

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

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利用推進部

SPring-8 もしくは SACLA において実施された研究課題等の成果が公表された場合は JASRI の成果登録データベースに登録していただくことになっており、その内容は以下の URL (SPring-8 論文データベース検索ページ) で検索できます。

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

このデータベースに登録された原著論文の内、平成26年4月～6月にその別刷もしくはコピー等を受理したもの（登録時期は問いません）を以下に紹介します。論文の情報（主著者、巻、発行年、ページ、タイトル）に加え、データベースの登録番号（研究成果番号）を掲載していますので、詳細は上記検索ページの検索結果画面でご覧いただくことができます。また実施された課題の情報（課題番号、ビームライン、実験責任者名）も掲載しています。課題番号は最初の4文字が「year」、次の1文字が「term」、後ろの4文字が「proposal no.」となっていますので、この情報から以下の URL で公表している、各課題の英文利用報告書 (SPring-8 User Experiment Report) を探してご覧いただくことができます。

[http://www.spring8.or.jp/ja/news\\_publications/publications/user\\_exp\\_report/](http://www.spring8.or.jp/ja/news_publications/publications/user_exp_report/)

今後も利用者情報には発行月の2ヶ月前の月末締めで、前号掲載分以降に登録された論文情報を掲載していく予定です。なお、データベースは毎日更新されていますので、最新情報は SPring-8 論文データベース検索ページでご確認ください。なお、実験責任者のかたには、成果が公表されましたら速やかに登録いただきますようお願いいたします。

### SPring-8 研究成果登録データベースに 2014 年 4 月～6 月に登録された論文が掲載された主な雑誌と掲載論文数

| 掲載雑誌                                     | 登録論文数 | 掲載雑誌                                     | 登録論文数 |
|--|-------|--|-------|
| Journal of Physics: Conference Series    | 14    | Angewandte Chemie International Edition  | 6     |
| JPS Conference Proceedings               | 12    | Chemical Communications                  | 6     |
| Physical Review B                        | 12    | Journal of the Physical Society of Japan | 6     |
| Journal of the American Chemical Society | 11    | Physical Review Letters                  | 6     |
| Japanese Journal of Applied Physics      | 10    | Acta Crystallographica Section D         | 5     |
| The Journal of Physical Chemistry C      | 7     | Chemistry - A European Journal           | 5     |
| Nature Communications                    | 7     | Inorganic Chemistry                      | 5     |

他全 191 誌、計 391 報

課題の成果として登録された論文

JPS Conference Proceedings

| 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  |
|--------|--------------------|----------------|-----------|--------|--------|---|
| 26112  | Yuki Utsumi        | 1(2014) 012117 | 2011A4803 | BL15XU | 佐藤 仁   | Photoemission Studies of Kondo Lattice Compounds $\text{YbNi}_3(\text{Ga}_{1-x}\text{Al}_x)_9$                                  |
|        |                    |                | 2011B4801 | BL15XU | 佐藤 仁   |   |
|        |                    |                | 2012A4801 | BL15XU | 佐藤 仁   |   |
| 26113  | Hitoshi Sato       | 1(2014) 012116 | 2010A4801 | BL15XU | 佐藤 仁   | Hard X-Ray Photoemission Spectroscopy of Quasi-One-Dimensional $\text{BaV}_3\text{S}_3$   |
|        |                    |                | 2010B4801 | BL15XU | 佐藤 仁   |   |
| 26238  | Shogo Kawaguchi    | 1(2014) 012084 | 2012A0084 | BL02B2 | 久保田 佳基 | Structural and Magnetic Properties in Spinel Oxide $\text{Fe}_{1-x}\text{Mn}_x\text{V}_2\text{O}_4$                             |
|        |                    |                | 2012B0084 | BL02B2 | 久保田 佳基 |   |
| 26657  | Yasuhiro Yoneda    | 1(2014) 012103 | 2010B1351 | BL04B2 | 米田 安宏  | Phase Transition of $\text{Bi}_2\text{WO}_6$ Below 300 K  |
|        |                    |                | 2012A3607 | BL14B1 | 米田 安宏  |   |
| 26820  | Satoshi Tsutsui    | 3(2014) 011060 | 2008A1058 | BL35XU | 筒井 智嗣  | Anharmonic Pr Guest Modes in $\text{Pr}(\text{Os}_{1-x}\text{Ru}_x)_4\text{Sb}_{12}$ Investigated by Inelastic X-ray Scattering |
|        |                    |                | 2010B1575 | BL35XU | 青木 勇二  |   |
|        |                    |                | 2011A1366 | BL35XU | 青木 勇二  |   |
|        |                    |                | 2011A1995 | BL35XU | 筒井 智嗣  |   |
|        |                    |                | 2011B1423 | BL35XU | 金子 耕士  |   |
| 26821  | Akihiro Mitsuda    | 3(2014) 011037 | 2012B1080 | BL35XU | 光田 暁弘  | Inelastic X-ray Scattering of Valence Fluctuating $\text{YbPd}$   |
|        |                    |                | 2013A1186 | BL35XU | 光田 暁弘  |   |
| 26822  | Kazuhei Wakiya     | 3(2014) 011068 | 2012A1506 | BL35XU | 鬼丸 孝博  | Atomic Dynamics and Structural Transitions in Caged Compounds $R\text{Ru}_2\text{Zn}_{20}$ ( $R=\text{La}$ and $\text{Pr}$ )    |
|        |                    |                | 2012B1596 | BL35XU | 鬼丸 孝博  |   |
| 26823  | Ryuji Higashinaka  | 3(2014) 011079 | 2012B1538 | BL01B1 | 東中 隆二  | Mixed Valence States in $\text{SmTr}_2\text{Al}_{20}$ ( $Tr = \text{Ti}, \text{V}, \text{Cr}$ and $\text{Ta}$ )                 |
| 26847  | Ryuji Okazaki      | 3(2014) 013010 | 2011B1221 | BL43IR | 寺崎 一郎  | Optical Study of a Novel Phase Transition from Dimer-Mott to Charge-Order Insulator   |
|        |                    |                | 2011B1232 | BL43IR | 岡崎 竜二  |   |
|        |                    |                | 2012A1082 | BL43IR | 寺崎 一郎  |   |
|        |                    |                | 2012A1141 | BL43IR | 岡崎 竜二  |   |
|        |                    |                | 2012B1352 | BL43IR | 寺崎 一郎  |   |
| 26872  | Kazuo Soda         | 3(2014) 017036 | 2011A1626 | BL27SU | 曾田 一雄  | Semiconducting Transport Properties in Off-stoichiometric $\text{Fe}_{2-x}\text{VAl}_{1+x}$                                     |
|        |                    |                | 2012A1056 | BL27SU | 曾田 一雄  |   |
|        |                    |                | 2012B1204 | BL25SU | 曾田 一雄  |   |
|        |                    |                | 2013A1511 | BL25SU | 宮崎 秀俊  |   |
| 26874  | Yukihiro Kawamura  | 3(2014) 011029 | 2012B1035 | BL10XU | 川村 幸裕  | Synchrotron X-ray Diffraction Study of $\text{CeRu}_2\text{Al}_{10}$ under High Pressure and Low Temperature                    |
| 26881  | Shin-ichi Fujimori | 3(2014) 011072 | 2012B3820 | BL23SU | 藤森 伸一  | Angle Resolved Photoelectron Spectroscopy Study of Heavy Fermion Superconductor $\text{UPd}_2\text{Al}_3$                       |

Journal of Physics: Conference Series-1

|       |               |                  |           |        |       |  |
|-------|---------------|------------------|-----------|--------|-------|--|
| 26141 | Shinji Kohara | 502(2014) 012014 | 2007A1180 | BL02B1 | 小原 真司 | Anomalous X-ray Scattering Studies of Functional Disordered Materials                                |
|       |               |                  | 2008A1998 | BL02B1 | 小原 真司 |  |
|       |               |                  | 2009A1058 | BL02B1 | 小原 真司 |  |
|       |               |                  | 2010A1217 | BL02B1 | 小原 真司 |  |
|       |               |                  | 2010B1182 | BL02B1 | 小原 真司 |  |
|       |               |                  | 2010B1183 | BL04B2 | 小原 真司 |  |
|       |               |                  | 2012A1618 | BL04B2 | 北村 直之 |  |
|       |               |                  | 2012A1216 | BL13XU | 小原 真司 |  |
|       |               |                  | 2012B1185 | BL13XU | 小原 真司 |  |
|       |               |                  | 2013A1141 | BL13XU | 小原 真司 |  |
| 26148 | Hiroshi Oji   | 502(2014) 012005 | 2011B2088 | BL46XU | 陰地 宏  | An Automated HAXPES Measurement System with User-Friendly GUI for R4000-10 keV at BL46XU in SPring-8 |
|       |               |                  | 2012B1464 | BL46XU | 陰地 宏  |  |
| 26149 | Yudai Izumi   | 502(2014) 012038 | 2010A1254 | BL25SU | 中川 和道 | Nitrogen K-edge Soft X-ray Natural Circular Dichroism of Histidine Thin Film                         |
|       |               |                  | 2010B1522 | BL25SU | 中川 和道 |  |
|       |               |                  | 2011A1473 | BL25SU | 中川 和道 |  |
|       |               |                  | 2012A1394 | BL25SU | 中川 和道 |  |
|       |               |                  | 2012B1529 | BL25SU | 中川 和道 |  |

Journal of Physics: Conference Series-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  |
|--------|-----------------|----------------------|-----------|--------|--------|---|
| 26150  | Hiroshi Oji     | 502 (2014)<br>012006 | 2011A1746 | BL46XU | 孫 珍永   | A HAXPES Measurement System up to 15 keV<br>Developed at BL46XU of SPring-8   |
|        |                 |                      | 2011A1850 | BL46XU | 孫 珍永   |   |
|        |                 |                      | 2011B1971 | BL46XU | 陰地 宏   |   |
|        |                 |                      | 2012A1340 | BL46XU | 孫 珍永   |   |
|        |                 |                      | 2012A7019 | BL33XU | 堂前 和彦  |   |
|        |                 |                      | 2012B7019 | BL33XU | 磯村 典武  |   |
| 26154  | Yi-Tao Cui      | 502 (2014)<br>012007 | 2013A1819 | BL46XU | 陰地 宏   | Investigation of Group IVA Elements Combined with<br>HAXPES and First-Principles Calculations                                     |
|        |                 |                      | 2011B2085 | BL46XU | 崔 藝濤   |   |
|        |                 |                      | 2012A1358 | BL46XU | 崔 藝濤   |   |
|        |                 |                      | 2012A1749 | BL46XU | 崔 藝濤   |   |
| 26155  | Yi-Tao Cui      | 502 (2014)<br>012039 | 2012B1244 | BL46XU | 崔 藝濤   | Development of in-situ Cell for Fluorescence-Mode<br>XAFS in BL14B2 of Spring-8   |
|        |                 |                      | 2013A1400 | BL46XU | 崔 藝濤   |   |
| 26234  | Yuki Sugaya     | 502 (2014)<br>012040 | 2011B1974 | BL14B2 | 崔 藝濤   | DNA Damage by Soft X-ray Exposure at Oxygen K-edge  |
|        |                 |                      | 2012B1875 | BL14B2 | 平山 明香  |   |
| 26234  | Yuki Sugaya     | 502 (2014)<br>012040 | 2011B3811 | BL23SU | 横谷 明德  | Disproportionation Reaction of LaH <sub>2</sub> at High Pressure<br>and Low Temperature   |
|        |                 |                      | 2012A3812 | BL23SU | 藤井 健太郎 |   |
| 26380  | Akihiko Machida | 500 (2014)<br>022001 | 2009B3703 | BL22XU | 町田 晃彦  | Disproportionation Reaction of LaH <sub>2</sub> at High Pressure<br>and Low Temperature   |
| 26501  | Okii Sekizawa   | 430 (2013)<br>012020 | 2011A2060 | BL01B1 | 宇留賀 朋哉 | New XAFS Beamline for Structural and Electronic<br>Dynamics of Nanoparticle Catalysts in Fuel Cells under<br>Operating Conditions |
|        |                 |                      | 2011B2100 | BL01B1 | 宇留賀 朋哉 |   |
| 26612  | Yuichi Akahama  | 500 (2014)<br>182001 | 理研        | BL36XU |        | High-Pressure Phase Diagram of O <sub>2</sub> and N <sub>2</sub> Binary<br>System: Formation of Kagome-Lattice of O <sub>2</sub>  |
|        |                 |                      | 2012A1088 | BL10XU | 赤浜 裕一  |   |
| 26658  | Yasuhiro Yoneda | 502 (2014)<br>012022 | 2012B1122 | BL10XU | 赤浜 裕一  | Local Structure Analysis of NaNbO <sub>3</sub>  |
|        |                 |                      | 2010B3608 | BL14B1 | 米田 安宏  |   |

Journal of the American Chemical Society

|       |                    |                           |           |        |               |  |
|-------|--------------------|---------------------------|-----------|--------|---------------|--|
| 26098 | Aniruddha Deb      | 136 (2014)<br>4889-4892   | 2011B1173 | BL08W  | Deb Aniruddha | Understanding Spin Structure in Metallocrown Single-<br>Molecule Magnets using Magnetic Compton Scattering   |
|       |                    |                           | 2012A1051 | BL08W  | Deb Aniruddha |  |
|       |                    |                           | 2013A1069 | BL08W  | Deb Aniruddha |  |
| 26219 | Tatsuya Takeguchi  | 135 (2013)<br>11125-11130 | 2012B1802 | BL01B1 | 折笠 有基         | Layered Perovskite Oxide: A Reversible Air Electrode<br>for Oxygen Evolution/Reduction in Rechargeable<br>Metal-Air Batteries  |
|       |                    |                           | 2011B1908 | BL01B1 | 折笠 有基         |  |
|       |                    |                           | 2012A1675 | BL01B1 | 折笠 有基         |  |
| 26244 | Kohei Kusada       | 132 (2010)<br>15896-15898 | 2010A1644 | BL02B2 | 小林 浩和         | Hydrogen-Storage Properties of Solid-Solution Alloys<br>of Immiscible Neighboring Elements with Pd   |
| 26245 | Hirokazu Kobayashi | 133 (2011)<br>11034-11037 | 2010A1644 | BL02B2 | 小林 浩和         | Nanosize-Induced Hydrogen Storage and Capacity<br>Control in a Non-Hydride-Forming Element: Rhodium  |
| 26246 | Hirokazu Kobayashi | 134 (2012)<br>12390-12393 | 2010A1644 | BL02B2 | 小林 浩和         | Nanosize-Induced Drastic Drop in Equilibrium Hydrogen<br>Pressure for Hydride Formation and Structural<br>Stabilization in Pd-Rh Solid-Solution Alloys   |
|       |                    |                           | 2011A1644 | BL02B2 | 北川 宏          |  |
| 26247 | Kohei Kusada       | 135 (2013)<br>5493-5496   | 2011B1712 | BL02B2 | 北川 宏          | Discovery of Face-Centered-Cubic Ruthenium<br>Nanoparticles: Facile Size-Controlled Synthesis Using<br>the Chemical Reduction Method   |
| 26248 | Kohei Kusada       | 136 (2014)<br>1864-1871   | 2010B1722 | BL02B2 | 小林 浩和         | Solid Solution Alloy Nanoparticles of Immiscible Pd<br>and Ru Elements Neighboring on Rh: Changeover of<br>the Thermodynamic Behavior for Hydrogen Storage<br>and Enhanced CO-Oxidizing Ability                        |
|       |                    |                           | 2011A1644 | BL02B2 | 北川 宏          |  |
| 26639 | Tomohiro Fukushima | 134 (2012)<br>13341-13347 | 2009B1320 | BL02B2 | 堀毛 悟史         | Modular Design of Domain Assembly in Porous<br>Coordination Polymer Crystals via Reactivity-Directed<br>Crystallization Process  |
| 26710 | Chunxue Yuan       | 135 (2013)<br>8842-8845   | 2012B1324 | BL38B1 | 久木 一朗         | A $\pi$ -Conjugated System with Flexibility and Rigidity That<br>Shows Environment-Dependent RGB Luminescence  |
| 26755 | Yutaka Shibata     | 135 (2013)<br>6903-6914   | 2010A1139 | BL41XU | 沈 建仁          | Photosystem II Does Not Possess a Simple Excitation<br>Energy Funnel: Time-Resolved Fluorescence<br>Spectroscopy Meets Theory  |
|       |                    |                           | 2010B1249 | BL41XU | 沈 建仁          |  |
|       |                    |                           | 2011A1130 | BL41XU | 沈 建仁          |  |
|       |                    |                           | 2011B1329 | BL41XU | 沈 建仁          |  |
|       |                    |                           | 2012A1245 | BL41XU | 沈 建仁          |  |
| 26805 | Yoshiyuki Inaguma  | 136 (2014)<br>2748-2756   | 2012B1399 | BL41XU | 沈 建仁          | High-Pressure Synthesis, Crystal Structure, and Phase<br>Stability Relations of a LiNbO <sub>3</sub> -Type Polar Titanate<br>ZnTiO <sub>3</sub> and Its Reinforced Polarity by the Second-<br>Order Jahn-Teller Effect |
|       |                    |                           | 2011B1453 | BL02B2 | 森 大輔          |  |
|       |                    |                           | 2013A1697 | BL02B2 | 森 大輔          |  |

