

CURRICULUM VITAE

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Education Background

- 2006-2009 Ph.D., Nagoya Institute of Technology, Materials Science and Engineering
“Morphology- and Assembly-Controlled Gold Nanoparticles and Their Optoelectronic Properties”
- 2004-2006 M.S., Nagoya Institute of Technology, Materials Science and Engineering
“Synthesis of High-Concentration-Europium-Doped Glasses for Their Optical Applications (in Japanese)”
- 2000-2004 B.S., Nagoya Institute of Technology, Materials Science and Engineering
“Redox Behavior of Sm³⁺ Ions by X-ray and Femtosecond Laser Irradiation and Influence of the Glass Matrix Composition (in Japanese)”

Employment Record

- 2013-2014* Visiting Professor, Duke University, Department of Chemistry
- 2010- Assistant Professor, Toyohashi University of Technology, Department of Electrical and Electronic Information Engineering
- 2009-2010 Assistant Professor, Toyohashi University of Technology, Department of Materials Science

*Concurrent post

Awards and Prizes (10)

1. **Dr. Donald Ulrich Award**, International sol-gel society, Sep. 10th, 2015
2. **Best Poster Award**, 5th International Conference on Recent Advances in Materials, Minerals & Environment (RAMM), Local Organizing Committee of the RAMM & Universiti Sains Malaysia, Aug. 6th, 2015
3. **Best Poster Award**, 12th Japanese Sol-Gel Society Symposium, The Japanese Sol-Gel Society, Aug. 8th, 2014.
4. **Prize for Encouragement of International Exchange**, The Ceramic Society of Japan, Jun. 7th, 2013.
5. **Excellent Poster Award**, 8th Asian Meeting on Electroceramics (AMEC-8), Local Organizing Committee of the AMEC-8 & Universiti Sains Malaysia, Jul. 3rd, 2012.
6. **Poster Presentation Award**, The 50th Anniversary Symposium on Basic Science of Ceramics, The Ceramic Society of Japan, Jan. 13th, 2012.
7. **Good Poster Presentation Award**, Annual Meeting of The Ceramic Society of Japan 2010, The Ceramic Society of Japan, Jun. 4th, 2010.
8. **Good Presentation Award**, World Young Fellow Meeting 2010, The Ceramic Society of Japan, Mar. 1st, 2010.
9. **Wakashachi Prize for Encouragement**, Aichi Prefecture, Feb. 16th, 2009.
10. **CSJ Student Presentation Award 2008**, The Chemical Society of Japan, May 8th, 2008.

Grants (14)

1. **Research Grant**, Foundation of Public Interest, Tatematsu Foundation, Aug. 2014 – Mar. 2015.
2. **Research Grant**, Nippon Sheet Glass Foundation for Materials Science and Engineering, May 2014 – Mar. 2015.
3. **Research Grant**, The Murata Science Foundation, Jun. 2012 – Mar. 2013.
4. **Collaboration Research Grant**, Network Joint Research Center for Advanced Materials and Devices, Apr. 2012 – Mar. 2013.
5. **Research Grant**, Tokai Foundation for Technology, Apr. 2012 – Mar. 2013.
6. **Research Grant**, The Ogasawara Foundation for the Promotion of Science & Engineering, Jan. 2012 – Dec. 2012.
7. **Adaptable and Seamless Technology Transfer Program through Target-driven R&D**, Japan Science and Technology Agency, Dec. 2011 – Jul. 2012.
8. **Research Activation Grant**, Toyohashi University of Technology, Jun. 2011 – Mar. 2012.
9. **Research Grant**, Izumi Science and Technology Foundation, Nov. 2010 – Oct. 2011.
10. **Grant for Travel Expense**, The Murata Science Foundation, Jun. 2010.
11. **Grant-in-Aid for Young Scientists (B) 22760539**, Japan Society for the Promotion of Science (JSPS), Apr 2010 – Mar 2013.

