Letters**

38870	Waraporn Auiewiriyankul	592 (2018) 2268-2281	2016A2562	BL41XU	加藤 公晃	Function and Structure of GH13_31 α-glucosidase with High α-(1→4)-glucosidic Linkage Specificity and Transglycosylation Activity
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**Frontiers in Materials**

38891	Orkun Furat	6 (2019) 145	2015A1580	BL20XU	Krill Carl	Machine Learning Techniques for the Segmentation of Tomographic Image Data of Functional Materials
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**Geochemistry, Geophysics, Geosystems**

39253	Ryoichi Nakada	20 (2019) 5319-5333	2016B1452	BL27SU	中田 亮一	Variation of Iron Species in Plagioclase Crystals by X-ray Absorption Fine Structure Analysis
			2017A1091	BL27SU	中田 亮一	

**Geochimica et Cosmochimica Acta**

39000	Hai-Bo Qin	257 (2019) 110-130	2015A0118	BL01B1	高橋 嘉夫	Enrichment Mechanisms of Antimony and Arsenic in Marine Ferromanganese Oxides: Insights from the Structure Similarity
			2015A0118	BL27SU	高橋 嘉夫	
			2017A1798	BL05XU	高橋 嘉夫	
			2018A0148	BL37XU	高橋 嘉夫	
			2018B1801	BL14B2	高橋 嘉夫	

**Geophysical Research 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
39014	Shigehiko Tateno	46 (2019) 11944-11949	2015B1367	BL10XU	館野 繁彦	Fe <sub>2</sub> S: The Most Fe-Rich Iron Sulfide at the Earth's Inner Core Pressures
			2017A1372	BL10XU	館野 繁彦	
			2017A0072	BL10XU	廣瀬 敬	

**Hyperfine Interactions**

39187	Ryo Masuda	240 (2019) 120	2017B3581	BL11XU	瀬戸 誠	Synchrotron-Radiation-Based Mössbauer Absorption Spectroscopy with High Resonant Energy Nuclides
			2018A3581	BL11XU	瀬戸 誠	
			2018B3581	BL11XU	瀬戸 誠	
			2019A3581	BL11XU	瀬戸 誠	

**Icarus**

39059	Masayuki Nishi	338 (2020) 113539	2016A1476	BL10XU	西 真之	New Aluminium Hydroxide at Multimegarbar Pressures: Implications for Water Reservoirs in Deep Planetary Interiors
			2017B1110	BL10XU	西 真之	

**Industrial & Engineering Chemistry Research**

38939	Shohei Tada	58 (2019) 19434-19445	2018B1788	BL14B2	多田 昌平	Effects of Cu Precursor Types on the Catalytic Activity of Cu/ZrO <sub>2</sub> toward Methanol Synthesis via CO <sub>2</sub> Hydrogenation
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**Inorganic Chemistry**

38934	Yili Cao	58 (2019) 13742-13745	2018B1306	BL02B2	Xing Xianran	Neutron Diffraction Study of Unusual Magnetic Behaviors in the Ho <sub>2</sub> Fe <sub>11</sub> Al <sub>6</sub> Intermetallic Compound
			2018B1515	BL44B2	Lin Kun	

**Inorganica Chimica Acta**

38875	Masahiko Maekawa	497 (2019) 119088	2016B1508	BL02B1	杉本 邦久	Self-assembly of Cu(I) Metallomacrocycles and Coordination Polymers with 2,2':5',4"-terpyridine Directed by Anions and Solvents
			2017A1866	BL02B1	杉本 邦久	
			2018B1819	BL02B1	前川 雅彦	

**Internal Journal of Hydrogen Energy**

38968	Misato Kosaka	45 (2020) 738-743	2019A1743	BL14B2	関根 泰	Low-Temperature Selective Dehydrogenation of Methylcyclohexane by Surface Protonics over Pt/Anatase-TiO <sub>2</sub> Catalyst
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**International Journal of Adhesion and Adhesives**

38925	Megumi Komada	84 (2018) 173-177	2011B3255	BL24XU	西野 孝	Enhancement of Adhesion by Applying Amine Primer to isotactic Polypropylene and Open Time Dependence of Primer Effect
			2012A4803	BL15XU	松井 純爾	
			2012B4803	BL15XU	松井 純爾	

**International Journal of Hydrogen Energy**

39019	Hirotatsu Watanabe	44 (2019) 24028-24035	2017B1412	BL27SU	渡部 弘達	Structural Evolution of Carbon Deposition on a Ni/YSZ Cermet of a SOFC Analyzed by Soft X-ray XANES Spectroscopy
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**iScience**