Physical Review B

| 研究成果番号 | 著者                | 雑誌情報                | 課題番号      | ビームライン  | 実験責任者          | タイトル  |
|--------|-------------------|---------------------|-----------|---------|----------------|---|
| 26110  | Hitoshi Sato      | 89 (2014) 045112    | 2012B4255 | BL12XU  | 佐藤 仁           | Pressure-Induced Valence Change of YbNiGe <sub>3</sub> Investigated by Resonant X-ray Emission Spectroscopy at the Yb L <sub>3</sub> Edge   |
| 26161  | Xeniya Kozina     | 89 (2014) 125116    | 2008B4903 | BL15XU  | Felser Claudia | Probing the Electronic States of High-TMR Off-Stoichiometric Co <sub>2</sub> MnSi Thin Films by Hard X-ray Photoelectron Spectroscopy   |
|        |                   |                     | 2009A4905 | BL15XU  | Felser Claudia |   |
|        |                   |                     | 2008B0017 | BL47XU  | Felser Claudia |   |
|        |                   |                     | 2009A0017 | BL47XU  | Felser Claudia |   |
| 26173  | Yuuki Kitanaka    | 89 (2014) 104104    | 2011B1386 | BL02B1  | 野口 祐二          | Non-180° Polarization Rotation of Ferroelectric (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> Single Crystals under Electric Field   |
|        |                   |                     | 2012A1359 | BL02B1  | 野口 祐二          |   |
|        |                   |                     | 2012B1243 | BL02B1  | 野口 祐二          |   |
| 26216  | Takeshi Matsumura | 89 (2014) 161116(R) | 2013B3711 | BL22XU  | 稲見 俊哉          | Magnetic-Field-Induced Charge Order in the Filled Skutterudite SmRu <sub>4</sub> P <sub>12</sub> : Evidence from Resonant and Nonresonant X-ray Diffraction   |
| 26227  | Wen Hu            | 89 (2014) 140103(R) | 2010B3714 | BL22XU  | 胡 雯            | Acute and Obtuse Rhombohedrons in the Local Structures of Relaxor Ferroelectric Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub>  |
|        |                   |                     | 2011B3714 | BL22XU  | 胡 雯            |   |
|        |                   |                     | 2012A3714 | BL22XU  | 胡 雯            |   |
| 26266  | Atsushi Yamasaki  | 89 (2014) 121111(R) | 2010A1227 | BL25SU  | 山崎 篤志          | Bulk Nature of Layered Perovskite Iridates beyond the Mott Scenario: An Approach from a Bulk-Sensitive Photoemission Study  |
|        |                   |                     | 理研        | BL19LXU |                |   |
| 26387  | Yumiko Zekko      | 89 (2014) 125108    | 2012B4252 | BL12XU  | 水木 純一郎         | Correlation between the Valence State of Cerium and the Magnetic Transition in Ce(Ru <sub>1-x</sub> Fe <sub>x</sub> ) <sub>2</sub> Al <sub>10</sub> Studied by Resonant X-ray Emission Spectroscopy |
|        |                   |                     | 2013A4251 | BL12XU  | 水木 純一郎         |   |
|        |                   |                     | 2013A4255 | BL12XU  | 水木 純一郎         |   |
| 26553  | Hitoshi Yamaoka   | 87 (2013) 205120    | 2011B4260 | BL12XU  | 辻井 直人          | Valence Transitions in the Heavy-Fermion Compound YbCuAl as a Function of Temperature and Pressure  |
|        |                   |                     | 2012B4256 | BL12XU  | 辻井 直人          |   |
| 26739  | Milos Krbal       | 86 (2012) 045212    | 2012B1382 | BL01B1  | Fons Paul      | Crystalline GeTe-based Phase-Change Alloys: Disorder in Order   |
|        |                   |                     | 2013B1308 | BL39XU  | Fons Paul      |   |
| 26866  | Goro Shibata      | 89 (2014) 235123    | 2011A3840 | BL23SU  | 藤森 淳           | Thickness-dependent Ferromagnetic Metal to Paramagnetic Insulator Transition in La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> Thin Films Studied by X-ray Magnetic Circular Dichroism        |

Japanese Journal of Applied Physics

|       |                     |                  |           |        |       |   |
|-------|---------------------|------------------|-----------|--------|-------|---|
| 25264 | Takumi Yonemura     | 52 (2013) 126602 | 2010B1825 | BL27SU | 飯原 順次 | Novel Technique for Improving the Signal-to-Background Ratio of X-ray Absorption Near-Edge Structure Spectrum in Fluorescence Mode and Its Application to the Chemical State Analysis of Magnesium Doped in GaN |
|       |                     |                  | 2011A1716 | BL27SU | 飯原 順次 |   |
| 26089 | Takeshi Watanabe    | 53 (2014) 01AD01 | 2012A0036 | BL19B2 | 吉本 則之 | Crystal Structure of Oligothiophene Thin Films Characterized by Two-Dimensional Grazing Incidence X-ray Diffraction   |
|       |                     |                  | 2012B0036 | BL19B2 | 吉本 則之 |   |
|       |                     |                  | 2012B1687 | BL19B2 | 渡辺 剛  |   |
| 26152 | Yoshiyuki Yamashita | 53 (2014) 05FH05 | 2011A4604 | BL15XU | 山下 良之 | Bias Dependent Potential Distribution of a Pt/HfO <sub>2</sub> /SiO <sub>2</sub> /Si Gate Structure Obtained from a Bias Application in Hard X-ray Photoelectron Spectroscopy                                   |
|       |                     |                  | 2013A4601 | BL15XU | 山下 良之 |   |
| 26201 | Yoshiro Kususe      | 53 (2014) 05FJ07 | 2013A1691 | BL01B1 | 藤田 晃司 | Magnetic and Transport Properties of EuTiO <sub>3</sub> Thin Films Doped with Nb  |
| 26212 | Takamichi Shinohara | 53 (2014) 05FH09 | 2013A1459 | BL13XU | 高原 淳  | "Buried" Nano-Structure and Molecular Aggregation State in Ordered Heterojunction Poly(3-hexylthiophene)-Based Photovoltaics  |
|       |                     |                  | 2012A7213 | BL03XU | 岡本 泰志 |   |
|       |                     |                  | 2012B7263 | BL03XU | 岡本 泰志 |   |
| 26339 | Yutaka Moritomo     | 53 (2014) 067101 | 2013B1332 | BL02B2 | 守友 浩  | Electrochemical, Structural, and Electronic Properties of Mn-Co Hexacyanoferrates against Li Concentration  |
|       |                     |                  | 2012A1094 | BL02B2 | 守友 浩  |   |
|       |                     |                  | 2011B1067 | BL01B1 | 守友 浩  |   |
|       |                     |                  | 2011B1066 | BL02B2 | 守友 浩  |   |
|       |                     |                  | 2011A1418 | BL02B2 | 守友 浩  |   |
| 26581 | Hironobu Tanigawa   | 53 (2014) 063002 | 2012A1659 | BL25SU | 谷川 博信 | Operating Principle of a Three-Terminal Domain Wall Device with Perpendicularly Magnetized Ta/CoFeB/MgO Free Layer and Underlying Hard Magnets  |
|       |                     |                  | 2012B1764 | BL25SU | 谷川 博信 |   |
| 26615 | Koji Takei          | 53 (2014) 05FW07 | 2011B1541 | BL01B1 | 山添 誠司 | Crystallographic and Optical Properties of CuInSe <sub>2</sub> -ZnSe System   |
|       |                     |                  | 2012B1074 | BL01B1 | 山添 誠司 |   |
| 26666 | Hiroshi Okuda       | 53 (2014) 05FH02 | 2012A7212 | BL03XU | 権藤 聡  | Normalization of Grazing-Incidence Small Angle Scattering of Phospholipid Alloy Systems at the K Absorption Edge of Phosphorous: A Standard Sample Approach   |
|       |                     |                  | 2012B7261 | BL03XU | 権藤 聡  |   |

The Journal of Physical Chemistry C

| 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  |
|--------|------------------|---------------------------|-----------|--------|----------------|---|
| 18634  | Akitaka Yoshigoe | 114 (2010)<br>22539-22545 | 2005B3803 | BL23SU | 寺岡 有殿          | Adsorption Dynamics on Si(111)-7x7 Surface Induced by Supersonic O <sub>2</sub> Beam Studied Using Real-Time Photoelectron Spectroscopy                                       |
|        |                  |                           | 2006A3802 | BL23SU | 寺岡 有殿          |   |
| 23295  | Tsan-Yao Chen    | 116 (2012)<br>16969-16978 | 2011B4128 | BL12B2 | Lin Tsang Lang | Core Dominated Surface Activity of Core-Shell Nanocatalysts on Methanol Electrooxidation  |
| 25786  | Licheng Liu      | 116 (2012)<br>23453-23464 | 2011B1597 | BL01B1 | 岩澤 康裕          | Enhanced Oxygen Reduction Reaction Activity and Characterization of Pt-Pd/C Bimetallic Fuel Cell Catalysts with Pt-Enriched Surfaces in Acid Media                            |
|        |                  |                           | 2011B1040 | BL01B1 | 岩澤 康裕          |   |
| 26096  | Marina Ide       | 117 (2013)<br>26859-26870 | 2013A1634 | BL19B2 | 尾坂 格           | Near-Infrared Absorbing Thienoindigo-Based Copolymers for Organic Photovoltaics   |
| 26159  | Sho Kitano       | 117 (2013)<br>11008-11016 | 2011A1413 | BL01B1 | 田中 庸裕          | Bifunctionality of Rh <sup>3+</sup> Modifier on TiO <sub>2</sub> and Working Mechanism of Rh <sup>3+</sup> /TiO <sub>2</sub> Photocatalyst under Irradiation of Visible Light |
| 26189  | Kouji Sakaki     | 118 (2014)<br>6697-6705   | 2011B3784 | BL22XU | 中村 優美子         | Degradation Mechanism against Hydrogenation Cycles in Mg <sub>2-x</sub> Pr <sub>x</sub> Ni <sub>4</sub> (x = 0.6 and 1.0)   |
| 26560  | Shuichi Koso     | 116 (2012)<br>3079-3090   | 2011A1232 | BL01B1 | 奥村 和           | Stable Low-Valance ReO <sub>x</sub> Cluster Attached on Rh Metal Particles Formed by Hydrogen Reduction and Its Formation Mechanism   |
|        |                  |                           | 2008B1235 | BL01B1 | 奥村 和           |   |

Nature Communications

|       |                        |               |           |        |                   |   |
|-------|------------------------|---------------|-----------|--------|-------------------|---|
| 24529 | Kenta Kimura           | 4 (2013) 1934 | 2011A0083 | BL02B1 | 澤 博               | Quantum Fluctuations in Spin-Ice-Like Pr <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub>  |
|       |                        |               | 2011B0083 | BL02B1 | 澤 博               |   |
|       |                        |               | 2012A0083 | BL02B1 | 澤 博               |   |
|       |                        |               | 2010B0083 | BL02B1 | 澤 博               |   |
| 24532 | Hisayoshi Daicho       | 3 (2012) 1132 | 2010B0083 | BL02B1 | 澤 博               | A Novel Phosphor for Glareless White Light-Emitting Diodes  |
|       |                        |               | 2011A0083 | BL02B1 | 澤 博               |   |
| 26213 | Minhao Wong            | 5 (2014) 3589 | 2013A1470 | BL40B2 | 高原 淳              | Large-Scale Self-Assembled Zirconium Phosphate Smectic Layers via a Simple Spray-Coating Process                                  |
| 26264 | Kenji Ishii            | 5 (2014) 3714 | 2012B3502 | BL11XU | 石井 賢司             | High-Energy Spin and Charge Excitations in Electron-Doped Copper Oxide Superconductors  |
| 26442 | Alexander Tagantsev    | 4 (2013) 2229 | 2011A1117 | BL35XU | Vakhrushev Sergey | The Origin of Antiferroelectricity in PbZrO <sub>3</sub>  |
| 26443 | Akira Yoneda           | 5 (2014) 3453 | 2011B1425 | BL35XU | 米田 明              | Elastic Anisotropy of Experimental Analogues of Perovskite and Post-perovskite Help to Interpret D <sup>0</sup> Diversity         |
|       |                        |               | 2012A1406 | BL35XU | 米田 明              |   |
| 26673 | Marcus Gallagher-Jones | 5 (2014) 3798 | 2012B8023 | BL3    | Song Changyong    | Macromolecular Structures Probed by Combining Single-Shot Free-Electron Laser Diffraction with Synchrotron Coherent X-ray Imaging |
|       |                        |               | 2013A8028 | BL3    | Song Changyong    |   |
|       |                        |               | 2013B8034 | BL3    | Song Changyong    |   |

Angewandte Chemie International Edition

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|-------|--------------------|------------------------|-----------|--------|-------|---|
| 24937 | Hiroyuki Ohsumi    | 52 (2013)<br>8718-8721 | 2009A1607 | BL39XU | 大隅 寛幸 | Three-Dimensional Near-Surface Imaging of Chirality Domains with Circularly Polarized X-rays  |
|       |                    |                        | 2009B1586 | BL39XU | 大隅 寛幸 |   |
| 26095 | Koichi Nagata      | 53 (2014)<br>3881-3884 | 2013A1183 | BL38B1 | 吾郷 友宏 | Syntheses and Structures of Terminal Arylalumylene Complexes  |
| 26172 | Mirza H. K. Rubel  | 53 (2014)<br>3599-3603 | 2013A1299 | BL02B2 | 武井 貴弘 | Superconducting Double Perovskite Bismuth Oxide Prepared by a Low-Temperature Hydrothermal Reaction                                 |
| 26355 | Chikako Shirataki  | 53 (2014)<br>2862-2866 | 2013A1365 | BL41XU | 杉本 宏  | Inhibition of Heme Uptake in <i>Pseudomonas aeruginosa</i> by its Hemophore (HasA <sub>5</sub> ) Bound to Synthetic Metal Complexes |
|       |                    |                        | 理研        | BL26B1 |       |   |
| 26472 | Jae-Hoon Chio      | 53 (2014)<br>1552-1555 | 2010B1489 | BL40XU | 安田 伸広 | The Source of "Fairy Rings": 2-Azahypoxanthine and its Metabolite Found in a Novel Purine Metabolic Pathway in Plants               |
|       |                    |                        | 2010B1494 | BL02B1 | 安田 伸広 |   |
|       |                    |                        | 2011A1218 | BL40XU | 安田 伸広 |   |
|       |                    |                        | 2011A1219 | BL02B1 | 安田 伸広 |   |
| 26638 | Tomohiro Fukushima | 49 (2010)<br>4820-4824 | 2009B1320 | BL02B2 | 堀毛 悟史 | Solid Solutions of Soft Porous Coordination Polymers: Fine-Tuning of Gas Adsorption Properties                                      |

Chemical Communications-1

|       |                  |                        |           |        |       |  |
|-------|------------------|------------------------|-----------|--------|-------|--|
| 16966 | Takato Mitsudome | (2009)<br>3258-3260    | 2008A1571 | BL01B1 | 金田 清臣 | Supported Silver Nanoparticle Catalyst for Selective Hydration of Nitriles to Amides in Water                        |
| 26356 | Yasunori Okamoto | 50 (2014)<br>3421-3423 | 2012B1329 | BL41XU | 杉本 宏  | H <sub>2</sub> O <sub>2</sub> -dependent Substrate Oxidation by an Engineered Diiron Site in a Bacterial Hemerythrin |

## Chemical 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  |
|--------|---------------------|------------------------|-----------|--------|-------|---|
| 26534  | Nor A. Fadil        | 50 (2014)<br>6451-6453 | 2010B4609 | BL15XU | 阿部 英樹 | Synthesis and Electrocatalytic Performance of Atomically Ordered Nickel Carbide (Ni <sub>3</sub> C) Nanoparticles   |
| 26652  | Yoshihiro Tsujimoto | 50 (2014)<br>5915-5918 | 2013A4504 | BL15XU | 山浦 一成 | New Members of Layered Oxychloride Perovskites with Square Planar Coordination: Sr <sub>2</sub> MO <sub>2</sub> Cl <sub>2</sub> (M = Mn, Ni) and Ba <sub>2</sub> PdO <sub>2</sub> Cl <sub>2</sub> |
|        |                     |                        | 2013B4503 | BL15XU | 山浦 一成 |   |
| 26745  | Takashi Toyao       | 50 (2014)<br>6779-6781 | 2012B1372 | BL14B2 | 堀内 悠  | Development of a Ru Complex-Incorporated MOF Photocatalyst for Hydrogen Production under Visible-Light Irradiation  |
|        |                     |                        | 2013A1403 | BL01B1 | 堀内 悠  |   |

## Chemistry - A European Journal

|       |                   |                          |           |        |        |   |
|-------|-------------------|--------------------------|-----------|--------|--------|---|
| 24531 | Makoto Moriya     | 18 (2012)<br>15305-15309 | 2011A0083 | BL02B1 | 澤 博    | Molecular Ionics in Supramolecular Assemblies with Channel Structures Containing Lithium Ions   |
|       |                   |                          | 2010B0083 | BL02B1 | 澤 博    |   |
|       |                   |                          | 2010A0083 | BL02B1 | 澤 博    |   |
| 26062 | Misa Sugino       | 20 (2014)<br>3069-3076   | 2012A1592 | BL38B1 | 杉野 光彩  | Amphiphilic Inclusion Spaces for Various Guests and Regulation of Fluorescence Intensity of 1,8-Bis(4-aminophenyl)anthracene Crystals |
|       |                   |                          | 2013A1617 | BL38B1 | 杉野 光彩  |   |
| 26147 | Toshiyuki Sasaki  | 20 (2014)<br>2478-2487   | 2012A1570 | BL38B1 | 佐々木 俊之 | Characterization of Supramolecular Hidden Chirality of Hydrogen-Bonded Networks by Advanced Graph Set Analysis                        |
|       |                   |                          | 2013A1605 | BL38B1 | 佐々木 俊之 |   |
| 26158 | Xiao Yuan         | 19 (2013)<br>1227-1234   | 2011B1679 | BL01B1 | 朝倉 博行  | Development of Palladium Surface-Enriched Heteronuclear Au-Pd Nanoparticle Dehalogenation Catalysts in an Ionic Liquid                |
| 26707 | Hajime Shigemitsu | 19 (2013)<br>15366-15377 | 2012A1330 | BL38B1 | 久木 一朗  | Crystalline Supramolecular Nanofibers Based on Dehydrobenzoannulene Derivatives   |
|       |                   |                          | 2013A1104 | BL38B1 | 久木 一朗  |   |