12. *Project Research Grant for Young Researcher*, Research Center for Future Technology in Toyohashi University of Technology, Sep 2009 – Mar 2012.
13. *Grant-in-Aid for Young Scientists (Start-up) 21860045*, Japan Society for the Promotion of Science (JSPS), Aug 2009 – Mar 2010.
14. *Research Activation Grant*, Toyohashi University of Technology, Jun 2009 - Mar 2010.

Invited Talks (11, including 6 international conferences)

1. **Go Kawamura**, “Deposition of Morphology-Controlled Noble Metal Nanoparticles Using Metal Oxide Templates with Ordered Mesopores,” International Conference on Spectroscopy & Materials Science (ICS&M-2015), Duy Tan University, Da Nang, Viet Nam (2015,11,17-19).
2. **Go Kawamura**, “Nanocomposite of Metal Nanoparticles and Metal Oxides Prepared through Liquid-Phase Synthesis,” XVIII International Sol-Gel Conference (Sol-Gel 2015), Mielparque and Hotel Granvia Kyoto, Kyoto, Japan (2015.9.6-11).
3. **Go Kawamura**, Okuno Teruhisa, Hiroyuki Muto, Atsunori Matsuda, “Photocatalytic Performance of Gold-Deposited Mesoporous Silica-Titania under UV and Visible Light Illumination,” International Symposium for Advanced Materials Research (ISAMR2015), Sun Moon Lake, Taiwan (2015.8.16-20).
4. **Go Kawamura**, Hiroyuki Muto, Atsunori Matsuda, “Noble Metal Nanoparticle-Deposited Mesoporous Oxides for Photocatalysts and Photovoltaics,” 4th International Symposium on Ceramics Nanotune Technology (ISCeNT4), Nagoya Institute of Technology, Nagoya, Japan (2015.3.2-4).
5. **Go Kawamura**, Hiroyuki Muto, Atsunori Matsuda, “Ag Nanoparticle Deposition on TiO₂ Nanostructures for Efficient Photoelectric Conversion,” The Energy, Materials, and Nanotechnology (EMN) Ceramics Meeting 2015, Double Tree by Hilton Orlando at SeaWorld, Orlando, FL, USA (2015.1.26-29).
6. **Go Kawamura**, “Hybrid Materials Composed of Mesoporous Oxides and Metal Nanoparticles, and the Light Energy Conversion,” The Ceramic Society of Japan The 27th Fall Meeting, Kagoshima University, Korimoto, Japan (in Japanese, 2014.9.9-11).
7. **Go Kawamura**, “Deposition of Metal Nanoparticles onto Oxides with Tubular Mesopores and the Functionality of the Composite,” 2014 annual meeting of Ceramic Society of Japan, 2nd symposium on chemical field, Keio University, Kanagawa, Japan (in Japanese, 2014.3.17-19).
8. **Go Kawamura**, “Synthesis of Shape-Controlled Noble Metal Nanoparticles Using Soft and Hard Templates,” 2nd symposium on novel functional particles prepared using high-level accumulation technique of nanomaterials and fabrication of innovative composite materials, Nagoya innovation hub, Aichi, Japan (in Japanese, 2012.10.19).
9. **Go Kawamura**, “Synthesis of Metal Nanoparticles and the Composites with Amorphous Matrices,” Summer young seminar of glass division, Kyoto Seminar House, Kyoto, Japan (in Japanese, 2012.8.1-3).
10. **Go Kawamura**, “Liquid Phase Synthesis of Morphology-Controlled Metal Nanoparticles and Their Assemblies,” Lecture meeting, University Sains Malaysia. Penang, Malaysia (2012.3.12-14).
11. **Go Kawamura**, “SPR and SERS Properties of Metal Nanoparticles Prepared by Liquid Phase Synthesis,”

Symposium on high level control of high speed nonlinear optical glasses for all-optical information transfer and processing, Nagoya Institute of Technology, Aichi, Japan (in Japanese, 2010.10.29).