38960	Takahiro Yoshinaka	19 (2019) 1065-1078	2018A1003	BL41XU	山本 雅貴	Structural Basis of Mitochondrial Scaffolds by Prohibitin Complexes: Insight into a Role of the Coiled-Coil Region
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**Journal of Alloys and Compounds**

39229	E-Wen Huan	792 (2019) 116-121	2016A4136	BL12B2	Lin Chih Ming	Deviatoric Deformation Kinetics in High Entropy Alloy under Hydrostatic Compression
			2016B4132	BL12B2	Lin Chih Ming	
			2017B4131	BL12B2	Lin Chih Ming	
			2018A4131	BL12B2	Lin Chih Ming	
			2018B4138	BL12B2	Lin Chih Ming	

**Journal of Applied Crystallography**

39116	Yoshiaki Shimazu	52 (2019) 1280-1288	2014A8032	BL3	岩田 想	High-Viscosity Sample-Injection Device for Serial Femtosecond Crystallography at Atmospheric Pressure
			2014B8050	BL3	岩田 想	
			2015A8048	BL3	岩田 想	
			2015B8042	BL3	岩田 想	
			2016A8041	BL3	岩田 想	
			2016B8060	BL3	岩田 想	

**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
38869	T. Matsuda	125 (2019) 194301	2016B1535	BL13XU	石川 史太郎	Strain Deformation in GaAs/GaAsBi Core-Shell Nanowire Heterostructures

**Journal of Astronomical Telescopes, Instruments, and Systems**

38868	Hisamitsu Awaki	5 (2019) 044001	2016B1291	BL20B2	粟木 久光	Effect of Barrier Layer on Moisture Absorption of Thin Carbon-Fiber-Reinforced Plastic Mirror Substrates
			2017B1098	BL20B2	粟木 久光	

**Journal of Catalysis**

39065	Ibrahima Gueye	380 (2019) 247-253	2013A4908	BL15XU	北川 宏	Investigation of Selective Chemisorption of fcc and hcp Ru Nanoparticles using X-ray Photoelectron Spectroscopy Analysis
			2018A4506	BL15XU	坂田 修身	
			2018B4504	BL15XU	坂田 修身	
			2018A1351	BL04B2	坂田 修身	

**The Journal of Chemical Physics**

39103	Mengnan Wang	148 (2018) 144310	2017A1062	BL10XU	Howie Ross	High Pressure Synthesis and Stability of Cobalt Hydrides
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**Journal of Chemical Theory and Computation**

38895	Hiroshi Isobe	15 (2019) 2375-2391	2016B8066	BL3	沈 建仁	Spin, Valence, and Structural Isomerism in the S <sub>3</sub> State of the Oxygen-Evolving Complex of Photosystem II as a Manifestation of Multimetallic Cooperativity
			2017A8041	BL3	沈 建仁	
			2017B8025	BL2	沈 建仁	
			2018A8037	BL2	沈 建仁	
			2018B8029	BL2	沈 建仁	

**Journal of Colloid and Interface Science**

39169	Jure Cerar	560 (2020) 730-742	2018A1132	BL04B2	Temleitner László	Structural, Rheological and Dynamic Aspects of Hydrogen-Bonding Molecular Liquids: Aqueous Solutions of Hydrotropic <i>tert</i> -butyl Alcohol
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**Journal of Geophysical Research**

38892	Masayuki Nishi	124 (2019) 10231-10239	2010A0082	BL04B1	入船 徹男	Solid Solution and Compression Behavior of Hydroxides in the Lower Mantle
			2015A0075	BL04B1	入船 徹男	

**Journal of Magnetism and Magnetic Materials**

39145	Hayato Miyagawa	476 (2019) 213-217	2012B1071	BL39XU	宮川 勇人	Origin of Magnetization in Diluted Magnetic Semiconductor GaGdAs Monolayer and Superlattice
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**Journal of Materials Chemistry A**

39220	Jeng Han Wang	4 (2016) 17848-17856	2014B4137	BL12B2	Chen Tsan Yao	Local Heterojunctions of Atomic Pt Clusters Boost the Oxygen Reduction Activity of RuCore@Pdshell Nanocrystallites
			2015A4127	BL12B2	Chen Tsan Yao	
			2015B4131	BL12B2	Chen Tsan Yao	

**Journal of Molecular and Cellular Cardiology**

38920	Mark Waddingham	137 (2019) 119-131	2010B1243	BL28B2	Pearson James	Diastolic Dysfunction is Initiated by Cardiomyocyte Impairment Ahead of Endothelial Dysfunction Due to Increased Oxidative Stress and Inflammation in an Experimental Prediabetes Model
			2010B1372	BL40XU	Pearson James	
			2011A1105	BL28B2	Pearson James	
			2014B1445	BL40XU	Pearson James	
			2015B1533	BL40XU	Pearson James	
			2016B1070	BL40XU	Pearson James	

