

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/

このデータベースに登録された原著論文の内、2021 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/

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 2021 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	7	Acta Crystallographica Section F	4
Scientific Reports	7	Bulletin of the Chemical Society of Japan	4
Inorganic Chemistry	6	Dalton Transactions	4
Chemistry of Materials	5	Journal of Materials Chemistry A	4
Journal of Applied Physics	5	Journal of Synchrotron Radiation	4
The Journal of Biological Chemistry B	5	Journal of the American Chemical Society	4
Proceedings of the National Academy of Sciences of the United States of America	5	Journal of the Physical Society of Japan	4
ACS Catalysis	4	Nature Communications	4

他全 142 誌、計 244 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

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	実験責任者	タイトル
42482	Koji Kimura	104 (2021) 144101	2018B1297	BL02B2	木村 耕治	Element-selective Local Structural Analysis around <i>B</i> -site Cations in Multiferroic Pb(Fe _{1/2} Nb _{1/2})O ₃ using X-ray Fluorescence Holography
42533	H. Nishiyama	104 (2021) 115111	2018B1279	BL43IR	藤岡 淳	Variation of Charge Dynamics upon Antiferromagnetic Transitions in the Dirac Semimetal EuMnBi ₂
			2019B1219	BL43IR	藤岡 淳	
			2019B1158	BL43IR	上田 健太郎	
42551	Munisa Nurmamat	104 (2021) 155133	2019A1548	BL25SU	木村 昭夫	Bulk Dirac Cone and Highly Anisotropic Electronic Structure of NiTe ₂
			2019B1341	BL25SU	木村 昭夫	
42636	Takashi Kono	104 (2021) 195112	2018B1465	BL25SU	木村 昭夫	Three-dimensional Bulk Fermi Surfaces and Weyl Crossings of Co ₂ MnGa Thin Films Underneath a Protection Layer
			2019A1548	BL25SU	木村 昭夫	
42667	Takamasa Hirai	104 (2021) 134401	2017B0921	BL39XU	壬生 攻	Modification of Interfacial Spin-orbit Torque in Co/Pt/oxide Hybrid Structures
42706	Jun Okabayashi	103 (2021) 104435	2020A3551	BL11XU	境 誠司	Perpendicular Magnetic Anisotropy at the Fe/Au(111) Interface Studied by Mössbauer, X-ray Absorption, and Photoemission Spectroscopies
			2019A3551	BL11XU	境 誠司	
			2019B3551	BL11XU	境 誠司	
42784	Shun Asano	104 (2021) 214504	2016A1603	BL01B1	浅野 駿	Distinct Variation of Electronic States due to Annealing in <i>T</i> -type La _{1.8} Eu _{0.2} CuO ₄ and Nd ₂ CuO ₄
			2017B3611	BL14B1	辻 卓也	
			2018B3657	BL14B1	石井 賢司	

Scientific Reports

42449	Yoshiyuki Okuda	11 (2021) 19471	2019B1740	BL10XU	奥田 善之	Low-spin Ferric Iron in Primordial Bridgmanite Crystallized from a Deep Magma Ocean
			2017B1730	BL10XU	末広 翔	
42522	Ziyue Zhang	10 (2020) 6239	2018A2507	BL32XU	服部 素之	Structure-based Engineering of Anti-GFP Nanobody Tandems as Ultra-High-Affinity Reagents for Purification
			2019A2514	BL32XU	服部 素之	
42552	Petr Dolezal	11 (2021) 20878	2018A1676	BL35XU	Dolezal Petr	Lattice Dynamics in CePd ₂ Al ₂ and LaPd ₂ Al ₂
			2018B1705	BL35XU	Dolezal Petr	
42569	Hiroki Matsukawa	9 (2019) 15151	2018B8024	BL3	野澤 俊介	Fast and Stable Vapochromic Response Induced through Nanocrystal Formation of a Luminescent Platinum(II) Complex on Periodic Mesoporous Organosilica
42644	Stephen M. Keable	11 (2021) 21787	2018B8089	BL2	Yano Junko	Room Temperature XFEL Crystallography Reveals Asymmetry in the Vicinity of the Two Phytylquinones in Photosystem I
42676	Shinya Ota	11 (2021) 6237	2017B0921	BL25SU	壬生 攻	Strain-induced Modulation of Temperature Characteristics in Ferrimagnetic Tb-Fe Films
42720	Gen-ichiro Yamamoto	11 (2021) 22876	2021A3737	BL22XU	興野 純	Temperature Dependence of Amorphous Magnesium Carbonate Structure Studied by PDF and XAFS Analyses

Inorganic Chemistry

42466	Yanshan Lu	60 (2021) 15024-15030	2018A3784	BL22XU	神 浩司	Nanostructural Perspective for Destabilization of Mg Hydride Using the Immiscible Transition Metal Mn
			2019A3783	BL22XU	神 浩司	
42475	Susanne Linn Skjaervo	60 (2021) 7632-7640	2018A1442	BL08W	Einarsrud Mari-Ann	Understanding the Hydrothermal Formation of NaNbO ₃ : Its Full Reaction Scheme and Kinetics
			2018B2095	BL04B2	尾原 幸治	
			2018B1140	BL08W	鈴木 賢紀	
42521	Kazumasa Miyazaki	60 (2021) 15751-15758	2018B1149	BL39XU	山本 隆文	High-Pressure and High-Temperature Synthesis of Anion-Disordered Vanadium Perovskite Oxyhydrides
			2019B1166	BL02B2	山本 隆文	
42601	Ming-Hsi Chiang	60 (2021) 555-559	2018B1379	BL19LXU	Wang Hongxin	High-Frequency Fe-H and Fe-H ₂ Modes in a <i>trans</i> -Fe(η ² -H ₂)(H) Complex: A Speed Record for Nuclear Resonance Vibrational Spectroscopy
			2019A1259	BL19LXU	Wang Hongxin	
42635	Chengchao Zhong	60 (2021) 15667-15674	2020A1669	BL02B2	加藤 大地	Bi ₄ AO ₆ Cl ₂ (A = Ba, Sr, Ca) with Double and Triple Fluorite Layers for Visible-Light Water Splitting
			2020A1687	BL02B2	鐘 承超	
42726	Ryosuke Usui	60 (2021) 15101-15105	2019B1130	BL02B1	砂田 祐輔	Triangular Palladium Cluster from Activation of the Si-Si Bond in a Disilane with Phosphine Pendants

Chemistry of Materials-1

42464	Keitaro Iguchi	33 (2021) 2218-2228	2020A1742	BL46XU	但馬 敬介	N-type Semiconducting Polymers Based on Dicyano Naphthobisthiadiazole: High Electron Mobility with Unfavorable Backbone Twist
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Chemistry of Materials-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
42567	Kenta Watanabe	32 (2020) 10524-10537	2018B8024	BL3	野澤 俊介	New Visible-Light-Driven H ₂ - and O ₂ -Evolving Photocatalysts Developed by Ag(I) and Cu(I) Ion Exchange of Various Layered and Tunneling Metal Oxides Using Molten Salts Treatments
42711	Tsubasa Mikie	33 (2021) 8183-8193	2019B1129	BL02B1	笹森 貴裕	Extended π -Electron Delocalization in Quinoid-Based Conjugated Polymers Boosts Intrachain Charge Carrier Transport
			2019B1784	BL02B1	早川 雅大	
			2020A1742	BL46XU	但馬 敬介	
			2020A1875	BL46XU	佐伯 昭紀	
42762	Qi Xue	33 (2021) 5422-5429	2020A1088	BL02B2	Lo Benedict	Guest-Anion-Induced Rotation-Restricted Emission in UiO-66-NH ₂ and Advanced Structure Elucidation
			2020A0565	BL01B1	Lo Benedict	
			2018B1081	BL02B2	Lo Benedict	
42788	Masakuni Takahashi	33 (2021) 4907-4914	2018B1033	BL28B2	内本 喜晴	Investigation of the Suppression of Dendritic Lithium Growth with a Lithium-Iodide-Containing Solid Electrolyte
			2019A1019	BL20XU	内本 喜晴	
			2019A1023	BL28B2	内本 喜晴	
			2019B1025	BL20XU	内本 喜晴	
			2019B1348	BL28B2	内本 喜晴	
			2020A1013	BL27SU	内本 喜晴	
			2020A1014	BL27SU	内本 喜晴	
			2020A1015	BL20XU	内本 喜晴	
			2020A1016	BL08W	山本 健太郎	

Journal of Applied Physics

42480	Kento Sugawara	130 (2021) 113901	2018B3557	BL11XU	稲見 俊哉	Bulk-sensitive Magnetic Microscope Utilizing X-ray Magnetic Circularly Polarized Emission
			2018B3585	BL11XU	中田 崇寛	
			2019A3556	BL11XU	稲見 俊哉	
			2019B3556	BL11XU	稲見 俊哉	
			2019B3585	BL11XU	中田 崇寛	
			2020A3556	BL11XU	稲見 俊哉	
42497	Yuichi Akahama	129 (2021) 135902	2008B1247	BL10XU	赤浜 裕一	High-pressure Stability of bcc-vanadium and Phase Transition to a Rhombohedral Structure at 200 GPa
			2018B1144	BL10XU	赤浜 裕一	
			2020A1194	BL10XU	赤浜 裕一	
42534	Yuta Kawahira	130 (2021) 084101	2019A1713	BL46XU	山王堂 尚輝	Epitaxial Pillar-matrix Nanocomposite Thin Films of Bi-Ti-Fe-O and CoFe ₂ O ₄ Grown on SrTiO ₃ (110)
			2018B1808	BL46XU	山王堂 尚輝	
			2016A1757	BL46XU	小金澤 智之	
			2016A1513	BL46XU	小金澤 智之	
42615	Kumiko Konishi	130 (2021) 145703	2018A5400	BL16B2	米山 明男	<i>In-operando</i> X-ray Topography Analysis of SiC Metal-Oxide-Semiconductor Field-effect Transistors to Visualize Stacking Fault Expansion Motions Dynamically during Operations
			2018B5400	BL16B2	米山 明男	
			2019A5400	BL16B2	米山 明男	
			2019B5400	BL16B2	米山 明男	
			2020A5400	BL16B2	米山 明男	
42827	Mamoru Kitaura	130 (2021) 245105	2019A1064	BL01B1	北浦 守	Local Structure Analysis of Sb, Bi, and Ag Dopant Atoms in Mg ₂ Si Semiconductor by X-ray Absorption Spectroscopy and First-Principles Calculation
			2019B1526	BL01B1	北浦 守	
			2019B1079	BL25SU	北浦 守	
			2020A1504	BL01B1	北浦 守	

