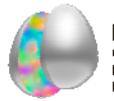


2011 <A02班>

【原著論文】リスト

研究代表者：青島 貞人、連携研究者：金岡 鐘局、金澤 有紘

1. Hiroaki Shimomoto, Dai Fukami, Shokyoku Kanaoka, and *Sadahito Aoshima, “Fluorinated Vinyl Ether Homopolymers and Copolymers: Living Cationic Polymerization and Temperature-Induced Solubility Transitions in Various Organic Solvents Including Perfluoro Solvents”, *J. Polym. Sci., Part A: Polym. Chem.*, **49**, 2051-2058 (2011).
2. 松尾陽祐, 金岡鐘局, *青島貞人, “ヘテロポリ酸によるビニルエーテルの不均一リビングカチオン重合”, *高分子論文集*, **68**, 176-181 (2011).
3. 金岡鐘局, 中山信也, *青島貞人, “ルイス酸／アセチルアセトン開始剤系によるビニルエーテルのリビングカチオン重合：アセチルアセトンのプロトン源および配位子としての役割”, *高分子論文集*, **68**, 349-351 (2011).
4. †*Kiyofumi Katagiri, Yuji Imai, Kunihito Koumoto, Tomohiro Kaiden, Kenji Kono, and Sadahito Aoshima, “Magnetoresponsive On-Demand Release of Hybrid Liposomes Formed with Fe₃O₄ Nanoparticles and Thermosensitive Block Copolymers”, *Small*, **7**, 1683-1689 (2011). †A03班 研究代表者, A03との共同研究
5. 安岡幸作, 金岡鐘局, *青島貞人, “β-メチルスチレン類のカチオン重合”, *高分子論文集*, **68**, 517-519 (2011).
6. Yukari Oda, Shokyoku Kanaoka, Takahiro Sato, Sadahito Aoshima, and *Kenichi Kuroda, “Block versus Random Amphiphilic Copolymers as Antibacterial Agents”, *Biomacromolecules*, **12**, 3581-3591 (2011).
7. *Yasuyuki Tsuboi, Kanae Kikuchi, Noboru Kitamura, Hiroaki Shimomoto, Shokyoku Kanaoka, and *Sadahito Aoshima, “Phase Separation Dynamics of Aqueous Poly[(2-ethoxy)ethoxy ethyl vinyl ether] Solutions as Explored by Laser T-jump Technique Combined with Photometer”, *Macromolecular Chemistry and Physics*, **213**, 374-381 (2012). [Selected as Cover Picture]
8. Hiroaki Shimomoto, Dai Fukami, Tomomi Irita, Ken-ichi Katsukawa, Takabumi Nagai, Shokyoku Kanaoka, and *Sadahito Aoshima, “Synthesis of Fluorine-Containing Star-Shaped Poly(vinyl ether)s via Arm-Linking Reactions in Living Cationic Polymerization”, *J. Polym. Sci., Part A: Polym. Chem.*, **50**, 1547-1555 (2011).
9. Yukari Oda, Takaho Shibata, Hiroyuki Tsujimoto, Shokyoku Kanaoka, and *Sadahito Aoshima, “Highly Efficient Synthesis of Heteroarm Star-Shaped Polymers Using Polymer-Linking Reaction and Their Characteristic Stimuli-Responsive Behaviors”, *Polymer Journal* [Invited Paper], **44**, 541-549 (2012).



2012年6月20日

10. 瀧下大貴, 辻本浩行, 金澤有紘, 金岡鐘局, *青島貞人, “リビングカチオン重合による温度応答性フィルムの創製：様々な応答パターンを有するスマートフィルム”, 高分子論文集, **69**, 300-304 (2012).
11. 織田ゆか里, 藤山栄一, 金岡鐘局, *青島貞人, “高速リビングカチオン重合による極性官能基を有する星型ポリマーの精密合成”, 高分子論文集, **69**, 291-296 (2012).
12. 瀧下大貴, 金澤有紘, 金岡鐘局, *青島貞人, “高感度温度応答性フィルムの創製：ブロックコポリマー構造設計およびフィルム作成条件の影響”, 高分子論文集, **69**, 305-308 (2012).
13. Kosaku Yasuoka, Shokyoku Kanaoka, and *Sadahito Aoshima, “Cationic Copolymerization of 1,1-Diphenylethylene with *p*-Substituted Styrenes”, *Polymer Journal* [Invited Paper], **44**, 541-549 (2012).
14. Yukari Oda, Tomohiro Tsujino, Shokyoku Kanaoka, and *Sadahito Aoshima, “Effective Living Cationic Polymerization of Vinyl Ether with a Potential Chelating Function: Lewis Acid-Specific Polymerization Behaviors”, *J. Polym. Sci., Part A: Polym. Chem.*, in press. (DOI: 10.1002/pola.26088)

