

## CURRICULUM VITAE

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### Education Background

- 2006-2009      Ph.D. (3 yrs), Nagoya Institute of Technology, Materials Science and Engineering (Prof. M. Nogami) “*Morphology- and Assembly-Controlled Gold Nanoparticles and Their Optoelectronic Properties*”
- 2005-2006\*      Exchange student (1 yr), Ecole Nationale Supérieure de Céramique Industrielle (ENSCI, France, Prof. R. Guinebretiere) “*Fabrication of Photonic Crystal Fiber by Sol-Gel Method*”
- 2004-2006      M.S. (2 yrs), Nagoya Institute of Technology, Materials Science and Engineering (Prof. M. Nogami) “*Synthesis of High-Concentration-Europium-Doped Glasses for Their Optical Applications (in Japanese)*”
- 2000-2004      B.S. (4 yrs), Nagoya Institute of Technology, Materials Science and Engineering (Prof. M. Nogami) “*Redox Behavior of Sm<sup>3+</sup> Ions by X-ray and Femtosecond Laser Irradiation and Influence of the Glass Matrix Composition (in Japanese)*”

### Employment Record

- 2019-      Associate Professor (1 yr 3 months), Toyohashi University of Technology, Department of Electrical and Electronic Information Engineering
- 2017-2019\*      Visiting Scientist (2.5 yrs), University of Erlangen-Nuremberg (FAU, Germany), Department of Materials Science and Technology (Prof. Aldo R. Boccaccini)
- 2013-2014\*      Visiting Professor (1 yr), Duke University (USA), Department of Chemistry (Dr. Benjamin J. Wiley)
- 2010-2019      Assistant Professor (8 yrs), Toyohashi University of Technology, Department of

Electrical and Electronic Information Engineering (Prof. A. Matsuda)

2009-2010 Assistant Professor (1yr), Toyohashi University of Technology, Department of Materials Science (Prof. A. Matsuda)

\*Concurrent post

## Awards and Prizes (15)

1. **Research Encouragement Award**, Japan Society for the Promotion of Science - 124 Committee, Jun. 16<sup>th</sup>, 2022
2. **Wakashachi Prize for Encouragement**, Aichi Prefecture, Jan. 20<sup>th</sup>, 2020.
3. **JSPM Award for Distinguished Service**, Japan Society of Powder and Powder Metallurgy, May. 31<sup>st</sup>, 2017
4. **Award of the Outstanding Reviews Published in the JCSJ in 2015**, The Ceramic Society of Japan, Mar. 23<sup>rd</sup>, 2016
5. **CerSJ Award for Advancements in Ceramic Science and Technology**, The Ceramic Society of Japan, Nov. 30<sup>th</sup>, 2015
6. **Dr. Donald Ulrich Award**, International Sol-Gel Society, Sep. 10<sup>th</sup>, 2015
7. **Best Poster Award**, 5<sup>th</sup> International Conference on Recent Advances in Materials, Minerals & Environment (RAMM), Local Organizing Committee of the RAMM & Universiti Sains Malaysia, Aug. 6<sup>th</sup>, 2015
8. **Best Poster Award**, 12<sup>th</sup> Japanese Sol-Gel Society Symposium, The Japanese Sol-Gel Society, Aug. 8<sup>th</sup>, 2014.
9. **Prize for Encouragement of International Exchange**, The Ceramic Society of Japan, Jun. 7<sup>th</sup>, 2013.
10. **Excellent Poster Award**, 8<sup>th</sup> Asian Meeting on Electroceramics (AMEC-8), Local Organizing Committee of the AMEC-8 & Universiti Sains Malaysia, Jul. 3<sup>rd</sup>, 2012.
11. **Poster Presentation Award**, The 50<sup>th</sup> Anniversary Symposium on Basic Science of Ceramics, The Ceramic Society of Japan, Jan. 13<sup>th</sup>, 2012.
12. **Good Poster Presentation Award**, Annual Meeting of The Ceramic Society of Japan 2010, The Ceramic Society of Japan, Jun. 4<sup>th</sup>, 2010.
13. **Good Presentation Award**, World Young Fellow Meeting 2010, The Ceramic Society of Japan, Mar. 1<sup>st</sup>, 2010.
14. **Wakashachi Prize for Encouragement**, Aichi Prefecture, Feb. 16<sup>th</sup>, 2009.
15. **CSJ Student Presentation Award 2008**, The Chemical Society of Japan, May 8<sup>th</sup>, 2008.