**Journal of Molecular Liquids**

39005	Koji Yoshida	293 (2019) 111477	2018B1385	BL40B2	真田 雄介	The Effect of Alkyl Ammonium Ionic Liquids on Thermal Denaturation Aggregation of β-Lactoglobulin
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**Journal of Nuclear Materials**

39246	Takayuki Kumada	528 (2020) 151890	2017B3722	BL22XU	大場 洋次郎	Anomalous Small-Angle X-ray Scattering (ASAXS) Study of Irradiation-Induced Nanostructure Change in Fe-Ion Beam Irradiated Oxide Dispersion-Strengthened (ODS) Steel
			2018A3722	BL22XU	大場 洋次郎	

**The Journal of Organic 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
39173	Eunjeong Jeong	85 (2020) 168-178	2018B1774	BL19B2	鈴木 充朗	Orbital-Energy Modulation of Tetrabenzo porphyrin-Derived Non-Fullerene Acceptors for Improved Open-Circuit Voltage in Organic Solar Cells
			2017A1779	BL19B2	鈴木 充朗	

**Journal of Power Sources**

39254	Takeshi Kobayashi	450 (2020) 227597	2013B1562	BL27SU	小林 剛	HBO <sub>2</sub> as an Adhesive Agent for the Multi-Step Fabrication of All-Solid-State Sodium Batteries
			2014A1538	BL46XU	小林 剛	
			2014A1585	BL27SU	小林 剛	
			2014A5350	BL16B2	野口 真一	
			2014B1633	BL27SU	小林 剛	
			2014B1930	BL46XU	小林 剛	
			2014B1919	BL46XU	小林 剛	
			2014B5350	BL16B2	野口 真一	
			2015A5350	BL16B2	野口 真一	
			2015B1395	BL27SU	小林 剛	
			2015B1642	BL46XU	小林 剌	
			2015B5350	BL16B2	野口 真一	
			2016A1443	BL27SU	小林 剌	
			2016A1567	BL14B2	小林 剌	
			2016A5350	BL16B2	野口 真一	
			2016B1521	BL27SU	小林 剌	
			2016B5350	BL16B2	野口 真一	
			2018A1496	BL27SU	小林 剌	
			2018A1596	BL14B2	小林 剌	
			2018A5350	BL16B2	野口 真一	
			2018B1469	BL27SU	小林 剌	
			2018B1593	BL14B2	小林 剌	
			2018B5350	BL16B2	野口 真一	
			2019A1375	BL27SU	小林 剌	
			2019A1818	BL14B2	小林 剌	
			2019A5350	BL16B2	野口 真一	
			2019B1100	BL27SU	小林 剌	
			2019B1538	BL27SU	小林 剌	
			2019B5352	BL16B2	小林 剌	

**Journal of Radioanalytical and Nuclear Chemistry**

38994	Akiko Yamaguchi	317 (2018) 545-551	2015A0118	BL01B1	高橋 嘉夫	Local Structure of Strontium Adsorbed on 2:1 Clay Minerals and its Comparison with Cesium by XAFS in Terms of Migration of Their Radioisotopes in the Environment
			2018A0148	BL37XU	高橋 嘉夫	

**Journal of Solid State Chemistry**

38865	Tetsuhiro Katsumata	279 (2019) 120919	2016B1400	BL02B2	勝又 哲裕	Synthesis of New Perovskite-Type Oxyfluorides, BaLnO <sub>2</sub> F and Comparison of the Structure among Perovskite-Type Oxyfluorides
			2016B3636	BL14B1	勝又 哲裕	

**Journal of Surface Analysis**

38976	Satoshi Yasuno	26 (2019) 202-203	2018A1563	BL46XU	安野 聰	Charge Compensation in Hard X-ray Photoelectron Spectroscopy by Electron Beam of Several Kilo-electron-volts
			2018A1695	BL46XU	池野 成裕	
			2018A1745	BL46XU	安野 聰	
			2018B1589	BL46XU	安野 聰	
			2019A1640	BL46XU	安野 聰	
			2019A1754	BL46XU	安野 聰	

**Journal of the Ceramic Society of Japan**

39111	Yohei Onodera	127 (2019) 853-863	2016A0130	BL04B2	小原 真司	Understanding Diffraction Pattern of Glassy, Liquid and Amorphous Materials via Persistent Homology Analyses
			2016A4502	BL15XU	小原 真司	

**Journal of Wood 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
39016	Suyako Tazuru	65 (2019) 60	2016B1794	BL20XU	田鶴 寿弥子	Wood Identification of Japanese Shinto Deity Statues in Matsunoo-taisha Shrine in Kyoto by Synchrotron X-ray Microtomography and Conventional Microscopy Methods
			2017B1761	BL20XU	田鶴 寿弥子	
			2011B1239	BL20XU	田鶴 寿弥子	

