

## 論文リスト (平成25年度分)

発表者	掲載誌	題名
N. Nakashima, K. Yamanaka, T. Yatsushashi	<i>Chinese J. Phys.</i> <b>52</b> (2014) 504-518	Ionic valence change of metal ions in solution by femto-second laser excitation accompanied by white-light laser
N. Nakashima, K. Yamanaka, T. Yatsushashi	<i>J. Phys. Chem. A</i> , <b>117</b> (2013) 8352-8359	Reduction of Yb(III) to Yb(II) by Two-Color Two-Photon Excitation
中島信昭	豊田研究報告 <b>66</b> (2013) 35-43.	2波長2光子光還元 ( $\text{Yb}^{3+} \rightarrow \text{Yb}^{2+}$ ) の反応機構
S. Uji, K. Kodama, K. Sugii, Y. Takahide, T. Terashima, N. Kurita, S. Tsuchiya, M. Kohno, M. Kimata, K. Yamamoto, and K. Yakushi	<i>Phys. Rev. Lett.</i> <b>110</b> , (2013) 196602 (4 pages)	Kosterlitz-Thouless-type transition in a charge ordered state of the layered organic conductor $\alpha$ -(BEDT-TTF) <sub>2</sub> I <sub>3</sub>
T. Koyama, Y. Ito, K. Yoshida, M. Tsuji, H. Ago, H. Kishida, A. Nakamura	<i>ACS Nano</i> <b>7</b> (2013) 2335- 2343	Near-infrared photoluminescence in the femtosecond time region in monolayer graphene on SiO <sub>2</sub>
T. Koyama, S. Shimizu, Y. Miyata, H. Shinohara, A. Nakamura	<i>Phys. Rev. B</i> <b>87</b> (2013) 165430-1-6	Ultrafast formation and decay dynamics of trions in <i>p</i> -doped single-walled carbon nanotubes
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T. Koyama, S. Yoshimitsu, Y. Miyata, H. Shinohara, H. Kishida, A. Nakamura	<i>J. Phys. Chem. C</i> <b>117</b> (2013) 20289-20299	Transient absorption kinetics associated with higher exciton states in semiconducting single-walled carbon nanotubes: Relaxation of excitons and phonons
A. Ito, Y. Nakamura, A. Nakamura, H. Kishida	<i>Phys. Rev. Lett.</i> <b>111</b> (2013) 197801-1-5	Measurement of the nonlinear conducting states of $\alpha$ -(BEDT-TTF) <sub>2</sub> I <sub>3</sub> using electronic Raman scattering
Shunsuke Yoshizawa, Taiji Koseki, Ken Matsuba, Takashi Mochiku, Kazuto Hirata and Nobuhiko Nishida	<i>J. Phys. Soc. Jpn.</i> <b>82</b> (2013) 083706	High-Resolution Scanning Tunneling Spectroscopy of Vortex Cores in Inhomogeneous Electronic States of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>x</sub>
H. Matsuura, K. Miyake	<i>J. Phys. Soc. Jpn.</i> <b>82</b> (2013) 073703-1-4	Effect of Spin-Orbit Interaction on (4d) <sup>3</sup> - and (5d) <sup>3</sup> -Based Transition Metal Oxides
S. Nishiyama, K. Miyake, C. M. Varma	<i>Phys. Rev. B</i> <b>88</b> (2013) 014510-1-10	Superconducting Transition Temperatures for Spin-Fluctuation Promoted Superconductivity in Heavy Fermion Compounds
S. Watanabe, K. Miyake	<i>J. Phys. Soc. Jpn.</i> <b>82</b> (2013) 083704-1-4	Robustness of Quantum Criticality of Valence Fluctuations