研究代表者：大槻 主税、連携研究者：金 日龍

1. *Selvakumar Prakash Parthiban, Ill Yong Kim, Koichi Kikuta, and Chikara Ohtsuki, “Effect of Urea on Formation of Hydroxyapatite Through Double-Step Hydrothermal Processing”, *Mater. Sci. Eng.: C*, **31**, 1383-1388 (2011).
2. *Ill Yong Kim, Ryota Iwatsuki, Koichi Kikuta, Yumi Morita, †Toshiki Miyazaki, and Chikara Ohtsuki, “Thermoreversible Behavior of κ-Carrageenan and Its Apatite-Forming Ability in Simulated Body Fluid”, *Mater. Sci. Eng.: C*, **31**, 1472-1476 (2011). †A02班 研究代表者, A02との共同研究
3. *Selvakumar Prakash Parthiban, Ill Yong Kim, Koichi Kikuta, and Chikara Ohtsuki, “Strategy to Reduce Carbonate Incorporation in the Fabrication of Hydroxyapatite Nanopowders”, *J. Ceram. Soc. Japan*, **119**, 947-953 (2011).
4. *Tomoyo Goto, Ill Yong Kim, Koichi Kikuta, and Chikara Ohtsuki, “Hydroxyapatite Formation by Solvothermal Treatment of α-Tricalcium Phosphate with Water-Ethanol Solution”, *Ceram. Int.*, **38**, 1003-1010 (2012).
5. *Tomoyo Goto, Ill Yong Kim, Koichi Kikuta, and Chikara Ohtsuki, “Hydrothermal Synthesis of Composites of Well-crystallized Hydroxyapatite and Poly(vinyl alcohol) Hydrogel”, *Mater. Sci. Eng.: C*, **32** [3], 397-403 (2012).
6. *Taishi Yokoi, Hidetaka Kato, Ill Yong Kim, Koichi Kikuta, Masanobu Kamitakahara, Masakazu Kawashita, and Chikara Ohtsuki, “Formation of Octacalcium Phosphates

2012年6月20日

with Co-incorporated Succinate and Suberate Ions”, *Dalton Trans.*, **41**, 2732-2737 (2012).

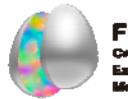
7. *Tomoyo Goto, Ill Yong Kim, Koichi Kikuta, and Chikara Ohtsuki, “Comparative Study of Hydroxyapatite Formation from α - and β -Tricalcium Phosphates under Hydrothermal Conditions”, *J. Ceram. Soc. Japan*, **120** [4], 131-137 (2012).
8. *Taishi Yokoi, Hidetaka Kato, Ill Yong Kim, Koichi Kikuta, Masakazu Kawashita, and Chikara Ohtsuki, “Synthesis of Octacalcium Phosphate with Incorporated Succinate and Suberate Ions”, *Ceramics International*, **38**, 3815-3820 (2012).

プロシードィングス

1. *Mi-Young Koh, Yorita Morita, †Toshiki Miyazaki and Chikara Ohtsuki, “In vitro Apatite-forming Ability of Hydrogels Derived from Sodium Carboxymethylcellulose”, *IOP Conference Series: Mater. Sci. Eng.*, **18**, 192004 (2011). (doi: 10.1088/1757-899X/18/19/192004) †A02班 研究代表者, A02との共同研究
2. *Taishi Yokoi, Masakazu Kawashita, and Chikara Ohtsuki, “Effects of Monocarboxylic Acid Addition on Crystallization of Calcium Phosphate in a Hydrogel Matrix”, *IOP Conference Series: Mater. Sci. Eng.*, **18**, 192012 (2011). (doi:10.1088/1757-899X/18/19/192012)
3. *Selvakumar Prakash Parthiban, Ill Yong Kim, Koichi Kikuta, and Chikara Ohtsuki, “In Vitro Study of Carbonated Hydroxyapatite Blocks Prepared by Double-Step Hydrothermal Method”, *IOP Conference Series: Mater. Sci. Eng.*, **18**, 192008 (2011). (doi:10.1088/1757-899X/18/19/192008)
4. *Tomoyo Goto, Masanobu Kamitakahara, Ill Yong Kim, and Chikara Ohtsuki, “Effects of Ethanol Addition on Formation of Hydroxyapatite through Hydrothermal Treatment of Dicalcium Phosphate Dihydrate”, *IOP Conference Series: Mater. Sci. Eng.*, **18**, 192015 (2011). (doi:10.1088/1757-899X/18/19/192015)