**Laboratory Investigation**

39012	Takeshi Matsumoto	100 (2020) 72-83	2013B1731	BL20B2	松本 健志	In vivo Monitoring of Bone Microstructure by Propagation-Based Phase-Contrast Computed Tomography using Monochromatic Synchrotron Light
			2014A1725	BL20B2	松本 健志	

**Life Science Alliance**

38917	Manabu Toyoshima	2 (2019) e201900478	2018A2552	BL41XU	小川 覚之	Enhanced Carbonyl Stress Induces Irreversible Multimerization of CRMP2 in Schizophrenia Pathogenesis
			2018A1003	BL41XU	山本 雅貴	
			2018B1011	BL41XU	山本 雅貴	

**Materials**

39221	Chih Ming Lin	9 (2016) 561	2013B4129	BL12B2	Lin Chih Ming	Structural Transitions in Nanosized Zn <sub>0.97</sub> Al <sub>0.03</sub> P Powders under High Pressure Analyzed by in Situ Angle-Dispersive X-ray Diffraction
			2013A4131	BL12B2	Lin Chih Ming	
			2014A4134	BL12B2	Lin Chih Ming	
			2014B4133	BL12B2	Lin Chih Ming	

**Materials Chemistry Frontiers**

39039	Ikuya Yamada	3 (2019) 2696-2701	2019A1476	BL02B2	山田 幾也	Various Magnetic States for Novel Layered Cobalt Oxides CaCo <sub>6</sub> O <sub>11</sub> and BaCo <sub>6</sub> O <sub>11</sub>
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**Metallomics**

39155	Naoki Fukuda	(2019) Online publication 4 Dec. 2019	2005B0743	BL37XU	中井 泉	Visible Cellular Distribution of Cadmium and Zinc in the Hyperaccumulator <i>Arabidopsis halleri</i> ssp. <i>gemmifera</i> Determined by 2-D X-ray Fluorescence Imaging using High-Energy Synchrotron Radiation
			2007A1256	BL37XU	中井 泉	
			2007A1667	BL37XU	北島 信行	
			2007A1947	BL37XU	北島 信行	

**Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science**

39048	Kazuyuki Shimizu	51 (2020) 1-19	2016A1199	BL37XU	戸田 裕之	Local Deformation and Fracture Behavior of High-Strength Aluminum Alloys Under Hydrogen Influence
			2016B1081	BL37XU	清水 一行	
			2015A0076	BL20XU	戸田 裕之	

**Metals**

38992	Tomokazu Sano	9 (2019) 1192	2016A3783	BL22XU	佐野 智一	Improving Fatigue Performance of Laser-Welded 2024-T3 Aluminum Alloy Using Dry Laser Peening
			2015B3782	BL22XU	佐野 智一	
			2016B3786	BL22XU	佐野 智一	
			2017A3788	BL22XU	佐野 智一	
			2017B3737	BL22XU	佐野 智一	
			2019A3737	BL22XU	佐野 智一	

**Microporous and Mesoporous Materials**

39156	Peidong Hu	288 (2019) 109594	2018A0155	BL04B2	脇原 徹	Synthesis and Characterization of MFI-type Zincosilicate Zeolites with High Zinc Content using Mechanochemically Treated Si-Zn Oxide Composite
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**Minerals**

38993	Tsetsgee Solongo	8 (2018) 288	2018A0148	BL37XU	高橋 嘉夫	Distribution and Chemical Speciation of Molybdenum in River and Pond Sediments Affected by Mining Activity in Erdenet City, Mongolia
			2015A0118	BL01B1	高橋 嘉夫	

**Molecular Catalysis**

38839	Zhenzhong Zhang	475 (2019) 110502	2017A1780	BL14B2	村山 美乃	The Additive Effect of Amines on the Dihydroxylation of Buta-1,3-diene into Butenediols by Supported Pd Catalysts
			2014B1897	BL14B2	大橋 弘範	
			2016A1521	BL14B2	村山 美乃	

**Molecular Cell**

研究成果番号	主著者	雑誌情報	課題番号	ピームライン	実験責任者	タイトル
39031	Wei Sun	76 (2019) 938-952	2017B2711	BL26B1	Wang Yanli	Structures of <i>Neisseria meningitidis</i> Cas9 Complexes in Catalytically Poised and Anti-CRISPR-Inhibited States
			2018A2581	BL41XU	Wang Yanli	

**Molecular Chemistry and Physics**

38927	Jian Shen	218 (2017) 1700197	2015A7210	BL03XU	和泉 篤士	Mechanical, Thermal, and Electrical Properties of Flexible Polythiophene with Disiloxane Side Chains
			2015B7260	BL03XU	和泉 篤士	
			2016A7210	BL03XU	和泉 篤士	
			2016B7260	BL03XU	和泉 篤士	

