

Original Papers

A03 Group (2010)

Hiroaki Imai (Principal Investigator)

Eiji Hosono (Co-Investigator; Renkei-Kenkyusha)

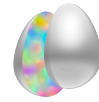
Yuya Oaki (Co-Investigator; Renkei-Kenkyusha)

**Professor, Department of Applied Chemistry, Faculty of Science and Technology,
Keio University**

1. *Feng Dang, Kazumi Kato, Hiroaki Imai, Satoshi Wada, Hajime Haneda, and Makoto Kuwabara, "Characteristics of CeO₂ Nanocubes and Related Polyhedra Prepared by Using a Liquid-Liquid Interface", *Crystal Growth and Design*, **10**, 4537-4541(2010).
2. Ken Sakaushi, Yuya Oaki, Hiroaki Uchiyama, Eiji Hosono, Haoshen Zhou, and *Hiroaki Imai, "Aqueous Solution Synthesis of SnO Nanostructures with Tuned Optical Absorption Behavior and Photoelectrochemical Properties through Morphological Evolution", *Nanoscale*, **2**, 2424-2430 (2010).
3. *Yuya Oaki, Takeo Anzai, and *Hiroaki Imai, "Homogeneous and Disordered Assembly of Densely-Packed Nanocrystals", *Advanced Functional Materials*, **20**, 4127-4132 (2010).
4. Manabu Oba, Yuya Oaki, and *Hiroaki Imai, "A Microbial-Mineralization-Inspired Approach for Synthesis of Manganese Oxide Nanostructures with Controlled Oxidation States and Morphologies", *Advanced Functional Materials*, **20**, 4279-4286 (2010).
5. Shinnoske Okada, Atsushi Nagai, Yuya Oaki, Jun Komotori, and *Hiroaki Imai, "Control of Cellular Activity of Fibroblasts on Size-Tuned Fibrous Hydroxyapatite Nanocrystals", *Acta Biomaterialia*, **7**, 1290-1297 (2011).
6. Misako Kijima, Yuya Oaki, and *Hiroaki Imai, "In vitro Repairing of a Biomineral with Mesocrystal Structure", *Chemistry—A European Journal*, **17**, 2828-2832 (2011).
7. Toru Tsuji, Yuya Oaki, Masao Yoshinari, †Takashi Kato, and *Kiyotaka Shiba, "Motif-Programmed Artificial Proteins Mediated Nucleation of Octacalcium Phosphate on the Titanium Substrates", *Chemical Communications*, 6675–6677. (2010).

†A01 Group, Collaborative research.

8. Yuya Oaki, Hiroyuki Ohno, and †*Takashi Kato, "Nanosegregated Composites of an Imidazolium Salt and a Layered Inorganic Compound: Organization of Both



Anions and Cations in Interlayer Space”, *Nanoscale*, **2**, 2362–2365 (2010).

†A01 Group

9. *†Tatsuya Nishimura, Hirotaka Imai, Yuya Oaki, Takeshi Sakamoto, and *†Takashi Kato, “Preparation of Thin-Film Hydroxyapatite/Polymer Hybrids”, *Chemistry Letters*, **40**, 458-460 (2011). [Selected as Editor’s Choice]

†A01 Group, Collaborative research.

Kiyofumi Katagiri (Principal Investigator)

Koji Tomita (Co-Investigators; Kenkyu-Buntansha)

Associate Professor, Graduate School of Engineering, Hiroshima University

1. *Kiyofumi Katagiri, Yuji Imai, Kunihito Koumoto, Tomohiro Kaiden, Kenji Kono, and †Sadahito Aoshima, “Magneto-responsive On-Demand Release of Hybrid Liposomes Formed with Fe₃O₄ Nanoparticles and Thermosensitive Block Copolymers”, *Small*, accepted for publication.

†A02Group, Collaborative research.

Yukikazu Takeoka (Principal Investigator)

Associate Professor, Department of Molecular Design & Engineering, Nagoya University

1. Huda Muhammad NURAL, Takahiro Seki, Hiromasa Suzuki, A.N.M. Hamidul Kabir, Harun-Ur Rashid, and *Yukikazu Takeoka, “Characteristics of Disperse poly(*N*-isopropylacrylamide) Brushes on Silicon Surfaces by Atom Transfer Radical Polymerization” *Transactions of the Materials Research Society Japan*, **35**, 845-848 (2010).

Reviews and Account Articles

A03 Group (2010)

Hrioaki Imai (Principal Investigator)

Eiji Hosono (Co-Investigator; Renkei-Kenkyusha)

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**Professor, Department of Applied Chemistry, Faculty of Science and Technology,
Keio University**

1. *Tetsuo Kawano and *Hiroaki Imai, “Nanoscale Morphological Design of ZnO Crystals Grown in Aqueous Solutions”, *Journal of the Ceramic Society of Japan*, **118**, 969-976 (2010).

Other articles in Japanese: 2

Kiyofumi Katagiri (Principal Investigator)

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Associate Professor, Graduate School of Engineering, Hiroshima University

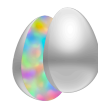
1. †*Masato Kakihana, Makoto Kobayashi, Koji Tomita, and Valery Petrykin, “Application of Water-Soluble Titanium Complexes as Precursors for Synthesis of Titanium-Containing Oxides via Aqueous Solution Processes”, *Bulletin of Chemical Society of Japan*, **83**, 1285-1308 (2010). †A01Group

Other articles in Japanese: 2

Yukikazu Takeoka (Principal Investigator)

Associate Professor, Department of Molecular Design & Engineering, Nagoya University

1. Abu Bin Imran, Takahiro Seki, and *Yukikazu Takeoka, “Recent Advances in Hydrogels in Terms of Fast Stimuli Responsiveness and Superior Mechanical Performance”, *Polymer Journal*, **42**, 839-851 (2010). (Invited Articles)



Books

A03 Group (2010)

Hrioaki Imai (Principal Investigator)

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Yuya Oaki (Co-Investigator; Renkei-Kenkyusha)

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Keio University**

Articles in Japanese: 2

Kiyofumi Katagiri (Principal Investigator),

Associate Professor, Graduate School of Engineering, Hiroshima University

1. *Kiyofumi Katagiri, “*Functionalized organic-inorganic hybrid hollow spheres fabricated via bioinspired processing*”, Bio-Inspired Materials Synthesis, Ed. Yanfeng Gao, Research Signpost, in press (ISBN: 978-81-308-0401-9).