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松浦弘泰, 三宅和正	固体物理第48巻, 第8 号, 2013年, 399-407頁	原子価スキッピング現象における近藤効果と超伝導
M. Morinaga	Transactions in GIGAKU in Nagaoka University of Technology, IGCN 2013, in press	Electronic approach to alloy design
水戸祐介, 三木一宏, 東 司, 田村 理, 石黒 徹, 村田純教, 森永正彦	日本学術振興会 耐熱金 属材料第123委員会報告, <b>54(2)</b> (2013) 111-117	高Cr フェライト系耐熱鋼の長時間クリープ破壊強度に及ぼすCr とWの影響
Y. Mito, K. Miki, T. Azuma, T. Ishiguro, O. Tamura, Y. Murata, M. Morinaga	Advances in Materials Technology for Fossil Power Plants: Proceedings from the 7th International Conference (EPR12013), Eds. D. Gandy and J. Shingledecker, ASM International (2014) in press	Effects of Cr and W content in high Cr ferritic heat-resistant steels on long-term creep rupture strength
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S. Motozuka, M. Tagaya, T. Yoshioka, M. Nishikawa, T. Ikoma, M. Morinaga, J. Tanaka	<i>J. Phys. Chem. C</i> <b>117</b> (2013) 16104-16118	Efficient methane reactions on forced-activated oxygen atoms on iron particle
S. Motozuka, M. Tagaya, Y. Hotta, M. Morinaga, T. Ikoma, T. Honma, T. Daimon, J. Tanaka	<i>Industrial &amp; Engineering Chemistry Research</i> <b>52(5)</b> (2013) 2182-2189	Mechanochemical fabrication of carbon fiber/nylon-6 com- posites with interfacial bondings
本塚 智, 多賀谷基博, 堀田裕司, 森永正彦, 田中順三	マテリアル インテグレーション <b>26(2)</b> (2013) 16-22	リサイクル可能な高強度CFRP創出のための炭素繊維と高分子 樹脂の界面接合技術
Y. Kageyama, N. Tanigake, Y. Kurokome, S. Iwaki, S. Takeda, K. Suzuki, T. Sugawara	<i>Chem. Commun.</i> <b>49</b> (2013) 9386-9388	Macroscopic motion of supramolecular assemblies actuated by photoisomerization of azobenzene derivatives
K. Takakura, T. Yamamoto, K. Kurihara, T. Toyota, K. Ohnuma, T. Sugawara	<i>Chem. Commun.</i> <b>50</b> (2014) 2190-2192	Spontaneous transformation from micelles to vesicles asso- ciated with sequential conversions of comprising amphiphiles within assemblies