ACS Catalysis

42605	Alessandro Piovano	11 (2021) 13782-13796	2018B1074	BL04B2	和田 透	Formation of Highly Active Ziegler-Natta Catalysts Clarified by a Multifaceted Characterization Approach
			2019A1143	BL04B2	和田 透	
			2020A1231	BL04B2	和田 透	
42657	Takehiro Matsuyama	11 (2021) 13745-13751	2021A1620	BL14B2	山口 和也	Heterogeneously Catalyzed Selective Decarbonylation of Aldehydes by CeO ₂ -Supported Highly Dispersed Non-Electron-Rich Ni(0) Nanospecies
42672	Surya Pratap Singh	11 (2021) 13768-13781	2020A1316	BL01B1	山本 旭	A Pd-Bi Dual-Cocatalyst-Loaded Gallium Oxide Photocatalyst for Selective and Stable Nonoxidative Coupling of Methane
42792	Masaru Kato	12 (2022) 259-264	2018A7903	BL36XU	加藤 優	Structural Transformation of Pt-Ni Nanowires as Oxygen Reduction Electrocatalysts to Branched Nanostructures during Potential Cycles
			2019A7903	BL36XU	加藤 優	
			2019B7903	BL36XU	加藤 優	

Bulletin of the Chemical Society of Japan-1

42462	Kodai Yamanaka	94 (2021) 2019-2027	2020A1742	BL46XU	但馬 敬介	Effect of Ester Side Chains on Photovoltaic Performance in Thiophene-Thiazolothiazole Copolymers
			2021A1558	BL46XU	尾坂 格	

Bulletin of the Chemical Society of Japan-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
42468	Tsubasa Mikie	93 (2020) 949-957	2019A1765	BL46XU	尾坂 格	Effect of Spacer Length in Naphthobispyrazine-Based π -Conjugated Polymers on Properties, Thin Film Structures, and Photovoltaic Performances
42469	Yoshikazu Teshima	93 (2020) 561-567	2019A1765	BL46XU	尾坂 格	Dithiazolylthienothiophene Bisimide-Based π -Conjugated Polymers: Improved Synthesis and Application to Organic Photovoltaics as P-Type Semiconductor
42817	Kento Kimura	94 (2021) 2493-2497	2015B1770	BL14B2	黒田 大樹	Catalytic Aerobic Oxidation of Alkenes with Ferric Boroperoxo Porphyrin Complex; Reduction of Oxygen by Iron Porphyrin
			2016A1680	BL14B2	前田 和輝	
			2016B1766	BL14B2	高橋 俊文	
			2017A1700	BL14B2	前田 和輝	
			2017B1748	BL14B2	富藤 玲	
			2018A1690	BL14B2	高橋 俊文	
			2019A1712	BL14B2	高橋 俊文	
			2016A1549	BL14B2	倉橋 拓也	
			2018B1594	BL14B2	倉橋 拓也	
			2019B1842	BL14B2	倉橋 拓也	
			2020A1766	BL14B2	倉橋 拓也	
			2020A1624	BL14B2	倉橋 拓也	
			2021B1720	BL14B2	倉橋 拓也	

Journal of Materials Chemistry A

42642	Naohiro Ikeda	9 (2021) 15963-15967	2020A1830	BL19B2	藪内 直明	Why is the O3 to O1 Phase Transition Hindered in LiNiO_2 on Full Delithiation?
42695	Tsung-Yi Chen	8 (2020) 21756-21770	2018B4133	BL12B2	Chen Han-Yi	<i>In operando</i> Synchrotron X-ray Studies of a Novel Spinel $(\text{Ni}_{0.2}\text{Co}_{0.2}\text{Mn}_{0.2}\text{Fe}_{0.2}\text{Ti}_{0.2})_3\text{O}_4$ High-entropy Oxide for Energy Storage Applications
42696	Shao-Chu Huang	8 (2020) 21623-21633	2018B4133	BL12B2	Chen Han-Yi	Keplerate-type Polyoxometalate $\{\text{Mo}_{72}\text{Fe}_{30}\}$ Nanoparticle Anodes for High-energy Lithium-ion Batteries
42740	Wenrui Zhang	8 (2020) 25085-25093	2017A1803	BL19B2	藤井 孝太郎	Dion-Jacobson-type Oxide-ion Conductor $\text{CsLa}_2\text{Ti}_2\text{NbO}_{10.5}$ without Phase Transitions
			2017B1265	BL02B2	藤井 孝太郎	
			2018A1259	BL02B2	藤井 孝太郎	
			2018B1056	BL02B2	藤井 孝太郎	
			2019A1052	BL02B2	藤井 孝太郎	

Journal of the American Chemical Society

42545	Haobo Li	143 (2021) 17517-17525	2020A1092	BL25SU	Li Haobo	Dehydration of Electrochemically Protonated Oxide: SrCoO_2 with Square Spin Tubes
			2021A1122	BL25SU	Li Haobo	
			2020A2143	BL25SU	小谷 佳範	
42602	Vladimir Pel'menschikov	143 (2021) 8237-8243	2018B1379	BL19LXU	Wang Hongxin	Vibrational Perturbation of the $[\text{FeFe}]$ Hydrogenase H-Cluster Revealed by ^{13}C -H-ADT Labeling
42619	Ariel Benjamin Jacobs	143 (2021) 16007-16029	2011B1267	BL09XU	Solomon Edward	Nuclear Resonance Vibrational Spectroscopic Definition of the Fe(IV)_2 Intermediate Q in Methane Monooxygenase and Its Reactivity
			2012A1295	BL09XU	Solomon Edward	
			2013B0105	BL09XU	Solomon Edward	
			2017A0137	BL09XU	Solomon Edward	
			2018B1046	BL19LXU	Gee Leland	
42722	Masato Goto	143 (2021) 19207-19213	2019A1275	BL09XU	Solomon Edward	
			2020A1137	BL02B2	後藤 真人	Geometrical Spin Frustration and Monoclinic-Distortion-Induced Spin Canting in the Double Perovskites $\text{Ln}_2\text{LiFeO}_6$ ($\text{Ln} = \text{La}, \text{Nd}, \text{Sm}, \text{and Eu}$) with Unusually High Valence Fe^{5+}
			2020A1671	BL02B2	Koedtrud Anucha	
			2021A1146	BL02B2	後藤 真人	

Journal of the Physical Society of Japan

42554	Daiki Ootsuki	90 (2021) 114705	2015A1798	BL43IR	大槻 太毅	Pressure Induced Spectral Redistribution due to Te_2 Dimer Breaking in AuTe_2
42671	Hitoshi Yamaoka	90 (2021) 124801	2016B1687	BL43IR	後藤 貴之	
			2018A4258	BL12XU	辻井 直人	Direct Observation of Pressure-induced Yb Valence Transition in YbInCu_4
			2019B4252	BL12XU	辻井 直人	
			2020A4263	BL12XU	辻井 直人	
			2020A4269	BL12XU	山岡 人志	
42697	Kun Zhang	90 (2021) 113702	2018A4141	BL12B2	辻井 直人	Giant Optical Anisotropy in High Temperature Superconducting Cuprate $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$
			2019A1179	BL02B2	佐藤 宗太	
42779	Ryosuke Kiyama	89 (2020) 064702	2019A1101	BL02B2	後藤 陽介	Bulk Superconductivity Induced by Se Substitution in Self-Doped BiCh_2 -Based Compound $\text{CeOBiS}_{2-x}\text{Se}_x$
			2015A0074	BL02B2	森吉 千佳子	

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
42504	Nagakumar Bharatham	12 (2021) 5400	2018A6500	BL44XU	山下 栄樹	Structure and Function Relationship of Oqx B Efflux Pump from <i>Klebsiella pneumoniae</i>
			2018B6500	BL44XU	山下 栄樹	
			2018B6700	BL44XU	中川 敦史	
			2019A6500	BL44XU	山下 栄樹	
			2019A6700	BL44XU	中川 敦史	
			2019B6500	BL44XU	山下 栄樹	
			2019B6700	BL44XU	中川 敦史	
			2020A6500	BL44XU	山下 栄樹	
			2020A6700	BL44XU	中川 敦史	
42562	Joyce Woodhouse	11 (2020) 741	2015A8031	BL3	Weik Martin	Photoswitching Mechanism of a Fluorescent Protein Revealed by Time-Resolved Crystallography and Transient Absorption Spectroscopy
42699	Jiawei Zhang	12 (2021) 6709	2014A0078	BL02B1	Iversen Bo	Direct Observation of One-dimensional Disordered Diffusion Channel in a Chain-like Thermoelectric with Ultralow Thermal Conductivity
			2019A0159	BL02B1	西堀 英治	
42741	Wenrui Zhang	11 (2020) 1224	2017A1803	BL19B2	藤井 孝太郎	Oxide-ion Conduction in the Dion-Jacobson Phase CsBi ₂ Ti ₂ NbO ₁₀₋₅
			2017B1265	BL02B2	藤井 孝太郎	
			2018A1259	BL02B2	藤井 孝太郎	
			2018B1056	BL02B2	藤井 孝太郎	
			2019A1052	BL02B2	藤井 孝太郎	

ACS Applied Materials & Interfaces

42472	Yoshikazu Teshima	11 (2019) 23410-23416	2018A1747	BL46XU	尾坂 格	Dithiazolylthienothiophene Bisimide: A Novel Electron-Deficient Building Unit for N-Type Semiconducting Polymers
42656	Takashi Ohata	13 (2021) 54570-54578	2016B1862	BL19B2	牧浦 理恵	Uniaxially Oriented Electrically Conductive Metal–Organic Framework Nanosheets Assembled at Air/Liquid Interfaces
			2017A1569	BL19B2	牧浦 理恵	
			2017B1899	BL19B2	牧浦 理恵	
			2018A1559	BL19B2	牧浦 理恵	
			2018A2065	BL19B2	渡辺 剛	
			2018A2066	BL19B2	渡辺 剛	
			2018B1802	BL19B2	渡辺 剛	
			2019A1771	BL19B2	大畑 考司	
			2019B1860	BL19B2	大畑 考司	
			2019B1857	BL46XU	渡辺 剛	
			2018B1840	BL19B2	牧浦 理恵	
42724	Hiroiyuki Asakura	12 (2020) 55994-56003	2017A1256	BL01B1	朝倉 博行	Self-Regeneration Process of Ni–Cu Alloy Catalysts during a Three-Way Catalytic Reaction—An <i>Operando</i> Study