Publications (78, including 24 first-author papers)

1. **Go Kawamura**, Keisuke Ikeda, Takuya Ito, Hiroyuki Muto, Pang Boey Lim, Mitsuteru Inoue, and Atsunori Matsuda, "Reversible change of diffraction efficiency in Cl-containing 3-glycidoxypropyl silsesquioxane films co-doped with Ag and Cu," *Journal of Ceramic Society of Japan*, accepted.
2. **Go Kawamura**, Samuel Alvarez, Ian E. Stewart, Matthew Catenacci, Zuofeng Chen, and Yoon-Cheol Ha, "Production of oxidation-resistant Cu-based nanoparticles by wire explosion," *Scientific Reports*, accepted.
3. **Go Kawamura**, "Ag-doped inorganic-organic hybrid films for rewritable hologram memory application," *Journal of Sol-Gel Science and Technology*, accepted.
4. Reda E. El-Shater, Mohamed M. Abdel-Galeil, **Go Kawamura**, and Atsunori Matsuda, "Spacer thickness-dependent electron transport performance of titanium dioxide thick film for dye-sensitized solar cells," *Journal of Nanomaterials*, **2015**, 680201_1-9 (2015).
5. **Go Kawamura** and Atsunori Matsuda, "Titania-based functional nanocomposite materials fabricated by liquid processes," *Journal of the Ceramic Society of Japan*, **123**[7], 517-522 (2015).
6. **Go Kawamura**, Hayato Ohmi, Wai Kian Tan, Zainovia Lockman, Hiroyuki Muto, and Atsunori Matsuda, "Ag nanoparticle deposited TiO₂ nanotube arrays for electrodes of dye-sensitized solar cells," *Nanoscale Research Letters*, **10**, 219_1-6 (2015).
7. Teruhisa Okuno, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Three modes of high-efficient photocatalysis using composites of TiO₂-nanocrystallite-containing mesoporous SiO₂ and Au nanoparticles," *Journal of Sol-Gel Science and Technology*, **74**, 748-755 (2015).
8. Wai Kian Tan, **Go Kawamura**, Hiroyuki Muto, Khairunisak Abdul Razak, Zainovia Lockman, and Atsunori Matsuda, "Blue-Emitting Photoluminescence of Rod-Like and Needle-Like ZnO Nanostructures Formed by Hot-Water Treatment of Sol-Gel Derived Coatings," *Journal of Luminescence*, **158**, 44-49 (2015).
9. Monna Rozana, Khairunisak Abdul Razak, **Go Kawamura**, Atsunori Matsuda, and Zainovia Lockman, "Formation of Aligned Iron Oxide Nanopores as Cr Adsorbent Material," *Advanced Materials Research*, **1087**, 460-464 (2015).
10. **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Hard Template Synthesis of Metal Nanowires," *Frontiers in Chemistry*, **2**, 104_1-4 (2014).
11. Monna Rozana, Mustaffa Ali Azhar, Dede Miftahul Anwar, **Go Kawamura**, Khairunisak Abdul Razak, Atsunori Matsuda, and Zainovia Lockman, "Effect of Applied Voltage on the Formation of Self-organized Iron Oxide Nanoporous Film in Organic Electrolyte via Anodic Oxidation Process and their Photocurrent Performance," *Advanced Materials Research*, **1024**, 99-103 (2014).