研究代表者：菊池 裕嗣

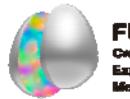
1. *Shin-Ichi Yamamoto, Takashi Iwata, Yasuhiro Haseba, Dong-Uk Cho, Suk-Won Choi, Hiroki Higuchi, and Hirotsugu Kikuchi, “Improvement of Electro-Optical Properties on Polymer-Stabilised Optically Isotropic Liquid Crystals”, *Liq. Cryst.*, **39**, 487-491 (2012).
2. *Thet Naing Oo, Tatsuro Mizunuma, Yasutomo Nagano, Hengyi Ma, Yukiko Ogawa, Yasuhiro Haseba, Hiroki Higuchi, Yasushi Okumura, and Hirotsugu Kikuchi, “Effects of Monomer/Liquid Crystal Compositions on Electro-Optical Properties of Polymer-Stabilized Blue Phase Liquid Crystal”, *Opt. Mater. Express*, **1**, 1502-1510 (2011).



3. *Tatsuro Mizunuma, Thet Naing Oo, Yasutomo Nagano, Hengyi Ma, Yasuhiro Haseba, Hiroki Higuchi, Yasushi Okumura, and Hirotugu Kikuchi, "Electro-Optical Properties of Polymer-Stabilized Blue Phase with Different Monomer Combination and Concentration", *Opt. Mater. Express*, **1**, 1561-1568 (2011).
4. Shuhei Yabu, *Hiroyuki Yoshida, Gihwan Lim, Kosuke Kaneko, Yasushi Okumura, Noboru Uehara, *Hirotugu Kikuchi, and †Masanori Ozaki, "Dual Frequency Operation of a Blue Phase Liquid Crystal", *Opt. Mater. Express*, **1**, 1577-1584 (2011). †A03班 研究代表者, A03との共同研究
5. Shuhei Yabu, Yuma Tanaka, Kenji Tagashira, *Hiroyuki Yoshida, Akihiko Fujii, *Hirotugu Kikuchi, and †Masanori Ozaki, "Polarization-Independent Refractive Index Tuning Using Gold Nanoparticle-Stabilized Blue Phase Liquid Crystals", *Opt. Lett.*, **36**, 3578-3580 (2011). †A03班 研究代表者, A03との共同研究
6. *Jais Bin Lias, Hirotugu Kikuchi, Munehiro Kimura, and Tadashi Akahane, "Determination of Polar Anchoring Strength for Polymer-Stabilized Blue-Phase Liquid Crystal Device", *Jpn. J. Appl. Phys.*, **50**, 081607/1-081607/5 (2011).
7. *Yasuhiro Haseba, Shin-ichi Yamamoto, Takafumi Kuninobu, Kohki Sago, Yasutomo Nagano, and Hirotugu Kikuchi, "Optically Isotropic Liquid Crystals for Electrooptical Devices", *Digest of Technical Papers - Society for Information Display International Symposium*, **42**, 206-209 (2011): SID 2011, Los Angeles, May 17-20, 2011.
8. Hyunseok Choi, Hiroki Higuchi, and *Hirotugu Kikuchi, "Chiral Pitch Dependence of Electro-Optic Kerr Effect in Polymer Stabilized Blue Phase", *Digest of Technical Papers - Society for Information Display International Symposium*, **42**, 1658-1660 (2011): SID 2011, Los Angeles, May 17-20, 2011.
9. Hyunseok Choi, Hiroki Higuchi, *Hirotugu Kikuchi, "Electrooptic Response of Liquid Crystalline Blue Phases with Different Chiral Pitches", *Soft Matter*, **7**, 4252-4256 (2011).
10. *Jae Jin Lyu, Hirotugu Kikuchi, Dae Hyun Kim, Jun Hyup Lee, Kyeong Hyeon Kim, Hiroki Higuchi, and *Seung Hee Lee, "Phase Separation of Monomer in Liquid Crystal Mixtures and Surface Morphology in Polymer-Stabilized Vertical Alignment Liquid Crystal Displays", *J. Phys. D: Appl. Phys.*, **44**, 325104/1-325104/5 (2011).
11. Hyunseok Choi, Hiroki Higuchi, and *Hirotugu Kikuchi, "Fast Electro-Optic Switching in Liquid Crystal Blue Phase II", *Appl. Phys. Lett.*, **98**, 131905/1-131905/3 (2011).

研究代表者：新垣 篤史

1. Johanna M. Galloway, Atsushi Arakaki, Fukashi Masuda, Tsuyoshi Tanaka, Tadashi



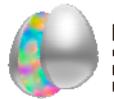
Matsunaga, and *Sarah S. Staniland, "Magnetic Bacterial Protein Mms6 Controls Morphology, Crystallinity and Magnetism of Cobalt-doped Magnetite Nanoparticles *in Vitro*", *J. Mater. Chem.*, **21**, 15244-15254 (2011).