Catalysis Today

42598	Artur Braun	(2021) Online published 27 Apr. 2021	2018A1033	BL35XU	Wang Hongxin	From Inert Gas to Fertilizer, Fuel and Fine Chemicals: N ₂ Reduction and Fixation
42700	Tsai-Te Wang	(2020) Online published 24 Nov. 2020	2018B4267	BL12XU	Lin Yan-Gu	Hydrogenation Engineering of Bimetallic Ag–Cu-modified-titania Photocatalysts for Production of Hydrogen
42704	Ndumiso Vukile Mdllovu	(2021) Online published 18 Mar. 2021	2019A4135	BL12B2	Lin Yan-Gu	Formulation and Characterization of W-doped Titania Nanotubes for Adsorption/Photodegradation of Methylene Blue and Basic Violet 3 Dyes

Dalton Transactions

42566	Ryota Yano	50 (2021) 8696-8703	2018A8054	BL3	野澤 俊介	Vapochromic Behaviour of a Nickel(ii)-quinonoid Complex with Dimensional Changes between 1D and Higher
42713	Yasuyuki Yamada	50 (2021) 16775-16781	2019A1488	BL02B1	山田 泰之	Synthesis of a Monocationic μ -nitrido-bridged Iron Porphycene Dimer and its Methane Oxidation Activity
			2019B1168	BL02B1	山田 泰之	
			2020A1077	BL02B1	山田 泰之	
			2021A1105	BL02B1	山田 泰之	
42794	Anna Carissa San Esteban	50 (2021) 14730-14737	2020A1213	BL02B1	吉成 信人	A Chromotropic Pt ^{II} /Pd ^{II} /Co ^{II} Coordination Polymer with Dual Electrocatalytic Activity for Water Reduction and Oxidation
			2019B1107	BL02B2	吉成 信人	

Hyperfine Interactions

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
42604	Satoshi Tsutsui	242 (2021) 21	2020A2024	BL09XU	筒井 智嗣	Application of Synchrotron-radiation-based Mössbauer Spectroscopy to ¹⁹⁹ Ir 73 keV Transition
			2020A2078	BL09XU	筒井 智嗣	
42698	Satoshi Tsutsui	242 (2021) 32	2007B1351	BL39XU	水牧 仁一朗	Sm Valence Determination of Sm-based Intermetallics using ¹⁴⁹ Sm Mössbauer and Sm L _{III} -edge X-ray Absorption Spectroscopies
			2012B1538	BL01B1	東中 隆二	
			2014B1139	BL01B1	東中 隆二	
			2015B1947	BL01B1	筒井 智嗣	
			2016A1413	BL09XU	筒井 智嗣	
			2017A1060	BL09XU	筒井 智嗣	
			2017B1275	BL09XU	筒井 智嗣	
			2018A1534	BL09XU	筒井 智嗣	
			2018B2038	BL35XU	筒井 智嗣	
			2019A1226	BL09XU	筒井 智嗣	
			2020A1346	BL09XU	筒井 智嗣	
			2020A2025	BL01B1	筒井 智嗣	
			2020A2131	BL01B1	筒井 智嗣	
			2021A2052	BL39XU	筒井 智嗣	
42786	Makina Saito	242 (2021) 58	2019B1442	BL09XU	間下 亮	Effect of Silica-nanoparticle Fillers on the Johari-Goldstein-β Process in Polymer Nanocomposites
			2019A1514	BL09XU	間下 亮	
			2018B1161	BL09XU	瀬戸 誠	
			2018A1137	BL09XU	瀬戸 誠	
			2018B1105	BL09XU	間下 亮	
			2017B1397	BL09XU	間下 亮	
			2016A3366	BL08B2	岸本 浩通	
			2015A1397	BL09XU	金谷 利治	

Journal of Alloys and Compounds

42499	Xin Fu Tan	867 (2021) 159031	2017B1519	BL20XU	Salleh Arif	Rapid Fabrication of Tin-Copper Anodes for Lithium-ion Battery Applications
			2019A1149	BL20XU	野北 和宏	
			2019B1185	BL20XU	野北 和宏	
			2019B1618	BL20XU	Salleh Arif	
42505	Shintaro Kobayashi	892 (2022) 162188	2019B1004	BL02B2	廣澤 哲	Diagram of Constituent Crystalline Phases in a Nd-Fe-B-Cu Sintered Magnet by <i>in-situ</i> High-temperature Synchrotron X-ray Diffraction and its Thermodynamic Interpretation
			2020A1299	BL02B2	小林 慎太郎	
			2020A1345	BL02B2	小林 慎太郎	
			2021A1019	BL02B2	廣澤 哲	
42553	Reina Utsumi	893 (2022) 162300	2016A3652	BL14B1	齋藤 寛之	In situ Synchrotron Radiation X-ray Diffraction Measurements of Fe-Mo Alloy Hydrides Formed under High Pressure and High Temperature
			2018A3651	BL14B1	齋藤 寛之	
			2018B3651	BL14B1	齋藤 寛之	
			2019A3651	BL14B1	齋藤 寛之	
			2019B3651	BL14B1	齋藤 寛之	
			2020A3651	BL14B1	齋藤 寛之	

Journal of Synchrotron Radiation

42614	Akio Yoneyama	28 (2021) 1966-1977	2019A5400	BL16B2	米山 明男	Advanced X-ray Imaging at Beamline 07 of the SAGA Light Source
			2019B5400	BL16B2	米山 明男	
42624	Noritake Isomura	28 (2021) 1820-1824	2021A5070	BL16XU	高橋 直子	A Practical Method for Determining Film Thickness using X-ray Absorption Spectroscopy in Total Electron Yield Mode
			2021A5371	BL16B2	小坂 悟	
42631	Takuo Ohkouchi	28 (2021) 1729-1736	2016A1317	BL17SU	大河内 拓雄	Multilateral Surface Analysis of the CeB ₆ Electron-gun Cathode used at SACLA XFEL
			2016B1446	BL47XU	池永 英司	

Macromolecules

42463	Yoshikazu Teshima	54 (2021) 3489-3497	2020A1727	BL46XU	小金澤 智之	Bitiazole Dicarboxylate Ester: An Easily Accessible Electron-Deficient Building Unit for π-Conjugated Polymers Enabling Electron Transport
42465	Masahiko Saito	53 (2020) 10623-10635	2017A1771	BL46XU	尾坂 格	Significantly Sensitized Ternary Blend Polymer Solar Cells with a Very Small Content of the Narrow-Band Gap Third Component That Utilizes Optical Interference
			2017B1831	BL46XU	尾坂 格	
			2018A1747	BL46XU	尾坂 格	
42785	Daigo Kabata	54 (2021) 10723-10729	2009A1049	BL40B2	寺尾 憲	Chain Alignment of a Rigid Ring Polymer in the Lyotropic Liquid Crystal Phase: Cyclic Amylose Tris(<i>n</i> -butylcarbamate) in Tetrahydrofuran and Ethyl Lactate
			2018A1124	BL40B2	寺尾 憲	
			2018B1088	BL40B2	寺尾 憲	
			2019A1072	BL40B2	寺尾 憲	
			2019B1113	BL40B2	寺尾 憲	

ACS Applied Nano 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
42645	Taiki Hirakawa	4 (2021) 10613-10622	2019B1909	BL14B2	平川 大希	Activity-Composition Relationships of Fe-Ni-Cu Ternary Nanoparticles Supported on Al ₂ O ₃ as Three-Way Catalysts for NO Reduction
			2021A1657	BL14B2	平川 大希	
42734	Ryunosuke Nakamura	4 (2021) 9938-9944	2015A0074	BL02B2	森吉 千佳子	Critical Length for Lattice Expansion of SnO ₂ Nanorods and Nanosheets: Implications for Lithium-Ion Batteries
			2019A0068	BL02B2	森吉 千佳子	

ACS Omega

42474	Kristine Bakken	6 (2021) 9567-9576	2018A1442	BL08W	Einarsrud Mari-Ann	Structures and Role of the Intermediate Phases on the Crystallization of BaTiO ₃ from an Aqueous Synthesis Route
			2018B1164	BL08W	Einarsrud Mari-Ann	
42623	Keisuke Ichijo	6 (2021) 28421-28431	2018B1714	BL02B1	水口 敬	Crystal Structures and Optical Properties of Cyanine Dyes Depending on Various Counter Anions
			2019A1704	BL02B1	水口 敬	
			2019A1211	BL40XU	山門 陵平	

Acta Crystallographica Section F

42448	Takeshi Murakawa	77 (2021) 356-363	2018A8023	BL2	岩田 想	Microcrystal Preparation for Serial Femtosecond X-ray Crystallography of Bacterial Copper Amine Oxidase
			2020A8013	BL2	村川 武志	
			2021A8013	BL2	村川 武志	
42758	Setsu Nakae	77 (2021) 459-464	2014A6929	BL44XU	多田 俊治	Structure of Mitogen-activated Protein Kinase Kinase 1 in the DFG-out Conformation
			2014B1452	BL38B1	多田 俊治	
			2015A1018	BL38B1	多田 俊治	
			2015B2092	BL38B1	中江 摂	
			2014B6929	BL44XU	多田 俊治	

Advanced Energy Materials

42467	Masahiko Saito	10 (2020) 1903278	2017A1771	BL46XU	尾坂 格	Impact of Noncovalent Sulfur-Fluorine Interaction Position on Properties, Structures, and Photovoltaic Performance in Naphthobisthiadiazole-Based Semiconducting Polymers
			2018A1747	BL46XU	尾坂 格	
42495	Xueyan Hou	11 (2021) 2101005	2019B1441	BL27SU	中村 崇司	Lattice Oxygen Instability in Oxide-Based Intercalation Cathodes: A Case Study of Layered LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂
			2019B1450	BL27SU	中村 崇司	

Angewandte Chemie International Edition

42703	Mengjun Wang	60 (2021) 11190-11195	2019B4271	BL12XU	Lin Yan-Gu	An Efficient Interfacial Synthesis of Two-Dimensional Metal-Organic Framework Nanosheets for Electrochemical Hydrogen Peroxide Production
42719	Ryusuke Watanabe	59 (2020) 23461-23465	2018B7401	BL07LSU	原田 慈久	Ion Selectivity of Water Molecules in Subnanoporous Liquid-Crystalline Water-Treatment Membranes: A Structural Study of Hydrogen Bonding
			2017B7403	BL07LSU	和達 大樹	