12. Syahriza Ismail, Monna Rozana, Dede Miftahul Anwar, **Go Kawamura**, Atsunori Matsuda, and Zainovia Lockman, "Electrolyte Influence on the Morphologies of Anodic ZrO₂ Nanotube Arrays Formed by Anodization," *Advanced Materials Research*, **1024**, 104-107 (2014).
13. Xing Wei, Iki Mogami, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "A Wettability Tunable Surface of Nafion® with Controlling the Flip-Flop Property by DC Applied Voltage," *Key Engineering Materials*, **616**, 77-81 (2014).
14. Taku Tsuneishi, Takuma Esaki, Hisatoshi Sakamoto, Kazushi Hayashi, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Iron Composite Anodes for Fabricating All-Solid-State Iron–Air Rechargeable Batteries," *Key Engineering Materials*, **616**, 114-119 (2014).
15. Shota Azuma, **Go Kawamura**, Hiroyuki Muto, Noriyoshi Kakuta, and Atsunori Matsuda, "Preparation of layered double hydroxide and its graphene composite films as electrodes for photoelectrochemical cells," *Key Engineering Materials*, **616**, 129-133 (2014).
16. Adrian Ashari, Darren J. LeClere, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Study of Branched TiO₂ Nanotubes and Their Application to Dye Sensitized Solar Cells," *Journal of Ceramic Society of Japan*, **122**, 1-3 (2014).
17. Taku Tsuneishi, Hisatoshi Sakamoto, Kazushi Hayashi, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Preparation of Hydroxide Ion Conductive KOH-Layered Double Hydroxide Electrolytes for an All-Solid-State Iron-Air Secondary Battery," *Journal of Asian Ceramic Society*, **2**[2], 165-168 (2014).
18. **Go Kawamura**, Tomoyuki Ema, Hisatoshi Sakamoto, Xing Wei, Hiroyuki Muto, and Atsunori Matsuda, "Spontaneous Changes in Contact Angle of Water and Oil on Novel Flip-Flop-Type Hydrophobic Multilayer Coatings," *Applied Surface Science*, **298**, 142-146 (2014).
19. Wai Kian Tan, Leow Cheah Li, Khairunisak Abdul Razak, **Go Kawamura**, Hiroyuki Muto, Atsunori Matsuda, and Zainovia Lockman, "Formation of Two-Dimensional ZnO Nanosheets by Rapid Thermal Oxidation in Oxygenated Environment," *Journal of Nanoscience and Nanotechnology*, **14**[4], 2960-2967 (2014).
20. **Go Kawamura**, Teruhisa Okuno, Hiroyuki Muto, and Atsunori Matsuda, "Visible-Light-Induced Photocatalysis of 2D-Hexagonal Mesoporous SiO₂-TiO₂ Deposited with Au Nanoparticles," *Journal of Nanoscience and Nanotechnology*, **14**[3], 2225-2230 (2014).
21. Wai Kian Tan, Khairunisak Abdul Razak, Zainovia Lockman, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Synthesis of ZnO Nanorod-Nanosheet Composite via Facile Hydrothermal Method and Their Photocatalytic Activities under Visible-Light Irradiation," *Journal of Solid State Chemistry*, **211**, 146-153 (2014).
22. Jun-ichi Hamagami, Ryo Araki, Shohei Onimaru, **Go Kawamura**, and Atsunori Matsuda, "Influence of Catalyst Loading Method on Titania-Based Optical Hydrogen Gas Sensing Properties," *Key Engineering Materials*, **582**, 210-213 (2014).
23. Nguyen H. H. Phuc, Teruhisa Okuno, Norio Hakiri, **Go Kawamura**, Atsunori Matsuda, Hiroyuki Muto, "Synthesis of High-Edge Exposure MoS₂ Nano Flakes," *Journal of Nanoparticle Research*, **16**[1], 2199 (2014).