**Nano Letters**

39091	Masaki Nakano	19 (2019) 8806-8810	2018A3843	BL23SU	和達 大樹	Intrinsic 2D Ferromagnetism in V <sub>5</sub> Se <sub>7</sub> Epitaxial Thin Films
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**Nature Plants**

39141	Yongchan Lee	3 (2017) 825-832	2016B2717	BL32XU	西澤 知宏	Structure of the Triose-Phosphate/Phosphate Translocator Reveals the Basis of Substrate Specificity
			2015A1057	BL41XU	西澤 知宏	
			2016A2527	BL41XU	石谷 隆一郎	
			2015A0119	BL41XU	鴻木 理	

**NPG Asia Materials**

39201	Yohei Onodera	11 (2019) 75	2016A1499	BL04B2	滝本 康幸	Origin of the Mixed Alkali Effect in Silicate Glass
			2016A0130	BL04B2	小原 真司	

**OPMR2016-Opportunities in Processing of Metal Resources in South East Europe**

39013	Kozo Shinoda	(2016) 235-239	2014A1800	BL14B2	篠田 弘造	Local Structure Analysis using High Temperature in situ XAS of Halide Molten Salts for Ta Recovery by Electrolytic Process
			2015B1588	BL01B1	篠田 弘造	
			2016A1752	BL14B2	篠田 弘造	
			2016B1585	BL14B2	篠田 弘造	

**Organic Letters**

38973	Susumu Oda	21 (2019) 1770-1773	2017A1132	BL40XU	畠山 琢次	Tetracoordinate Boron-Fused Double [5]Helicenes as Cathode Active Materials for Lithium Batteries
			2017B1073	BL40XU	畠山 琢次	
			2018A1114	BL40XU	畠山 琢次	
			2018B1125	BL40XU	畠山 琢次	
			2016B1059	BL40XU	畠山 琢次	
			2016A1052	BL40XU	畠山 琢次	

**Photosynthesis Research**

39143	Keisuke Kawakami	142 (2019) 195-201	2014B6969	BL44XU	川上 恵典	Four Distinct Trimeric Forms of Light-Harvesting Complex II Isolated from the Green Alga <i>Chlamydomonas reinhardtii</i>
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**Physical Review C**

38981	Norihito Muramatsu	100 (2019) 055202	2015A6101	BL31LEP	村松 憲仁	Measurement of Neutral Pion Photoproduction off the Proton with the Large Acceptance Electromagnetic Calorimeter BGOegg
			2015B6101	BL31LEP	村松 憲仁	
			2016A6101	BL31LEP	村松 憲仁	
			2016B6101	BL31LEP	村松 憲仁	
			2017A6101	BL31LEP	村松 憲仁	
			2017B6101	BL31LEP	村松 憲仁	
			2017C6101	BL31LEP	村松 憲仁	

**Physical Review Letters**

39123	Hyeonjun Lee	123 (2019) 217601	2017A1361	BL13XU	Cho Chi Yong	Electric-Field-Driven Nanosecond Ferroelastic-Domain Switching Dynamics in Epitaxial Pb(Zr,Ti)O <sub>3</sub> Film
			2018A1337	BL13XU	Cho Chi Yong	

**Physical Review Materials**

38885	Yong-Chang Lau	3 (2019) 104419	2017A1048	BL39XU	藤森 淳	Giant Perpendicular Magnetic Anisotropy in Ir/Co/Pt Multilayers
			2018A1058	BL39XU	藤森 淳	

**Physics and Chemistry of Minerals**

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
38893	Masayuki Nishi	45 (2018) 995-1001	2015A0075	BL04B1	入船 徹男	Thermal Equation of State of MgSiO <sub>4</sub> H <sub>2</sub> Phase H Determined by <i>in situ</i> X-ray Diffraction and a Multianvil Apparatus

**Physics of the Earth and Planetary Interiors**

39159	Yu Nishihara	298 (2020) 106348	2015A0075	BL04B1	入船 徹男	Effect of Pressure on Temperature Measurements using WRe Thermocouple and its Geophysical Impact
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**PLoS One**

39038	Sayoko Oiki	14 (2019) e0224753	2012A1317	BL38B1	橋本 渉	Streptococcal Phosphotransferase System Imports Unsaturated Hyaluronan Disaccharide Derived from Host Extracellular Matrices
			2016A2574	BL38B1	橋本 渉	

**Polymer Journal**

38829	Saki Ishida	51 (2019) 1181-1187	2015B1100	BL40B2	寺尾 憲	Complex Formation of a Triple-helical Peptide with Sodium Heparin
			2016A1053	BL40B2	寺尾 憲	
			2016B1088	BL40B2	寺尾 憲	