2. Atsushi Arakaki, Keiyu Shibata, Takeyuki Mogi, Masahito Hosokawa, Keiichi Hatakeyama, Hideyuki Gomyo, Tomoyuki Taguchi, Hitoshi Wake, Takeo Tanaami, Tadashi Matsunaga, and *Tsuyoshi Tanaka, "Efficient DNA Release from PAMAM Dendrimer-Modified Superparamagnetic Nanoparticles for DNA Recovery", *Polymer J.*, in press.
3. *Tsuyoshi Tanaka, Keiyu Shibata, Masahito Hosokawa, Keiichi Hatakeyama, Hideyuki Gomyo, Atsushi Arakaki, Takeyuki Mogi, Tomoyuki Taguchi, Hitoshi Wake, Takeo Tanaami, and Tadashi Matsunaga, "Characterization of Magnetic Nanoparticles Modified with Thiol Core, Functionalized PAMAM Dendron for DNA Recovery", *J. Colloid Int. Sci.*, in press.

研究代表者：関野 徹

1. Dong Jin Park, *Tohru Sekino, Satoshi Tsukuda, Shun-Ichiro Tanaka, "Synthesis of Sm-doped TiO₂ nanotube and analysis of its methylene blue removal properties under dark and UV irradiated conditions", *Research on Chemical Intermediates*, (2012), DOI: 10.1007/s11164-012-0614-x, in press. (published online first)
2. *Takashi Nakamura, Hirofumi Usami, Hiroshi Ohnishi, Hisataka Nishida, Xuehua Tang, Kazumichi Wakabayashi, Tohru Sekino, and Hirofumi Yatani, "The relationship between milling a new silica-doped zirconia and its resistance to low-temperature degradation (LTD): a pilot study", *Dental Matererials Journal*, **31**(1), 106-112 (2012).
3. *H. Nishida, H. Egusa, T. Sekino, Y. Taguchi, S. Komasa, K. Kusumoto, M. Tanaka, K. Yamamoto, "Infruense of Titanium Oxide Nanotubes on Rat Bone Marrow Stromal Cells", *The Journal of Japan Association of Oral Rehabilitation*, **24**[1], 52-57(2011).
4. Dong Jin Park, *Tohru Sekino, Satoshi Tsukuda, Asuka Hayashi, Takafumi Kusunose, Shun-Ichiro Tanaka, Photoluminescence of samarium-doped TiO₂ nanotubes, *Journal of Solid State Chemistry*, **184**, 2695-2700 (2011).
5. *Narges F. Fahim and Tohru Sekino, "Anodic TiO₂ nanotubes powder and its application in dye-sensitized solar cells", *Journal of Nanoparticules Research*, **13**, 6409–6418 (2011).

研究代表者：奥村 剛



2012年6月20日

1. Naomi SONE, Marie MORI, and *Ko OKUMURA, “Scaling relation in fracture of the materials with elastoplastic response inaccessible by scaling laws”, *J. Phys. Soc. Jpn.*, **81** (2012) 074604 (1-5).

研究代表者：川野 竜司

1. Yutaro Tsuji, Ryuji Kawano, Toshihisa Osaki, Hirotaka Sasaki, Norihisa Miki, *Shoji Takeuchi “Simple and Stable Lipid Bilayer Formation: A Droplets Contacting Method using Parylene Micropores for Multiple Ion Channel Recordings” *IEEJ Trans.E.*, **131**, 419-424 (2011).

【国際学会プロシーディングス】(査読付き)

1. Yutaro Tsuji, Ryuji Kawano, Toshihisa Osaki, Hirotaka Sasaki, Norihisa Miki, *Shoji Takeuchi “Easy and Stable Lipid Bilayer Formation: A Droplets-Contacting-Method in Parylene Micropores for Multiple Ion Channel Recordings” *Proceedings of the Transducers*, 214-217 (2011): *Transducers 2011*, Beijing, June 5-9, 2011.
2. Ryuji Kawano, Yutaro Tsuji, Minako Hirano, Toshihisa Osaki, Hirotaka Sasaki, Koki Kamiya, Norihisa Miki, Toru Ide *Shoji Takeuchi “Automated Drug Screening System for Ion Channel Proteins” *Proceedings of MicroTAS*, 76-78 (2011): *MicroTAS 2011*, Seattle, Oct. 2-6, 2011.
3. Yutaro Tsuji, Ryuji Kawano, Toshihisa Osaki, Hirotaka Sasaki, Koki Kamiya, Norihisa Miki, *Shoji Takeuchi “Parallel Recognition of Single-strand DNA using a Biological Nanopore Array” *Proceedings of MicroTAS*, 1284-1286 (2011): *MicroTAS 2011*, Seattle, Oct. 2-6, 2011.
4. Yutaro Tsuji, Ryuji Kawano, Toshihisa Osaki, Hirotaka Sasaki, Koki Kamiya, Norihisa Miki, *Shoji Takeuchi “Solution Exchange of Droplet Contacting Lipid Bilayer System” *Proceedings of IEEE MEMS*, 882-885 (2012): *IEEEMEMS2012*, Jan. 29- Feb. 2, 2012.