## Inorganic Chemistry

|       |                  |                          |           |        |        |  |
|-------|------------------|--------------------------|-----------|--------|--------|--|
| 26174 | Akira Miura      | 52 (2013)<br>9699-9701   | 2012B1781 | BL02B2 | 和田 智志  | Bonding Preference of Carbon, Nitrogen, and Oxygen in Niobium-Based Rock-Salt Structures   |
|       |                  |                          | 2012B0084 | BL02B2 | 久保田 佳基 |  |
| 26378 | Yasunori Okamoto | 52 (2013)<br>13014-13020 | 2012B1329 | BL41XU | 杉本 宏   | Crystal Structure, Exogenous Ligand Binding, and Redox Properties of an Engineered Diiron Active Site in a Bacterial Hemerythrin   |
| 26466 | Zhenxin Zhang    | 53 (2014)<br>903-911     | 2011B1181 | BL40XU | 安田 伸広  | Tetrahedral Connection of $\epsilon$ -Keggin-type Polyoxometalates To Form an All-Inorganic Octahedral Molecular Sieve with an Intrinsic 3D Pore System  |
|       |                  |                          | 2012A1161 | BL40XU | 安田 伸広  |  |
|       |                  |                          | 2012B1110 | BL40XU | 安田 伸広  |  |
| 26467 | Shuhei Ogo       | 53 (2014)<br>3526-3539   | 2012B1109 | BL02B1 | 安田 伸広  | Preparation and Redox Studies of $\alpha_1$ - and $\alpha_2$ -Isomers of Mono-Ru-Substituted Dawson-type Phosphotungstates with a DMSO Ligand: $[\alpha_1/\alpha_2\text{-P}_2\text{W}_{17}\text{O}_{61}\text{Ru}^{\text{II}}(\text{DMSO})]^{8-}$ |
|       |                  |                          | 2012B1110 | BL40XU | 安田 伸広  |  |
| 26804 | Michael Baker    | 52 (2013)<br>13956-13962 | 2011B1242 | BL25SU | 野尻 浩之  | X-ray Magnetic Circular Dichroism Investigation of the Electron Transfer Phenomena Responsible for Magnetic Switching in a Cyanide-Bridged [CoFe] Chain  |
|       |                  |                          | 2012A1430 | BL25SU | 野尻 浩之  |  |
|       |                  |                          | 2012B1557 | BL25SU | 野尻 浩之  |  |

## Journal of the Physical Society of Japan

|       |                   |                     |           |        |       |  |
|-------|-------------------|---------------------|-----------|--------|-------|--|
| 26079 | Shoichi Tomiyoshi | 83 (2014)<br>044715 | 2006A1485 | BL46XU | 富吉 昇一 | Charge Density Wave Accompanied by Spin Density Wave in Mn <sub>3</sub> Si   |
|       |                   |                     | 2006B1298 | BL46XU | 富吉 昇一 |  |
| 26130 | Naoyuki Maejima   | 83 (2014)<br>044604 | 2009A1753 | BL25SU | 大門 寛  | Site-Specific Atomic and Electronic Structure Analysis of Epitaxial Silicon Oxynitride Thin Film on SiC(0001) by Photoelectron and Auger Electron Diffractions |
|       |                   |                     | 2009B1769 | BL25SU | 松井 文彦 |  |
| 26240 | Akihiro Hori      | 82 (2013)<br>084703 | 2007B1708 | BL02B2 | 北川 進  | Spin-Dependent Molecular Orientation of O <sub>2</sub> -O <sub>2</sub> Dimer Formed in the Nanoporous Coordination Polymer                                     |
|       |                   |                     | 2007B1761 | BL02B2 | 北川 進  |  |
|       |                   |                     | 2008A1700 | BL02B2 | 北川 進  |  |
| 26696 | Takashi Ueno      | 83 (2014)<br>034708 | 2012B1151 | BL02B2 | 勝藤 拓郎 | Effect of Offstoichiometry on the Physical Properties of Sr <sub>2</sub> VO <sub>4</sub>   |
| 26885 | Alexei Belik      | 83 (2014)<br>074711 | 2011B1347 | BL04B2 | 遊佐 斉  | Absence of Metallic Conductivity in Tetragonal and Cubic PbVO <sub>3</sub> at High Pressure  |
|       |                   |                     | 2012A1136 | BL04B2 | 遊佐 斉  |  |
|       |                   |                     | 2013A1215 | BL04B2 | 遊佐 斉  |  |

## Physical Review Letters-1

|       |               |                      |           |         |       |   |
|-------|---------------|----------------------|-----------|---------|-------|---|
| 26094 | Kenya Ohgushi | 110 (2013)<br>217212 | 2009B1200 | BL02B1  | 大串 研也 | Resonant X-ray Diffraction Study of the Strongly Spin-Orbit-Coupled Mott Insulator CaIrO <sub>3</sub> |
|       |               |                      | 理研        | BL19LXU |       |   |

Physical Review Letters-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   |
|--------|-------------------|----------------------|-----------|--------|----------------|--|
| 26190  | Sharon Shwartz    | 112 (2014)<br>163901 | 2012A8033 | BL3    | Shwartz Sharon | X-Ray Second Harmonic Generation   |
| 26236  | Makina Saito      | 109 (2012)<br>115705 | 2010A0086 | BL09XU | 瀬戸 誠           | Slow Processes in Supercooled <i>o</i> -terphenyl: Relaxation and Decoupling                                   |
|        |                   |                      | 2010B0086 | BL09XU | 瀬戸 誠           |  |
|        |                   |                      | 2011A0086 | BL09XU | 瀬戸 誠           |  |
| 26265  | Hirofumi Akamatsu | 112 (2014)<br>187602 | 2011B1504 | BL02B2 | 藤田 晃司          | Inversion Symmetry Breaking by Oxygen Octahedral Rotations in the Ruddlesden-Popper NaRTiO <sub>4</sub> Family |
|        |                   |                      | 2013A1683 | BL02B2 | 藤田 晃司          |  |
| 26740  | Paul Fons         | 108 (2012)<br>239603 | 2011B1704 | BL39XU | Fons Paul      | Comment on "New Structural Picture of the Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> Phase-Change Alloy"  |
|        |                   |                      | 2013B1308 | BL39XU | Fons Paul      |  |

Acta Crystallographica Section D

|       |                |                        |           |        |              |   |
|-------|----------------|------------------------|-----------|--------|--------------|---|
| 22097 | Michihiro Suga | 67 (2011)<br>742-744   | 2008A6500 | BL44XU | 山下 栄樹        | Distinguishing between Cl <sup>-</sup> and O <sub>2</sub> <sup>2-</sup> as the Bridging Element between Fe <sup>3+</sup> and Cu <sup>2+</sup> in Resting-Oxidized Cytochrome <i>c</i> Oxidase |
|       |                |                        | 2008B6500 | BL44XU | 山下 栄樹        |   |
|       |                |                        | 2009A6500 | BL44XU | 山下 栄樹        |   |
|       |                |                        | 2009B6500 | BL44XU | 山下 栄樹        |   |
| 24804 | Michihiro Suga | 65 (2009)<br>758-766   | 2006B6500 | BL44XU | 山下 栄樹        | A Description of the Structural Determination Procedures of a Gap Junction Channel at 3.5 Å Resolution  |
|       |                |                        | 2007A6500 | BL44XU | 山下 栄樹        |   |
|       |                |                        | 2007B6500 | BL44XU | 山下 栄樹        |   |
|       |                |                        | 2008A6500 | BL44XU | 山下 栄樹        |   |
| 25822 | Jian Yu        | 70 (2014)<br>553-564   | 2007B1095 | BL41XU | 姚 閔          | Structures of AzrA and of AzrC Complexed with Substrate or Inhibitor: Insight into Substrate Specificity and Catalytic Mechanism  |
|       |                |                        | 2009A1116 | BL41XU | 姚 閔          |   |
| 26732 | Kuei Chen Wang | 70 (2014)<br>1401-1410 | 2013A4002 | BL12B2 | Li Tsung Lin | Insights into the Binding Specificity and Catalytic Mechanism of <i>N</i> -acetylhexosamine 1-phosphate Kinases through Multiple Reaction Complexes   |
|       |                |                        | 2013B4012 | BL12B2 | Li Tsung Lin |   |

Chemistry Letters

|       |                   |                      |           |        |        |  |
|-------|-------------------|----------------------|-----------|--------|--------|--|
| 24954 | Tomoo Mizugaki    | 42 (2013)<br>729-731 | 2010B1795 | BL14B2 | 金田 清臣  | Selective Hydrogenolysis of Glycerol to 1,2-Propanediol Using Heterogeneous Copper Nanoparticle Catalyst Derived from Cu-Al Hydrotalcite |
|       |                   |                      | 2010B1956 | BL14B2 | 金田 清臣  |  |
|       |                   |                      | 2011A1763 | BL14B2 | 金田 清臣  |  |
| 25338 | Tomoo Mizugaki    | 42 (2013)<br>313-315 | 2010A1788 | BL14B2 | 金田 清臣  | Size Selective Synthesis of Subnano Pd Clusters Using Core [Poly(propyleneimine)]-Shell [Poly(benzyl ether)] Hybrid Dendrimers           |
|       |                   |                      | 2011A1295 | BL01B1 | 金田 清臣  |  |
|       |                   |                      | 2012B1137 | BL01B1 | 金田 清臣  |  |
| 26272 | Hirotohi Sakamoto | 39 (2010)<br>218-219 | 2009A0084 | BL02B2 | 久保田 佳基 | Systematic Construction of Porous Coordination Pillared-Layer Structures and Their Sorption Properties                                   |
|       |                   |                      | 2008B1790 | BL02B2 | 北川 進   |  |
| 26706 | Chien Chih Chen   | 43 (2014)<br>299-301 | 2007B1988 | BL38B1 | 藤内 謙光  | Acidic Proton Modulation of a Stilbene-based Zwitterionic Sulfonic Acid in the Solid State: Mimicking a Biological Device                |
|       |                   |                      | 2007B2005 | BL38B1 | 藤内 謙光  |  |
|       |                   |                      | 2007B2039 | BL38B1 | 藤内 謙光  |  |
|       |                   |                      | 2008A1422 | BL38B1 | 藤内 謙光  |  |
|       |                   |                      | 2012A1580 | BL38B1 | 山本 淳志  |  |
|       |                   |                      | 2013B1245 | BL38B1 | 久木 一朗  |  |

Hyperfine Interactions

|       |                   |                       |           |        |        |  |
|-------|-------------------|-----------------------|-----------|--------|--------|--|
| 21751 | Makina Saito      | 206 (2012)<br>87-90   | 2011B0086 | BL09XU | 瀬戸 誠   | Time-Domain Interferometry Experiments Using Multi-Line Nuclear Absorbers  |
| 26184 | Masayuki Kurokuzu | 226 (2014)<br>687-691 | 2009B0086 | BL09XU | 瀬戸 誠   | Development of <sup>125</sup> Te Synchrotron-Radiation-Based Mössbauer Spectroscopy                              |
| 26235 | Makina Saito      | 226 (2014)<br>629-636 | 2010A0086 | BL09XU | 瀬戸 誠   | Slow Dynamics of Supercooled Liquid Revealed by Rayleigh Scattering of Mössbauer Radiation Method in Time Domain |
|       |                   |                       | 2010B0086 | BL09XU | 瀬戸 誠   |  |
|       |                   |                       | 2011A0086 | BL09XU | 瀬戸 誠   |  |
|       |                   |                       | 2012B1467 | BL09XU | 齋藤 真器名 |  |
|       |                   |                       | 2013A1445 | BL09XU | 齋藤 真器名 |  |
|       |                   |                       | 2012A0086 | BL09XU | 瀬戸 誠   |  |
| 26334 | Satoshi Tsutsui   | 226 (2014)<br>637-642 | 2007B1107 | BL09XU | 筒井 智嗣  | Sm Atomic Dynamics in a Charge Density Wave Compound SmNiC <sub>2</sub>  |
|       |                   |                       |           |        |        |  |

Journal of Materials Chemistry A-1

|       |               |                       |           |        |                |  |
|-------|---------------|-----------------------|-----------|--------|----------------|--|
| 25799 | Tsan Yao Chen | 1 (2013)<br>5660-5669 | 2012B4132 | BL12B2 | Lin Tsang Lang | Ruthenium Core-activated Platinum Monolayer Shell High Redox Activity Cathodic Electrocatalysts for Dye-Sensitized Solar Cells |
|-------|---------------|-----------------------|-----------|--------|----------------|--|

## Journal of Materials Chemistry A-2

| 研究成果番号 | 主著者            | 雑誌情報                  | 課題番号      | ビームライン | 実験責任者 | タイトル   |
|--------|----------------|-----------------------|-----------|--------|-------|--|
| 26097  | Akinori Saeki  | 2 (2014)<br>6075-6080 | 2013A1634 | BL19B2 | 尾坂 格  | Boosting Photovoltaic Performance of a Benzobisthiazole Based Copolymer: A Device Approach Using a Zinc Oxide Electron Transport Layer |
|        |                |                       | 2013B1719 | BL19B2 | 尾坂 格  |  |
| 26616  | Donglin Han    | 1 (2013)<br>3027-3033 | 2010B1850 | BL19B2 | 篠田 弘造 | A Comprehensive Understanding of Structure and Site Occupancy of Y in Y-doped BaZrO <sub>3</sub>                                       |
| 26642  | Toyoki Okumura | 2 (2014)<br>8017-8025 | 2012B1935 | BL14B2 | 小林 弘典 | Further Findings of X-ray Absorption Near-Edge Structure in Lithium Manganese Spinel Oxide Using First-Principles Calculations         |
|        |                |                       | 2012B1574 | BL19B2 | 小林 弘典 |  |

## Physical Chemistry Chemical Physics

|           |                  |                          |           |        |        |   |
|-----------|------------------|--------------------------|-----------|--------|--------|---|
| 25710     | Yasutaka Tsuda   | 16 (2014)<br>3815-3822   | 2013A3870 | BL23SU | 岡田 美智雄 | Initial Stages of Cu <sub>3</sub> Au(111) Oxidation : Oxygen Induced Cu Segregation and the Protective Au Layer Profile   |
|           |                  |                          | 2012B3805 | BL23SU | 岡田 美智雄 |   |
|           |                  |                          | 2012A3805 | BL23SU | 岡田 美智雄 |   |
|           |                  |                          | 2011B3805 | BL23SU | 岡田 美智雄 |   |
|           |                  |                          | 2011A3805 | BL23SU | 岡田 美智雄 |   |
|           |                  |                          | 2010A3872 | BL23SU | 岡田 美智雄 |   |
|           |                  |                          | 2009B3873 | BL23SU | 岡田 美智雄 |   |
|           |                  |                          | 2009A3874 | BL23SU | 岡田 美智雄 |   |
|           |                  |                          | 2007A3807 | BL23SU | 寺岡 有殿  |   |
|           |                  |                          | 2007B3808 | BL23SU | 岡田 美智雄 |   |
| 25784     | Gabor Samjeske   | 15 (2013)<br>17208-17218 | 2011B1038 | BL40XU | 岩澤 康裕  | Performance and Characterization of a Pt-Sn(oxidized)/C Cathode Catalyst with a SnO <sub>2</sub> -decorated Pt <sub>3</sub> Sn Nanostructure for Oxygen Reduction Reaction in a Polymer Electrolyte Fuel Cell |
|           |                  |                          | 2011B1040 | BL01B1 | 岩澤 康裕  |   |
|           |                  |                          | 2011B1597 | BL01B1 | 岩澤 康裕  |   |
|           |                  |                          | 2012A1004 | BL40XU | 岩澤 康裕  |   |
|           |                  |                          | 2012A1026 | BL01B1 | 岩澤 康裕  |   |
| 26223     | Daisuke Yonekura | 16 (2014)<br>6027-6032   | 2013A1701 | BL01B1 | 折笠 有基  | Progress of the Conversion Reaction of Mn <sub>3</sub> O <sub>4</sub> Particles as a Function of the Depth of Discharge   |
|           |                  |                          | 2013B1751 | BL01B1 | 折笠 有基  |   |
| 26251     | Kensaku Nagasawa | 16 (2014)<br>10075-10087 | 2011B1597 | BL01B1 | 岩澤 康裕  | Performance and Durability of Pt/C Cathode Catalysts with Different Kinds of Carbons for Polymer Electrolyte Fuel Cells Characterized by Electrochemical and <i>in situ</i> XAFS Techniques                   |
|           |                  |                          | 2012B1022 | BL01B1 | 岩澤 康裕  |   |
|           |                  |                          | 2012A1004 | BL40XU | 岩澤 康裕  |   |
|           |                  |                          | 2012A1026 | BL01B1 | 岩澤 康裕  |   |
|           |                  |                          | 2012A1692 | BL40XU | 岩澤 康裕  |   |
|           |                  |                          | 2013A7801 | BL36XU | 岩澤 康裕  |   |
| 2013A7802 | BL36XU           | 岩澤 康裕                    |           |        |        |   |