## Grants (29)

1. **G Research Grant**, ENEOS Tonengeneral Research/Development Encouragement & Scholarship

Foundation, 1 million yen, Apr. 2022.

2. **Research Grant**, Casio Science Promotion Foundation, 1 million yen, Dec. 2021.
3. **Grant-in-Aid for Challenging Research (Exploratory) 21K18823**, Japan Society for the Promotion of Science (JSPS), 6.5 million yen, Jul 2021 – Mar 2024.
4. **Research Grant**, The Hattori Hokokai Foundation, 1 million yen, Oct. 2020.
5. **Research Grant**, The Naito Foundation, 1 million yen, Apr. 2020.
6. **Research Grant**, Takahashi Industrial and Economic Research Foundation, 2 million yen, Apr. 2020 – Mar. 2022.
7. **Research Grant**, Foundation of Special Interest, Tatematsu Foundation, 3 million yen, Aug. 2019 – Jul. 2022.
8. **Grant for Travel Expense**, Tokuyama Science Foundation, 0.2 million yen, Aug. 2019.
9. **Grant-in-Aid for Scientific Research (C) 18K04701**, Japan Society for the Promotion of Science (JSPS), 4.4 million yen, Apr 2018 – Mar 2021.
10. **Research Grant**, IKETANI Science and Technology Foundation, 1 million yen, Apr. 2018.
11. **Grant for Travel Expense**, The NAGAI Foundation for Science & Technology, 0.3 million yen, Jun. 2017.
12. **Research Activation Grant**, Toyohashi University of Technology, 0.6 million yen, Jun. 2017 – Mar. 2018.
13. **Grant for Travel Expense**, Toyoaki Scholarship Foundation, 2000 USD, Oct. 2016.
14. **Research Grant**, The Nitto Foundation, 1 million yen, Oct. 2016 – Sep. 2017.
15. **Research Grant**, The Mazda Foundation, 1 million yen, Oct. 2016 – Mar. 2018.
16. **Research Grant**, Foundation of Public Interest, Tatematsu Foundation, 1 million yen, Aug. 2014 – Mar. 2015.
17. **Research Grant**, Nippon Sheet Glass Foundation for Materials Science and Engineering, 1 million yen, May 2014 – Mar. 2015.
18. **Research Grant**, The Murata Science Foundation, 1.5 million yen, Jun. 2012 – Mar. 2013.
19. **Collaboration Research Grant**, Network Joint Research Center for Advanced Materials and Devices, 0.085 million yen, Apr. 2012 – Mar. 2013.
20. **Research Grant**, Tokai Foundation for Technology, 0.6 million yen, Apr. 2012 – Mar. 2013.
21. **Research Grant**, The Ogasawara Foundation for the Promotion of Science & Engineering, 3 million yen, Jan. 2012 – Dec. 2012.
22. **Adaptable and Seamless Technology Transfer Program through Target-driven R&D**, Japan Science and Technology Agency, 1.7 million yen, Dec. 2011 – Jul. 2012.
23. **Research Activation Grant**, Toyohashi University of Technology, 1 million yen, Jun. 2011 – Mar. 2012.
24. **Research Grant**, Izumi Science and Technology Foundation, 1 million yen, Nov. 2010 – Oct. 2011.
25. **Grant for Travel Expense**, The Murata Science Foundation, 0.2 million yen, Jun. 2010.
26. **Grant-in-Aid for Young Scientists (B) 22760539**, Japan Society for the Promotion of Science (JSPS), 4 million yen, Apr 2010 – Mar 2013.