研究代表者：佐藤 浩太郎

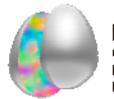
1. Masaru Matsuda, Kotaro Satoh, and *Masami Kamigaito, “Controlled Radical Copolymerization of Naturally-Ocurring Terpenes with Acrylic Monomers in Fluorinated Alcohol”, *KGK, Kautsch. Gummi Kunstst.*, in press.
2. Hiroshi Aoshima, Kotaro Satoh, and *Masami Kamigaito, “In-Situ Direct Mechanistic Transformation from FeCl₃-Catalyzed Living Cationic to Radical Polymerizations”, *Macromol. Symp.*, in press.
3. Kotaro Satoh, Justin E. Poelma, Luis M. Campos, Brian Stahl, and *Craig J. Hawker, “A Facile Synthesis of Clickable and Acid-Cleavable PEO for Acid-Degradable Block Copolymers”, *Polymer Chemistry*, **3**, 1890-1898 (2012). [Top Ten most-read]

2012年6月20日

- Polymer Chemistry articles in November and December 2011]
4. Kenji Ishitake, Kotaro Satoh, *Masami Kamigaito, and Yoshio Okamoto, "From-Syndiotactic-to-Isotactic Stereogradient Methacrylic Polymers by RAFT Copolymerization of Methacrylic Acid and Its Bulky Esters", *Polymer Chemistry*, **3**, 1750-1757 (2012). [Cover Art]
 5. Kotaro Satoh, Tomohiro Abe, and *Masami Kamigaito, "Metal-Catalyzed Step-Growth Radical Polymerization of AA and BB Monomers for Monomer Sequence Regulation", *ACS Symposium Series*, **1100**, 133-144 (2012).
 6. Atsuhiro Nakahara, Kotaro Satoh, H. Saito, and *Masami Kamigaito, "Intramolecular Friedel-Crafts Cyclization and Subsequent Hydrogenation of Styrene-Isoprene Random Copolymers Prepared by Anionic Polymerization for Thermally-Resistant and Optical Applications", *Journal of Polymer Science, Part A: Polymer Chemistry*, **50**, 1298-1307 (2012).
 7. Atsuhiro Nakahara, Kotaro Satoh, H. Saito, and *Masami Kamigaito, "Random Copolymer of Styrene and Diene Derivatives via Anionic Living Polymerization Followed by Intramolecular Friedel-Crafts Cyclization for High-Performance Thermoplastics", *Polymer Chemistry*, **3**, 190-197 (2012).
 8. Cedric Dutriez, Kotaro Satoh, Masami Kamigaito, and *Hideaki Yokoyama, "Nanocellular foaming of fluorine containing block copolymers in carbon dioxide: the role of glass transition in carbon dioxide", *RSC Advances*, **2**, 2821–2827 (2012).
 9. Kenji Ishitake, Kotaro Satoh, *Masami Kamigaito, and Yoshio Okamoto, "Stereospecific Free Radical and RAFT Polymerization of Bulky Silyl Methacrylates for Stereo- and Molecular Weight-Controlled Poly(methacrylic Acid)", *Macromolecules*, **44**, 9108-9117 (2011). [Cover Art]
 10. Masato Mizutani, Kotaro Satoh, and *Masami Kamigaito, "Degradable Poly(*N*-isopropylacrylamide) with Tunable Thermosensitivity by Simultaneous Chain- and Step-Growth Radical Polymerization", *Macromolecules*, **44**, 2382-2386 (2011).
 11. †Arihiro Kanazawa, Kotaro Satoh, and *Masami Kamigaito, "Iron Oxides as Heterogeneous Catalysts for Controlled/Living Radical Polymerization of Styrene and Methyl Methacrylate", *Macromolecules*, **44**, 1927-1933 (2011).
- †A02班 連携研究者（現：青島研究室）

研究代表者：中嶋 琢也

1. Yu Hayakawa, Yoshiyuki Nonoguchi, Hui-Ping Wu, Eric W.-G. Diau, *Takuya Nakashima, and *Tsuyoshi Kawai, "Rapid preparation of highly luminescent CdTe