Applied Surface Science

42637	Noritake Isomura	575 (2022) 151610	2020A5071	BL16XU	高橋 直子	Depth-resolved Analysis of Local Atomic Structures via X-ray Absorption Spectroscopy through the Detection of Energy-loss Auger Electrons
			2021A5070	BL16XU	高橋 直子	
42702	Chi-Jung Chang	546 (2021) 149106	2019A4259	BL12XU	Lin Yan-Gu	Ionic Liquid/Surfactant-hydrothermal Synthesis of Dendritic PbS@CuS Core-shell Photocatalysts with Improved Photocatalytic Performance

Catalysis Science & Technology

42694	Chiu-Ping Huang	10 (2020) 893-903	2018B4255	BL12XU	Hwang Bing Joe	Engineering Heterometallic Bonding in Bimetallic Electrocatalysts: towards Optimized Hydrogen Oxidation and Evolution Reactions
			2018B4268	BL12XU	Hwang Bing Joe	
42824	Akira Oda	(2022) Online published 1 Dec. 2021	2019B1263	BL01B1	織田 晃	Rational Design of ZSM-5 Zeolite Containing a High Concentration of Single Fe Sites Capable of Catalyzing the Partial Oxidation of Methane with High Turnover Frequency

Chemical Communications

42640	Raizo Umezawa	57 (2021) 2756-2759	2019B1685	BL19B2	藪内 直明	P2-type Layered Na _{0.67} Cr _{0.33} Mg _{0.17} Ti _{0.5} O ₂ for Na Storage Applications
42684	Tsubasa Omoda	57 (2021) 12159-12162	2021A1200	BL01B1	増田 晋也	Decorating an Anisotropic Au ₁₃ Core with Dendron Thiolates: Enhancement of Optical Absorption and Photoluminescence

Chemical 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
42730	Yasutaka Kuwahara	12 (2021) 9902-9915	2018B1185	BL01B1	桑原 泰隆	A Quasi-stable Molybdenum Sub-oxide with Abundant Oxygen Vacancies that Promotes CO ₂ Hydrogenation to Methanol
			2019A1050	BL01B1	桑原 泰隆	
42761	Qi Xue	13 (2022) 50-58	2020A1088	BL02B2	Lo Benedict	Controlled Synthesis of Bi- and Tri-nuclear Cu-oxo Nanoclusters on Metal-organic Frameworks and the Structure-reactivity Correlations
			2020A0565	BL01B1	Lo Benedict	

Chemistry - A European Journal

42621	Qing-Feng Xu-Xu	27 (2021) 17952-17959	2021A1630	BL14B2	植竹 裕太	Synthesis of Benzoiselenazolones via Rh(III)-Catalyzed Direct Annulative Selenation Using Elemental Selenium
42793	Tatsuhiko Kojima	27 (2021) 15981-15985	2018B1481	BL02B1	小島 達弘	A Pseudorotaxane System Containing γ -Cyclodextrin Formed via Chiral Recognition with an Au ₄ Ag ₃ Cu ₃ Molecular Cap
			2018B1296	BL02B2	吉成 信人	

Chemistry - An Asian Journal

42547	Zi Lang Goo	16 (2021) 2641-2647	2015B1237	BL02B1	吉成 信人	Heterometallation of Photoluminescent Silver(I) Sulfide Nanoclusters Protected by Octahedral Iridium(III) Thiolates
			2018B1304	BL02B1	吉成 信人	
			2020A0603	BL02B1	吉成 信人	
			2020A1213	BL02B1	吉成 信人	
			2021A1242	BL02B1	吉成 信人	
42818	Kento Kimura	16 (2021) 3615-3618	2016A1549	BL14B2	倉橋 拓也	Aerobic Direct Dioxygenation of Terminal/Internal Alkynes to α -Hydroxyketones by an Fe Porphyrin Catalyst
			2018B1594	BL14B2	倉橋 拓也	
			2019B1842	BL14B2	倉橋 拓也	
			2020A1766	BL14B2	倉橋 拓也	
			2020A1624	BL14B2	倉橋 拓也	
			2021B1720	BL14B2	倉橋 拓也	
			2015B1770	BL14B2	黒田 大樹	
			2019A1712	BL14B2	高橋 俊文	

Chemistry Letters

42494	Takayuki Yamamoto	51 (2022) 34-37	2018A1585	BL46XU	入山 恭寿	Control of Chemical Structure and Lithium-ion Conductivity of Amorphous Lithium Phosphate Thin Film Deposited by Pulsed Laser Deposition
			2018B1608	BL46XU	入山 恭寿	
			2019A1756	BL46XU	山本 貴之	
			2019B1869	BL46XU	山本 貴之	
42819	Rei Tomifuji	50 (2021) 2018-2021	2017B1748	BL14B2	冨藤 玲	FeBr ₃ -catalyzed Fully Intermolecular [2+2+2] Cycloaddition of Alkenes
			2016A1549	BL14B2	倉橋 拓也	
			2018B1594	BL14B2	倉橋 拓也	
			2019B1842	BL14B2	倉橋 拓也	
			2020A1766	BL14B2	倉橋 拓也	
			2020A1624	BL14B2	倉橋 拓也	
			2015B1770	BL14B2	黒田 大樹	
			2016A1680	BL14B2	前田 和輝	
			2016B1766	BL14B2	高橋 俊文	
			2017A1700	BL14B2	前田 和輝	
			2018A1690	BL14B2	高橋 俊文	
			2019A1712	BL14B2	高橋 俊文	
			2021B1720	BL14B2	倉橋 拓也	

Crystal Growth & Design

42596	Artem D. Charyshev	18 (2018) 3016-3026	2015A1496	BL04B1	Dymshits Anna	High-Pressure-High-Temperature Study of Benzene: Refined Crystal Structure and New Phase Diagram up to 8 GPa and 923 K
42735	Tomoki Fujita	20 (2020) 5589-5595	2015A0074	BL02B2	森吉 千佳子	Ion Product Scale for Phase and Size Selective Crystal Growth of Zirconia Nanoparticles
			2019A0068	BL02B2	森吉 千佳子	

Crystals-1

42599	Hongxin Wang	11 (2021) 909	2018A1033	BL35XU	Wang Hongxin	Nuclear Resonance Vibrational Spectroscopy: A Modern Tool to Pinpoint Site-Specific Cooperative Processes
			2018A1409	BL19LXU	Wang Hongxin	
			2018B1379	BL19LXU	Wang Hongxin	
			2019A1259	BL19LXU	Wang Hongxin	

Crystals-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
42717	Shinobu Aoyagi	11 (2021) 1419	2017A1036	BL13XU	青柳 忍	Time-Resolved Nanobeam X-ray Diffraction of a Relaxor Ferroelectric Single Crystal under an Alternating Electric Field
			2017A1465	BL13XU	青柳 忍	
			2017B1476	BL13XU	青柳 忍	
			2018B1529	BL02B1	青柳 忍	
			2018B1534	BL13XU	青柳 忍	
			2019A1308	BL13XU	青柳 忍	
			2020A0690	BL02B1	青柳 忍	
			2020A1511	BL02B1	青柳 忍	

Frontiers in Chemistry

42718	Keishi Akada	9 (2021) 743255	2018A7401	BL07LSU	原田 慈久	Hydrogen-Bonded Structure of Water in the Loop of Anchored Polyrotaxane Chain Controlled by Anchoring Density
			2018B7401	BL07LSU	原田 慈久	
			2020A7488	BL07LSU	原田 慈久	
42780	Masanori Nagao	8 (2020) 44	2015A0074	BL02B2	森吉 千佳子	Flux Growth and Superconducting Properties of (Ce,Pr)OBS ₂ Single Crystals

Geophysical Research Letters

42458	Chunying Zhou	48 (2021) e2021GL093499	2010A0082	BL04B1	入船 徹男	Sound Velocity of MgSiO ₃ Majorite Garnet up to 18 GPa and 2000 K
42492	Longjian Xie	48 (2021) e2021GL094507	2019A1315	BL04B1	Xie Longjian	Direct Viscosity Measurement of Peridotite Melt to Lower-Mantle Conditions: A Further Support for a Fractional Magma-Ocean Solidification at the Top of the Lower Mantle
			2018A1637	BL04B1	Xie Longjian	
			2017B1686	BL04B1	Xie Longjian	

High Pressure Research

42643	Ryo Tsuruoka	41 (2021) 379-391	2018A1234	BL10XU	鎌田 誠司	Density and Elastic Properties of Liquid Gallium up to 10 GPa using X-ray Absorption Method Combined with Externally Heated Diamond Anvil Cell
			2018A1673	BL10XU	前田 郁也	
			2018B1405	BL10XU	鎌田 誠司	
			2018B1701	BL10XU	前田 郁也	
			2018B3781	BL22XU	寺崎 英紀	
			2019A1526	BL10XU	寺崎 英紀	
			2019B1587	BL10XU	寺崎 英紀	
42798	Chao Liu	(2021) Online publication 13 Dec. 2021	2020A1340	BL10XU	寺崎 英紀	Exploration of the Best Reference Material on Anelastic Measurement by Cyclic Loading under High Pressure
			2015B1187	BL04B1	芳野 極	
			2016B1091	BL04B1	芳野 極	
			2017B1175	BL04B1	芳野 極	
			2018B1071	BL04B1	芳野 極	
			2021A1072	BL04B1	芳野 極	
			2019B1071	BL04B1	芳野 極	
			2021B1164	BL04B1	芳野 極	

The Journal of Physical Chemistry C

42558	Satoshi Yasuda	125 (2021) 22154-22162	2015B3622	BL14B1	八木 一三	Electrochemically Driven Specific Alkaline Metal Cation Adsorption on a Graphene Interface
			2016B3637	BL14B1	八木 一三	
			2017A3638	BL14B1	八木 一三	
			2017B3638	BL14B1	八木 一三	
			2019A3638	BL14B1	八木 一三	
42732	Yuxiao Zhang	125 (2021) 20887-20895	2018B1082	BL01B1	森 浩亮	Hybrid Phase MoS ₂ as a Noble Metal-free Photocatalyst for Conversion of Nitroaromatics to Aminoaromatics
			2018B1185	BL01B1	桑原 泰隆	

Materials Letters

42501	Nurul Razliana Abdul Razak	291 (2021) 129520	2019A1149	BL20XU	野北 和宏	<i>In-situ</i> Observation of High-temperature Pb-free Electric Interconnections by Synchrotron Microradiography
42721	Gen-ichiro Yamamoto	308 (2022) 131125	2020A3736	BL22XU	興野 純	Thermal Decomposition Process of Dypingite Mg ₅ (CO ₃) ₄ (OH) ₂ ·5H ₂ O