## Acta Crystallographica Section F

|       |                            |                      |           |        |        |   |
|-------|----------------------------|----------------------|-----------|--------|--------|---|
| 25666 | Kanokporn Srisucharitpanit | 69 (2013)<br>170-173 | 2011B1227 | BL41XU | 姚 閔    | Crystallization and Preliminary X-ray Crystallographic Analysis of the Functional Form of BinB Binary Toxin from <i>Bacillus sphaericus</i>                               |
| 26175 | Takashi Urahama            | 70 (2014)<br>444-449 | 2011A1528 | BL41XU | 胡桃坂 仁志 | Structure of Human Nucleosome Containing the Testis-specific Histone Variant TSH2B  |
| 26635 | Shigeru Sugiyama           | 70 (2014)<br>738-741 | 2010A1537 | BL41XU | 杉山 成   | Crystallization and Preliminary Crystallographic Studies of PotA, a Membrane-Associated ATPase of the Spermidine-Preferential uptake System in <i>Thermotoga maritima</i> |
|       |                            |                      | 2010B1261 | BL38B1 | 杉山 成   |   |
|       |                            |                      | 2012A1370 | BL38B1 | 杉山 成   |   |

## American Mineralogist-1

|           |              |                        |           |        |       |  |
|-----------|--------------|------------------------|-----------|--------|-------|--|
| 26280     | Yuki Asahara | 98 (2013)<br>2053-2062 | 2009B0087 | BL10XU | 廣瀬 敬  | Acoustic Velocity Measurements for Stishovite across the Post-Stishovite Phase Transition under Deviatoric Stress: Implications for the Seismic Features of Subducting Slabs in the Mid-Mantle |
|           |              |                        | 2010A0087 | BL10XU | 廣瀬 敬  |  |
|           |              |                        | 2010B0087 | BL10XU | 廣瀬 敬  |  |
|           |              |                        | 2011A1440 | BL10XU | 朝原 友紀 |  |
| 26440     | Seiji Kamada | 99 (2014)<br>98-101    | 2010A0028 | BL10XU | 大谷 栄治 | The Sound Velocity Measurements of Fe <sub>3</sub> S   |
|           |              |                        | 2010A1142 | BL35XU | 大谷 栄治 |  |
|           |              |                        | 2010B0028 | BL10XU | 大谷 栄治 |  |
|           |              |                        | 2010B1185 | BL35XU | 大谷 栄治 |  |
|           |              |                        | 2011A0028 | BL10XU | 大谷 栄治 |  |
| 2011A1256 | BL35XU       | 大谷 栄治                  |           |        |       |  |



### American Mineralogist-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  |
|--------|----------------|------------------------|-----------|--------|----------------|---|
| 26816  | Anton Shatskiy | 98 (2013)<br>1593-1603 | 2010B1308 | BL04B1 | Shatskiy Anton | The System $K_2CO_3$ - $MgCO_3$ at 6 GPa and 900-1450°C |
|        |                |                        | 2011B1416 | BL04B1 | Shatskiy Anton |   |
|        |                |                        | 2011B1163 | BL04B1 | Shatskiy Anton |   |
|        |                |                        | 2012B1548 | BL04B1 | Shatskiy Anton |   |

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|       |                   |                    |           |         |       |   |
|-------|-------------------|--------------------|-----------|---------|-------|---|
| 26340 | Takayuki Shibata  | 6 (2013)<br>097101 | 2013A1649 | BL02B2  | 守友 浩  | Sodium Ion Diffusion in Layered $Na_xCoO_2$   |
| 26579 | Hirokazu Fukidome | 7 (2014)<br>065101 | 2011B7418 | BL07LSU | 吹留 博一 | Pinpoint Operando Analysis of the Electronic States of a Graphene Transistor Using Photoelectron Nanospectroscopy |
|       |                   |                    | 2012A7425 | BL07LSU | 吹留 博一 |   |
|       |                   |                    | 2012B7435 | BL07LSU | 吹留 博一 |   |
|       |                   |                    | 2013A7443 | BL07LSU | 吹留 博一 |   |
|       |                   |                    | 2011A1646 | BL17SU  | 吹留 博一 |   |
| 26676 | Takao Ochiai      | 7 (2014)<br>065001 | 2010B1744 | BL40B2  | 磯崎 勝弘 | Enhancement of Self-Assembly of Large (>10 nm) Gold Nanoparticles on an ITO Substrate                             |
|       |                   |                    | 2012A1575 | BL40B2  | 田口 知弥 |   |
|       |                   |                    | 2012B1705 | BL40B2  | 落合 隆夫 |   |

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|       |                |                      |           |        |                   |   |
|-------|----------------|----------------------|-----------|--------|-------------------|---|
| 26078 | Shigenori Ueda | 104 (2014)<br>132402 | 2011B4600 | BL15XU | 上田 茂典             | Detection of Spin-Resolved Electronic Structures from a Buried Ferromagnetic Layer Utilizing forward Mott Scattering                              |
|       |                |                      | 2011B4601 | BL15XU | 上田 茂典             |   |
|       |                |                      | 2012A4603 | BL15XU | 上田 茂典             |   |
| 26721 | Jan Richter    | 104 (2014)<br>061909 | 2005A0564 | BL15XU | Fons Paul         | Hard X-ray Photoelectron Spectroscopy Study of $Ge_2Sb_2Te_5$ ; As-deposited Amorphous, Crystalline, and Laser-Reamorphized                       |
|       |                |                      | 2009B4900 | BL15XU | Fons Paul         |   |
| 26722 | Milos Krbal    | 102 (2013)<br>111904 | 2011A1630 | BL39XU | Fons Paul         | Selective Detection of Tetrahedral Units in Amorphous GeTe-based Phase Change Alloys Ge L3-edge X-ray Absorption Near-edge Structure Spectroscopy |
|       |                |                      | 2013A1200 | BL27SU | Kolobov Alexander |   |

### Biochemistry

|           |                   |                        |           |        |       |  |
|-----------|-------------------|------------------------|-----------|--------|-------|--|
| 26118     | Sintawee Sulaiman | 53 (2014)<br>1858-1869 | 2011B6612 | BL44XU | 金谷 茂則 | Crystal Structure and Thermodynamic and Kinetic Stability of Metagenome-Derived LC-Cutinase  |
| 26753     | Ryo Nagao         | 52 (2013)<br>6646-6652 | 2011A1130 | BL41XU | 沈 建仁  | Crystal Structure of Psb31, a Novel Extrinsic Protein of Photosystem II from a Marine Centric Diatom and Implications for Its Binding and Function                           |
|           |                   |                        | 2011B1329 | BL41XU | 沈 建仁  |  |
|           |                   |                        | 2012A1245 | BL41XU | 沈 建仁  |  |
|           |                   |                        | 2012B1399 | BL41XU | 沈 建仁  |  |
| 26759     | Miwa Sugiura      | 52 (2013)<br>9426-9431 | 2010A1139 | BL41XU | 沈 建仁  | Evidence for an Unprecedented Histidine Hydroxyl Modification on D2-His336 in Photosystem II of <i>Thermosynechococcus vulcanus</i> and <i>Thermosynechococcus elongatus</i> |
|           |                   |                        | 2010B1249 | BL41XU | 沈 建仁  |  |
|           |                   |                        | 2011A1130 | BL41XU | 沈 建仁  |  |
|           |                   |                        | 2011B1329 | BL41XU | 沈 建仁  |  |
|           |                   |                        | 2012A1245 | BL41XU | 沈 建仁  |  |
| 2012B1399 | BL41XU            | 沈 建仁                   |           |        |       |  |

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|       |                    |                      |           |        |       |  |
|-------|--------------------|----------------------|-----------|--------|-------|--|
| 22602 | Mina Sakuragi      | 84 (2011)<br>839-844 | 2010A1432 | BL40B2 | 櫻井 和朗 | Increased Cellular Transfection with Magnetized DNA/Benzyl Amine Lipid Complexes                         |
| 22670 | Shinichi Mochizuki | 85 (2012)<br>354-359 | 2009A0012 | BL40B2 | 櫻井 和朗 | Relationship between DNA-Transfection Efficiency and Chemical Structures of Aromatic Cationic Lipids     |
| 26705 | Ichiro Hisaki      | 87 (2014)<br>323-333 | 2011B1587 | BL38B1 | 久木 一朗 | Effects of <i>ortho</i> -Phenyl Substitution on Molecular Arrangements of Octadehydrodibenzo[12]annulene |
|       |                    |                      | 2010B1370 | BL38B1 | 久木 一朗 |  |
|       |                    |                      | 2011A1341 | BL38B1 | 久木 一朗 |  |
|       |                    |                      | 2013A1104 | BL38B1 | 久木 一朗 |  |

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|-------|------------------|---------------------|-----------|--------|-------|--|
| 26261 | Jingui Duan      | 5 (2014)<br>660-666 | 2013A1071 | BL02B2 | 樋口 雅一 | High $CO_2/N_2/O_2/CO$ Separation in a Chemically Robust Porous Coordination Polymer with Low Binding Energy |
| 26708 | Hirokazu Miyoshi | 5 (2014)<br>163-168 | 2012B1324 | BL38B1 | 久木 一朗 | Benz[c]indeno[2,1-a]fluorene: a 2,3-Naphthoquinodimethane Incorporated into an Indenofluorene Frame          |

## Chemical Science-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  |
|--------|----------------|-----------------------|-----------|--------|-------|---|
| 26709  | Kazuhiro Mouri | 4 (2013)<br>4465-4469 | 2012B1324 | BL38B1 | 久木 一朗 | Thermal 8 $\pi$ Electrocyclic Reaction of Heteroarene Tetramers: New Efficient Access to $\pi$ -extended Cyclooctatetraenes |

## CrystEngComm

|       |                  |                        |           |        |                |   |
|-------|------------------|------------------------|-----------|--------|----------------|---|
| 23296 | Tsan-Yao Chen    | 15 (2013)<br>982-994   | 2012A4126 | BL12B2 | Lin Tsang Lang | Core-Dependent Growth of Platinum Shell Nanocrystals and Their Electrochemical Characteristics for Fuel Cells |
| 26146 | Toshiyuki Sasaki | 15 (2013)<br>8237-8240 | 2012A1570 | BL38B1 | 佐々木 俊之         | Chiral Crystallization by Non-Parallel Face Contacts on the Basis of Three-Axially Asymmetric Twofold Helices |
|       |                  |                        | 2013A1605 | BL38B1 | 佐々木 俊之         |   |
| 26391 | Rie Makiura      | 13 (2011)<br>5538-5541 | 2010B1757 | BL13XU | 牧浦 理恵          | Self-Assembly of Highly Crystalline Two-Dimensional MOF Sheets on Liquid Surfaces                             |

## ECS Transactions

|       |                    |                        |           |        |       |   |
|-------|--------------------|------------------------|-----------|--------|-------|---|
| 25500 | Ryo Oike           | 57 (2013)<br>2051-2056 | 2012A1273 | BL27SU | 雨澤 浩史 | Electronic Structures of LaCoO <sub>3</sub> -Based Oxides Studied by Soft X-Ray Absorption Spectroscopy under Controlled Temperatures and Oxygen Partial Pressures                |
|       |                    |                        | 2012B1497 | BL27SU | 雨澤 浩史 |   |
|       |                    |                        | 2011B1167 | BL37XU | 雨澤 浩史 |   |
| 25501 | Yoshinobu Fujimaki | 57 (2013)<br>1925-1932 | 2011B1705 | BL37XU | 雨澤 浩史 | Direct Evaluation of Oxygen Chemical Potential Distribution in an SOFC Cathode by In Situ X-Ray Absorption Spectroscopy   |
|       |                    |                        | 2011A1674 | BL37XU | 雨澤 浩史 |   |
|       |                    |                        | 2012A1455 | BL37XU | 雨澤 浩史 |   |
| 25785 | Gabor Samjeske     | 50 (2013)<br>1651-1657 | 2011B1039 | BL39XU | 岩澤 康裕 | Pt-Sn(Oxidized Shell)/C and Pt-Sn(Reduced)/C as Cathode Catalysts for the Oxygen Reduction Reaction in Polymer Electrolyte Fuel Cells: Catalyst Performances and Characterization |
|       |                    |                        | 2011B1597 | BL01B1 | 岩澤 康裕 |   |

## IEEE Transactions on Magnetics

|       |                    |                      |           |        |       |  |
|-------|--------------------|----------------------|-----------|--------|-------|--|
| 26343 | Makoto Matsuura    | 50 (2014)<br>2003304 | 2013A1642 | BL19B2 | 松浦 真  | Role of P in Nanocrystallization of Fe <sub>85</sub> Si <sub>2</sub> B <sub>8</sub> P <sub>4</sub> Cu <sub>1</sub> |
| 26344 | Masahiko Nishijima | 50 (2014)<br>2004004 | 2013A1641 | BL14B2 | 松浦 真  | X-Ray Absorption Studies of Fe <sub>85</sub> Si <sub>2</sub> B <sub>8</sub> P <sub>4</sub> Cu <sub>1</sub> Alloy   |
| 26775 | Kazuma Nishimura   | 50 (2014)<br>2502306 | 2013A1034 | BL01B1 | 山本 知之 | Substitution Mechanism of Mn and Fe Ions in Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub>                        |

## The Journal of Physical Chemistry Letters

|       |                  |                       |           |        |        |  |
|-------|------------------|-----------------------|-----------|--------|--------|--|
| 24900 | Wataru Kurashige | 4 (2013)<br>3181-3185 | 2013A1220 | BL37XU | 山添 誠司  | Selenolate-Protected Au <sub>38</sub> Nanoclusters: Isolation and Structural Characterization  |
|       |                  |                       | 2012B1074 | BL01B1 | 山添 誠司  |  |
| 25538 | Yuichi Negishi   | 4 (2013)<br>3579-3584 | 2013A1220 | BL37XU | 山添 誠司  | Formation of a Pd@Au <sub>12</sub> Superatomic Core in Au <sub>24</sub> Pd <sub>4</sub> (SC <sub>12</sub> H <sub>25</sub> ) <sub>18</sub> Probed by <sup>197</sup> Au Mössbauer and Pd K-edge EXAFS Spectroscopy |
|       |                  |                       | 2012B1074 | BL01B1 | 山添 誠司  |  |
| 26614 | Wataru Kurashige | 5 (2014)<br>2072-2076 | 2012B1986 | BL01B1 | 宇留賀 朋哉 | Au <sub>25</sub> Clusters Containing Unoxidized Tellurolates in the Ligand Shell   |
|       |                  |                       | 2013B1421 | BL01B1 | 山添 誠司  |  |
|       |                  |                       | 2013A1220 | BL37XU | 山添 誠司  |  |
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|       |                  |                       |           |        |       |   |
|-------|------------------|-----------------------|-----------|--------|-------|---|
| 17185 | Keisuke Tanaka   | 652 (2010)<br>202-209 | 2007B3701 | BL22XU | 葛蒲 敬久 | Hybrid Measurement of CT and Strain Distribution of Internal Crack Using Synchrotron High-Energy Monochromatic X-Rays   |
| 26347 | Yujiro Hayashi   | 777 (2014)<br>118-123 | 2010A7002 | BL33XU | 林 雄二郎 | <i>In Situ</i> Three-dimensional Orientation Mapping in Plastically-deformed Polycrystalline Iron by Three-dimensional X-ray Diffraction                          |
|       |                  |                       | 2010B1008 | BL37XU | 林 雄二郎 |   |
|       |                  |                       | 2010B7002 | BL33XU | 林 雄二郎 |   |
|       |                  |                       | 2011B7002 | BL33XU | 林 雄二郎 |   |
|       |                  |                       | 2012A7002 | BL33XU | 林 雄二郎 |   |
| 26763 | Jun-ichi Shibano | 777 (2014)<br>176-181 | 2012B1257 | BL28B2 | 柴野 純一 | Evaluation of Ductile Damage Progress of Aluminum Single Crystal with Prior Activity of Single Slip System under Tensile Loading by Using Synchrotron White X-ray |

**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  |
|--------|-------------------|-----------------------|-----------|--------|----------|---|
| 26239  | Jin Zhang         | 509 (2014)<br>119-122 | 2013B1049 | BL41XU | Wu Beili | Agonist-bound Structure of the Human P2Y <sub>12</sub> Receptor         |
| 26690  | Kaoru Kumazaki    | 509 (2014)<br>516-520 | 2011A1125 | BL41XU | 瀧木 理     | Structural Basis of Sec-independent Membrane Protein Insertion by YidC  |
|        |                   |                       | 2011A1139 | BL41XU | 塚崎 智也    |   |
|        |                   |                       | 2011B1062 | BL32XU | 瀧木 理     |   |
|        |                   |                       | 2011B1280 | BL32XU | 塚崎 智也    |   |
|        |                   |                       | 2012A1093 | BL32XU | 瀧木 理     |   |
|        |                   |                       | 2012A1201 | BL32XU | 塚崎 智也    |   |
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|        |                   |                       | 2012B1162 | BL32XU | 瀧木 理     |   |
| 26727  | Hiroshi Nishimasu | 491 (2012)<br>284-287 | 2011A1182 | BL41XU | 西増 弘志    | Structure and Function of Zucchini Endoribonuclease in piRNA Biogenesis |
|        |                   |                       | 2011B1062 | BL32XU | 瀧木 理     |   |