27. *Project Research Grant for Young Researcher*, Research Center for Future Technology in Toyohashi University of Technology, 2 million yen, Sep 2009 – Mar 2012.
28. *Grant-in-Aid for Young Scientists (Start-up) 21860045*, Japan Society for the Promotion of Science (JSPS), 1.4 million yen, Aug 2009 – Mar 2010.
29. *Research Activation Grant*, Toyohashi University of Technology, 1 million yen, Jun 2009 - Mar 2010.

### Invited Talks (29, including 15 international conferences)

1. **Go Kawamura**, “Localized surface plasmon resonance enhanced photocatalysis and photovoltaic effect,” 14<sup>th</sup> Pacific Rim Conference on Ceramic and Glass Technology (PACRIM 14), Vancouver, Canada (video participation) (2021.12.14).
2. **Go Kawamura**, “Development of Plasmon-Enhanced Photovoltaic Cells and Photocatalysts,” 2021 International Conference on Materials Science and Engineering, Brisbane, Australia (online participation) (2021.10.13).
3. **Go Kawamura**, “Development of energy conversion devices using localized surface plasmon resonance,” Japan Society for the Promotion of Science, section 124, the 163<sup>rd</sup> meeting, WebEx (online), (in Japanese, 2021.3.1).
4. **Go Kawamura**, “Development of various devices using surface plasmon resonance,” The Tokai Chemical Engineering seminar, Nagoya, Japan (in Japanese, 2020.11.27).
5. **Go Kawamura**, “Liquid phase fabrication of multiferroic nanocomposite films,” The 20<sup>th</sup> International Sol-Gel Conference, St. Petersburg, Russia (2019.8.25-30).
6. **Go Kawamura**, “Liquid phase preparation of multiferroic nanocomposite films and their characteristics,” 4<sup>th</sup> Thermoelectric Conversion Film and Its Fabrication Process, Nagoya, Japan (in Japanese, 2019.8.22).
7. **Go Kawamura**, “Liquid phase synthesis of multiferroic composite with nano-periodic structure and its characteristic,” 17<sup>th</sup> Sol-Gel Symposium, Tokyo, Japan (in Japanese, 2019.8.5-6).
8. **Go Kawamura**, “Multiferroic BaTiO<sub>3</sub>-CoFe<sub>2</sub>O<sub>4</sub> nanocomposite prepared via affordable liquid phase processes,” Collaborative Conference on Materials Research 2019, Gyeonggi/Goyang, Seoul, South Korea (2019.6.3-7).
9. **Go Kawamura**, “Liquid phase fabrication of BaTiO<sub>3</sub>-CoFe<sub>2</sub>O<sub>4</sub> composite with nano periodic structure,” Collaborative Conference on Materials Research 2018, Incheon/Seoul, South Korea (2018.6.25-29).
10. **Go Kawamura**, Atsunori Matsuda, Aldo R. Boccaccini, “Liquid phase preparation of BaTiO<sub>3</sub> nanotube arrays and their composite with CoFe<sub>2</sub>O<sub>4</sub>,” 7<sup>th</sup> International Congress of Ceramics, Foz do Iguacu, Brazil (2018.6.17-21).
11. **Go Kawamura**, “Recent study on dye-sensitized solar cells,” 4<sup>th</sup> EIIRIS intelligent sensor and MEMS workshop, Toyohashi, Japan (in Japanese, 2018.5.22).
12. **Go Kawamura**, “Introduction of University and Research,” *Lecture Meeting for future collaboration*, Duy Tan University, Da Nang, Viet Nam (2017,5,23-25).
13. **Go Kawamura**, “UV-Vis-NIR light-responsive high-efficient plasmonic photocatalyst composed of TiO<sub>2</sub>

and Au nanoparticles,” *BIT’s 3<sup>rd</sup> annual World Congress of Smart Materials-2017 (WCSM-2017)*, Bangkok, Thailand (2017.3.16-18)