Physical Review Letters

42520	Ichiro Inoue	127 (2021) 163903	2019B8012	BL3	井上 伊知郎	Shortening X-Ray Pulse Duration via Saturable Absorption
			2020A8021	BL3	井上 伊知郎	
42772	Can B. Uzundal	127 (2021) 237402	2019B8066	BL1	Schwartz Craig	Polarization-Resolved Extreme-Ultraviolet Second-Harmonic Generation from LiNbO ₃

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
42493	Longjian Xie	92 (2021) 103902	2017B1078	BL04B1	桂 智男	Simultaneous Generation of Ultrahigh Pressure and Temperature to 50 GPa and 3300 K in Multi-anvil Apparatus
			2018B1209	BL04B1	桂 智男	
42630	Okkyun Seo	92 (2021) 113905	2016B4500	BL13XU	坂田 修身	Total X-ray Scattering Setup for Crystalline Particles at SPRING-8 BL15XU NIMS Beamline
			2017A4501	BL15XU	坂田 修身	
			2017B4503	BL15XU	坂田 修身	
			2018A4506	BL15XU	坂田 修身	
			2018B4504	BL15XU	坂田 修身	
			2019A4905	BL15XU	草田 康平	
			2019B4700	BL15XU	坂田 修身	
			2019B4901	BL15XU	草田 康平	
			2020A4553	BL15XU	Seo Okkyun	
			2020A4703	BL15XU	坂田 修身	
			2020A4900	BL15XU	草田 康平	
			2020A4951	BL15XU	草田 康平	
			2018A4504	BL15XU	Kim Jaemyung	
			2019A1383	BL13XU	坂田 修身	
			2020A1416	BL04B2	坂田 修身	
			2020A0622	BL04B2	Kumara L. S.	

Synlett

42820	Tasuku Inami	32 (2021) 1948-1952	2016A1549	BL14B2	倉橋 拓也	A New Synthetic Route to (Trifluoromethyl)quinolines: Nickel-Catalyzed Insertion of an Alkyne into an Aromatic C-S Bond by Formation of a Thianickelacycle and Thermal Desulfidation
			2018B1594	BL14B2	倉橋 拓也	
			2019B1842	BL14B2	倉橋 拓也	
			2020A1766	BL14B2	倉橋 拓也	
			2020A1624	BL14B2	倉橋 拓也	
			2021B1720	BL14B2	倉橋 拓也	
42821	Rei Tomifuji	32 (2021) 1943-1947	2017B1748	BL14B2	冨藤 玲	Multiple Activation Catalyst for Asymmetric [4+2] Cycloaddition of Aldehydes with Dienes
			2016A1549	BL14B2	倉橋 拓也	
			2018B1594	BL14B2	倉橋 拓也	
			2019B1842	BL14B2	倉橋 拓也	
			2020A1766	BL14B2	倉橋 拓也	
			2020A1624	BL14B2	倉橋 拓也	
			2021B1720	BL14B2	倉橋 拓也	

日本結晶学会誌 (Journal of the Crystallographic Society of Japan)

42678	Seiya Shimono	62 (2020) 112-117	2015A0074	BL02B2	森吉 千佳子	Structural Phase Transitions of Spinel Compounds by High-Resolution Powder Diffraction
			2017B1973	BL02B2	河口 彰吾	
42679	Shogo Kawaguchi	63 (2021) 121-128	2017A1856	BL02B2	河口 彰吾	Development of Sub-Second Synchrotron Powder Diffraction Measurement System Under Various Gas Atmospheres
			2019B2094	BL10XU	河口 彰吾	
			2020A2132	BL02B2	河口 彰吾	

Accounts of Materials & Surface Research

42665	Tomooki Hosaka	6 (2021) 139-150	2016A1384	BL02B2	駒場 慎一	Sodium and Potassium Insertion into Prussian Blue Analogues for Rechargeable Battery Applications
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ACS Applied Electronic Materials

42826	Goon Tan	2 (2020) 2084-2089	2018A1562	BL46XU	神野 伊策	In Situ XRD Observation of Crystal Deformation of Piezoelectric (K,Na)NbO ₃ Thin Films
			2019A1753	BL46XU	神野 伊策	

ACS Applied Energy Materials

42742	Keisuke Hibino	4 (2021) 8891-8900	2017B1265	BL02B2	藤井 孝太郎	Experimental Visualization of the Interstitialcy Diffusion of Anions in the LaOF-Based Oxyfluoride La _{0.9} Sr _{0.1} O _{0.45} F ₂
			2018A1259	BL02B2	藤井 孝太郎	

ACS Applied Polymer Materials

42473	Masahiko Saito	1 (2019) 1257-1262	2015A1952	BL46XU	尾坂 格	Understanding Comparable Charge Transport Between Edge-on and Face-on Polymers in a Thiazolothiazole Polymer System
			2015B1904	BL46XU	尾坂 格	

ACS Materials Au

42727	Dongshuang Wu	(2021) Online published Nov. 15, 2021	2014B1382	BL02B2	北川 宏	Phase Control of Solid-Solution Nanoparticles beyond the Phase Diagram for Enhanced Catalytic Properties
			2015A1586	BL02B2	草田 康平	
			2016A1483	BL02B2	草田 康平	

ACS Nano

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
42693	Tamene Simachew Zeleke	13 (2019) 6720-6729	2018B4134	BL12B2	Hwang Bing Joe	Immobilized Single Molecular Molybdenum Disulfide on Carbonized Polyacrylonitrile for Hydrogen Evolution Reaction
			2018B4136	BL12B2	Hwang Bing Joe	

ACS Sustainable Chemistry & Engineering

42568	Kenta Watanabe	7 (2019) 9881-9887	2018A8054	BL3	野澤 俊介	Effects of Coapplication of Rh-Doping and Ag-Substitution on the Band Structure of Li_2TiO_3 and the Photocatalytic Property
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Acta Materialia

42498	Syeda Mehreen	220 (2021) 117295	2019A1149	BL20XU	野北 和宏	Peritectic Phase Formation Kinetics of Directionally Solidifying Sn-Cu Alloys within a Broad Growth Rate Regime
			2019B1185	BL20XU	野北 和宏	

Advanced Functional Materials

42459	Chihiro Yamamoto	31 (2021) 2008092	2018A4701	BL15XU	井手 啓介	Double Charge Polarity Switching in Sb-Doped SnSe with Switchable Substitution Sites
			2018B4701	BL15XU	井手 啓介	

Applied Physics Letters

42775	Kota Matsumoto	116 (2020) 191901	2019A0068	BL02B2	森吉 千佳子	Increased Electrical Conduction with High Hole Mobility in Anti-ThCr ₂ Si ₂ -type La ₂ O ₂ Bi via Oxygen Intercalation Adjacent to Bi Square Net
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Applied Sciences

42674	Wataru Yashiro	11 (2021) 8868	2020A0559	BL28B2	矢代 航	Exploring Frontiers of 4D X-ray Tomography
			2015B1263	BL28B2	矢代 航	
			2016A1258	BL28B2	矢代 航	
			2016B1229	BL28B2	矢代 航	
			2017A1438	BL28B2	矢代 航	
			2017B1278	BL28B2	矢代 航	
			2018A1100	BL28B2	矢代 航	
			2018B1078	BL28B2	矢代 航	
			2019A1212	BL28B2	矢代 航	
			2019B1074	BL28B2	矢代 航	
			2020A0176	BL28B2	矢代 航	

Asian Journal of Organic Chemistry

42451	Toshiaki Murai	8 (2019) 1102-1106	2018B1389	BL40XU	行本 万里子	2-(2-Hydroxyphenyl)-5-aminothiazoles: Synthesis and Properties Involving Dual Emissions
			2018A1167	BL40XU	笹森 貴裕	
			2018A1405	BL40XU	箕浦 真生	
			2018B1084	BL40XU	笹森 貴裕	
			2018B1275	BL40XU	箕浦 真生	

Biochemical and Biophysical Research Communications

42709	Hong-Hsiang Guan	551 (2021) 33-37	2017B6600	BL44XU	Chen Chun Jung	Structural Basis for the Interaction Modes of Dihydroorotase with the Anticancer Drugs 5-fluorouracil and 5-aminouracil
			2017A6600	BL44XU	Chen Chun Jung	
			2017A4000	BL12B2	Chen Chun Jung	

Biochemistry

42737	Leland B. Gee	60 (2021) 2419-2424	2019A1259	BL19LXU	Wang Hongxin	NRVS and DFT of MitoNEET: Understanding the Special Vibrational Structure of a [2Fe-2S] Cluster with (Cys) ₃ (His) ₁ Ligation
			2018B1379	BL19LXU	Wang Hongxin	
			2018A1409	BL19LXU	Wang Hongxin	

Bioinorganic Chemistry and Applications

42710	Hong-Hsiang Guan	(2021) 2572844	2017A6600	BL44XU	Chen Chun Jung	Complexed Crystal Structure of <i>Saccharomyces cerevisiae</i> Dihydroorotase with Inhibitor 5-Fluoroorotate Reveals a New Binding Mode
			2017B6600	BL44XU	Chen Chun Jung	
			2017A4000	BL12B2	Chen Chun Jung	

Biomolecular NMR Assignments

42690	Naoto Iwakawa	13 (2019) 59-62	2018B6805	BL44XU	大木 出	Backbone and Side-chain Resonance Assignments of the Methyl-CpG-binding Domain of MBD6 from <i>Arabidopsis thaliana</i>
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Condensed Matter

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
42781	Kazuhisa Hoshi	5 (2020) 81	2019A1114	BL02B2	三浦 章	Structural Phase Diagram of $\text{LaO}_{1-x}\text{F}_x\text{BiSe}$: Suppression of the Structural Phase Transition by Partial F Substitutions
			2019B1195	BL02B2	後藤 陽介	
			2015A0074	BL02B2	森吉 千佳子	

CrystEngComm

42795	Supattra Somsri	24 (2022) 33-37	2021A1203	BL02B1	小島 達弘	Inclusion of Cyclodextrins in a Metallosupramolecular Framework <i>via</i> Structural Transformations
			2020A1210	BL02B2	吉成 信人	