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|       |                    |                          |           |        |                |   |
|-------|--------------------|--------------------------|-----------|--------|----------------|---|
| 25920 | Andrew Leong       | 21 (2013)<br>27905-27923 | 2011B0022 | BL20B2 | Lewis Rob      | Measurement of Absolute Regional Lung Air Volumes from Near-Field X-ray Speckles  |
|       |                    |                          | 2012B0047 | BL20B2 | Hooper Stuart  |   |
|       |                    |                          | 2012A1322 | BL20B2 | Kitchen Marcus |   |
| 25972 | Richard Carnibella | 21 (2013)<br>19153-19162 | 2012A1656 | BL20B2 | Fouras Andreas | Decoding the Structure of Granular and Porous Materials from Speckled Phase Contrast X-ray Images   |
|       |                    |                          | 2012A1322 | BL20B2 | Kitchen Marcus |   |
|       |                    |                          | 2012B0047 | BL20B2 | Hooper Stuart  |   |
| 26577 | Yuki Obara         | 22 (2014)<br>1105-1113   | 2013A8059 | BL3    | 三沢 和彦          | Femtosecond Time-Resolved X-ray Absorption Spectroscopy of Liquid using a Hard X-ray Free Electron Laser in a Dual-Beam Dispersive Detection Method |

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|       |                  |                       |           |        |                    |  |
|-------|------------------|-----------------------|-----------|--------|--------------------|--|
| 26508 | Anton Shatskiy   | 189 (2011)<br>92-108  | 2008B1690 | BL04B1 | 桂 智男               | High Pressure Generation using Scaled-up Kawai-cell  |
| 26801 | Daisuke Yamazaki | 228 (2014)<br>262-267 | 2013A1709 | BL04B1 | 山崎 大輔              | Over 1 Mbar Generation in the Kawai-type Multianvil Apparatus and its Application to Compression of (Mg <sub>0.92</sub> Fe <sub>0.08</sub> )SiO <sub>3</sub> Perovskite and Stishovite |
|       |                  |                       | 2012B1081 | BL04B1 | 山崎 大輔              |  |
|       |                  |                       | 2012A1702 | BL04B1 | 山崎 大輔              |  |
|       |                  |                       | 2011B1452 | BL04B1 | 山崎 大輔              |  |
|       |                  |                       | 2011A1781 | BL04B1 | 山崎 大輔              |  |
| 26809 | Anna Dymshits    | 227 (2014)<br>68-75   | 2011B1091 | BL04B1 | Litasov Konstantin | P-V-T Equation of State of Na-majorite to 21 GPa and 1673 K  |
|       |                  |                       | 2012A1416 | BL04B1 | Litasov Konstantin |  |
|       |                  |                       | 2012B1289 | BL04B1 | Litasov Konstantin |  |

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|       |                 |                    |           |        |                |   |
|-------|-----------------|--------------------|-----------|--------|----------------|---|
| 25348 | Kazuki Kato     | 8 (2013)<br>e76983 | 2013A1001 | BL41XU | 山本 雅貴          | Structural and Functional Analyses of DNA-Sensing and Immune Activation by Human cGAS |
|       |                 |                    | 2013A1123 | BL41XU | 石谷 隆一郎         |   |
| 25921 | Stuart Hooper   | 8 (2013)<br>e70895 | 2011B0022 | BL20B2 | Lewis Rob      | Expired CO <sub>2</sub> Levels Indicate Degree of Lung Aeration at Birth              |
|       |                 |                    | 2012A1314 | BL20B2 | Hooper Stuart  |   |
|       |                 |                    | 2012B0047 | BL20B2 | Hooper Stuart  |   |
| 25973 | Jordan Thurgood | 7 (2012)<br>e48122 | 2011A0022 | BL20B2 | Lewis Rob      | Functional Lung Imaging during HFV in Preterm Rabbits                                 |
|       |                 |                    | 2011A1165 | BL20B2 | Kitchen Marcus |   |

**Proceedings of the National Academy of Sciences of the United States of America-1**

|           |                   |                           |           |        |       |   |
|-----------|-------------------|---------------------------|-----------|--------|-------|---|
| 25661     | Akiyoshi Nakamura | 110 (2013)<br>20970-20975 | 2011B1227 | BL41XU | 姚 閔   | Structural Basis of Reverse Nucleotide Polymerization                         |
| 26283     | Atsushi Kodan     | 111 (2014)<br>4049-4054   | 2011B1210 | BL41XU | 小段 篤史 | Structural Basis for Gating Mechanisms of a Eukaryotic P-glycoprotein Homolog |
|           |                   |                           | 2012A1304 | BL41XU | 小段 篤史 |   |
|           |                   |                           | 2012B1348 | BL41XU | 小段 篤史 |   |
|           |                   |                           | 2011A1289 | BL41XU | 中津 亨  |   |
|           |                   |                           | 2010B1324 | BL41XU | 中津 亨  |   |
|           |                   |                           | 2010A1275 | BL41XU | 中津 亨  |   |
|           |                   |                           | 2009B1515 | BL41XU | 中津 亨  |   |
|           |                   |                           | 2009A1458 | BL41XU | 中津 亨  |   |
| 2008B1537 | BL38B1            | 中津 亨                      |           |        |       |   |

## Proceedings of the National Academy of Sciences of the United States of America-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   |
|--------|------------|-------------------------|-----------|--------|-------|--|
| 26539  | Fumi Shima | 110 (2013)<br>8182-8187 | 2009A1102 | BL38B1 | 村岡 真  | <i>In silico</i> Discovery of Small-Molecule Ras Inhibitors that Display Antitumor Activity by Blocking the Ras-effector Interaction |

## Scientific Reports

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| 26342 | Takayuki Shibata   | 3 (2013)<br>032104 | 2012A1094 | BL02B2 | 守友 浩 | Intrinsic Rapid $\text{Na}^+$ Intercalation Observed in $\text{Na}_x\text{CoO}_2$ Thin Films   |
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| 25632 | Hirofumi Ohtsuka | 143 (2013)<br>1043-1050 | 2011B2006 | BL14B2 | 大塚 浩文 | Effects of Ru or Rh Addition on the Activity and Sulfur Tolerance of $\text{Pt/ZrO}_2$ for the Oxidation of Methane at Low Temperatures |
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| 26752     | M. Shoji          | 3 (2013)<br>1831-1848 | 2010A1139 | BL41XU | 沈 建仁 | Theoretical Insight in to Hydrogen-Bonding Networks and Proton Wire for the $\text{CaMn}_4\text{O}_5$ Cluster of Photosystem II. Elongation of Mn-Mn Distances with Hydrogen Bonds |
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**ChemElectroChem**

| 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  |
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| 26634  | Kazuhide Kamiya   | 1 (2014)<br>877-884 | 2012B1682 | BL27SU | 神谷 和秀 | Iron-Nitrogen Coordination in Modified Graphene Catalyzes a Four-Electron-Transfer Oxygen Reduction Reaction    |
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| 26668 | Shouhei Mine | 281 (2014)<br>2584-2596 | 2013A1359 | BL38B1 | 中村 努  | Expression from Engineered <i>Escherichia coli</i> Chromosome and Crystallographic Study of Archaeal <i>N,N'</i> -diacetylchitobiose Deacetylase |
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| 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  |
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|       |               |                      | 2006A1719 | BL38B1 | 吉田 卓也 |  |
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| 26702 | Makoto Ihara     | 288 (2013)<br>15303-15317 | 2010A1010 | BL41XU | 山本 雅貴 | Molecular Bases of Multimodal Regulation of a Fungal Transient Receptor Potential (TRP) Channel |
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| 19191 | Ryosuke Sinmyo | 116 (2011)<br>B07205 | 2009A0087 | BL10XU | 廣瀬 敬 | The Valence State and Partitioning of Iron in the Earth's Lowermost Mantle   |
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| 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   |
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| 26803  | Hirokazu Masai | 2 (2014)<br>2137-2143 | 2011B1193 | BL01B1 | 正井 博和 | Correlation between Preparation Conditions and the Photoluminescence Properties of Sn <sup>2+</sup> Centers in ZnO-P <sub>2</sub> O <sub>5</sub> Glasses           |

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| 26134 | Yuzuru Itoh      | 426 (2014)<br>1723-1735 | 2006B1766 | BL41XU | 関根 俊一 | Dimer-Dimer Interaction of the Bacterial Selenocysteine Synthase SelA Promotes Functional Active-Site Formation and Catalytic Specificity |

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| 18147 | Weiyu Cao     | 113 (2009)<br>8495-8504 | 2009B1589 | BL40B2 | 田代 孝二 | Relationship between Morphological Change and Crystalline Phase Transitions of Polyethylene-Poly(ethylene oxide) Diblock Copolymers. 3. Dependence of Morphological Transition Phenomena on the PE/PEO Segmental Lengths and Its Possible Origins |
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| 26170 | Yasushi Idemoto | 259 (2014)<br>195-202 | 2012B1736 | BL14B2 | 井手本 康 | Composition Dependence of Average and Local Structure of xLi(Li <sub>1/3</sub> Mn <sub>2/3</sub> )O <sub>2</sub> -(1-x)Li(Mn <sub>1/3</sub> Ni <sub>1/3</sub> Co <sub>1/3</sub> )O <sub>2</sub> Active Cathode Material for Li Ion Batteries |
| 26220 | Chih-Yao Chen   | 246 (2014)<br>783-787 | 2012B1802 | BL01B1 | 折笠 有基 | Pyrophosphate Na <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> as a Low-Cost and High-Performance Positive Electrode Materials for Sodium Secondary Batteries Utilizing an Inorganic Ionic Liquid   |

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| 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  |
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|           |                  |                       | 2003B0636 | BL04B1 | 鈴木 昭夫              |   |
|           |                  |                       | 2004A0384 | BL04B1 | 鈴木 昭夫              |   |
|           |                  |                       | 2004B0646 | BL04B1 | 鈴木 昭夫              |   |
| 2007A1095 | BL04B1           | 鈴木 昭夫                 |           |        |                    |   |
| 2009A1661 | BL04B1           | 坂巻 竜也                 |           |        |                    |   |
| 26142     | Masayuki Nishi   | 7 (2014)<br>224-227   | 2013A0082 | BL04B1 | 入舩 徹男              | Stability of Hydrated Silicate at High Pressures and Water Transport to the Deep Lower Mantle |

**Physica Status Solidi C**

|       |                   |                        |           |        |       |  |
|-------|-------------------|------------------------|-----------|--------|-------|--|
| 26829 | Satoshi Ishitsuka | 11 (2014)<br>1312-1315 | 2011B1854 | BL14B2 | 黒田 眞司 | Structural and Magnetic Characterization of (Zn,Fe)Te Thin Films Grown by MBE                            |
|       |                   |                        | 2012B1169 | BL14B2 | 黒田 眞司 |  |
| 26830 | Ke Zhang          | 11 (2014)<br>1324-1327 | 2011A1757 | BL14B2 | 黒田 眞司 | Effect of Acceptor Co-doping on Magnetism and Electronic States in Ferromagnetic Semiconductor (Zn,Cr)Te |
|       |                   |                        | 2011B1854 | BL14B2 | 黒田 眞司 |  |
|       |                   |                        | 2012B1169 | BL14B2 | 黒田 眞司 |  |

**Physical Review E**

|       |                |                     |           |         |       |  |
|-------|----------------|---------------------|-----------|---------|-------|--|
| 15154 | Mafumi Hishida | 80 (2009)<br>051407 | 2008A1486 | BL40B2  | 瀬戸 秀紀 | Morphological Development of Multilamellar Phospholipid Film Depending on Drying Kinetics                        |
| 26511 | Taiki Hoshino  | 88 (2013)<br>032602 | 理研        | BL19LXU |       | Dynamical Crossover between Hyperdiffusion and Subdiffusion of Polymer-Grafted Nanoparticles in a Polymer Matrix |
|       |                |                     | 2012A1025 | BL19B2  | 高原 淳  |  |

**Physics and Chemistry of Minerals**

|       |                |                      |           |        |       |  |
|-------|----------------|----------------------|-----------|--------|-------|--|
| 21587 | Hiroaki Ohfuji | 39 (2012)<br>543-552 | 2010A1545 | BL10XU | 大藤 弘明 | Influence of Graphite Crystallinity on the Microtexture of Nano-Polycrystalline Diamond Obtained by Direct Conversion                |
|       |                |                      | 2010B1588 | BL10XU | 大藤 弘明 |  |
| 26277 | Saori Imada    | 39 (2012)<br>525-530 | 2010B0087 | BL10XU | 廣瀬 敬  | Compression of Na <sub>0.4</sub> Mg <sub>0.6</sub> Al <sub>1.6</sub> Si <sub>0.4</sub> O <sub>4</sub> NAL and Ca-ferrite-type Phases |
|       |                |                      | 2011A0087 | BL10XU | 廣瀬 敬  |  |

**RSC Advances**

|       |                 |                         |           |        |       |   |
|-------|-----------------|-------------------------|-----------|--------|-------|---|
| 25337 | Zen Maeno       | 3 (2013)<br>9662-9665   | 2012B1869 | BL14B2 | 金田 清臣 | Regioselective Oxidative Coupling of 2,6-Dimethylphenol to Tetramethyldiphenone Using Polyamine Dendrimer-encapsulated Cu Catalysts   |
| 26217 | Zhen-Dong Huang | 3 (2013)<br>22935-33939 | 2013A1013 | BL14B2 | 内本 喜晴 | A Novel Cationic-Ordering Fluoro-Polyanionic Cathode LiV <sub>0.5</sub> Fe <sub>0.5</sub> PO <sub>4</sub> F and its Single Phase Li <sup>+</sup> Insertion/Extraction Behaviour |
|       |                 |                         | 2013A1013 | BL14B2 | 内本 喜晴 |   |

**Science**

|       |                |                         |           |        |                  |   |
|-------|----------------|-------------------------|-----------|--------|------------------|---|
| 26667 | Erkan Karakas  | 344 (2014)<br>992-997   | 2013B1919 | BL41XU | 奥村 英夫            | Crystal Structure of a Heterotetrameric NMDA Receptor ion Channel                 |
| 26828 | Olga P. Popova | 342 (2013)<br>1069-1073 | 2013B0035 | BL37XU | Zolensky Michael | Chelyabinsk Airburst, Damage Assessment, Meteorite Recovery, and Characterization |

**Tetrahedron Letters**

|       |               |                        |           |        |       |   |
|-------|---------------|------------------------|-----------|--------|-------|---|
| 26461 | Hajime Kobori | 54 (2013)<br>5481-5483 | 2012B1109 | BL02B1 | 安田 伸広 | Armillariols A to C from the Culture Broth of <i>Armillaria</i> sp. |
| 26463 | Jing Wu       | 54 (2013)<br>4900-4902 | 2011B1181 | BL40XU | 安田 伸広 | An Unusual Sterol from the Mushroom <i>Stropharia rugoannulata</i>  |

**Transactions of the Materials Research Society of Japan-1**

|       |                |                      |           |        |       |   |
|-------|----------------|----------------------|-----------|--------|-------|---|
| 16882 | Shin Takahashi | 34 (2009)<br>617-620 | 2009A1841 | BL46XU | 横溝 臣智 | Non-destructive Analysis on Oxidation States of Ti Atoms in the Passivation Film Formed on SUS321 Using Hard X-ray Photoelectron Spectroscopy |
|-------|----------------|----------------------|-----------|--------|-------|---|



**Transactions of the Materials Research 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  |
|--------|-----------|----------------------|-----------|--------|-------|---|
| 24434  | Akio Ohta | 38 (2013)<br>353-357 | 2007A0005 | BL47XU | 財満 鎮明 | XPS Study of Energy Band Alignment between Hf-La Oxides and Si(100) |
|        |           |                      | 2011A0026 | BL46XU | 宮崎 誠一 |   |

**繊維学会誌 (Journal of the Society of Fiber Science and Technology, Japan)**

|       |                |                      |           |        |       |   |
|-------|----------------|----------------------|-----------|--------|-------|---|
| 26689 | Keisuke Ide    | 70 (2014)<br>76-83   | 2012A1170 | BL40B2 | 大越 豊  | Fiber Structure Development of Poly( <i>p</i> -polyphenylene sulfide) in Laser-heated Drawing Process                   |
| 26870 | Keisuke Kaneda | 70 (2014)<br>137-144 | 2011B1407 | BL45XU | 敷中 一洋 | Flow-Orientation of Internal Structure and Anisotropic Properties on Hydrogels Consisted of Imogolite Hollow Nanofibers |
|       |                |                      | 2012B1140 | BL45XU | 敷中 一洋 |   |

**電気学会論文誌 C (IEEJ Transactions on Electronic, Information and Systems)**

|       |               |                       |           |        |       |  |
|-------|---------------|-----------------------|-----------|--------|-------|--|
| 26080 | Yuden Teraoka | 134 (2014)<br>524-525 | 2012A3801 | BL23SU | 寺岡 有殿 | Surface Temperature Dependence on AlN Film Formation Processes Induced by Supersonic N <sub>2</sub> Molecular Beam |
|       |               |                       | 2011B3801 | BL23SU | 寺岡 有殿 |  |
|       |               |                       | 2011A3803 | BL23SU | 寺岡 有殿 |  |
| 26081 | Yuden Teraoka | 134 (2014)<br>473-478 | 2011A3801 | BL23SU | 寺岡 有殿 | Influence of Surface Oxide Layer on Deuterium Molecule Desorption from V(001) Surface                              |
|       |               |                       | 2010B3801 | BL23SU | 寺岡 有殿 |  |
|       |               |                       | 2010A3801 | BL23SU | 寺岡 有殿 |  |
|       |               |                       | 2009B3801 | BL23SU | 寺岡 有殿 |  |
|       |               |                       | 2009A3801 | BL23SU | 寺岡 有殿 |  |
|       |               |                       | 2008B3801 | BL23SU | 寺岡 有殿 |  |