24. Teruhisa Okuno, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Fabrication of Shape-Controlled Au Nanoparticles in a TiO₂-Containing Mesoporous Template using UV Irradiation and Their Shape-Dependent Photocatalysis," *Journal of Materials Science and Technology*, **30**[1], 8-12 (2014).
25. Wai Kian Tan, Khairunisak Abdul Razak, Zainovia Lockman, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Enhanced Dye-Sensitized Solar Cells Performance of ZnO Nanorod Arrays Grown by Low-Temperature Hydrothermal Reaction," *International Journal of Energy Research*, **37**, 1992-2000 (2013).
26. Song-Yul Oh, Takuya Kikuchi, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Proton Conductive Composite Electrolytes in the KH₂PO₄-H₃PW₁₂O₄₀ System for H₂/O₂ Fuel Cell Operation," *Applied Energy*, **112**, 1108-1114 (2013).
27. Wai Kian Tan, Khairunisak Abdul Razak, Zainovia Lockman, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Photoluminescence Properties of Rod-Like Ce-Doped ZnO Nanostructured Films Formed by Hot-Water Treatment of Sol-Gel Derived Coating," *Optical Materials*, **35**[11], 1902-1907 (2013).
28. **Go Kawamura**, Ryota Yoshimura, Kazunari Ota, Song-Yul Oh, Hiroyuki Muto, Tomokatsu Hayakawa, and Atsunori Matsuda, "Extraction of Nd³⁺-doped LiYF₄ phosphor from sol-gel-derived oxyfluoride glass ceramics by hydrofluoric acid treatment," *Optical Materials*, **35**[11], 1879-1881 (2013).
29. Jun-ichi Hamagami, Shohei Onimaru, Ryo Araki, **Go Kawamura**, and Atsunori Matsuda, "Low-Temperature Processing and Optical Hydrogen Gas Sensing Property of Pd-Loaded Titania Coating onto Flexible Plastic Substrate," *Key Engineering Materials*, **566**, 249-252 (2013).
30. Wai Kian Tan, Khairunisak Abdul Razak, Zainovia Lockman, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Optical Properties of Two-Dimensional ZnO Nanosheets Formed by Hot-Water Treatment of Zn Foils," *Solid State Communications*, **162**, 43-47 (2013).
31. Mun Teng Soo, **Go Kawamura**, Hiroyuki Muto, Atsunori Matsuda, Zainovia Lockman, and Kuan Yew Cheong, "Fabrication of Well-Crystallized Mesoporous ZrO₂ Thin Films via Pluronic P123 Templated Sol-Gel Route," *Ceramics Internationals*, **39**[1], S437-S440 (2013).
32. Atsunori Matsuda, Hisatoshi Sakamoto, Mohd Arif Bin Mohd Nor, **Go Kawamura**, and Hiroyuki Muto, "Characterization and Film Properties of Electrophoretically Deposited Nanosheets of Anionic Titanate and Cationic MgAl-Layered Double Hydroxide," *Journal of Physical Chemistry B*, **117**[6], 1724-1730 (2013).
33. **Go Kawamura**, Ryota Yoshimura, Kazunari Ota, Song-Yul Oh, Norio Hakiri, Hiroyuki Muto, Tomokatsu Hayakawa, and Atsunori Matsuda, "A Unique Approach to Characterization of Sol-Gel-Derived Rare-Earth-Doped Oxyfluoride Glass Ceramics," *Journal of the American Ceramic Society*, **96**[2], 476-480 (2013).
34. **Go Kawamura**, Masayuki Nogami, and Atsunori Matsuda, "Shape-Controlled Metal Nanoparticles and their Assemblies with Optical Functionalities," *Journal of Nanomaterials*, **2013**, 631350_1-17 (2013).

