

Original Papers

A03 Group (2013)

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1. Feng Dang, Tatsuhiko Hoshino, Yuya Oaki, *Eiji Hosono, *Haoshen Zhou, and *Hiroaki Imai, “Synthesis of Li-Mn-O Mesocrystals with Controlled Crystal Phases through Topotactic Transformation of MnCO_3 ”, *Nanoscale*, **5**, 2352-2357 (2013).
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3. Naoki Yagita, *Yuya Oaki, and *Hiroaki Imai, “A Microbial-Mineralization Approach for Syntheses of Iron Oxides with a High Specific Surface Area”, *Chem. Eur. J.*, **19**, 4419-4422 (2013).
4. Hiroyuki Kageyama, Yuya Oaki, Yoko Takezawa, Toshimasa Suzuki and *Hiroaki Imai, “Low-Temperature Syntheses of Cubic BaTiO_3 Nanoparticles in Highly Basic Aqueous Solution”, *J. Ceram. Soc. Japan*, **121**, 388-392 (2013).
5. Wensi Wang, Yuya Oaki, †Chikara Ohtsuki, Takayoshi Nakano and *Hiroaki Imai, “Formation of *c*-Axis-Oriented Columnar Structures through Controlled Epitaxialgrowth of Hydroxyapatite”, *J. Asian Ceram. Soc.*, **1**, 143-148 (2013).
†**A02 Group, Collaborative research.**
6. Ryuta Ise, Yuya Oaki, Hiroaki Imai, “Formation of Trigonal Microarrays with Cubic $\text{Ba}(\text{NO}_3)_2$ in a Polymer Matrix”, *J. Ceram. Soc. Japan*, **121**, 555-558 (2013).
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Ba(NO₃)₂ in Polymer Matrix“, *Cryst. Growth Des.*, **13**, 3011-3017 (2013).

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12. Keisuke Nakamura, *Yuya Oaki and *Hiroaki Imai, “Monolayered Nanodots of Transition Metal Oxides”, *J. Am. Chem. Soc.*, **135**, 4501-4508 (2013).
13. Yurika Munekawa, *Yuya Oaki and *Hiroaki Imai, “An Experimental Study on the Processes of Hierarchical Morphology Replication by Means of a Mesocrystal: A Case Study of Poly(3,4-Ethylenedioxythiophene)”, *Langmuir*, in press (doi: 10.1021/la404942v).

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1. Ryoko Hirashima, Takahiro Seki, Kiyofumi Katagiri, Yuki Akuzawa, Tsukasa Torimoto and †*Yukikazu Takeoka, “Light-Induced Saturation Change in the Angle-Independent Structural Coloration of Colloidal Amorphous Arrays”, *J. Mater. Chem. C*, **2**, 344-348 (2014).
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† A01 Group, Collaborative research.

Other articles in Japanese: 1

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1. R. Hirashima, T. Seki, †K. Katagiri, Y. Akuzawa, T. Torimoto, *Y. Takeoka, “Light-Induced Saturation Change in the Angle-Independent Structural Coloration of Colloidal Amorphous Arrays” *J. Materials Chemistry C* 2014, **2**, 344-348(2014). (doi: 10.1039/C3TC31438C)
† A03 Group, Collaborative research.
2. *Y. Takeoka, S. Yoshioka, M. Teshima, A. Takano, M. Harun-Ur-Rashid, T. Seki, “Structurally Coloured Secondary Particles Composed of Black and White Colloidal Particles” *Sci. Rep.*, **3**, 2371-1-7(2013). (doi: 10.1038/srep02371)
3. *Y. Takeoka, S. Yoshioka, A. Takano, S. Arai, N. Khanin, H. Nishihara, M. Teshima, Y. Ohtsuka, T. Seki, “Producing Coloured Pigments with Amorphous Arrays of Black and White Colloidal Particles” *Angew. Chem. Int. Ed.*, **36**, 7261-7265(2013). (doi: 10.1002/anie.201301321)