**Proceedings of MicroTAS 2019**

39008	Kazuma Mawatari	(2019) 1026-1027	2017B3784	BL22XU	馬渡 和真	Structural Analysis of Water Confined in Nanochannels
			2018A3785	BL22XU	馬渡 和真	
			2018B1360	BL04B2	馬渡 和真	

**Proceedings of the 10th International Symposium on Cavitation (CAV2018)**

39153	Rubby Prasetya	(2018)	2014B0111	BL40XU	文 石洙	X-Ray Imaging of Transient Cavitation Motion in Nozzles under Steady Injection Condition
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**Proceedings of the 14th Triennial International Conference on Liquid Atomization and Spray Systems (ICLASS 2018)**

39149	Kazuya Kotani	(2018) ID200	2014B0111	BL40XU	文 石洙	X-Ray High Speed Visualization and Measurement of Cavitation Flow in a Nozzle under Transient Injection Condition
			2018A0145	BL40XU	文 石洙	

**Proceedings of the 29th International Symposium on Space Technology and Science**

39137	Yuichiro Ogata	(2013) 2013-r-51p	2012B1042	BL43IR	薮田 ひかる	Hypervelocity Capture of Murchison Meteorite Particles in Aerogel: Ground-based Experiment for the Cosmic Dusts Capture at the International Space Station
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**Proceedings of the National Academy of Sciences of the United States of America**

38817	Hiroshi Fukui	116 (2019) 21385-21391	2014B4250	BL12XU	福井 宏之	Electronic Structure of Dense Solid Oxygen from Insulator to Metal Investigated with X-ray Raman Scattering
			2015A4252	BL12XU	福井 宏之	
			2015B4253	BL12XU	福井 宏之	
			2016A4267	BL12XU	福井 宏之	
			2017A4266	BL12XU	福井 宏之	
			2017B4250	BL12XU	福井 宏之	
			2017B4265	BL12XU	福井 宏之	
			2018A4268	BL12XU	福井 宏之	
			2015B1144	BL10XU	福井 宏之	

**Progress in Nuclear Science and Technology**

38922	Shin-ichi Fujimori	5 (2018) 82-85	2015A3820	BL23SU	藤森 伸一	Electro Structure of URu <sub>2</sub> Si <sub>2</sub> Studied by Photoelectron Spectroscopy
			2015B3820	BL23SU	藤森 伸一	
			2016A3810	BL23SU	藤森 伸一	
			2016B3811	BL23SU	藤森 伸一	

**Protein and Peptide Letters**

38980	Kunpei Yamanishi	26 (2019) 792-797	2014A1035	BL38B1	柴田 直樹	Head-to-Tail Complex of Dishevelled and Axin-DIX Domains: Expression, Purification, Crystallographic Studies and Packing Analysis
			2017A2538	BL38B1	柴田 直樹	
			2017A6723	BL44XU	柴田 直樹	
			2017B6723	BL44XU	柴田 直樹	
			2017A2538	BL26B1	柴田 直樹	

**Proteins: Structure, Function, and Bioinformatics**

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
39095	Yuya Hanazono	88 (2019) 251-259	2014B1975	BL26B1	竹田 一旗	Characterization of Perdeuterated High-Potential Iron-Sulfur Protein with High-Resolution X-ray Crystallography
			2015B1041	BL41XU	竹田 一旗	

**Pure and Applied Chemistry**

38834	Milos Krabal	91 (2019) 1769-1775	2012A1187	BL01B1	Krabal Milos	Investigation of the Oxidation Process in GeTe-based Phase Change Alloy using Ge K-edge XANES Spectroscopy
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**Radiation Physics and Chemistry**

38838	Haruno Murayama	(2019) Available online 4 Feb. 2019	2016B1573	BL14B2	村山 美乃	Structure Analysis of Supported Ruthenium Catalysts under Asymmetric Hydrogenation Reaction
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**Science and Technology of Advanced Materials**

38773	Norihiko Okamoto	20 (2019) 543-556	2016B1096	BL02B1	岡本 範彦	Crystal Structure of $\eta''$ -Fe <sub>3</sub> Al <sub>7+x</sub> Determined by Single-Crystal Synchrotron X-ray Diffraction Combined with Scanning Transmission Electron Microscopy
			2017A1243	BL02B1	岡本 範彦	
			2019A1568	BL02B1	岡本 範彦	

**Science Signaling**

39235	Kunpei Yamanishi	12 (2019) eaaw5505	2014A1035	BL38B1	柴田 直樹	A Direct Heterotypic Interaction between the DIX Domains of Dishevelled and Axin Mediates Signaling to $\beta$ -catenin
			2017A2538	BL38B1	柴田 直樹	
			2017A6723	BL44XU	柴田 直樹	
			2017B6723	BL44XU	柴田 直樹	
			2017A2538	BL26B1	柴田 直樹	