35. Warapong Krengvirat, Srimala Sreekantan, Ahmad-Fauzi Mohd Noor, Nobuaki Negishi, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Low-Temperature Crystallization of TiO₂ Nanotube Arrays via Hot Water Treatment and Their Photocatalytic Properties under Visible-Light Irradiation," *Materials Chemistry and Physics*, **137**[3], 991-998 (2013).
36. Warapong Krengvirat, Srimala Sreekantan, Ahmad-Fauzi Mohd Noor, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Single-Step Growth of Carbon and Potassium-Embedded TiO₂ Nanotube Arrays for Efficient Photoelectrochemical Hydrogen Generation," *Electrochimica Acta*, **89**, 585-593 (2013).
37. Mun Teng Soo, **Go Kawamura**, Hiroyuki Muto, Atsunori Matsuda, Zainovia Lockman, and Kuan Yew Cheong, "Design of Hierarchically Meso-Macroporous Tetragonal ZrO₂ Thin Films with Tunable Thickness by Spin-Coating via Sol-Gel Template Route," *Microporous and Mesoporous Materials*, **167**, 198-206 (2013).
38. Wai Kian Tan, Khairunisak Abdul Razak, Zainovia Lockman, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Formation of Highly Crystallized ZnO Nanostructures by Hot-Water Treatment of Etched Zn Foils," *Materials Letters*, **91**, 111-114 (2013).
39. Song-Yul Oh, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Mechanochemical Synthesis of Proton Conductive Composites Derived from Cesium Dihydrogen Phosphate and Guanine," *Solid State Ionics*, **225**, 223-227 (2012).
40. Song-Yul Oh, Keisuke Kawai, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Characterization of Mechanochemically Synthesized MHSO₄-H₄SiW₁₂O₄₀ Composites (M = K, NH₄, Cs)," *Materials Research Bulletin*, **47**[10], 2931-2935 (2012).
41. Song-Yul Oh, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Anhydrous Protic Conduction of Mechanochemically Synthesized CsHSO₄-Azole-Derived Composites," *Electrochimica Acta*, **75**, 11-19 (2012).
42. Warapong Krengvirat, Srimala Sreekantan, Ahmad-Fauzi Mohd Noor, Nobuaki Negishi, Song-Yul Oh, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Carbon-Incorporated TiO₂ Photoelectrodes Prepared via Rapid-Anodic Oxidation for Efficient Visible-Light Hydrogen Generation," *International Journal of Hydrogen Energy*, **37**[13], 10046-10056 (2012).
43. Warapong Krengvirat, Srimala Sreekantan, Ahmad-Fauzi Mohd Noor, Charoen Chinwanitcharoen, **Go Kawamura**, and Atsunori Matsuda, "Control of the Structure, Morphology and Dielectric Properties of Bismuth Titanate Ceramics by Praseodymium Substitution Using an Intermediate Fuel Agent-Assisted Self-Combustion Synthesis," *Journal of Materials Science*, **47**[9], 4019-4027 (2012).
44. Zainovia Lockman, Khairunisak Abdul Razak, Tan Kah Huat, Tan Wai Kian, Leow Cheah Li, **Go Kawamura**, and Atsunori Matsuda, "Formation of 1-Dimensional (1D) and 3-Dimensional (3D) ZnO Nanostructures by Oxidation and Chemical Methods," *Materials Science and Engineering Technology*, **43**[5], 457-460 (2012).
45. Mun Teng Soo, Niki Prastomo, Atsunori Matsuda, **Go Kawamura**, Hiroyuki Muto, Ahmad-Fauzi Mohd Noor, Zainovia Lockman, and Kuan Yew Cheong, "Elaboration and Characterization of Sol-Gel Derived ZrO₂ Thin Films Treated With Hot Water," *Applied Surface Science*, **258**[13], 5250-5258 (2012).