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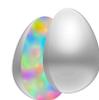
1. †Yukikazu Takeoka, Shinya Yoshioka, Atsushi Takano, Shigeo Arai, Khanin Nueangnoraj, Hiroto Nishihara, Midori Teshima, Yumiko Ohtsuka, and Takahiro Seki, “Production of Colored Pigments with Amorphous Arrays of Black and White Colloidal Particles”, *Angew. Chem. Int. Ed.*, **52**, 7261-7265 (2013).
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2. Ying Tao, Xiaoying Xie, Wei Lv, Dai-Ming Tang, Debin Kong, Zhenghong Huang, Hiroto Nishihara, Takafumi Ishii, Baohua Li, Dmitri Golberg, Feiyu Kang, Takashi Kyotani, Quan-Hong Yang, “Towards Ultrahigh Volumetric Capacitance: Graphene Derived Highly Dense But Porous Carbons for Supercapacitors”, *Sci. Rep.*, **3**, 2975 (2013).
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1. Min Ley Pua, Toru Yoshitomi, Pennapa, Chonpathompikunlert, Aki Hirayama, Yukio Nagasaki, “Redox-Active Injectable Gel Using Thermo-Responsive Nanoscale Polyion Complex Flower Micelle for Noninvasive Treatment of Local Inflammation”, *J. Control. Release*, **172**, 914-920 (2013). (doi.org/10.1016/j.jconrel.2013.10.009).
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1. Yoshimasa Horiguchi, Takashi Kanda, Kanjiro Torigoe, Hideki Sakai, *Masahiko Abe, “Preparation of Gold/Silver/Titania Trilayered Nanorods and Their Photocatalytic Activities”, *Langmuir*, **30**, 922-28 (2014). (DOI: 10.1021/la404370s)
2. Shohei Aikawa, Rekha Goswami Shrestha, Takashi Ohmori, Yuko Fukukita, Yoji Tezuka, Takeshi Endo, Kanjiro Torigoe, Koji Tsuchiya, Kazutami Sakamoto, Kenichi Sakai, Masahiko Abe, *Hideki Sakai, “Photorheological Response of Aqueous Wormlike Micelles with Photocleavable Surfactant”, *Langmuir*, **29**, 5668-5676 (2013).
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6. *Kenichi Sakai, Satoshi Iijima, Ryosuke Ikeda, Takeshi Endo, Yuji Yamashita, Makoto Natsuisaka, Hideki Sakai, Masahiko Abe, “Water-in-Oil Emulsions Prepared by Peptide-Silicone Hybrid Polymers as Active Interfacial Modifier: Effects of Silicone Oil Species on Dispersion Stability of Emulsions” *J. Oleo Sci.*, **62**, 505-511 (2013).
7. *Hirobumi Shibata, Taku Ogura, Keishi Nishio, Hideki Sakai, Masahiko Abe, Kazuaki Hashimoto, Mutsuyoshi Matsumoto, “Facile Synthesis of Mesoporous Gold Particles Using Silica as a Binder through a Solvent Evaporation Process, *Trans. Mat. Res. Soc. Jpn.*, **8**, 221-223, (2013).
8. Kenichi Aburai, Taku Ogura, Ryo Hyodo, Hideki Sakai, *Masahiko Abe, Otto Glatter, “Location of Cholesterol in Liposomes by Using Smallangle X-Ray Scattering (SAXS) Data and the Generalized Indirect Fourier Transformation (GIFT) Method”, *J. Oleo Sci.*, **62**, 913-918 (2013).

Other articles in Japanese: 1

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1. *Kenichi Oyaizu, Yukina Niibori, Akinari Takahashi, and *Hiroyuki Nishide, “BODIPY-Sensitized Photocharging of Anthraquinone-Populated Polymer Layers for Organic Photorechargeable Air Battery”, *J. Inorg. Organomet. Polym.*, **23**, 243-250 (2013).
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5. Takashi Sukegawa, Ayumi Kai, Kenichi Oyaizu, and *Hiroyuki Nishide, “Synthesis of Pendant Nitronyl Nitroxide Radical-Containing Poly(norbornene)s as Ambipolar Electrode-Active Materials”, *Macromolecules*, **46**, 1361-1367 (2013).

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1. Alexey N. Gusev, Miki Hasegawa, Victor F. Shul’gin, Galyna Nishchymenko and Wolfgang Linert, “Photophysical Studies on Ternary Mixed Ligand Europium Complexes Containing Pyridyltriazolymethane and 1,3-Diketonate Ligands”, *Inorg. Chim. Acta.*, in press.
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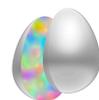
5. Alexey N. Gusev, Miki Hasegawa, Tomohito Shimizu, Tomonori Fukawa, Shoya Sakurai, Galyna A. Nishchymenko, Victor F. Shul'gin, Svetlana B. Meshkova, and Wolfgang Linert, “Synthesis, Structure and Luminescence Studies of Eu(III), Tb(III), Sm(III), Dy(III) Cationic Complexes with Acetylacetonate and Bis(5-(Pyridine-2-Yl)-1,2,4-Triazol-3-Yl)Propane”, *Inorganica Chimica Acta.*, **406**, 279-284 (2014).
6. Alexey N. Gusev, Victor F. Shul'gin, Galina Nishimenko, Miki Hasegawa and Wolfgang Linert, “Photo- and Electroluminescent Properties Europium Complexes Using Bistriazole Ligands”, *Synthetic Metals*, **164**, 17-21 (2014).
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1. Annisa Aprilia, Priastuti Wulandari, Veinardi Suendo, Herman, Rahmat Hidayat, Akihiko Fujii and *Masanori Ozaki, “Influences of Dopant Concentration in Sol-Gel Derived AZO Layer on the Performance of P3HT:PCBM Based Inverted Solar Cell”, *Solar Energy Materials & Solar Cells*, **111**, 181-188 (2013). (doi: 10.1016/j.solmat.2012.12.033).
2. Kaoru Fukumura, Tetsuya Masuda, Tetsuro Hori, Quang Duy Dao, Toshiya Kamikado, Hiroyuki Yoshida, Akihiko Fujii, Yo Shimizu and *Masanori Ozaki, “Solvent Effects on Solution-Processable Bulk Heterojunction Organic Solar Cells Utilizing 1,4,8,11,15,18,22,25-Octahexylphthalocyanine”, *Jpn. J. Appl. Phys.*, **52**, 05DB02 (2013). (doi: 10.7567/JJAP.52.05DB02)
3. Hiroyuki Yoshida, Shuhei Yabu, Hiroki Tone, †Hirotsugu Kikuchi and *Masanori Ozaki, “Electro-Optics of Cubic and Tetragonal Blue Phase Liquid Crystals Investigated by Two-Beam Interference Microscopy”, *Applied Physics Express*, **6**, 062603 (4 pages) (2013). (doi: 10.1143/APEX.6.062603)