14. **Go Kawamura**, Tomoki Arai, Teruhisa Okuno, Hiroyuki Muto, Atsunori Matsuda, “Redox site visualization in plasmonic photocatalyst composed of TiO<sub>2</sub> and Au nanoparticles,” *41<sup>st</sup> International Conference and Expo on Advanced Ceramics and Composite (ICACC-2017) (6<sup>th</sup> Global Young Investigator Forum)*, Daytona Beach, FL, USA (2017.1.23-27)
15. **Go Kawamura**, Hiroyuki Muto, Atsunori Matsuda, “Liquid phase syntheses and performance evaluation of plasmonic photocatalysts and electrode of dye-sensitized solar cells,” *2016 academic meeting of Tokai Branch of Ceramic Society of Japan*, Meijo University, Tempaku, Japan (in Japanese, 2016.12.10).
16. **Go Kawamura**, “Liquid phase syntheses and applications of inorganic nanostructures deposited with noble metal nanoparticles,” *11<sup>th</sup> Plasmonic Chemistry Society*, Tokyo Metropolitan University, Akihabara, Japan (in Japanese, 2016.11.11).
17. **Go Kawamura**, “Control of Nanostructures and Photo-Related Properties of Composites of Metal Oxide and Metal Nanoparticles,” *2016 annual meeting of Ceramic Society of Japan*, Waseda University, Nishiwaseda, Japan (in Japanese, 2016.3.14-16).
18. **Go Kawamura**, “Mechanisms of Photocatalyses by Au Nanoparticle-Deposited Mesoporous Silica-Titania,” *2016 annual meeting of Ceramic Society of Japan, Forefront of nanomaterial science organized by hybrid material science society*, Waseda University, Nishiwaseda, Japan (in Japanese, 2016.3.14).
19. **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).
20. **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).
21. **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).
22. **Go Kawamura**, Hiroyuki Muto, Atsunori Matsuda, “Noble Metal Nanoparticle-Deposited Mesoporous Oxides for Photocatalysts and Photovoltaics,” *4<sup>th</sup> International Symposium on Ceramics Nanotune Technology (ISCeNT4)*, Nagoya Institute of Technology, Nagoya, Japan (2015.3.2-4).
23. **Go Kawamura**, Hiroyuki Muto, Atsunori Matsuda, “Ag Nanoparticle Deposition on TiO<sub>2</sub> 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).
24. **Go Kawamura**, “Hybrid Materials Composed of Mesoporous Oxides and Metal Nanoparticles, and the Light Energy Conversion,” *The Ceramic Society of Japan The 27<sup>th</sup> Fall Meeting*, Kagoshima University, Korimoto, Japan (in Japanese, 2014.9.9-11).
25. **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, 2<sup>nd</sup> symposium on chemical field*, Keio University, Kanagawa, Japan (in Japanese, 2014.3.17-19).

26. **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).
27. **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).
28. **Go Kawamura**, “Liquid Phase Synthesis of Morphology-Controlled Metal Nanoparticles and Their Assemblies,” *Lecture meeting*, University Sains Malaysia. Penang, Malaysia (2012.3.12-14).
29. **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).