2012年6月20日

- nanocrystals in an ionic liquid via a microwave-assisted process”, *J. Mater. Chem.*, **21**, 8849-8853 (2011).
2. Soo-Hwan Jeong, JungWoo Lee, Dengteng Ge, Kai Sun, Takuya Nakashima, Seong-Il Yoo, Ashish Agarwal, Yao Li, and *Nicholas A. Kotov, “Reversible nanoparticle gels with colour switching”, *J. Mater. Chem.*, **21**, 11639-11643 (2011).
 3. *Yoshiyuki Nonoguchi, Takuya Nakashima, Atsushi Tanaka, Keiko Miyabayashi, Mikio Miyake, and *Tsuyoshi Kawai, “Oligomerization of Cadmium Chalcogenide Nanocrystals into CdTe-Containing Superlattice Chains”, *Chem. Commun.*, **47**, 11270-11272 (2011).
 4. *Takuya Nakashima, Hiroki Nakao, Atsushi Tanaka, Yasuchika Hasegawa, and Tsuyoshi Kawai, “Synthesis of PbS/EuS core/shell nanocrystals”, *Chem. Lett.*, **41**, 412-414 (2012).
 5. Takuya Nakashima and *Nobuo Kimizuka, “Controlled Self-Assembly of Amphiphiles in Ionic Liquids and Formation of Ionogels by Molecular Tuning of Cohesive Energies”, *Polymer J.*, **44**, 665-671 (2012).

研究代表者：大矢 裕一

1. *Yuichi Ohya, Sinya Takeda, Yosuke Shibata, Tatsuro Ouchi, Arihiro Kano, Tomiki Iwata, Shinichi Mochizuki, Yuki Taniwaki, and Atsushi Maruyama, “Evaluation of Polyanion-Coated Biodegradable Polymeric Micelles as Drug Delivery Vehicles”, *J. Contr. Rel.*, **155**(1), 104-110 (2011).
2. Yuichi Ohya, Nozomi Miyoshi, Mirai Hashizume, Takuya Tamaki, Takeaki Uehara, Shoso Shingubara, and Akinori Kuzuya, “Formation of 1D and 2D Gold Nanoparticle Arrays by Divalent DNA-Gold Nanoparticle Conjugates”, *Small, in press*. DOI: 10.1002/smll.201200092
3. Koji Nagahama, Keiko Shimizu, Shunsuke Ichimura, Akihiro Takahashi, Tatsuro Ouchi, and *Yuichi Ohya, “Biodegradable Stereocomplex Materials of Polylactide-Grafted Dextrans Exhibiting Soft and Tough Properties in Dry and Wet States”, *Journal of Polymer Science Part A Polymer Chemistry*, **50**, 2669-2676 (2012).

研究代表者：石川 邦夫

1. Michito Maruta, Shigeki Matsuya, Seiji Nakamura, Kunio Ishikawa, “Fabrication of low-crystalline carbonate apatite foam bone replacement based on phase transformation of calcite foam”, *Dental Materials Journal*, **30**(1), 14-20 (2011).
2. Shingo. Shibata, Toshiyuki Suge, Kunio Ishikawa, Takashi Matsuo, “Occlusion of

2012年6月20日

dentin tubules with antibacterial ammonium hexafluorosilicate solution for the prevention of dentin caries”, *American Journal of Dentistry*, **24**, 148-152 (2011).

3. Takamitsu Mano, Kunio Ishikawa, Koji Harada, Hirotugu Umeda, Yoshiya Ueyama, “Comparison of apatite-coated titanium prepared by blast coating and flame spray methods -Evaluation using simulated body fluid and initial histological study-”, *Dental Materials Journal*, **30**(4), 431-437 (2011).
4. Alireza Valanezahad, Kunio Ishikawa, Kanji Tsuru, Michito Maruta, Shigeki Matsuya, “Hydrothermal calcium modification of 316L stainless steel and its apatite forming ability in simulated body fluid”, *Dental Materials Journal*, **30**(5), 749–753 (2011).
5. Le Thi Bang, Kunio Ishikawa, Radzali Othman, “Effect of silicon and heat-treatment temperature on the morphology and mechanical properties of silicon-substituted hydroxyapatite”, *Ceramics International*, **37**(8), 3637-3642 (2011).

プロシーディングス：

1. Girlie M. Munar, * Melvin L. Munar, Kanji Tsuru, Shigeki Matsuya, Kunio Ishikawa, “FABRICATION OF CARBONATE APATITE-PLGA HYBRID FOAM BONE SUBSTITUTE”, *Proc 36th Int Conf & Exp Adv Ceram & Comp*, in press, Florida, USA, Jan 22-27, 2012.