46. **Go Kawamura**, Ikuo Hayashi, Hiroyuki Muto, and Atsunori Matsuda, "Anisotropically Assembled Gold Nanoparticles Prepared Using Unidirectionally Aligned Mesochannels of Silica Film," *Scripta Materialia*, **66**[7], 479-482 (2012).
47. **Go Kawamura**, Teruhisa Okuno, Hiroyuki Muto, and Atsunori Matsuda, "Selective Preparation of Zero and One-Dimensional Gold Nanostructures in a TiO₂ Nanocrystal-Containing Photoactive Mesoporous Template," *Nanoscale Research Letters*, **7**[1], 27_1-8 (2012).
48. Hisatoshi Sakamoto, M. Arif M. Nor, N. Hana B. Zakaria, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Low Temperature Fabrication of Titanium Oxide Composite Films by Hot-Water Treatment and Application for Dye-Sensitized Solar Cells," *Electrochemistry*, **79**[10], 1-4 (2011).
49. Atsunori Matsuda, Song-Yul Oh, Van Hai Nguyen, Yusuke Daiko, **Go Kawamura**, and Hiroyuki Muto, "Anhydrous Proton Conductivity of KHSO₄-H₃PW₁₂O₄₀ Composites and the Correlation with Hydrogen Bonding Distance under Ambient Pressure," *Electrochimica Acta*, **56**[25], 9364-9369 (2011).
50. **Go Kawamura**, Mai Murakami, Teruhisa Okuno, Hiroyuki Muto, and Atsunori Matsuda, "Length Control of Ag Nanorods in Mesoporous SiO₂-TiO₂ by Light Irradiation," *RSC Advances*, **1**[4], 584-587 (2011).
51. **Go Kawamura**, Yuuki Tsurumi, Hiroyuki Muto, Mototsugu Sakai, Mitsuteru Inoue, and Atsunori Matsuda, "Reversible Conversion between AgCl and Ag in AgCl-Doped RSiO_{3/2}-TiO₂ Films Prepared by a Sol-Gel Technique," *Materials Chemistry and Physics*, **130**[1-2], 264-269 (2011).
52. Niki Prastomo, Nor Hana bint Zakaria, **Go Kawamura**, Hiroyuki Muto, Mototsugu Sakai, and Atsunori Matsuda, "High Surface Area BaZrO₃ Photocatalyst Prepared by Base-Hot-Water Treatment," *Journal of the European Ceramic Society*, **31**[14], 2699-2705 (2011).
53. Song-Yul Oh, Evan Kamaratul Insani, Van Hai Nguyen, **Go Kawamura**, Hiroyuki Muto, Mototsugu Sakai, and Atsunori Matsuda, "Mechanochemically Synthesized CsH₂PO₄-H₃PW₁₂O₄₀ Composites as Proton Conducting Electrolytes for Fuel Cell Systems in Dry Atmosphere," *Science and Technology of Advanced Materials*, **12**[3], 034402_1-6 (2011).
54. Jun-ichi Hamagami, Ryo Araki, Shohei Onimaru, Hiroyuki Oda, **Go Kawamura**, and Atsunori Matsuda, "Low Temperature Preparation and Optical Hydrogen Response of Pd/Titania Composite Film," *Key Engineering Materials*, **485**, 275-278 (2011).
55. **Go Kawamura**, Yuuki Tsurumi, Hiroyuki Muto, Mitsuteru Inoue, and Atsunori Matsuda, "Sol-Gel Synthesis of Novel Photosensitive Material with Advanced Holographic Properties," *Journal of the Ceramic Society of Japan*, **119**[6], 426-429 (2011).
56. Mun Teng Soo, **Go Kawamura**, Hiroyuki Muto, Kuan Yew Cheong, Zainovia Lockman, Ahmad Fauzi Mohd Noor, and Atsunori Matsuda, "Design and Synthesis of Mesoporous ZrO₂ Thin Films Using Surfactant Pluronic P123 via Sol-Gel Technique," *Journal of the Ceramic Society of Japan*, **119**[6], 517-521 (2011).
57. Yushi Tsutsui, Tomokatsu Hayakawa, **Go Kawamura**, and Masayuki Nogami, "Tuned Longitudinal Surface Plasmon Resonance and Third-Order Nonlinear Optical Properties of Gold Nanorods," *Nanotechnology*, **22**[27], 275203_1-7 (2011).