**Peer-reviewed papers (164, including 31 first-author papers, *h*-index: 32 (by Google Scholar))**

1. Marwa Mohamed Abouelela, **Go Kawamura**, Wai Kian Tan, Atsunori Matsuda, “Anodic nanoporous WO<sub>3</sub> modified with Bi<sub>2</sub>S<sub>3</sub> quantum dots as a photoanode for photoelectrochemical water splitting,” *Journal of Colloid and Interface Science*, **629**, 958-970 (2023).
2. Kieichiro Maegawa, Kazuhiro Hikima, Wai Kian Tan, **Go Kawamura**, Hiroyuki Muto, Atsushi Nagai, Andrei Jitianu, Atsunori Matsuda, “Enhancing water uptake and hydroxide ion conductivity of alkali fuel cell electrolyte membrane by layered double hydroxide,” *Solid State Ionics*, **385**, 116021(10pp) (2022).
3. Nurhaswani Alias, Zuhailawati Hussain, WaiKian Tan, **Go Kawamura**, Hiroyuki Muto, Atsunori Matsuda, Zainovia Lockman, “Photoreduction of Cr(VI) in wastewater by anodic nanoporous Nb<sub>2</sub>O<sub>5</sub> formed at high anodizing voltage and electrolyte temperature,” *Environmental Science and Pollution Research*, **29**(40), 60600-60612 (2022).
4. Hiroyuki Muto, Yusaku Sato, Wai Kian Tan, Atsushi Yokoi, **Go Kawamura**, Atsunori Matsuda, “Controlled formation of carbon nanotubes incorporated ceramic composite granules by electrostatic integrated nano-assembly,” *Nanoscale*, **14**(27), 9669-9674 (2022).
5. Wai Kian Tan, Yasuki Matsubara, Atsushi Yokoi, **Go Kawamura**, Atsunori Matsuda, Issei Sugiyama, Naoya Shibata, Yuichi Ikuhara, Hiroyuki Muto, “Transparent conductive polymer composites obtained via electrostatically assembled carbon nanotubes-poly (methyl methacrylate) composite particles,” *Advanced Powder Technology*, **33**(4), 103528(5pp) (2022).
6. M. Abd Elkodous, Aziz Aatiqah, **Go Kawamura**, Wai Kian Tan, Atsunori Matsuda, “Metallic nanoparticles loaded Al-SrTiO<sub>3</sub> supported with RhCr<sub>2</sub>O<sub>3</sub> and CoOOH cocatalysts for overall water splitting,” *International journal of Hydrogen Energy*, (2022) In Press. (10.1016/j.ijhydene.2022.08.199)