研究代表者：宮崎 敏樹

1. *Toshiki Miyazaki, Akira Miyaoka, Eiichi Ishida, Zhixia Li, Masakazu Kawashita, Masahiro Hiraoka, “Preparation of Ferromagnetic Microcapsules for Hyperthermia Using Water/oil Emulsion as a Reaction Field”, *Mater. Sci. Eng.: C*, **32**, 692-696 (2012).
2. *Il Yong Kim, Ryota Iwatsuki, Koichi Kikuta, Yumi Morita, Toshiki Miyazaki and †Chikara Ohtsuki, “Thermoreversible Behavior of κ-Carrageenan and Its Apatite-forming Ability in Simulated Body Fluid”, *Mater. Sci. Eng.: C*, **31**, 1472-1476 (2011). †A02班研究代表者, A02との共同研究
3. *Masakazu Kawashita, Naoko Matsui, Zhixia Li and Toshiki Miyazaki and Hiroyasu Kanetaka, “Preparation, Structure, and in vitro Chemical Durability of Yttrium Phosphate Microspheres for Intra-arterial Radiotherapy”, *J. Biomed. Mater. Res. B Appl. Biomater.*, **99**, 45-50 (2011).
4. Kenko Tanaka, *Tetsuya Goto, Toshiki Miyazaki, Yumi Morita, Shigeru Kobayashi and Tetsu Takahashi “Apatite-coated Hyaluronan for Bone Regeneration”, *J. Dent. Res.*, **90**, 906-911 (2011).

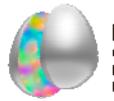
プロシーディングス：

1. *Toshiki Miyazaki, Satoshi Machida, Yumi Morita and Eiichi Ishida, “Design of Bioactive Organic-inorganic Hybrid Materials with Self-setting Ability”, *IOP*

2012年6月20日

Confence Series: Materials Science and Engineering, 18, 192006 (2011): 3rd International Conference on Ceramics, Osaka, November 14-18, 2010.

2. *Mi-Young Koh, Yorita Morita, Toshiki Miyazaki and †Chikara Ohtsuki, “In vitro Apatite-forming Ability of Hydrogels Derived from Sodium Carboxymethylcellulose”, *IOP Confence Series: Materials Science and Engineering*, 18, 192004 (2011): 3rd International Conference on Ceramics, Osaka, November 14-18, 2010. †A02班研究代表者, A02との共同研究
3. *Masakazu Kawashita, Naoko Matsui, Zhixia Li and Toshiki Miyazaki, “Novel Synthesis of Yttrium Phosphate Microspheres for Radioembolization of Cancer”, *IOP Confence Series: Materials Science and Engineering*, 18, 192003 (2011): 3rd International Conference on Ceramics, Osaka, November 14-18, 2010.



2011 <A02班>

【総説・解説】リスト

研究代表者：青島 貞人、連携研究者：金岡 鐘局、金澤 有紘

1. 金岡鐘局, *青島貞人, リビングカチオン重合 3., 日本ゴム協会誌, **84**, 287-293 (2011). (査読付き)
2. Hiroaki Shimomoto, Shokyoku Kanaoka, and Sadahito Aoshima, "Novel Well-Defined Fluorine-Containing Polymers via Living Cationic Polymerization"高分子 (Hot Topics), **60**, 795 (2011). (査読なし)

研究代表者：大槻 主税、連携研究者：金 日龍

1. *大槻主税, 横井太史, "生体活性セラミックスの新展開", セラミックス, **46**, 314-319 (2011). (査読無)
2. *†加藤隆史, 大槻主税, "融合マテリアル：分子制御による材料創成と機能開拓", 未来材料, **12** [3], 49-53 (2012). (査読無) †A01班 研究代表者, A01との共同執筆

研究代表者：新垣 篤史

1. †坂本健, 新垣篤史, ††清水克彦, †西村達也, †††*加藤隆史, "有機分子の制御による異方的結晶成長と無機／有機ハイブリッド構造の形成", セラミックス, **47**, 285-290 (2012). (査読無)
†A01班 連携研究者(東京大学), ††A01班 研究代表者(鳥取大学), †††A01班 研究代表者(東京大学), A01との共同執筆

研究代表者：関野 徹

1. *関野徹, 朴動鎮, 金長烈, 田中俊一郎, "酸化物ナノチューブの構造修飾による機能化", マテリアルインテグレーション, **25**, 17-24(2012). (査読無)
2. *田中俊一郎, 関野徹, 佃諭志, "励起反応場の高次制御に基づく多様なナノ機能材料の創成", マテリアルインテグレーション, **24**, 86-91(2011). (査読無)

研究代表者：奥村 剛

1. *奥村剛, "印象派物理学で描きだす身边に潜むシンプルな物理: しづく、あわ、真珠、クモの巣を題材として", 物性研究, **97**, 927 (2012). (依頼原稿、査読無)
2. *奥村剛, "表面・界面の印象派物理学: スーパー理系女子たちが開きつつある

2012年6月20日

新しい物理学の地平”, 応用物理学会 有機分子・バイオエレクトロニクス分科会 会誌, **22**, 153 (2012). (依頼原稿、査読無)