**ACS Applied Materials & Interfaces**

|       |                     |                       |           |        |       |  |
|-------|---------------------|-----------------------|-----------|--------|-------|--|
| 26535 | Maidhily Manikandan | 6 (2014)<br>3790-3793 | 2013B4602 | BL15XU | 阿部 英樹 | Photocatalytic Water Splitting under Visible Light by Mixed-Valence Sn <sub>3</sub> O <sub>4</sub> |
|-------|---------------------|-----------------------|-----------|--------|-------|--|

**Acta Crystallographica Section B**

|       |                     |                      |           |        |      |   |
|-------|---------------------|----------------------|-----------|--------|------|---|
| 26106 | Norihiro L. Okamoto | 70 (2014)<br>275-282 | 2012B1145 | BL02B1 | 乾 晴行 | Structure Refinement of the δ <sub>1p</sub> Phase in the Fe-Zn System by Single-Crystal X-ray Diffraction Combined with Scanning Transmission Electron Microscopy |
|       |                     |                      | 2013A1394 | BL02B1 | 乾 晴行 |   |

**Acta Crystallographica Section C**

|       |              |                      |           |        |       |   |
|-------|--------------|----------------------|-----------|--------|-------|---|
| 26507 | Sachiko Maki | 69 (2013)<br>696-703 | 2008A0096 | BL02B2 | 西堀 英治 | 1,4-Bis[2-(4-ferrocenylphenyl)ethynyl]anthraquinone from Synchrotron X-ray Powder Diffraction |
|       |              |                      | 2008B0096 | BL02B2 | 西堀 英治 |   |

**Advanced Functional Materials**

|       |                |                        |           |        |              |  |
|-------|----------------|------------------------|-----------|--------|--------------|--|
| 26105 | Clara Guglieri | 24 (2014)<br>2094-2100 | 2011B1700 | BL25SU | Chaboy Jesus | Evidence of Oxygen Ferromagnetism in ZnO Based Materials |
|       |                |                        | 2011B3873 | BL23SU | Chaboy Jesus |  |
|       |                |                        | 2011B0024 | BL39XU | Chaboy Jesus |  |
|       |                |                        | 2009B0024 | BL39XU | Chaboy Jesus |  |
|       |                |                        | 2012A0024 | BL39XU | Chaboy Jesus |  |

**Annals of Biomedical Engineering**

|       |                |                        |           |        |           |   |
|-------|----------------|------------------------|-----------|--------|-----------|---|
| 25975 | Andreas Fouras | 40 (2012)<br>1160-1169 | 2011A0022 | BL20B2 | Lewis Rob | Altered Lung Motion is a Sensitive Indicator of Regional Lung Disease |
|-------|----------------|------------------------|-----------|--------|-----------|---|

**ASAIO Journal**

|       |               |                      |           |        |               |   |
|-------|---------------|----------------------|-----------|--------|---------------|---|
| 24700 | Shuji Inamori | 59 (2013)<br>374-379 | 2011B1168 | BL28B2 | 稲盛 修二         | A Comparative Study of Cerebral Microcirculation During Pulsatile and Nonpulsatile Selective Cerebral Perfusion: Assessment by Synchrotron Radiation Microangiography |
|       |               |                      | 2011A1105 | BL28B2 | Pearson James |   |

**Biochimica et Biophysica Acta - Bioenergetics**

|       |             |                        |           |        |       |   |
|-------|-------------|------------------------|-----------|--------|-------|---|
| 25696 | Yota Fukuda | 1837 (2014)<br>396-405 | 2011B6634 | BL44XU | 野尻 正樹 | Structural and Functional Characterization of the <i>Geobacillus</i> Copper Nitrite Reductase: Involvement of the Unique N-terminal Region in the Interprotein Electron Transfer with its Redox Partner |
|       |             |                        | 2012A6736 | BL44XU | 野尻 正樹 |   |

**Biopolymers**

|       |                 |                      |           |        |        |  |
|-------|-----------------|----------------------|-----------|--------|--------|--|
| 21677 | Daisuke Motooka | 98 (2012)<br>111-121 | 2007A2120 | BL38B1 | 大久保 忠恭 | The Triple Helical Structure and Stability of Collagen Model Peptide with 4(s)-hydroxyprolyl-pro-gly Units |
|-------|-----------------|----------------------|-----------|--------|--------|--|

### Bioscience, Biotechnology, and Biochemistry

| 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   |
|--------|---------|------------------------|-----------|--------|-------|--|
| 26460  | Jing Wu | 77 (2013)<br>1779-1781 | 2012B1109 | BL02B1 | 安田 伸広 | Isolation of Bioactive Steroids from the <i>Stropharia rugosoannulata</i> Mushroom and Absolute Configuration of Strophasterol B |

### Catalysis Today

|       |                |                     |           |        |      |  |
|-------|----------------|---------------------|-----------|--------|------|--|
| 26383 | Shun Nishimura | 232 (2014)<br>89-98 | 2012B1610 | BL01B1 | 西村 俊 | Selective Hydrogenation of Biomass-Derived 5-hydroxymethylfurfural (HMF) to 2,5-dimethylfuran (DMF) under Atmospheric Hydrogen Pressure over Carbon Supported PdAu Bimetallic Catalyst |
|-------|----------------|---------------------|-----------|--------|------|--|

### Cell

|       |                   |                       |           |        |       |  |
|-------|-------------------|-----------------------|-----------|--------|-------|--|
| 26724 | Hiroshi Nishimasu | 156 (2014)<br>935-949 | 理研        | BL32XU |       | Crystal Structure of Cas9 in Complex with Guide RNA and Target DNA |
|       |                   |                       | 2011A1182 | BL41XU | 西増 弘志 |  |

### Cellulose

|       |          |                       |           |        |      |  |
|-------|----------|-----------------------|-----------|--------|------|--|
| 26103 | Yu Ogawa | 21 (2014)<br>999-1006 | 2012A1549 | BL40B2 | 小川 悠 | Formation and Stability of Cellulose-Copper-NaOH Crystalline Complex |
|-------|----------|-----------------------|-----------|--------|------|--|

### Chemistry - An Asian Journal

|       |               |                       |           |        |       |   |
|-------|---------------|-----------------------|-----------|--------|-------|---|
| 26613 | Hiroyasu Tabe | 9 (2014)<br>1373-1378 | 2010B1081 | BL38B1 | 上野 隆史 | Porous Protein Crystals as Catalytic Vessels for Organometallic Complexes |
|       |               |                       | 2011A1082 | BL38B1 | 上野 隆史 |   |
|       |               |                       | 2011A1081 | BL32XU | 上野 隆史 |   |

### ChemPhysChem

|       |               |                      |           |        |       |  |
|-------|---------------|----------------------|-----------|--------|-------|--|
| 26109 | Tomonori Ohba | 15 (2014)<br>415-419 | 2013A1030 | BL04B2 | 大場 友則 | Anomalous Enhanced Hydration of Aqueous Electrolyte Solution in Hydrophobic Carbon Nanotubes to Maintain Stability |
|       |               |                      | 2012B1070 | BL04B2 | 大場 友則 |  |
|       |               |                      | 2012A1152 | BL02B2 | 大場 友則 |  |

### ChemSusChem

|       |                  |                       |           |        |       |   |
|-------|------------------|-----------------------|-----------|--------|-------|---|
| 25336 | Arundhathi Racha | 6 (2013)<br>1345-1347 | 2011A1763 | BL14B2 | 金田 清臣 | Highly Selective Hydrogenolysis of Glycerol to 1,3-Propanediol over a Boehmite-Supported Platinum/Tungsten Catalyst |
|       |                  |                       | 2012B1869 | BL14B2 | 金田 清臣 |   |

### Composites Science and Technology

|       |                 |                      |           |        |       |  |
|-------|-----------------|----------------------|-----------|--------|-------|--|
| 26824 | Mizuka Tanimoto | 99 (2014)<br>103-108 | 2011A1237 | BL40B2 | 安藤 慎治 | Effects of Chain Rigidity/Flexibility of Polyimides on Morphological Structures and Thermal Diffusivity of hBN-filled Composites |
|       |                 |                      | 2012B1317 | BL40B2 | 安藤 慎治 |  |
|       |                 |                      | 2013A1077 | BL40B2 | 安藤 慎治 |  |

### Computer Methods in Biomechanics and Biomedical Engineering

|       |                |  |           |        |       |   |
|-------|----------------|--|-----------|--------|-------|---|
| 26684 | Toshihiro Sera | (2014)<br>Published online 13 May 2014 | 2007A2071 | BL20B2 | 世良 俊博 | Numerical Simulation of Airflow and Microparticle Deposition in a Synchrotron Micro-CT-Based Pulmonary Acinus Model |
|-------|----------------|--|-----------|--------|-------|---|

### Crystal Research and Technology

|       |                |                        |           |        |        |  |
|-------|----------------|------------------------|-----------|--------|--------|--|
| 26252 | Kouichi Kifune | 48 (2013)<br>1011-1021 | 2008A1315 | BL02B2 | 木船 弘一  | Crystal Structures of X-phase in the Sb-Te Binary Alloy System |
|       |                |                        | 2009B0084 | BL02B2 | 久保田 佳基 |  |
|       |                |                        | 2010A0084 | BL02B2 | 久保田 佳基 |  |
|       |                |                        | 2011B1328 | BL02B2 | 松永 利之  |  |

### Current Pharmaceutical Biotechnology

|       |                |                        |           |        |           |   |
|-------|----------------|------------------------|-----------|--------|-----------|---|
| 25974 | Robert Jamison | 13 (2012)<br>2128-2140 | 2011B0022 | BL20B2 | Lewis Rob | Functional Imaging to Understand Biomechanics: A Critical Tool For the Study of Biology, Pathology and the Development of Pharmacological Solutions |
|-------|----------------|------------------------|-----------|--------|-----------|---|

### Doklady Earth Sciences

|       |                       |                         |           |        |                    |  |
|-------|-----------------------|-------------------------|-----------|--------|--------------------|--|
| 26812 | Konstantin D. Litasov | 453 (2013)<br>1269-1273 | 2010B1211 | BL04B1 | Litasov Konstantin | <i>P-V-T</i> Equations of State for Iron Carbides Fe <sub>3</sub> C and Fe <sub>7</sub> C <sub>3</sub> and Their Relationships under the Conditions of the Earth's Mantle and Core |
|       |                       |                         | 2011B1091 | BL04B1 | Litasov Konstantin |  |

**Earth and Planetary Science 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  |
|--------|-------------|-----------------------|-----------|--------|--------------------|---|
| 26817  | Sujoy Ghosh | 371 (2013)<br>103-111 | 2007B1611 | BL04B1 | Litasov Konstantin | Effect of Water in Depleted Mantle on Post-Spinel Transition and Implication for 660 km Seismic Discontinuity |
|        |             |                       | 2007B1570 | BL04B1 | 大谷 栄治              |   |

**ECS Electrochemistry Letters**

|       |              |                     |           |        |                |  |
|-------|--------------|---------------------|-----------|--------|----------------|--|
| 26222 | Yuki Orikasa | 3 (2014)<br>F23-F26 | 2009B1607 | BL01B1 | Shao-Horn Yang | Surface Strontium Segregation of Solid Oxide Fuel Cell Cathodes Proved by In Situ Depth-Resolved X-ray Absorption Spectroscopy |
|       |              |                     | 2009B1613 | BL37XU | Shao-Horn Yang |  |
|       |              |                     | 2011B1908 | BL01B1 | 折笠 有基          |  |
|       |              |                     | 2012A1675 | BL01B1 | 折笠 有基          |  |
|       |              |                     | 2012A1678 | BL01B1 | 折笠 有基          |  |

**ECS Journal of Solid State Science and Technology**

|       |              |                     |           |        |       |   |
|-------|--------------|---------------------|-----------|--------|-------|---|
| 26654 | Sakyo Hirose | 3 (2014)<br>243-248 | 2009A4604 | BL15XU | 大橋 直樹 | Impact of Electrode Oxidation on the Current Transport Properties at Platinum/(Niobium-Doped Strontium-Titanate) Schottky Junctions |
|       |              |                     | 2009B4607 | BL15XU | 大橋 直樹 |   |
|       |              |                     | 2010A4602 | BL15XU | 大橋 直樹 |   |
|       |              |                     | 2010B4607 | BL15XU | 大橋 直樹 |   |
|       |              |                     | 2011A4610 | BL15XU | 大橋 直樹 |   |
|       |              |                     | 2011B4610 | BL15XU | 大橋 直樹 |   |
|       |              |                     | 2012A4612 | BL15XU | 大橋 直樹 |   |
|       |              |                     | 2012B4612 | BL15XU | 大橋 直樹 |   |

**The EMBO Journal**

|       |                   |                        |           |        |       |  |
|-------|-------------------|------------------------|-----------|--------|-------|--|
| 26723 | Fuminori Tokunaga | 31 (2012)<br>3856-3870 | 2011A1182 | BL41XU | 西増 弘志 | Specific Recognition of Linear Polyubiquitin by A20 Zinc Finger 7 is Involved in NF- $\kappa$ B Regulation |
|-------|-------------------|------------------------|-----------|--------|-------|--|

**Energy & Environmental Science**

|       |                      |                       |           |        |      |  |
|-------|----------------------|-----------------------|-----------|--------|------|--|
| 26748 | Sergey Milikisiyants | 5 (2012)<br>7747-7756 | 2011A1130 | BL41XU | 沈 建仁 | The Structure and Activation of Substrate Water Molecules in the S <sub>2</sub> State of Photosystem II Studied by Hyperfine Sublevel Correlation Spectroscopy |
|       |                      |                       | 2011B1329 | BL41XU | 沈 建仁 |  |

**Environmental Science & Technology**

|       |                   |                        |           |        |      |  |
|-------|-------------------|------------------------|-----------|--------|------|--|
| 26367 | Satoshi Mitsunobu | 47 (2013)<br>9660-9667 | 2011A1223 | BL01B1 | 光延 聖 | Behavior of Antimony(V) during the Transformation of Ferrihydrite and Its Environmental Implications |
|-------|-------------------|------------------------|-----------|--------|------|--|

**Experimental Eye Research**

|       |               |                     |           |        |                     |   |
|-------|---------------|---------------------|-----------|--------|---------------------|---|
| 26875 | Mehdi Bahrami | 124 (2014)<br>93-99 | 2013A1651 | BL20B2 | Pierscionek Barbara | Optical Properties of the Lens: An Explanation for the Zones of Discontinuity |
|       |               |                     | 2012A1650 | BL20B2 | Pierscionek Barbara |   |

**Genes and Development**

|       |                 |                      |           |        |       |   |
|-------|-----------------|----------------------|-----------|--------|-------|---|
| 26135 | Shunsuke Tagami | 28 (2014)<br>521-531 | 理研        | BL32XU |       | Structural Basis for Promoter Specificity Switching of RNA Polymerase by a Phage Factor |
|       |                 |                      | 2011B1382 | BL41XU | 関根 俊一 |   |
|       |                 |                      | 2012A1334 | BL41XU | 関根 俊一 |   |
|       |                 |                      | 2012B1392 | BL41XU | 関根 俊一 |   |
|       |                 |                      | 2013A1149 | BL41XU | 関根 俊一 |   |

**Green Chemistry**

|       |              |                        |           |        |      |  |
|-------|--------------|------------------------|-----------|--------|------|--|
| 25894 | Leilei Zhang | 15 (2013)<br>2680-2684 | 2013A1400 | BL46XU | 崔 芸涛 | Aerobic Oxidative Coupling of Alcohols and Amines over Au-Pd/resin in Water: Au/Pd Molar Ratios Switch the Reaction Pathways to Amides or Imines |
|-------|--------------|------------------------|-----------|--------|------|--|

**IEEE Electron Device Letters**

|       |              |                        |           |        |                     |   |
|-------|--------------|------------------------|-----------|--------|---------------------|---|
| 26814 | Kangwook Lee | 34 (2013)<br>1038-1040 | 2013B1763 | BL13XU | Mariappan Murugesan | Degradation of Memory Retention Characteristics in DRAM Chip by Si Thinning for 3-D Integration |
|-------|--------------|------------------------|-----------|--------|---------------------|---|

**IEEE Transactions on Electron Devices**

|       |                     |                      |           |        |                     |   |
|-------|---------------------|----------------------|-----------|--------|---------------------|---|
| 26153 | Murugesan Mariappan | 61 (2014)<br>540-547 | 2012B1808 | BL13XU | Mariappan Murugesan | Deteriorated Device Characteristics in 3D-LSI Caused by Distorted Silicon Lattice |
|-------|---------------------|----------------------|-----------|--------|---------------------|---|

**IEICE Transactions on Electronics**

| 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  |
|--------|-----------|-------------------------|-----------|--------|-------|---|
| 24549  | Akio Ohta | E96-C (2013)<br>702-707 | 2011A0026 | BL46XU | 宮崎 誠一 | Evaluation of Chemical Composition and Bonding Features of Pt/SiO <sub>x</sub> /Pt MIM Diodes and Its Impact on Resistance Switching Behavior |
|        |           |                         | 2011B0026 | BL46XU | 宮崎 誠一 |   |
|        |           |                         | 2012A0026 | BL46XU | 宮崎 誠一 |   |