Data in Brief

42731	Tomohiro Oku	39 (2021) 107462	2017A1464	BL02B2	小菅 厚子	Dataset of the Crystal Structures, Electrical Transport Properties, and First-principles Electronic Structures of GeTe-rich GeTe-Sb ₂ Te ₃ Thermoelectric Materials
			2015A0074	BL02B2	森吉 千佳子	
			2019A1463	BL02B2	小菅 厚子	

Energy Material Advances

42641	Takuro Sato	2021 (2021) 9857563	2019B1685	BL19B2	藪内 直明	Efficient Stabilization of Na Storage Reversibility by Ti Integration into O'3-Type NaMnO_2
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Energy Storage Materials

42707	Kazuhiko Mukai	44 (2022) 547-556	2020A7037	BL33XU	宇山 健	Unveiling Scale Differences in the Two-phase Transformation of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ via <i>operando</i> X-ray Absorption and Diffraction Studies
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EPJ Web of Conference

42597	Masaru Yosoi	199 (2019) 01020	2018B6102	BL31LEP	新山 雅之	Recent Results from LEPS and Status of LEPS2
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The FEBS Journal

42518	Nobutoshi Ito	274 (2007) 1340-1351	2003B0229	BL41XU	伊藤 晋敏	Molecular Basis for the Subunit Assembly of the Primase from an Archaeon <i>Pyrococcus horikoshii</i>
			理研	BL44B2		

Frontiers in Materials

42606	Sohei Sukenaga	8 (2021) 753746	2017B1400	BL04B2	助永 壮平	Thermal Conductivity of Sodium Silicate Glasses and Melts: Contribution of Diffusive and Propagative Vibration Modes
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Genes to Cells

42519	Yumiko Takai	12 (2007) 1329-1338	2006A2740	BL41XU	箱嶋 敏雄	Structural Basis of PSGL-1 Binding to ERM Proteins
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Industrial & Engineering Chemistry Research

42725	Hiroyuki Asakura	59 (2020) 19907-19917	2018B0938	BL01B1	若林 裕助	Fe-Modified CuNi Alloy Catalyst as a Nonprecious Metal Catalyst for Three-Way Catalysis
			2018B0938	BL14B2	若林 裕助	

Inorganics

42612	Shogo Morisako	9 (2021) 75	2018A1167	BL40XU	笹森 貴裕	Facile Synthesis and Redox Behavior of an Overcrowded Spirogermabifluorene
			2018B1668	BL02B1	菅原 知紘	
			2018B1179	BL25SU	三木 一司	
			2019A1057	BL02B1	笹森 貴裕	
			2019A1677	BL02B1	鈴木 文陽	
			2019B1129	BL02B1	笹森 貴裕	
			2019B1784	BL02B1	早川 雅大	
			2020A1056	BL02B1	笹森 貴裕	
			2020A1644	BL02B1	潘 楊	
			2020A1650	BL02B1	薄葉 純一	
			2020A0834	BL02B1	西野 龍平	

Insect Systematics & Evolution

42685	Mamoru Takahashi	(2021) Online Publication 2 Nov. 2021	2018B1688	BL47XU	小川 直記	Functional Morphology and Phylogenetic Significance of the Forewing Base Structure in Ensifera (Orthoptera)
			2018B1725	BL20B2	小川 直記	

International Journal of Hydrogen Energy

42753	Mami Osozawa	47 (2022) 2433-2441	2020A1626	BL14B2	大島 一真	Improvement in Ammonia Synthesis Activity on Ruthenium Catalyst using Ceria Support Modified a Large Amount of Cesium Promoter
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International Journal of Molecular 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
42823	Peng Lu	22 (2021) 13010	2017B6733	BL44XU	永田 宏次	Rosmarinic Acid and Sodium Citrate Have a Synergistic Bacteriostatic Effect against <i>Vibrio</i> Species by Inhibiting Iron Uptake
			2018B6831	BL44XU	永田 宏次	
			2020A6528	BL44XU	永田 宏次	

iScience

42524	Yichen Huang	24 (2021) 102370	2019A2514	BL32XU	服部 素之	Identification and Mechanistic Analysis of an Inhibitor of the CorC Mg ²⁺ Transporter
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IUCrJ

42536	Hongjie Li	8 (2021) 431-443	2018B8055	BL2	菅 倫寛	Capturing Structural Changes of the S ₁ to S ₂ Transition of Photosystem II using Time-resolved Serial Femtosecond Crystallography
			2019A8019	BL2	菅 倫寛	
			2019B8020	BL2	菅 倫寛	
			2020A8003	BL2	菅 倫寛	
			2016A8033	BL3	沈 建仁	
			2016B8066	BL3	沈 建仁	
			2017A8041	BL3	沈 建仁	
			2017B8025	BL2	沈 建仁	
			2018A8037	BL2	沈 建仁	
			2018B8029	BL2	沈 建仁	

Japanese Journal of Applied Physics

42822	Yasuhiro Yoneda	60 (2021) SFFA08	2019A1217	BL22XU	米田 安宏	Nanoscale Structural Analysis of Bi _{0.5} Na _{0.5} TiO ₃ in High-temperature Phases
			2019A3607	BL14B1	米田 安宏	
			2019B1194	BL04B2	米田 安宏	
			2021A3701	BL22XU	米田 安宏	
			2021A1134	BL04B2	米田 安宏	

Journal of Analytical and Applied Pyrolysis

42701	Hung-Chih Kuo	153 (2021) 104991	2018B4129	BL12B2	Lin Yan-Gu	FeN@N-doped Graphitic Biochars Derived from Hydrothermal-Microwave Pyrolysis of Cellulose Biomass for Fuel Cell Catalysts
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The Journal of Biological Chemistry

42677	Tomoyuki Mori	283 (2008) 29602-29612	2005B0070	BL38B1	箱嶋 敏雄	Structural Basis for CD44 Recognition by ERM Proteins
			2006A1740	BL38B1	箱嶋 敏雄	
			2006B1644	BL38B1	箱嶋 敏雄	

The Journal of Chemical Physics

42796	Niloufar Esmailidoost	155 (2021) 214501	2018A8063	BL3	Kim Kyung Hwan	Anomalous Temperature Dependence of the Experimental X-ray Structure Factor of Supercooled Water
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Journal of Electronic Materials

42502	Syeda U. Mehreen	50 (2021) 881-892	2016B1319	BL20B2	野北 和宏	Effect of Ni, Zn, Au, Sb and In on the Suppression of the Cu ₃ Sn Phase in Sn-10 wt.%Cu Alloys
			2019A1149	BL20XU	野北 和宏	
			2019B1185	BL20XU	野北 和宏	

Journal of Environmental Chemical Engineering

42791	Yurina Sekine	9 (2021) 105114	2018A3609	BL14B1	松村 大樹	Carbonated Nanohydroxyapatite from Bone Waste and its Potential as a Super Adsorbent for Removal of Toxic Ions
			2018B3609	BL14B2	松村 大樹	
			2019A3609	BL14B2	松村 大樹	
			2019B3609	BL14B2	松村 大樹	

Journal of Geophysical Research: Biogeosciences

42538	Yajuan Zheng	126 (2021) e2020JG006102	2018B1742	BL47XU	小宮 剛	Characterization of the Multicellular Membrane-Bearing Algae From the Kuanchuanpu Biota (Cambrian: Terreneuvian)
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Journal of Geophysical Research: Solid Earth

42765	Hongzhan Fei	126 (2021) e2021JB022437	2019B1136	BL10XU	桂 智男	Pressure Destabilizes Oxygen Vacancies in Bridgmanite
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Journal of Luminescence

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
42525	Hirokazu Masai	241 (2022) 118481	2020A1878	BL14B2	正井 博和	²⁵² Cf-induced Luminescence of Cerium-doped Lithium Silicate Glasses

Journal of Materials Chemistry C

42546	Masayuki Fukuda	9 (2021) 13981-13990	2020A0793	BL02B2	藤田 晃司	Topochemical Synthesis of Perovskite-type CuNb ₂ O ₆ with Colossal Dielectric Constant
			2021A1530	BL02B2	藤田 晃司	

Journal of Molecular Biology

42517	Kazuhiko Ishikawa	366 (2007) 857-867	2005B6701	BL44XU	石川 一彦	The First Crystal Structure of L-Threonine Dehydrogenase
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The Journal of Organic Chemistry

42537	Shinya Sugiura	84 (2019) 8886-8898	2018A1679	BL40B2	笹野 力史	Ion-Pairing Assemblies Comprising Anion Complexes of π -Extended Anion-Responsive Molecules
			2018B1698	BL40B2	笹野 力史	

The Journal of Physical Chemistry B

42515	Tatau Shimada	125 (2021) 11534-11539	2018B7574	BL07LSU	崔 藝濤	Soft X-ray Emission Studies on Hydrate-Melt Electrolytes
			2017B7548	BL07LSU	崔 藝濤	

The Journal of Physical Chemistry Letters

42723	Kana Takahashi	12 (2021) 11430-11437	2020A1627	BL19B2	中山 泰生	Quasi-Homoepitaxial Junction of Organic Semiconductors: A Structurally Seamless but Electronically Abrupt Interface between Rubrene and Bis(trifluoromethyl)dimethylrubrene
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Journal of Physics Communications

42776	Kazuhisa Hoshi	4 (2020) 095028	2018B1246	BL02B2	後藤 陽介	Two-fold Symmetry of in-plane Magnetoresistance Anisotropy in the Superconducting States of BiCh ₂ -based LaO _{0.9} F _{0.1} BiSSe Single Crystal
			2015A0074	BL02B2	森吉 千佳子	

Journal of Physics: Condensed Matter

42479	Masanori Inui	33 (2021) 475101	2017A1173	BL35XU	乾 雅祝	Low Energy Excitation in Liquid Sb and Liquid Bi Observed in Inelastic X-ray Scattering Spectra
			2011B1314	BL35XU	乾 雅祝	

Journal of Power Sources Advances

42561	Manabu Kodama	12 (2021) 100076	2020A1035	BL20XU	兒玉 学	Nanoscale Pore Measurements in an All-solid-state Lithium-ion Battery with Ultra-small-angle X-ray Scattering (USAXS)
			2020A1781	BL20XU	兒玉 学	
			2021A1016	BL20XU	兒玉 学	

Journal of The Electrochemical Society

42456	Hiroyuki Fujimoto	168 (2021) 090515	2016A7602	BL28XU	小久見 善八	Analysis of Intercalation/De-Intercalation of Li Ions Into/From Graphite at 0 °C via Operando Synchrotron X-ray Diffraction
			2016B7603	BL28XU	松原 英一郎	
			2017A7603	BL28XU	松原 英一郎	
			2017B7603	BL28XU	松原 英一郎	
			2018A7603	BL28XU	松原 英一郎	
			2019A7613	BL28XU	安部 武志	
			2019B7613	BL28XU	安部 武志	