研究代表者：佐藤 浩太郎

1. 佐藤浩太郎, 水谷将人, 上垣外正己, "遷移金属触媒による逐次ラジカル重合", 高分子論文集, **68**, 436-456 (2011). (査読有)

研究代表者：大矢 裕一

1. *Yuichi Ohya, Akihiro Takahashi, and Koji Nagahama, “Biodegradable Polymeric Assemblies for Biomedical Materials”, *Adv. Polym. Sci.*, **247**, 65-114 (2012). (招待論文) (査読有)
2. *Akinori Kuzuya, and *Yuichi Ohya, “DNA Nanostructures as Scaffolds for Metal Nanoparticles”, *Polym. J.*, in press. [Selected as Cover Picture] (招待論文) (月間ダウンロード数第二位(5月)) (査読有)
3. *大矢裕一, “ドラッグデリバリーを指向した生分解性ナノ粒子の調製”, 化学工業, **62**(7) 571-578 (2011). (査読無)

研究代表者：宮崎 敏樹

1. *宮崎敏樹, “学会印象記–Larry L. Hench 先生特別講演会”, バイオマテリアル-生体材料-, **29**, 207-208 (2011). (査読無)
2. *宮崎敏樹, “傾斜機能材料を利用したバイオマテリアルの設計”, 傾斜機能材料論文集, **25**, 122-127 (2011). (査読有)

2012年6月20日

1. 2011 <A02班>

【著書】(分担執筆含む)リスト

研究代表者：青島 貞人、連携研究者：金岡 鐘局、金澤 有紘

1. Shokyoku Kanaoka and Sadahito Aoshima, “Cationic Polymerization of Polar Monomers”, *Comprehensive Polymer Science*, 2nd Ed., M. Moeller and K. Matyjaszewski, Eds., Elsevier, in press. (査読有)

研究代表者：大槻 主税、連携研究者：金 日龍

1. Masakazu Kawashita, †Toshiki Miyazaki and Chikara Ohtsuki, “Chapter 24. Biointegration of Prosthetic Devices”, *Ceramic Integration and Joining Technologies, From Macro to Nanoscale*, Ed. by Mrityunjay Singh, Tatsuki Ohji, Rajiv Asthana, Sanjay Mathur, pp. 777-802, John Wiley & Sons, Inc., Publication, (2011). †A02班
研究代表者（分担執筆）

研究代表者：関野 徹

1. “Prof. of the 4th International Symposium on Functional Materials (ISFM2011)”, *Journal of Physics: Conference Series*, 339(1), Eds./ Shu Yin, Tohru Sekino, Shun-ichiro Tanaka, Tsugio Sato, Li Lu and Dongfeng Xue, IOP Publishing (January 2012).
2. 関野徹, “TiO₂ ナノチューブ”, 触媒調製ハンドブック, 監修/岩本正和, pp.440-441, エヌ・ティー・エス (2011). (分担執筆)

研究代表者：佐藤 浩太郎

1. Kotaro Satoh and Masami Kamigaito, “New Polymerization Methods for Bio-Based Polymers from Renewable Vinyl Monomers,” In “Bio-Based Polymers”, Y. Kimura, ed., CMC, Japan, in press.
2. Kotaro Satoh, Masami Kamigaito, and Mitsuo Sawamoto, “Transition Metal Complexes for Metal-Catalyzed Atom Transfer Controlled/Living Radical Polymerization”, In “Polymer Science: A Comprehensive Reference”, M. Moeller and K. Matyjaszewski, eds, Elsevier, vol. 3, pp. 429–461, 2012. (分担執筆)

研究代表者：中嶋 琢也

1. Nobuo Kimizuka and Takuya Nakashima, “Chapter 11: Molecular Self-Assembly in

2012年6月20日

Ionic Liquids", in Electrochemical Aspects of Ionic Liquids edited by Prof. H. Ohno (2nd, Ed.), Wiley-VCH, Weinheim, (May, 2011).

研究代表者：大矢 裕一

1. 大矢裕一, “生体吸収性および非吸収性高分子”, ものづくりからみる再生医療-細胞研究・創薬・治療, 監修/田畠泰彦, pp. 67-77, シーエムシー出版 (2011). (分担執筆)
2. 大矢裕一, “生分解性インジェクタブルポリマー”, 医療を支える先端バイオマテリアル, 監修/秋吉一成, 石原一彦, 山岡哲二監修, エヌティーエス, 印刷中(2012). (分担執筆)

研究代表者：宮崎 敏樹

1. 宮崎敏樹, “焼かずに作るエコフィッティングセラミックス”, 九工大世界トップ技術 Vol. 3, 国立大学法人九州工業大学編, pp. 90-97. 西日本新聞社 (2012). (分担執筆)