**Intermetallics**

|       |            |                    |           |        |       |   |
|-------|------------|--------------------|-----------|--------|-------|---|
| 26660 | Guang Zeng | 54 (2014)<br>20-27 | 2012B1440 | BL37XU | 野北 和宏 | Ni Segregation in the Interfacial (Cu,Ni) <sub>6</sub> Sn <sub>5</sub> Intermetallic Layer of Sn-0.7Cu-0.05Ni/Cu Ball Grid Array (BGA) Joints |
|       |            |                    | 2013B1524 | BL37XU | 野北 和宏 |   |

**International Journal of Hydrogen Energy**

|       |               |                          |           |        |               |  |
|-------|---------------|--------------------------|-----------|--------|---------------|--|
| 26767 | Hyunjeong Kim | 39 (2014)<br>10546-10551 | 2013A3787 | BL22XU | Kim Hyunjeong | Reduction and Unusual Recovery in the Reversible Hydrogen Storage Capacity of V <sub>1-x</sub> Ti <sub>x</sub> during Hydrogen Cycling |
|-------|---------------|--------------------------|-----------|--------|---------------|--|

**International Journal of Pharmaceutics**

|       |            |                       |           |        |       |  |
|-------|------------|-----------------------|-----------|--------|-------|--|
| 25741 | Takeo Kano | 461 (2014)<br>495-504 | 2007A1249 | BL43IR | 寺田 勝英 | Clarifying the Mechanism of Aggregation of Particles in High-Shear granulation Based on Their Surface Properties by using Micro-Spectroscopy |
|       |            |                       | 2007B1231 | BL43IR | 寺田 勝英 |  |
|       |            |                       | 2008A1311 | BL43IR | 寺田 勝英 |  |

**JETP Letters**

|       |                    |                      |           |        |                    |  |
|-------|--------------------|----------------------|-----------|--------|--------------------|--|
| 26810 | Konstantin Litasov | 98 (2013)<br>805-808 | 2010B1211 | BL04B1 | Litasov Konstantin | Phase Transformations of Fe <sub>3</sub> N-Fe <sub>4</sub> N Iron Nitrides at Pressures up to 30 GPa Studied by In Situ X-ray Diffractometry |
|-------|--------------------|----------------------|-----------|--------|--------------------|--|

**Journal of Aerosol Medicine and Pulmonary Drug Delivery**

|       |                  |                      |           |        |                  |  |
|-------|------------------|----------------------|-----------|--------|------------------|--|
| 26717 | Martin Donnelley | 25 (2013)<br>307-316 | 2011A1306 | BL20B2 | Donnelley Martin | Variability of <i>In Vivo</i> Fluid Dose Distribution in Mouse Airways is Visualized by High-Speed Synchrotron X-ray Imaging |
|-------|------------------|----------------------|-----------|--------|------------------|--|

**Journal of Applied Physics**

|       |                   |                      |           |        |                   |  |
|-------|-------------------|----------------------|-----------|--------|-------------------|--|
| 26720 | Kirill Mitrofanov | 115 (2014)<br>173501 | 2013A1200 | BL27SU | Kolobov Alexander | Ge L <sub>3</sub> -edge X-ray Absorption Near-edge Structure Study of Structural Changes Accompanying Conductivity Drift in the Amorphous Phase of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> |
|       |                   |                      | 2013A1449 | BL01B1 | Fons Paul         |  |

**Journal of Applied Polymer Science**

|       |                |                     |           |        |       |  |
|-------|----------------|---------------------|-----------|--------|-------|--|
| 26647 | Shunsuke Koido | 131 (2014)<br>39762 | 2012A1348 | BL40B2 | 河井 貴彦 | Mesomorphic Phase Formation of Plasticized Poly(L-lactic acid) |
|       |                |                     | 2011A1336 | BL40B2 | 河井 貴彦 |  |
|       |                |                     | 2010B1474 | BL40B2 | 松葉 豪  |  |

**Journal of Bacteriology**

|       |            |                         |           |        |       |   |
|-------|------------|-------------------------|-----------|--------|-------|---|
| 25269 | Kosuke Oda | 195 (2013)<br>1741-1749 | 2010B1303 | BL41XU | 杉山 政則 | Crystallographic Study to Determine the Substrate Specificity of an L-serine-acetylating Enzyme Found in the D-cycloserine Biosynthetic Pathway |
|-------|------------|-------------------------|-----------|--------|-------|---|

**The Journal of Chemical Physics**

|       |                |                      |           |        |      |  |
|-------|----------------|----------------------|-----------|--------|------|--|
| 26259 | Toshiji Kanaya | 140 (2014)<br>144906 | 2008B0098 | BL09XU | 瀬戸 誠 | Relaxation Transition in Glass-Forming Polybutadiene as Revealed by Nuclear Resonance X-ray Scattering |
|       |                |                      | 2009B0086 | BL09XU | 瀬戸 誠 |  |
|       |                |                      | 2010A0086 | BL09XU | 瀬戸 誠 |  |

**Journal of Geophysical Research: Solid Earth**

|       |            |                         |           |        |       |  |
|-------|------------|-------------------------|-----------|--------|-------|--|
| 26715 | Kenji Ohta | 119 (2014)<br>4656-4665 | 2011B1470 | BL10XU | 桑山 靖弘 | Highly Conductive Iron-Rich (Mg,Fe)O Magnesiowüstite and its Stability in the Earth's Lower Mantle |
|-------|------------|-------------------------|-----------|--------|-------|--|

**Journal of Magnetism and Magnetic Materials**

|       |             |                     |           |        |       |   |
|-------|-------------|---------------------|-----------|--------|-------|---|
| 26004 | Kenji Otake | 361 (2014)<br>57-60 | 2012A1111 | BL17SU | 大竹 健二 | Microstructure Effect on Magnetization and Domain Structure in Ni <sub>0.49</sub> Zn <sub>0.49</sub> Co <sub>0.02</sub> Fe <sub>1.90</sub> O <sub>x</sub> Ferrite |
|       |             |                     | 2011B1756 | BL17SU | 大竹 健二 |   |
|       |             |                     | 2010B1767 | BL17SU | 大竹 健二 |   |

**Journal of Materials 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  |
|--------|----------------|--------------------------|-----------|--------|-------|---|
| 26641  | Toyoki Okumura | 22 (2012)<br>17340-17348 | 2011B2024 | BL14B2 | 小林 弘典 | Correlation of Lithium Ion Distribution and X-ray Absorption Near-Edge Structure in O3- and O2-lithium Cobalt Oxides from First-Principle Calculation |
|        |                |                          | 2011B2027 | BL19B2 | 小林 弘典 |   |

**Journal of Molecular Catalysis A: Chemical**

|       |                 |                           |           |        |      |  |
|-------|-----------------|---------------------------|-----------|--------|------|--|
| 26559 | Masazumi Tamura | 388-389 (2014)<br>177-187 | 2013A1048 | BL01B1 | 奥村 和 | Promoting Effect of Ru on Ir-ReO <sub>x</sub> /SiO <sub>2</sub> Catalyst in Hydrogenolysis of Glycerol |
|-------|-----------------|---------------------------|-----------|--------|------|--|

**Journal of Molecular Liquids**

|       |                   |                       |           |        |                   |   |
|-------|-------------------|-----------------------|-----------|--------|-------------------|---|
| 26714 | László Temleitner | 197 (2014)<br>204-210 | 2010A1303 | BL04B2 | Temleitner László | Structure Determination of Liquid Carbon Tetrabromide via a Combination of X-ray and Neutron Diffraction Data and Reverse Monte Carlo Modelling |
|-------|-------------------|-----------------------|-----------|--------|-------------------|---|

**Journal of Physics: Condensed Matter**

|       |                 |                     |           |        |        |  |
|-------|-----------------|---------------------|-----------|--------|--------|--|
| 26237 | Shogo Kawaguchi | 25 (2013)<br>416005 | 2012A0084 | BL02B2 | 久保田 佳基 | Anomalous Magnetization Behaviour in a Single Crystal of Vanadium Spinel FeV <sub>2</sub> O <sub>4</sub> |
|       |                 |                     | 2012B0084 | BL02B2 | 久保田 佳基 |  |

**Journal of Polymer Research**

|       |                  |               |           |        |       |   |
|-------|------------------|---------------|-----------|--------|-------|---|
| 26871 | Hiroaki Wakayama | 21 (2014) 488 | 2013B7003 | BL33XU | 原田 雅史 | Effects of Metal Loading and Magnetic Field Strength on Alignment of Noncrystalline Block Copolymers Doped with Metal Complexes |
|-------|------------------|---------------|-----------|--------|-------|---|

**Journal of Solid State Chemistry**

|       |                |                       |           |        |       |  |
|-------|----------------|-----------------------|-----------|--------|-------|--|
| 26711 | Naoto Kitamura | 210 (2014)<br>275-279 | 2011A1853 | BL19B2 | 井手本 康 | Ferroelectric Performances and Crystal Structures of (Pb,La)(Zr,Ti,Nb)O <sub>3</sub> |
|-------|----------------|-----------------------|-----------|--------|-------|--|

**Journal of Surface Analysis**

|       |               |                      |           |        |       |  |
|-------|---------------|----------------------|-----------|--------|-------|--|
| 26025 | Kumiko Yokota | 20 (2014)<br>221-225 | 2007B3801 | BL23SU | 寺岡 有殿 | A Synchrotron Radiation Photoelectron Spectroscopic Study on the Oxidation of Si in Diamond-like Carbon Film by Hyperthermal O-atom Beam |
|       |               |                      | 2008A3801 | BL23SU | 寺岡 有殿 |  |
|       |               |                      | 2008B3801 | BL23SU | 寺岡 有殿 |  |
|       |               |                      | 2009A3801 | BL23SU | 寺岡 有殿 |  |
|       |               |                      | 2009B3801 | BL23SU | 寺岡 有殿 |  |

**Journal of Synchrotron Radiation**

|       |                  |                      |           |        |                  |   |
|-------|------------------|----------------------|-----------|--------|------------------|---|
| 26716 | Martin Donnelley | 21 (2014)<br>768-773 | 2012A1661 | BL20XU | Donnelley Martin | Tracking Extended Mucociliary Transport Activity of Individual Deposited Particles: Longitudinal Synchrotron X-ray Imaging in Live Mice |
|-------|------------------|----------------------|-----------|--------|------------------|---|

**Journal of Thermal Analysis Calorimetry**

|       |                 |                         |           |        |       |   |
|-------|-----------------|-------------------------|-----------|--------|-------|---|
| 26844 | Etsuo Yonemochi | 113 (2013)<br>1505-1510 | 2010B1212 | BL43IR | 寺田 勝英 | Diffusivity of Amorphous Drug in Solid Dispersion |
|       |                 |                         | 2011A1164 | BL43IR | 寺田 勝英 |   |
|       |                 |                         | 2011B1275 | BL43IR | 寺田 勝英 |   |
|       |                 |                         | 2012A1401 | BL43IR | 寺田 勝英 |   |
|       |                 |                         | 2012B1371 | BL43IR | 寺田 勝英 |   |

**Key Engineering Materials**

|       |           |                     |           |        |       |   |
|-------|-----------|---------------------|-----------|--------|-------|---|
| 26294 | Ken Yanai | 582 (2014)<br>51-54 | 2011B1386 | BL02B1 | 野口 祐二 | Polarization Switching Dynamics of Ferroelectric (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> Single Crystals |
|       |           |                     | 2012A1359 | BL02B1 | 野口 祐二 |   |
|       |           |                     | 2012B1243 | BL02B1 | 野口 祐二 |   |

**Light: Science & Applications**

|       |                    |               |           |        |       |  |
|-------|--------------------|---------------|-----------|--------|-------|--|
| 26675 | Francesca Pincella | 3 (2014) e133 | 2010B1744 | BL40B2 | 磯崎 勝弘 | A Visible Light-Driven Plasmonic Photocatalyst |
|       |                    |               | 2012A1575 | BL40B2 | 田口 知弥 |  |

**Materials Research Society Symposia Proceedings**

|       |                |                       |           |        |        |   |
|-------|----------------|-----------------------|-----------|--------|--------|---|
| 22322 | Takuya Hosokai | 1402 (2012)<br>u08-33 | 2009B2070 | BL19B2 | 吉本 則之  | <i>In situ</i> Structural Study of Organic Semiconductor Thin Films |
|       |                |                       | 2010A1875 | BL19B2 | 吉本 則之  |   |
|       |                |                       | 2011A0036 | BL19B2 | 吉本 則之  |   |
|       |                |                       | 2011A1843 | BL19B2 | 小金澤 智之 |   |
|       |                |                       | 2011B0036 | BL19B2 | 吉本 則之  |   |
|       |                |                       | 2010A1873 | BL46XU | 小金澤 智之 |   |

**Meteoritics & Planetary 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  |
|--------|-----------------|----------------------|-----------|--------|-------|---|
| 26418  | Masahiko Tanaka | 49 (2014)<br>237-244 | 2011A4509 | BL15XU | 田中 雅彦 | Crystallization Temperature Determination of Itokawa Particles by Plagioclase Thermometry with X-ray Diffraction Data Obtained by a High-Resolution Synchrotron Gandolfi Camera |
|        |                 |                      | 2011B4507 | BL15XU | 田中 雅彦 |   |

**Microporous and Mesoporous 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  |
|--------|-----------------|---------------------|-----------|--------|--------|---|
| 26274  | Ryotaro Matsuda | 189 (2014)<br>83-90 | 2011A0084 | BL02B2 | 久保田 佳基 | Microporous Structures Having Phenylene Fin: Significance of Substituent Groups for Rotational Linkers in Coordination Polymers |
|        |                 |                     | 理研        | BL44B2 |        |   |

**Mineralogical Magazine**

| 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   |
|--------|------------|----------------------|-----------|--------|-------|--|
| 26281  | Kei Hirose | 78 (2014)<br>437-446 | 2013A0087 | BL10XU | 廣瀬 敬  | Deep Earth Mineralogy Revealed by Ultrahigh-Pressure Experiments |

**Molecular and Cellular Biology**

| 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  |
|--------|-------------------|----------------------|-----------|--------|-------|---|
| 26131  | Toshiaki Fukutomi | 34 (2014)<br>832-846 | 2013B6852 | BL44XU | 水島 恒裕 | Kinetic, Thermodynamic, and Structural Characterizations of the Association between Nrf2-DLGex Degron and Keap1 |

**Nano 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   |
|--------|---------------|------------------------|-----------|--------|-------|--|
| 26410  | Marcus Newton | 14 (2014)<br>2413-2418 | 2013A8033 | BL3    | 田中 義人 | Time-Resolved Coherent Diffraction of Ultrafast Structural Dynamics in a Single Nanowire |
|        |               |                        | 2012B8030 | BL3    | 田中 義人 |  |
|        |               |                        | 2012A8052 | BL3    | 田中 義人 |  |

**Nature 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   |
|--------|------------------|---------------------|-----------|--------|-------|--|
| 26262  | Satoru Shimomura | 2 (2010)<br>633-637 | 2008B1263 | BL02B2 | 北川 進  | Selective Sorption of Oxygen and Nitric Oxide by an Electron-Donating Flexible Porous Coordination Polymer |

**Nature 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  |
|--------|----------------|----------------------|-----------|--------|-------|---|
| 26263  | Nobuhiro Yanai | 10 (2011)<br>787-793 | 2009B1320 | BL02B2 | 堀毛 悟史 | Gas Detection by Structural Variations of Fluorescent Guest Molecules in a Flexible Porous Coordination Polymer |

**Nature Photonics**

| 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  |
|--------|----------------|---------------------|-----------|--------|-------|---|
| 26568  | Kenji Tamasaku | 8 (2014)<br>313-316 | 2012B8006 | BL3    | 玉作 賢治 | X-ray Two-Photon Absorption Competing against Single and Sequential Multiphoton Processes |
|        |                |                     | 2013A8002 | BL3    | 玉作 賢治 |   |

**Nature 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  |
|--------|-------------|----------------------|-----------|--------|-------|---|
| 26077  | M. Hiraishi | 10 (2014)<br>300-303 | 2013A3502 | BL11XU | 石井 賢司 | Bipartite Magnetic Parent Phases in the Iron Oxypnictide Superconductor |

**Nature Structural and Molecular Biology**

| 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  |
|--------|--------------|----------------------|-----------|--------|-------|---|
| 26653  | Yuko Fujioka | 21 (2014)<br>513-521 | 2013B1005 | BL41XU | 山本 雅貴 | Structural Basis of Starvation-Induced Assembly of the Autophagy Initiation Complex |
|        |              |                      | 2013A1001 | BL41XU | 山本 雅貴 |   |

**Nuclear Instruments and Methods in Physics Research A**

| 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   |
|--------|-------------------|---------------------|-----------|--------|-------|--|
| 26869  | Nobuteru Nariyama | 763 (2014)<br>13-17 | 2013A1101 | BL09XU | 成山 展照 | Multi-Concentric-ring Open-Air Ionization Chamber for High-Intensity X-ray Beams |
|        |                   |                     | 2013B1315 | BL28B2 | 棕本 成俊 |  |

**Nuclear Instruments and Methods in Physics Research 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  |
|--------|--------------|----------------------|-----------|--------|-------|---|
| 26183  | Kazuma Aikoh | 314 (2013)<br>99-102 | 2010B1708 | BL25SU | 松井 利之 | Study of Ferromagnetic Ordering of FeRh Thin Films Induced by Energetic Heavy Ion Irradiation by Means of X-ray Magnetic Circular Dichroism |
|        |              |                      | 2012A1174 | BL25SU | 松井 利之 |   |