58. Niki Prastomo, Mohamad Ayad, **Go Kawamura**, and Atsunori Matsuda, "Synthesis and Characterization of Polyaniline Nanofiber/TiO₂ Nanoparticles Hybrids," *Journal of the Ceramic Society of Japan*, **119**[5], 342-345 (2011).
59. Zainovia Lockman, Syahriza Izmail, **Go Kawamura**, and Atsunori Matsuda, "Formation of Zirconia and Titania Nanotubes in Fluorine Contained Glycerol Electrochemical Bath," *Defect and Diffusion Forum*, **312-315**, 76-81 (2011).
60. Song-Yul Oh, Toshihiro Yoshida, **Go Kawamura**, Hiroyuki Muto, and Atsunori Matsuda, "Solid-State Mechanochemical Synthesis of CsHSO₄ and 1,2,4-Triazole Inorganic-Organic Composite Electrolytes for Dry Fuel Cells," *Electrochimica Acta*, **56**[5], 2364-2371 (2011).
61. **Go Kawamura**, Shizuka Sato, Hiroyuki Muto, Mototsugu Sakai, Pang Boey Lim, Kenjiro Watanabe, Mitsuteru Inoue, and Atsunori Matsuda, "AgBr Nanocrystal-Dispersed Silsesquioxane-Titania Hybrid Films for Holographic Materials," *Materials Letters*, **64**[23], 2648-2651 (2010).
62. Wai Kian Tan, Razak Khairunisak Abdul, Kamarulazizi Ibrahim, **Go Kawamura**, Jun-ichi Hamagami, Atsunori Matsuda, and Zainovia Lockman, "Formation of ZnO Nano and Sub-Micron-Rods by Chemical Process on Hot-Water Treated and Non-Treated Sol-Gel Coating," *Malaysian Journal of Microscopy*, **6**, 58-63 (2010).
63. Yong Yang, Masaki Tanemura, Zhengren Huang, Dongliang Jiang, Zhi-Yuan Li, Ying-Ping Huang, **Go Kawamura**, Kohei Yamaguchi, and Masayuki Nogami, "Aligned Gold Nanoneedle Arrays for Surface-Enhanced Raman Scattering," *Nanotechnology*, **21**[32], 325701_1-5 (2010).
64. **Go Kawamura**, Ikuo Hayashi, Rahmat Ali Fitrah, Hiroyuki Muto, Jun-ichi Hamagami, and Atsunori Matsuda, "Dimension- and Direction-Controlled Gold Nanorods Deposited in Ordered Mesoporous Silica," *Advances in Science and Technology*, **63**, 126-130 (2010).
65. Song-Yul Oh, Toshihiro Yoshida, **Go Kawamura**, Hiroyuki Muto, Mototsugu Sakai, and Atsunori Matsuda, "Inorganic-Organic Composite Electrolytes Consisting of Polybenzimidazole and Cs-Substituted Heteropoly Acids and Their Application for Medium Temperature Fuel Cell," *Journal of Materials Chemistry*, **20**[30], 6359-6366 (2010).
66. Song-Yul Oh, Toshihiro Yoshida, **Go Kawamura**, Hiroyuki Muto, Mototsugu Sakai, and Atsunori Matsuda, "Composite Electrolytes Composed of Cs-Substituted Phosphotungstic Acid and Sulfonated Poly(Ether-Ether Ketone) for Fuel Cell Systems," *Materials Science and Engineering B*, **173**[1-3], 99-104 (2010).
67. **Go Kawamura**, Shizuka Sato, Toshihiro Kogure, Yusuke Daiko, Hiroyuki Muto, Mototsugu Sakai, and Atsunori Matsuda, "Photoinduced Reduction and Heat-Induced Oxidation of Silver in Transparent RSiO_{3/2} and RSiO_{3/2}-TiO₂ Films," *Physical Chemistry Chemical Physics*, **12**[25], 6859-6863 (2010).
68. Song-Yul Oh, Toshihiro Yoshida, **Go Kawamura**, Hiroyuki Muto, Mototsugu Sakai, and Atsunori Matsuda, "Proton Conductivity and Fuel Cell Property of Composite Electrolyte Containing Cs-Substituted Heteropoly Acids and Sulfonated Poly(Ether-Ether Ketone)," *Journal of Power Sources*, **195**[18], 5822-5828 (2010).

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