7. Nurhaswani Alias, See Wan Hui, Siti Azlina Rosli, Zuhailawati Hussain, Wai Kian Tan, **Go Kawamura**, Atsunori Matsuda, Zainovia Lockman, "Anodic film on Ti: Nanotube formation and application for Cr(VI) and Cd(II) removal," *Materials Today: Proceedings*, **66**(P10), 4051-4054 (2022).
8. Norain Isa, Norhisna Mohamad Nor, Wan Zuraida Wan Kamis, Wai Kian Tan, **Go Kawamura**, Atsunori Matsuda, Zainovia Lockman, "Anodized TiO<sub>2</sub> nanotubes using Ti wire in fluorinated ethylene glycol with air bubbles for removal of methylene blue dye," *Journal of Applied Electrochemistry*, **52**(1), 173-188 (2022).
9. Marwa Mohamed Abouelela, **Go Kawamura**, Atsunori Matsuda, "Metal chalcogenide-based photoelectrodes for photoelectrochemical water splitting," *Journal of Energy Chemistry*, **73**, 189-213 (2022).
10. M. Abd Elkodous, **Go Kawamura**, Wai Kian Tan, Atsunori Matsuda, "Facile one-pot preparation of Cu/CuO/Cu<sub>2</sub>O heterojunction for photocatalytic applications," *Materials Letters*, **323** 132606(4pp) (2022).
11. Sally M. Youssry, I.S. El-Hallag, Rajes Kumar, **Go Kawamura**, Wai Kian Tan, Atsunori Matsuda, Marwa N. El-Nahass, "Electrochemical deposition of uniform and porous Co-Ni layered double hydroxide nanosheets on nichel foam for supercapacitor electrode with improved electrochemical efficiency," *Journal of Energy Storage*, **50**, 104638(11pp) (2022).
12. M. Abd Elkodous, Ahmed M. El-Khawaga, M.I.A. Abdel Maksoud, Gharieb S. El-Sayyad, Nurhaswani Alias, Hazem Abdelsalam, Medhat A. Ibrahim, Mohamed A. Elsayed, **Go Kawamura**, Zainovia Lockman, Wai Kian Tan, Atsunori Matsuda, "Enhanced photocatalytic and antimicrobial performance of a multifunctional Cu-loaded nanocomposite under UV light: theoretical and experimental study," *Nanoscale*, **14**(23), 8306-8317 (2022).
13. Reda El-Shater, Fatma Fakhry, **Go Kawamura**, Tallat Meaz, Mohamed Abd Amer, Atsunori Matsuda, "Impact annealing temperature process on oxidation state of iron ions and structural phase transition in magnetite nanoparticles," *Indian Journal of Physics*, (2022). In Press. (10.1007/s12648-022-02349-5)
14. Hiroyuki Muto, Takahito Amano, Wai Kian Tan, Atsushi Yokoi, **Go Kawamura**, Atsunori Matsuda, "Ordered arrays of electrostatically assembled SiO<sub>2</sub>-SiO<sub>2</sub> composite particles by electrophoresis-induced stimulation," *Journal of Sol-Gel Science and Technology*, (2022). In Press. (10.1007/s10971-022-05854-5)
15. Sally M. Youssry, M. Abd Elkodous, **Go Kawamura**, Atsunori Matsuda, "Carbon dots conjugated nanocomposite for the enhanced electrochemical performance of supercapacitor electrodes," *RSC Advances*, **11**(63), 39636-39645 (2021).
16. Faisal Budiman, Wai Kian Tan, **Go Kawamura**, Hiroyuki Muto, Atsunori Matsuda, Khairunisak Abdul Razak, Zainovia Lockman, "Formation of dense and high-aspect-ratio iron oxide nanowires by water vapor-assisted thermal oxidation and their Cr(VI) adsorption properties," *ACS Omega*, **6**(42) 28203-28214 (2021).
17. M. Abd Elkodous, Hussein M. El-Husseiny, Gharieb S. El-Sayyad, Amr Hosny Hashem, Ahmed S. Doghish, Dounia Elfadil, Yasmine Radwan, Hayam M. El-Zeiny, Heba Bedair, Osama A. Ikhdair,