**Organometallics**

| 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  |
|--------|-----------------|------------------------|-----------|--------|-------|---|
| 21652  | Yumiko Nakajima | 31 (2012)<br>2009-2015 | 2010B1488 | BL38B1 | 高谷 光  | Redox Chemistry of Bis(phosphaethenyl)pyridine Iron Complexes |

**Pharmazie**

| 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  |
|--------|----------------|----------------------|-----------|--------|-------|---|
| 19439  | Yuki Morishita | 66 (2011)<br>808-809 | 2009B1036 | BL37XU | 堤 康央  | Detection of Titanium Dioxide Particles on Frozen Tissue Sections Using Synchrotron Radiation X-ray Fluorescence Analysis |

**Philosophical Magazine**

|       |               |                        |           |        |      |   |
|-------|---------------|------------------------|-----------|--------|------|---|
| 21633 | Shunta Harada | 91 (2011)<br>3108-3127 | 2010A1548 | BL02B2 | 乾 晴行 | Crystal Structure Refinement of ReSi <sub>1.75</sub> with an Ordered Arrangement of Silicon Vacancies |
|-------|---------------|------------------------|-----------|--------|------|---|

**Physica Status Solidi - Rapid Research Letters**

|       |              |                     |           |        |      |  |
|-------|--------------|---------------------|-----------|--------|------|--|
| 26341 | Daiki Tanabe | 8 (2014)<br>287-290 | 2013A1649 | BL02B2 | 守友 浩 | Temperature Dependence of Anisotropic Displacement Parameters in O3-type NaMO <sub>2</sub> (M = Cr and Fe): Comparison with Isostructural LiCoO <sub>2</sub> |
|-------|--------------|---------------------|-----------|--------|------|--|

**Physical Review A**

|       |             |                     |           |        |             |  |
|-------|-------------|---------------------|-----------|--------|-------------|--|
| 26636 | Yigeng Peng | 89 (2014)<br>032512 | 2012B4262 | BL12XU | Zhu Lin Fan | Squared Form Factors of Vibronic Excitations in 12–13.3 eV of Nitrogen Studied by High-Resolution Inelastic X-ray Scattering |
|       |             |                     | 2011B4256 | BL12XU | Zhu Lin Fan |  |

**Physics Letters B**

|       |                |                       |           |         |       |   |
|-------|----------------|-----------------------|-----------|---------|-------|---|
| 26177 | Toshiaki Inada | 732 (2014)<br>356-359 | 2013A8004 | BL3     | 難波 俊雄 | Search for Photon-Photon Elastic Scattering in the X-ray Region |
|       |                |                       | 理研        | BL19LXU |       |   |

**Polymer**

|       |            |                      |           |        |       |   |
|-------|------------|----------------------|-----------|--------|-------|---|
| 26561 | Taizo Kabe | 55 (2013)<br>271-277 | 2011B1711 | BL47XU | 岩田 忠久 | Transition of Spherulite Morphology in a Crystalline/Crystalline Binary Blend of Biodegradable Microbial Polyesters |
|       |            |                      | 理研        | BL45XU |       |   |

**Polymer Journal**

|       |                 |                      |           |        |      |  |
|-------|-----------------|----------------------|-----------|--------|------|--|
| 26250 | Takashi Okuhara | 46 (2014)<br>264-271 | 2012B1452 | BL40B2 | 中村 洋 | Aggregation and Phase Separation of Hydrophilically Modified Poly(dimethylsiloxane) in Methanol-Water Mixtures |
|-------|-----------------|----------------------|-----------|--------|------|--|

**Proceedings of the Japan Concrete Institute**

|       |                   |                      |           |        |       |   |
|-------|-------------------|----------------------|-----------|--------|-------|---|
| 22057 | Takafumi Sugiyama | 34 (2012)<br>202-207 | 2011A1260 | BL20XU | 杉山 隆文 | Phases Analysis on Fly Ash Concrete by Using Synchrotron X-Ray Computed Microtomography |
|-------|-------------------|----------------------|-----------|--------|-------|---|

**Protein and Peptide Letters**

|       |               |                      |           |        |     |   |
|-------|---------------|----------------------|-----------|--------|-----|---|
| 23848 | Shunsuke Kita | 20 (2013)<br>530-537 | 2011B1227 | BL41XU | 姚 閔 | Crystal Structure of a Putative Methyltransferase SAV1081 from <i>Staphylococcus aureus</i> |
|       |               |                      | 2011A1062 | BL41XU | 姚 閔 |   |

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

|       |                 |                        |           |        |       |   |
|-------|-----------------|------------------------|-----------|--------|-------|---|
| 25272 | Yasuyuki Matoba | 79 (2011)<br>2999-3005 | 2006B1648 | BL38B1 | 杉山 政則 | Structural Evidence that Puromycin Hydrolase is a New Type of Aminopeptidase with a Prolyl Oligopeptidase Family Fold |
|       |                 |                        | 2007B1077 | BL38B1 | 杉山 政則 |   |

**Retrovirology**

|       |               |              |           |        |       |  |
|-------|---------------|--------------|-----------|--------|-------|--|
| 26762 | Shungyong Han | 11 (2014) 38 | 2011A1396 | BL32XU | 山形 敦史 | Switching and Emergence of CTL Epitopes in HIV-1 Infection |
|-------|---------------|--------------|-----------|--------|-------|--|

**Science and Technology of Advanced Materials**

|       |              |                     |           |        |       |   |
|-------|--------------|---------------------|-----------|--------|-------|---|
| 26876 | Ryoji Sahara | 15 (2014)<br>035014 | 2012B4611 | BL15XU | 土谷 浩一 | First-Principles Study of Electronic Structures and Stability of Body-Centered Cubic Ti-Mo Alloys by Special Quasirandom Structures |
|-------|--------------|---------------------|-----------|--------|-------|---|

**Small**

|       |                    |                        |           |        |       |  |
|-------|--------------------|------------------------|-----------|--------|-------|--|
| 26345 | Kazuhiro Shikinaka | 10 (2014)<br>1813-1820 | 2011B1407 | BL45XU | 敷中 一洋 | Direct Evidence for Structural Transition Promoting Shear Thinning in Cylindrical Colloid Assemblies |
|       |                    |                        | 2012B1140 | BL45XU | 敷中 一洋 |  |

## Soft 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   |
|--------|-------------------|-----------------------|-----------|--------|-------|--|
| 23631  | David P. Penaloza | 9 (2013)<br>5166-5172 | 2011B1624 | BL40B2 | 大野 正司 | Spatial Heterogeneity in the Sol-Gel Transition of a Supramolecular System |
|        |                   |                       | 2011A1557 | BL40B2 | 大野 正司 |  |

## Solid State Ionics

|       |               |                       |           |        |      |  |
|-------|---------------|-----------------------|-----------|--------|------|--|
| 26741 | Yohei Onodera | 262 (2014)<br>469-471 | 2010A1321 | BL04B2 | 白杵 毅 | Structure of Silver Bromide Doped Chalcogenide Glasses |
|       |               |                       | 2006A1551 | BL04B2 | 白杵 毅 |  |

## Spectrochimica Acta Part A

|       |               |                       |           |        |       |   |
|-------|---------------|-----------------------|-----------|--------|-------|---|
| 26884 | Naoki Noguchi | 133 (2014)<br>509-513 | 2012A1083 | BL43IR | 野口 直樹 | Near-Infrared Spectra of H <sub>2</sub> O under High Pressure and High Temperature: Implications for a Transition from Proton Tunneling to Hopping States |
|-------|---------------|-----------------------|-----------|--------|-------|---|

## Tetrahedron

|       |               |                          |           |        |       |  |
|-------|---------------|--------------------------|-----------|--------|-------|--|
| 26180 | Mio Matsumura | 69 (2013)<br>10927-10932 | 2008B1981 | BL38B1 | 榎 飛雄真 | Synthesis of Porphyrinylamide and Observation of N-methylation-induced Trans-Cis Amide Conformational Alteration |
|-------|---------------|--------------------------|-----------|--------|-------|--|

## Topics in Catalysis

|       |                     |                      |           |        |       |   |
|-------|---------------------|----------------------|-----------|--------|-------|---|
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| 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  |
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博士論文 (大阪大学) -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   |
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| 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  |
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博士論文 (九州大学)

| 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  |
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博士論文 (京都工芸繊維大学)

| 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  |
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| 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  |
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博士論文 (東京大学)

| 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  |
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| 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  |
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| 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   |
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| 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  |
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| 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  |
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Journal of Physics: Conference Series

| 研究成果番号 | 主著者            | 雑誌情報                 | 課題番号  | ビームライン  | タイトル   |
|--------|----------------|----------------------|-------|---------|--|
| 26468  | Takahiro Sato  | 425 (2013)<br>092009 | 理研    | BL19LXU | Development of Ultrafast Pump and Probe Experimental System at SACLA                     |
|        |                |                      | XFEL  | BL3     |  |
| 26504  | Kunio Hirata   | 425 (2013)<br>012002 | 理研    | BL32XU  | Achievement of Protein Micro-Crystallography at SPring-8 Beamline BL32XU                 |
| 26531  | Takaaki Hikima | 425 (2013)<br>012011 | 装置&技術 | BL41XU  | 3D Manipulation of Protein Microcrystals with Optical Tweezers for X-ray Crystallography |
|        |                |                      | 理研    | BL32XU  |  |
|        |                |                      | 理研    | BL45XU  |  |

Physical Review B

|       |                 |                        |    |         |   |
|-------|-----------------|------------------------|----|---------|---|
| 26075 | D. Choudhury    | 89 (2014)<br>104427    | 理研 | BL44B2  | Evolution of Magnetic and Structural Transitions and Enhancement of Magnetocaloric Effect in $\text{Fe}_{1-x}\text{Mn}_x\text{V}_2\text{O}_4$ |
| 26464 | Yasuyuki Hirata | 87 (2013)<br>161111(R) | 理研 | BL19LXU | Complex Orbital State Stabilized by Strong Spin-Orbit Coupling in a Metallic Iridium Oxide $\text{IrO}_2$                                     |

Acta Crystallographica Section D

|       |               |                      |    |        |   |
|-------|---------------|----------------------|----|--------|---|
| 26132 | Lorien Parker | 70 (2014)<br>392-404 | 理研 | BL26B2 | Kinase Crystal Identification and ATP-competitive Inhibitor Screening using the Fluorescent Ligand SKF86002 |
|-------|---------------|----------------------|----|--------|---|

Applied Physics Letters

|       |                 |                      |      |     |   |
|-------|-----------------|----------------------|------|-----|---|
| 26578 | Tetsuo Katayama | 103 (2013)<br>131105 | XFEL | BL3 | Femtosecond X-ray Absorption Spectroscopy with Hard X-ray Free Electron Laser |
|-------|-----------------|----------------------|------|-----|---|

Chemical Communications

|       |              |                        |    |        |  |
|-------|--------------|------------------------|----|--------|--|
| 23514 | Hitomi Sawai | 48 (2012)<br>6523-6525 | 理研 | BL26B1 | Structural Basis for Oxygen Sensing and Signal Transduction of the Heme-Based Sensor Protein Aer2 from <i>Pseudomonas aeruginosa</i> |
|-------|--------------|------------------------|----|--------|--|

Dalton Transactions

|       |                 |                          |    |        |  |
|-------|-----------------|--------------------------|----|--------|--|
| 26490 | Kazuki Kajitani | 42 (2013)<br>15893-15897 | 理研 | BL44B2 | Guest Responsivity of a Two-Dimensional Coordination Polymer Incorporating a Cholesterol-Based Co-Ligand |
|-------|-----------------|--------------------------|----|--------|--|

Experimental Eye Research

|       |            |                       |       |        |   |
|-------|------------|-----------------------|-------|--------|---|
| 26532 | Naoto Yagi | 116 (2013)<br>395-401 | 理研    | BL45XU | Structural Changes in Rod outer Segments of Frog and Mouse after Illumination |
|       |            |                       | 装置&技術 | BL41XU |   |

Japanese Journal of Applied Physics

|       |                |                     |    |        |   |
|-------|----------------|---------------------|----|--------|---|
| 26354 | Shinichi Honda | 53 (2014)<br>02BD06 | 理研 | BL17SU | Transformation of Multiwalled Carbon Nanotubes to Amorphous Carbon Nanorods under Ion Irradiation |
|-------|----------------|---------------------|----|--------|---|

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|-------|------------|----------------------|----|--------|---|
| 26503 | Brian Pauw | 46 (2013)<br>365-371 | 理研 | BL45XU | Improvements and Considerations for Size Distribution Retrieval from Small-Angle Scattering Data by Monte Carlo Methods |
|-------|------------|----------------------|----|--------|---|

The Journal of Biological Chemistry

|       |              |                       |    |        |   |
|-------|--------------|-----------------------|----|--------|---|
| 26555 | Koji Okajima | 289 (2014)<br>413-422 | 理研 | BL45XU | Light-induced Conformational Changes of LOV1 (Light Oxygen Voltage-sensing Domain 1) and LOV2 Relative to the Kinase Domain and Regulation of Kinase Activity in <i>Chlamydomonas</i> Phototropin |
|-------|--------------|-----------------------|----|--------|---|

Journal of Synchrotron Radiation

|       |                  |                    |    |         |  |
|-------|------------------|--------------------|----|---------|--|
| 26473 | Yoshihito Tanaka | 21 (2014)<br>61-65 | 理研 | BL19LXU | Controlling X-ray Beam Trajectory with a Flexible Hollow Glass Fibre |
|       |                  |                    | 理研 | BL29XU  |  |

Journal of the Physical Society of Japan

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|-------|--------------------|--------------------|-------|--------|--|
| 26433 | Alfred Q. R. Baron | 82 (2013)<br>SA029 | 装置&技術 | BL35XU | Toward Sub-meV, Momentum-Resolved, Inelastic X-Ray Scattering using a Nuclear Analyzer |
|-------|--------------------|--------------------|-------|--------|--|

JSAEM Studies in Applied Electromagnetics and Mechanics

|       |                |                     |     |  |  |
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| 26012 | Akihiko Mizuno | 9 (2001)<br>309-310 | 加速器 |  | Numerical Analysis for Low Emittance Electron Beam |
|-------|----------------|---------------------|-----|--|--|

**Macromolecular Chemistry and Physics**

| 研究成果番号 | 主著者                  | 雑誌情報                    | 課題番号 | ビームライン | タイトル  |
|--------|----------------------|-------------------------|------|--------|---|
| 26562  | Hironori Marubayashi | 214 (2013)<br>2546-2561 | 理研   | BL45XU | Biobased Copolymers Composed of L-Lactic Acid and Side-Chain-Substituted Lactic Acids: Synthesis, Properties, and Solid-State Structure |

**Physical Review Letters**

|       |           |                      |    |        |   |
|-------|-----------|----------------------|----|--------|---|
| 26483 | Y. K. Kim | 111 (2013)<br>217001 | 理研 | BL17SU | Existence of Orbital Order and its Fluctuation in Superconducting Ba[Fe <sub>1-x</sub> Co <sub>x</sub> ] <sub>2</sub> As <sub>2</sub> Single Crystals Revealed by X-ray Absorption Spectroscopy |
|-------|-----------|----------------------|----|--------|---|

**Proceedings of 14th International Conference on the Application of Accelerators in Research and Industry**

|       |                    |                   |     |  |   |
|-------|--------------------|-------------------|-----|--|---|
| 20532 | Toshiaki Kobayashi | (1997)<br>761-764 | 加速器 |  | Beam Monitors for SPring-8 Injector Accelerator |
|-------|--------------------|-------------------|-----|--|---|

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

|       |             |                           |    |        |  |
|-------|-------------|---------------------------|----|--------|--|
| 26725 | Kazuki Kato | 109 (2012)<br>16876-16881 | 理研 | BL32XU | Crystal Structure of Enpp1, and Extracellular Glycoprotein Involved in Bone Mineralization and Insulin Signaling |
|-------|-------------|---------------------------|----|--------|--|

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

|       |                 |                        |    |        |   |
|-------|-----------------|------------------------|----|--------|---|
| 25268 | Yasuyuki Matoba | 81 (2013)<br>2052-2058 | 理研 | BL26B2 | Crystallographic and Mutational Analyses of Tannase from <i>Lactobacillus plantarum</i> |
|-------|-----------------|------------------------|----|--------|---|

**Review of Scientific Instruments**

|       |                   |                     |      |        |  |
|-------|-------------------|---------------------|------|--------|--|
| 26857 | Takashi Kameshima | 85 (2014)<br>033110 | 理研   | BL29XU | Development of an X-ray Pixel Detector with Multi-Port Charge-Coupled Device for X-ray Free-Electron Laser Experiments |
|       |                   |                     | XFEL | BL3    |  |

**Science**

|       |              |                       |    |        |  |
|-------|--------------|-----------------------|----|--------|--|
| 26492 | Hiroshi Sato | 343 (2014)<br>167-170 | 理研 | BL44B2 | Self-Accelerating CO Sorption in a Soft Nanoporous Crystal |
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**Structure**

|       |                    |                      |    |        |   |
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| 26726 | Kenichiro Yamagata | 22 (2014)<br>345-352 | 理研 | BL32XU | Structural Basis for Potent Inhibition of SIRT2 Deacetylase by a Macrocyclic Peptide Inducing Dynamic Structural Change |
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