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美宅成樹	パリテイ 29[1] (2014) 67-69.	ゲノム配列情報から見る生物界繁栄の仕組み
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S. Yamanaka, K. Komi, K. Ueda, Y. Kitagawa, T. Kawakami, M. Okumura, H. Nakamura, K. Yamaguchi	<i>J. Phys. Conf. Ser.</i> 2013, 428, 012035 (7pages)	Ab initio DFT study of magneto-structural correlations of dinuclear mixed-valence Mn complexes
K. Yamaguchi, M. Shoji, H. Isobe, Y. Kitagawa, S. Yamada, T. Kawakami, S. Yamanaka, M. Okumura	<i>Polyhedron</i> , 2013, <b>66</b> , 228-244.	Theory of chemical bonds in metalloenzymes XVI. Oxygen activation by high-valent transition metal ions in native and artificial systems
K. Yamaguchi, Y. Kitagawa, H. Isobe, M. Shoji, S. Yamanaka, M. Okumura	<i>Polyhedron</i> , 2013, <b>57</b> , 138-149.	Theory of chemical bonds in metalloenzymes XVIII. Importance of mixed-valence configurations for $\text{Mn}_5\text{O}_5$ , $\text{CaMn}_4\text{O}_5$ and $\text{Ca}_2\text{Mn}_3\text{O}_5$ clusters revealed by UB3LYP computations. A bio-inspired strategy for artificial photosynthesis
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M. Shoji, H. Isobe, S. Yamanaka, Y. Umena, K. Kawakami, N. Kamiya, J.-R. Shen and K. Yamaguchi	<i>Catal. Sci. Technol.</i> 2013, <b>3</b> , 1831-1848.	Theoretical insight into 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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Suehiro Iwata, Pradipta Bandyopadhyay, Sotiris S. Xantheas	<i>J. Phys. Chem. A</i> <b>117</b> (2013) 6641-6651	Cooperative roles of charge-transfer and dispersion terms in hydrogen-bond networks of $(\text{H}_2\text{O})_n$ , $n=6, 11$ and 16.
若林 肇	<i>NEW GLASS</i> , Vol.29 No.111, (2014) p.28-33.	拡散とそれに纏わるガラスの話
Koji Kato	Mechanical Engineering Reviews, Bulletin of the JSME, Vol. 1, No.1. 2014, paper No.13-00278, Full Text PDF[5049k]	Tribology in the past and future
加藤 康 司	日本セラミックス協会, Vol.48, No.9, 2013, PP700-706	セラミックスのトライボロジー
Y. Shoji, A. Yagi, M. Horiuchi, M. Morimoto, M. Irie	<i>Isr. J. Chem.</i> <b>53</b> (2013) 303-311	Photochromic Diarylethene Derivatives Bearing Hydrophilic Substituents
S. Takami, A. Shimizu, K. Shimizu, R. Miyoshi, T. Yamaguchi, M. Irie	<i>Bull. Chem. Soc. Jpn.</i> <b>86</b> (2013) 1059-1064	Photochromic Performance of 1-Thiazolyl-2-vinylcyclopentene Derivatives Having a Phenyl- or 4-Methoxyphenyl-Substituted Olefin
T. Ichikawa, M. Morimoto, M. Irie	<i>Photochem. Photobiol. Sci.</i> <b>13</b> (2014) 199-204	Asymmetric Photoreaction of a Diarylethene in Hydrogen-Bonded Cocrystals with Chiral Molecules
K. Yamanaka, T. Okada, Y. Goto, M. Ikai, T. Tani, S. Inagaki	<i>J. Phys. Chem. C</i> , <b>117</b> , (2013) 14865-14871	Dynamics of excitation energy transfer from biphenylene excimers in pore walls of periodic mesoporous organosilica to coumarin 1 in the mesochannels
K. Cho	Proc. 7 <sup>th</sup> Int. Cong. On Advanced Electromagnetic Materials in microwaves and Optics (pdf file)	Landau-Lifshitz Theory of Single Susceptibility Maxwell Equations
S. Sanna, P. Carretta, R. De Renzi, G. Prando, P. Bonfa, M. Mazzani, G. Lamura, T. Shiroka, Y. Kobayashi, M. Sato	<i>Phys. Rev. B</i> <b>87</b> (2013) 134518 (1-6).	The onset of magnetism in optimally electron-doped $\text{LnFe}_{1-x}\text{Ru}_x\text{AsO}_{1-y}\text{F}_y$ ( $\text{Ln} = \text{La}, \text{Nd}$ or $\text{Sm}$ ) superconductors around $x = 1/4$
Y. Kobayashi, T. Iida, K. Suzuki, T. Kawamata, M. Itoh, and M. Sato	<i>J. Phys. Soc. Jpn.</i> <b>83</b> (2014) 014712 (6 Pages).	$^{75}\text{As}$ NQR and NMR Studies on the Superconducting State of $\text{Ca}_{10}\text{Pt}_4\text{As}_8(\text{Fe}_{1-x}\text{Pt}_x\text{As})_{10}$

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K. Ikeuchi, M. Sato, R. Kajimoto, Y. Kobayashi, K. Suzuki, M. Itoh, P. Bourges, A. D. Christianson, H. Nakamura, M. Machida	Strongly Correlated Electron Systems. (SCES) 2013 JPS Conference Proceedings to be published.	Phonons and Spin Excitations in Fe-Based Superconductor $\text{Ca}_{10}\text{Pt}_4\text{As}_8 (\text{Fe}_{1-x}\text{Pt}_x\text{As})_{10} (x \sim 0.2)$
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