† A02 Group, Collaborative research.



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6. Quang-Duy Dao, Takashi Saito, Shohei Nakano, Hitoshi Fukui, Toshiya Kamikado, Akihiko Fujii, Yo Shimizu and *Masanori Ozaki, “Alkyl Substituent Length Dependence of Octaalkylphthalocyanine Bulk Heterojunction Solar Cells”, *Applied Physics Express*, **6**, 122301 (2013). (doi: 10.7567/APEX.6.122301)
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8. Tetsuro Hori, Akitoshi Semba, Sunghwan Lee, Hitoshi Kubo, Akihiko Fujii and *Masanori Ozaki, “Active Layer Analysis of Interpenetrating Heterojunction Organic Thin-Film Solar Cells by X-Ray Photoelectron Spectroscopy”, *Thin Solid Films*, **554**, 222-225 (2014). (doi: 10.1016/j.tsf.2013.06.073)
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10. Quang-Duy Dao, Taishi Kumada, Hitoshi Fukui, Masashi Ohmori, Akihiko Fujii, Yo Shimizu, and *Masanori Ozaki, “Blend Ratio Dependence of Photovoltaic Properties in Octahexylphthalocyanine-Based Small Molecule Solar Cell”, *Jpn. J. Appl. Phys.*, **53**, 05FZ05 (4 pages) (2014). (doi: 10.7567/JJAP.53.05FZ05)

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1. Novriana Dewi, *Hironobu Yanagie, Haito Zhu, Kazuyuki Demachi, Atsuko Shinohara, Kazuhito Yokoyama, Masaki Sekino, Yuriko Sakurai, Yasuyuki

Morishita, Naoko Iyomoto, Takeshi Nagasaki, Yukichi Horiguchii, †Yukio Nagasaki, Jun Nakajima, Minoru Suzuki, Koji Ono, Kazuhiro Kakimi, Hiroyuki Takahashi, “Tumor Growth Suppression by Gadolinium-Neutron Capture Therapy Using Gadolinium-Entrapped Liposome as Gadolinium Delivery Agent”, *Biomed. Biopharmacother.*, **67**, 451-457 (2013).

† A03 Group, Collaborative research.

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1. *Akinori Kuzuya, Ryosuke Watanabe, Mirai Hashizume, Masafumi Kaino, Sinya Minamida, Koji Kameda, Yuichi Ohya, “Precise Structure Control of Three-State Nanomechanical DNA Origami Devices”, *Methods*, in press. (doi: dx.doi.org/10.1016/j.ymeth.2013.11.003)
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Reviews and Account Articles

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Eiji Hosono (Co-Investigator; Renkei-Kenkyusha)

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Articles in Japanese: 1

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Articles in Japanese: 4

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Articles in Japanese: 2

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Articles in Japanese: 1

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Article in Japanese: 1

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1. Koji Nagahama, Akihiro Takahashi, *Yuichi Ohya, “Biodegradable Polymers

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Other article in Japanese: 1

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Books

A03 Group (2013)

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1. Kiyofumi Katagiri and Kunihiro Koumoto “Organic-Inorganic Hybrid Materials Prepared through Supramolecular Assembly”, *Handbook of Advanced Ceramics, Second Edition: Materials, Applications, Processing and Properties*, Ed. Shigeyuki Somiya, Academic Press, pp. 1011-1023 (2013).

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Koji Tomita (Co-Investigators; Kenkyu-Buntansha)

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Article in Japanese: 1

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1. Yuichi Ohya, “Biodegradable Materials”, *Encyclopedia of Polymeric Biomaterials*, Eds. S. Kobayashi and K. Mullen, Springer, in press.

Other article in Japanese: 5

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2. T. Miyata, “Biomolecule-Sensitive Hydrogels”, *Smart Materials for Drug Delivery: Volume 2*, pp. 261-289, RSC Publishing (2013).

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Article in Japanese: 1