**Surface Science**

39216	Takuhiko Kakiuchi	693 (2020) 121551	2016B3832	BL23SU	垣内 拓大	Initial Oxidation Processes of Ultrathin Hafnium Film and Hafnium Disilicide Islands on Si(100)-2 × 1 Surfaces Studied using Core-Level X-ray Photoelectron Spectroscopy
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**材料 (Journal of the Society of Materials Science, Japan)**

39079	Hideki Tsuruta	68 (2019) 599-606	2017A1547	BL20XU	鶴田 秀樹	Quantitative Evaluation of Creep Voids in Mod.9Cr-1Mo Steel Welded Joints with X - Ray Micro-Tomography
			2017B1586	BL20XU	鶴田 秀樹	

**鉄と鋼 (Tetsu to Hagane)**

39093	Hiroyuki Toda	105 (2019) 240-253	2015A0076	BL20XU	戸田 裕之	Optimization of Mechanical Properties in Aluminum Alloys via Hydrogen Partitioning Control
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**日本接着学会誌 (Journal of the Adhesion Society of Japan)**

39218	Takeshi Kakara	55 (2019) 421-426	2017A1813	BL19B2	加々良 剛志	In Situ Residual Stress Analysis in a Glass-Fiber-Reinforced Phenolic Resin and Copper Composite Material during Curing
			2017B1893	BL19B2	和泉 篤士	
			2018A1751	BL19B2	和泉 篤士	
			2018B1575	BL19B2	和泉 篤士	

**日本調理科学会誌 (Journal of Cookery Science of Japan)**

39121	Natsuki Hosoda	52 (2019) 386-394	2017B3201	BL24XU	高山 裕貴	Physical Properties and Structure of Wheat Noodles after Various Storage Periods
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**放射光 (Journal of the Japanese Society for Synchrotron Radiation Research)**

39068	Chikashi Toyoshima	31 (2018) 212-218	2018A0144	BL41XU	豊島 近	Dynamics of Membrane Protein and Phospholipid Interactions Revealed by X-ray Contrast Modulation
			2009B0025	BL41XU	豊島 近	
			2012B1486	BL41XU	豊島 近	
			2013A0049	BL41XU	豊島 近	

## 博士論文（奈良先端科学技術大学院大学）

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
39174	Yuto Tamura	(2018)	2017A1779	BL19B2	鈴木 充朗	Covalent Approach toward Optimum Bulk Hetero-junction Morphology in Organic Solar Cells
			2015A1683	BL19B2	鈴木 充朗	
			2015B1769	BL19B2	高橋 功太郎	
			2014B1655	BL19B2	吉本 則之	
39175	Takuya Okabe	(2018)	2017A1779	BL19B2	鈴木 充朗	Interior and Exterior Shaping of Organic Molecular Dyes for Optoelectronic Applications
			2017B1817	BL46XU	山口 裕二	
			2015A1683	BL19B2	鈴木 充朗	

## 博士論文（大阪大学）

38938	Yasutaka Tsuda	(2019) 1-184	2019A3831	BL23SU	岡田 美智雄	Oxide Formation Process and Stereodynamics of Chemical Reaction in the Initial Stage of Oxidation on Copper Alloy Surfaces
			2019A3801	BL23SU	吉越 章隆	
			2018B3831	BL23SU	岡田 美智雄	
			2018B3801	BL23SU	吉越 章隆	
			2018A3831	BL23SU	岡田 美智雄	
			2018A3801	BL23SU	吉越 章隆	
			2017B3831	BL23SU	岡田 美智雄	
			2017B3801	BL23SU	吉越 章隆	
			2017A3831	BL23SU	岡田 美智雄	
			2017A3801	BL23SU	吉越 章隆	
			2016B3831	BL23SU	岡田 美智雄	
			2016B3801	BL23SU	吉越 章隆	
			2016A3820	BL23SU	岡田 美智雄	
			2016A3801	BL23SU	吉越 章隆	
			2015B3870	BL23SU	岡田 美智雄	
			2015B3801	BL23SU	吉越 章隆	
			2015A3870	BL23SU	岡田 美智雄	
			2014B3870	BL23SU	岡田 美智雄	
			2014A3870	BL23SU	岡田 美智雄	
			2013B3870	BL23SU	岡田 美智雄	
			2013A3870	BL23SU	岡田 美智雄	