Langmuir

42560	Daiki Katsube	37 (2021) 12313-12317	2017A3832	BL23SU	大野 真也	Oxidation of Anatase TiO ₂ (001) Surface Using Supersonic Seeded Oxygen Molecular Beam
			2017B3832	BL23SU	大野 真也	
			2018A3832	BL23SU	阿部 真之	
			2018B3838	BL23SU	阿部 真之	
			2019A3838	BL23SU	阿部 真之	
			2020A3838	BL23SU	阿部 真之	
			2021A3838	BL23SU	阿部 真之	
			2017A3801	BL23SU	吉越 章隆	
			2017B3801	BL23SU	吉越 章隆	
			2018A3801	BL23SU	吉越 章隆	
			2018B3801	BL23SU	吉越 章隆	

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
42516	Masakazu Kobayashi	14 (2021) 5570	2017B1404 2018B1329	BL20XU BL20XU	小林 正和 小林 正和	High-Resolution Mapping of Local Photoluminescence Properties in CuO/Cu ₂ O Semiconductor Bi-Layers by Using Synchrotron Radiation

Materials Science and Engineering: A

42454	Isshin Ando	828 (2021) 142112	2018B1263	BL20XU	尾崎 由紀子	Elucidation of Pore Connection Mechanism during Ductile Fracture of Sintered Pure Iron by Applying Persistent Homology to 4D Images of Pores: Role of Open Pore
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Materials Transactions

42531	Shan Lin	62 (2021) 1673-1676	2018B1043 2020A7224	BL40XU BL03XU	奥田 浩司 奥田 浩司	Nondestructive Nanostructure Analysis of Al/Al-Zn Interdiffusion Layer by Quantitative SAXS Tomography
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Microscopy

42748	Tomofumi Kurogane	70 (2021) 536-544	2014B1225 2016A1390 2016B1371 2017B1225 2018B1182 2019A1130 2019B1339 2020A1264	BL20B2 BL47XU BL20B2 BL20B2 BL20B2 BL20B2 BL20B2 BL20B2	唐原 一郎 峰雪 芳宣 山内 大輔 山内 大輔 山内 大輔 山内 大輔 山内 大輔 山内 大輔	Visualization of Arabidopsis Root System Architecture in 3D by Refraction-contrast X-ray Micro-computed Tomography
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Molecular Sciences

42708	Hong-Hsiang Guan	22 (2021) 6861	2017B6600 2017A6600 2016B6600 2016A6600	BL44XU BL44XU BL44XU BL44XU	Chen Chun Jung Chen Chun Jung Chen Chun Jung Chen Chun Jung	Plumbagin, a Natural Product with Potent Anticancer Activities, Binds to and Inhibits Dihydroorotase, a Key Enzyme in Pyrimidine Biosynthesis
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MRS Communications

42675	Chika Kamezawa	11 (2021) 46-50	2020A0560	BL28B2	矢代 航	Dynamic X-ray Elastography: A New Tool for Characterizing Soft Materials
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Nature Catalysis

42790	Takashi Niwa	4 (2021) 1080-1088	2020A1732 2020A1871	BL14B2 BL14B2	植竹 裕太 植竹 裕太	Lewis Acid-mediated Suzuki-Miyaura Cross-coupling Reaction
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Nature Energy

42825	Guoji Huang	6 (2021) 1176-1187	2019B1362	BL02B2	山口 大輔	Overcoming Humidity-induced Swelling of Graphene Oxide-based Hydrogen Membranes using Charge-compensating Nanodiamonds
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Nature Neuroscience

42783	Zhangcheng Chen	25 (2022) 39-49	2019B2715 2020A2605	BL45XU BL45XU	Wang Sheng Wang Sheng	Structure-based Design of a Novel Third-generation Antipsychotic Drug Lead with Potential Antidepressant Properties
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Nature Structural & Molecular Biology

42460	Hiroto Shimada	27 (2020) 645-652	2017B2733	BL41XU	日野 智也	The Structure of Lipid Nanodisc-reconstituted TRPV3 Reveals the Gating Mechanism
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Nucleic Acids Research

42453	Keisuke Oki	(2021) Online published 27 Sep. 2021	2021A2719 2017A2530 2018A2558	BL45XU BL26B1 BL38B1	大山 拓次 大山 拓次 大山 拓次	Family D DNA Polymerase Interacts with GINS to Promote CMG-helicase in the Archaeal Replisome
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Open Ceramics

42476	Kristine Bakken	7 (2021) 100147	2018B1164	BL08W	Einarsrud Mari-Ann	<i>In situ</i> X-ray Diffraction Studies of the Crystallization of K _{0.5} Na _{0.5} NbO ₃ Powders and Thin Films from an Aqueous Synthesis Route
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Open Research Europe

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
42610	Sayantika Bhowal	1 (2021) 132	2018A1091	BL08W	Collins Stephen	Anti-symmetric Compton Scattering in LiNiPO ₄ : Towards a Direct Probe of the Magneto-electric Multipole Moment

Optical Materials

42526	Hirokazu Masai	121 (2021) 111631	2020A1878	BL14B2	正井 博和	Correlation between Luminescence of Cerium and Chemical Compositions in Lithium Silicate-based Glasses
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Optics Express

42512	Tatsunori Shibuya	29 (2021) 33121-33133	2018A8024	BL1	錦野 将元	Independent Contribution of Optical Attenuation Length in Ultrafast Laser-induced Structural Change
			2018B8042	BL1	錦野 将元	
			2019B8033	BL1	坂上 和之	

Organic Letters

42666	Daisuke Mishima	23 (2021) 7921-7926	2020A1056	BL02B1	笹森 貴裕	Domino Cross-Scholl Reaction of Tetracene with Molecular Benzene: Synthesis, Structure, and Mechanism
			2019B1129	BL02B1	笹森 貴裕	
			2019A1057	BL02B1	笹森 貴裕	
			2019A1677	BL02B1	鈴木 文陽	
			2018B1668	BL02B1	菅原 知紘	
			2018A1167	BL40XU	笹森 貴裕	

OSA Continuum

42673	Sébastien Harasse	4 (2021) 2813-2820	2020A0176	BL28B2	矢代 航	Regularized Phase Shift Estimation in X-ray Grating Interferometry
			2021A1083	BL28B2	矢代 航	
			2020A0559	BL28B2	矢代 航	
			2020A0560	BL28B2	矢代 航	
			2019A1212	BL28B2	矢代 航	
			2019B1074	BL28B2	矢代 航	

Physica C

42777	Rajveer Jha	576 (2020) 1353731	2019A1101	BL02B2	後藤 陽介	Improvement of Superconducting Properties by Chemical Pressure Effect in Eu-doped La _{2-x} Eu _x O ₂ Bi ₂ Ag _{0.6} Sn _{0.4} S ₆
			2015A0074	BL02B2	森吉 千佳子	

Physical Chemistry Chemical Physics

42543	Takafumi Miura	23 (2021) 23280-23287	2017B1082	BL01B1	吉田 真明	Assessing Nickel Oxide Electrocatalysts Incorporating Diamines and Having Improved Oxygen Evolution Activity using Operando UV/Visible and X-ray Absorption Spectroscopy
			2019A1386	BL01B1	吉田 真明	
			2020A1360	BL01B1	吉田 真明	

Physical Review Materials

42746	Takanori Mimura	5 (2021) 114407	2019A4700	BL15XU	清水 荘雄	Thickness Dependence of Phase Stability in Epitaxial (Hf _x Zr _{1-x})O ₂ Films
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Physical Review Research

42500	Resta A. Susilo	3 (2021) 043028	2018A1374	BL39XU	Susilo Resta	Impacts of Pressure to the Structural, Electronic and Magnetic Properties of Dirac Semimetal EuMnBi ₂
			2018B1310	BL10XU	Susilo Resta	
			2018B1314	BL39XU	Susilo Resta	
			2019A1412	BL39XU	Susilo Resta	

Polymer Journal

42766	Yuya Doi	53 (2021) 1361-1369	2018B1103	BL40B2	土肥 侑也	Preparation and Distorted Cylindrical Morphology of Block Copolymers Consisting of Flexible and Semiflexible Blocks
			2019A1278	BL40B2	土肥 侑也	

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

42797	Akinobu Niozu	118 (2021) e21111747118	2016A8057	BL3	上田 潔	Crystallization Kinetics of Atomic Crystals Revealed by a Single-shot and Single-particle X-ray Diffraction Experiment
			2016B8077	BL3	上田 潔	

Processes

42716	Wataru Michida	8 (2020) 1555	2018B1424	BL40B2	櫻木 美菜	Fluorescence Emission Behaviors of the L-Cysteine/Au(I) Complex in a Cyclodextrin-Based Metal-Organic Framework
			2018A1671	BL40B2	永井 杏奈	

Radiation Physics and 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
42705	Seiko Nakagawa	192 (2022) 109884	2019B3852	BL23SU	藤井 健太郎	Dense Radical Formation in L-alanine-3,3-d3 and L-alanine-d4 by 1.5 keV Soft X-ray Irradiation
			2020A3852	BL23SU	藤井 健太郎	

RSC Advances

42620	Kengo Kasama	11 (2021) 35342-35350	2021A1630	BL14B2	植竹 裕太	Chemo- and Regioselective Cross-dehydrogenative Coupling Reaction of 3-hydroxycarbazoles with Arenols Catalyzed by a Mesoporous Silica-supported Oxovanadium
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Science Advances

42523	Yichen Huang	7 (2021) abe6140	2018A2507	BL41XU	服部 素之	Structural Basis for the Mg ²⁺ Recognition and Regulation of the CorC Mg ²⁺ Transporter
			2019A2514	BL32XU	服部 素之	
			2017A2523	BL41XU	服部 素之	

Soil and Sediment Contamination: An International Journal

42452	Yoshito Nakashima	30 (2021) 978-997	2001B0501	BL20B2	中島 善人	Use of Triple-Exposure X-ray Computed Tomography for Nondestructive Identification of Heavy Elements in Soil Samples
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Solid State Communications

42729	Sho Kakizawa	340 (2021) 114542	2020A3685	BL14B1	柿澤 翔	Revised α/ϵ - γ Phase Boundaries for the Fe-H System
			2019B1329	BL04B1	柿澤 翔	