## 博士論文（神戸大学）

39154	Rubby Prasetya	(2016)	2014B0111	BL40XU	文 石洙	Cavitation in Nozzle of Fuel Injector and Its Effect on Discharged Liquid Jet
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## 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	主著者	雑誌情報		ビームライン	タイトル
38812	M. Kriener	95 (2017) 224418	理研	BL44B2	Enhanced Ferromagnetic Transition Temperature Induced by a Microscopic Structural Rearrangement in the Diluted Magnetic Semiconductor $Ge_{1-x}Mn_xTe$
38863	Daisuke Takegami	99 (2019) 165101		BL12XU	Valence Band Hard X-ray Photoelectron Spectroscopy on 3d Transition-Metal Oxides Containing Rare-Earth Elements
39032	Amol Singh	98 (2018) 235136		BL12XU	Electronic Structure Investigation of a Charge Density Wave Coupled to a Metal-to-Metal Transition in $Ce_3Co_4Sn_{13}$
39034	W.-J. Gannon	98 (2018) 075101		BL12XU	Intermediate Valence in Single Crystalline $Yb_2Si_2Al$

## Journal of Synchrotron Radiation

38970	Ryota Kinjo	23 (2016) 751-757	装置&技術	BL23SU	Spectrum Splitting for Fast Polarization Switching of Undulator Radiation
38975	Pavle Juranic	26 (2019) 2081-2085	XFEL		Transmission Measurement at the Bernina Branch of the Aramis Beamline of SwissFEL

## Angewandte Chemie International Edition

38864	Alfred Amon	58 (2019) 15928-15933		BL12XU	Interplay of Atomic Interactions in the Intermetallic Semiconductor $Be_5Pt$
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**Applied Sciences**

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
39239	Eriko Nango	9 (2019) 5505	装置&技術	SACLA	Pump-Probe Time-Resolved Serial Femtosecond Crystallography at SACLA: Current Status and Data Collection Strategies

**Catalysis Science & Technology**

39077	M. Yamauchi	9 (2019) 6561-6565	理研	BL44B2	Catalytic Enhancement on Ti-Zr Complex Oxide Particles for Electrochemical Hydrogenation of Oxalic Acid to Produce an Alcoholic Compound by Controlling Electronic States and Oxide Structures
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**Chemistry - A European Journal**

38979	Taizen Den	25 (2019) 11512-11520	理研	BL44B2	Solid-Gas Phase Synthesis of Coordination Networks by Using Redox-Active Ligands and Elucidation of Their Oxidation Reaction
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**Energy & Fuels**

39021	Hirotatsu Watanabe	32 (2018) 4248-4254		BL20B2	X-ray Computed Tomography Visualization of the Woody Char Intraparticle Pore Structure and Its Role on Anisotropic Evolution during Char Gasification
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**Japanese Journal of Applied Physics**

38858	Takuo Ohkouchi	58 (2019) 118001	理研	BL17SU	Present Status of Photoemission Electron Microscope Newly Installed in SPring-8 for Time-Resolved Nanospectroscopy
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**Journal of Materials Chemistry C**

39224	Cheng Dai	6 (2018) 3089-3096	その他	BL12B2	Developed One-Pot Synthesis of Dual-Color CdSe Quantum Dots for White Light-Emitting Diode Application
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**Journal of Power Sources**

39225	Po-Han Lee	374 (2018) 31-39	その他	BL12B2	The Storage Degradation of an 18650 Commercial Cell Studied using Neutron Powder Diffraction
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**Journal of X-ray Science and Technology**

38955	Nobuteru Nariyama	24 (2016) 343-351	加速器		Photon Source Term after Single Collision in Targets of Silicon, Copper and Lead for 50-500 keV X-ray Beams
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**Physical Review X**

39037	Chun-Fu Chang	8 (2018) 021004		BL12XU	$\sigma$ -Axis Dimer and Its Electronic Breakup: The Insulator-to-Metal Transition in $Ti_2O_3$
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**Physics of Plasmas**

38831	Masahiro Yano	26 (2019) 093108	XFEL	over all	Effects of Hole-Boring and Relativistic Transparency on Particle Acceleration in Overdense Plasma Irradiated by Short Multi-PW Laser Pulses
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**Proceedings of SPIE**

38816	S. Egawa	11108 (2019) 1110804	XFEL		An Optical Design of Twin Wolter Mirrors for Focusing and Imaging Experiments with Soft X-ray Free Electron Lasers
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**Progress in Nuclear Science and Technology**

38957	Nobuteru Nariyama	4 (2014) 257-260	加速器		Radiation Shielding in SPring-8 Linear Accelerator Tunnels for Safety Interlock System Upgrade
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**Radiation Physics and Chemistry**

38959	Nobuteru Nariyama	75 (2006) 1719-1722	理論		Photon-Produced Electron Fluence Calculated with Photoelectron Angular Distribution of Sauter Expression
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