Solvent Extraction and Ion Exchange

42769	Yuki Ueda	39 (2021) 491-511	2020A1311	BL01B1	徳永 紘平	A Fluorous Phosphate for the Effective Extraction of Ln ^{III} from Nitrate Media: Comparison with A Conventional Organic Phosphate
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材料と環境 (Zairyo-to-Kankyo)

42714	Masato Yamashita	70 (2021) 327-333	2019A5351	BL16B2	出口 博史	Corrosion Behavior of Carbon Steel Coated with a Zinc-Rich Paint Containing Aluminum Sulfate and Barium Oxide under Wet and Dry Cyclic Conditions
			2019A5050	BL16XU	出口 博史	
			2020A5351	BL16B2	出口 博史	
			2020A5050	BL16XU	出口 博史	

作物研究 (Journal of Crop Research)

42514	Tatsuya Inamura	66 (2021) 13-19	2017A1716	BL20B2	稲村 達也	Morphology of the Unhulled Rice Contained in the Rice Seed Aggregate of the Yayoi Period Excavated from the Remains in Nara, Tottori, and Tokyo
			2017B1754	BL20B2	稲村 達也	
			2014B1063	BL20B2	稲村 達也	
			2015B1816	BL20B2	稲村 達也	
			2016B1797	BL20B2	稲村 達也	

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

42763	Miki Yoshimura	54 (2021) 266-273	2017B3201	BL24XU	高山 裕貴	Effects of Crystalline Cellulose on the Physical Properties and Structure of Frozen and Thawed Noodles
			2018B3282	BL24XU	藤井 義貴	

薬学雑誌 (Journal of the Pharmaceutical Society of Japan)

42506	Tamaki Miyazaki	142 (2022) 65-74	2016A1014	BL19B2	合田 幸広	Detection and Analysis of Drug Crystals in Medical Transdermal Patches by using X-ray Diffraction Measurement
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博士論文 (東北大学)

42491	Satoshi Matsuzawa	(2019)	2017B8059	BL3	野尻 浩之	Development and Applications of X-FEL Diffraction and Spectroscopy in Pulsed Magnetic Fields
			2018A8067	BL3	野尻 浩之	
42540	Naoki Sannodo	(2021)	2018B1808	BL46XU	山王堂 尚輝	Study on Vapor-Liquid-Solid Method for Growth of Silicon Carbide Epitaxial Films
			2019A1713	BL46XU	山王堂 尚輝	

博士論文 (Charles University)

42559	Petr Dolezal	(2021)	2018A1676	BL35XU	Dolezal Petr	Vibron States in Cerium Crystalline Compounds
			2018B1705	BL35XU	Dolezal Petr	

博士論文 (Massachusetts Institute of 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
42782	Reed Kopp	(2021)	2018B1262	BL47XU	Cohen Estelle	X-ray Micro-Computed Tomography and Deep Learning Segmentation of Progressive Damage in Hierarchical Nanoengineered Carbon Fiber Composites

博士論文 (University of Hamburg)

42774	Tae Kyu Choi	(2021)	2019A8042	BL3	Bauer Matthias	Ultrafast Dynamics in Light-Harvesting Molecules with Optical and X-ray Spectroscopies
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課題以外の成果として登録された論文

The Journal of Biological Chemistry

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
42541	Masamichi Nagae	282 (2007) 18497-18509		BL41XU	Structural Basis of the Catalytic Reaction Mechanism of Novel 1,2- α -L-Fucosidase from <i>Bifidobacterium bifidum</i>
42638	Tomomitsu Hatakeyama	282 (2007) 37826-37835		BL44XU	C-type Lectin-like Carbohydrate Recognition of the Hemolytic Lectin CEL-III Containing Ricin-type β -Trefol Folds
42768	Satoshi Hirano	283 (2008) 6459-6466	理研	BL41XU BL44B2	Crystal Structure of VioE, a Key Player in the Construction of the Molecular Skeleton of Violacein
42787	Hiroko Shibata	283 (2008) 998-1007		BL41XU	Creation and X-ray Structure Analysis of the Tumor Necrosis Factor Receptor-1-selective Mutant of a Tumor Necrosis Factor- α Antagonist

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

42532	Jinzhong Lin	104 (2007) 14640-14645		BL41XU	Crystal Structure of Human MitoNEET Reveals Distinct Groups of Iron-Sulfur Proteins
42625	Hiromasa Yagi	104 (2007) 11233-11238		BL44XU	Structures of the Thermophilic F ₁ -ATPase ϵ Subunit Suggesting ATP-regulated Arm Motion of its C-terminal Domain in F ₁
42639	Nicolas Rouhier	104 (2007) 7379-7384		BL44XU	Functional, Structural, and Spectroscopic Characterization of a Glutathione-ligated [2Fe-2S] Cluster in Poplar Glutaredoxin C1
42647	Hideaki Mizuno	105 (2008) 9227-9232	理研	BL26B1 BL44B2	Light-dependent Regulation of Structural Flexibility in a Photochromic Fluorescent Protein

Acta Crystallographica Section D

42549	Sagar Chittori	63 (2007) 197-205		BL44XU	Structure of the Putative Mutarotase YeaD from <i>Salmonella typhimurium</i> : Structural Comparison with Galactose Mutarotases
42550	Gayathri Pananghat	63 (2007) 206-220		BL44XU	Structure of Triosephosphate Isomerase (TIM) from <i>Methanocaldococcus jannaschii</i>
42648	Haruhiko Sakuraba	64 (2008) 696-699	理研	BL26B1	Structure of an Archaeal Alanine:Glyoxylate Aminotransferase

Acta Crystallographica Section F

42544	Ella Czarina Magat Juan	63 (2007) 900-907		BL44XU	The Structures of Pyruvate Oxidase from <i>Aerococcus viridans</i> with Cofactors and with a Reaction Intermediate Reveal the Flexibility of the Active-site Tunnel for Catalysis
42627	Sangwoo Kim	63 (2007) 274-279		BL44XU	Structure of <i>Physarum polycephalum</i> Cytochrome b ₅ Reductase at 1.56 Å Resolution

Journal of Molecular Biology

42507	Atsushi Izumi	370 (2007) 899-911		BL38B1	Structure and Mechanism of HpcG, a Hydratase in the Homoprotocatechuate Degradation Pathway of <i>Escherichia coli</i>
42511	Seiji Negoro	370 (2007) 142-156		BL41XU	Nylon-oligomer Degrading Enzyme/Substrate Complex: Catalytic Mechanism of 6-Aminohexanoate-dimer Hydrolase

Physical Review Special Topics - Accelerators and Beams

42622	Toshihiko Hiraiwa	24 (2021) 114001	加速器		Formulation of Electron Motion in a Storage Ring with a Betatron Tune Varying with Time and a Dipole Shaker Working at a Constant Frequency
42773	Toru Hara	24 (2021) 110702	加速器		Low-emittance Beam Injection for a Synchrotron Radiation Source using an X-ray Free-electron Laser Linear Accelerator

AIP Conference Proceedings

研究成果番号	主著者	雑誌情報		ビームライン	タイトル
42600	Sun-Young Ryu	2249 (2020) 030024	装置&技術		Current Status of the LEPS2 Experiment and Commissioning of the Solenoid Spectrometer

Angewandte Chemie International Edition

42747	Keisuke Fujiyama	60 (2021) 22401-22410	理研	BL32XU	Molecular Basis for Two Stereoselective Diels–Alderses that Produce Decalin Skeletons
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Biochemistry

42767	Yuki Takayama	47 (2008) 9405-9415		BL41XU	Strategic Roles of Axial Histidines in Structure Formation and Redox Regulation of Tetraheme Cytochrome <i>c</i> ₃
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Biophysical Journal

42542	Hitoshi Nakamichi	92 (2007) L106-L108		BL41XU	Photoisomerization Mechanism of Rhodopsin and 9- <i>cis</i> -Rhodopsin Revealed by X-ray Crystallography
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Dalton Transactions

42743	Sanna Sommer	49 (2020) 13449-13461	理研	BL44B2	Probing the Validity of the Spinel Inversion Model: a Combined SPXRD, PDF, EXAFS and NMR Study of ZnAl ₂ O ₄
			理研	BL26B2	

The EMBO Journal

42510	Takuma Sugi	26 (2007) 2192-2205		BL38B1	Crystal Structures of Autoinhibitory PDZ Domain of Tamalin: Implications for Metabotropic Glutamate Receptor Trafficking Regulation
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Glycobiology

42626	Hideyuki Iihara	17 (2007) 455-466		BL44XU	Crystal Structure of Mammalian α1,6-fucosyltransferase, FUT8
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The Journal of Biochemistry

42548	Masaya Kitamura	141 (2007) 459-468		BL44XU	Determination of the Role of the Carboxyl-terminal Leucine-122 in FMN-binding Protein by Mutational and Structural Analysis
				BL40B2	

Journal of Physics: Condensed Matter

42733	Keiji Itoh	33 (2021) 274001		BL04B2	Atomic-level Characterization of Free Volume in the Structure of Cu ₆₇ Zr ₃₃ Amorphous Alloy
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Journal of Synchrotron Radiation

42771	Masahiro Koizumi	15 (2008) 308-311		BL41XU	Complex of Human Neutrophil Elastase with 1/2SLPI
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Molecular Immunology

42770	József Kardos	45 (2008) 1752-1760		BL41XU	Revisiting the Mechanism of the Autoactivation of the Complement Protease C1r in the C1 Complex: Structure of the Active Catalytic Region of C1r
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Nucleic Acids Research

42503	Masaru Tsunoda	35 (2007) 4289-4300		BL38B1	Structural Basis for Recognition of Cognate tRNA by Tyrosyl-tRNA Synthetase from Three Kingdoms
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PLoS Pathogens

42728	Bonsu Ku	4 (2008) e25		BL41XU	Structural and Biochemical Bases for the Inhibition of Autophagy and Apoptosis by Viral BCL-2 of Murine γ-Herpesvirus 68
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Proteins: Structure, Function, and Bioinformatics

42646	Dhirendra K. Simanshu	70 (2008) 1379-1388	理研	BL26B1	Crystal Structures of <i>Salmonella typhimurium</i> Propionate Kinase and its Complex with Ap ₄ A: Evidence for a Novel Ap ₄ A Synthetic Activity
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Structure

42508	Toyoyuki Ose	15 (2007) 577-586		BL38B1	Structural Basis for Dynamic Interdomain Movement and RNA Recognition of the Selenocysteine-Specific Elongation Factor SelB
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