- Hisham Hashim, Ahmed Ali Ahmed, Mahmoud Gamal Elsayed, Maria Nagy, Nouran Y. Ali, Maryam Elahmady, Ahmed M. Kamel, Mahmoud Abd Elkodous, Imene Maallem, Maria B. Sh. Kaml, Nayera Nasser, Ahmed AlaaEldin Nouh, Fatma M. Safwat, Mai M. Alshal, Salma K. Ahmed, Taha Nagib, Fatma M. El-Sayed, Manal Almahdi, Yahia Adla, Naha T. Elnashar, Aya Misbah Hussein, Alaa S. Salih, Somaya Abdulbaset Mahmoud, Shireen Magdy, Diana I. Ahmed, Fayrouz Mohamed Saeed Hassan, Nermin A. Edward, Kirolos Said Milad, Shereen R. Halasa, Mohamed M. Arafa, Abdullar Hegazy, **Go Kawamura**, Wai Kian Tan and Atsunori Matsuda, "Recent advances in waste-recycled nanomaterials for biomedical applications: waste-to-wealth," *Nanotechnology Reviews*, **10**(1), 1662-1739 (2021).
18. Nurain Najihah Alias, Zuhailawati Hussain, Wai Kian Tan, **Go Kawamura**, Hiroyuki Muto, Atsunori Matsuda and Zainovia Lockman, "Nanoporous anodic Nb<sub>2</sub>O<sub>5</sub> with pore-in-pore structure formation and its application for the photoreduction of Cr(VI)," *Chemosphere*, **283**, 131231(10pp) (2021).
19. Mohamed Khairy Abdel-Rafei, Noura Magdy Thabet, M.I.A. Abdel Maksoud, M. Abd Elkodous, **Go Kawamura**, Atsunori Matsuda, Ahmed H. Ashour, Ahmed Ibrahim El-Batal and Gharieb S. El-Sayyad, "Influence of Ce<sup>3+</sup> substitution on antimicrobial and antibiofilm properties of ZnCe<sub>x</sub>Fe<sub>2-x</sub>O<sub>4</sub> nanoparticles (x = 0.0, 0.02, 0.04, 0.06 and 0.08) conjugated with ebselen and its role subsidized with  $\gamma$ -radiation in mitigating human TNBC and colorectal adenocarcinoma proliferation in vitro," *International Journal of Molecular Sciences*, **22**(18), 10171(40pp) (2021).
20. Rajesh Kumar, Sumanta Sahoo, Wai Kian Tan, **Go Kawamura**, Atsunori Matsuda and Kamal K. Kar, "Microwave-assisted thin reduced graphene oxide-cobalt oxide nanoparticles as hybrids for electrode materials in supercapacitor," *Journal of Energy Storage*, **40**, 102724(9pp) (2021).
21. Wai Kian Tan, Takaya Kuwana, Atsushi Yokoi, **Go Kawamura**, Atsunori Matsuda and Hiroyuki Muto, "Electrostatically assembled SiC-Al<sub>2</sub>O<sub>3</sub> composite particles for direct selective laser sintering," *Advanced Powder Technology*, **32**(6), 2074-2084 (2021).
22. Manifa Noor, Md Abdullah Al Mamun, A.K.M. Atique Ullah, Atsunori Matsuda, **Go Kawamura**, Mohammad Abdul Hakim, Md Fakhrul Islam and Mohammad Abdul Matin, "Physics of Ce<sup>3+</sup> ↔ Ce<sup>4+</sup> electronic transition in phytosynthesized CeO<sub>2</sub>/CePO<sub>4</sub> nanocomposites and its antibacterial activities," *Journal of Physics and Chemistry of Solids*, **148**, 109751(10pp) (2021).
23. M. Abd Elkodous, Gharieb S. El-Sayyad, M.I.A. Abdel Maksoud, Rajesh Kumar, Keiichiro Maegawa, **Go Kawamura**, Wai Kian Tan and Atsunori Matsuda, "Nanocomposite matrix conjugated with carbon nanomaterials for photocatalytic wastewater treatment," *Journal of Hazardous Materials*, **410**, 124657(16pp) (2021).
24. Siti Azlina Rosli, Nurhaswani Alias, Nurulhada Bashirrom, Syahriza Ismail, Wai Kian Tan, **Go Kawamura**, Atsunori Matsuda and Zainovia Lockman, "Hexavalent chromium removal via photoreduction by sunlight on titanium-dioxide nanotubes formed by anodization with a fluorinated glycerol-water electrolyte," *Catalysts*, **11**, 376(17pp) (2021).
25. **Go Kawamura**, Irna Puteri Binti Shahbudin, Wai Kian Tan, Taichi Goto, Yuichi Nakamura, Mitsuteru Inoue, Hiroyuki Muto, Kazuhiro Yamaguchi, Aldo R. Boccaccini and Atsunori Matsuda, "Development



of liquid phase fabrication of nanotube array-based multiferroic nanocomposite film,” *Journal of Alloys and Compounds*, **869**, 159219(8pp) (2021).

26. Marwa Mohamed Abouelela, **Go Kawamura** and Atsunori Matsuda, “A review on plasmonic nanoparticle-semiconductor photocatalysts for water splitting,” *Journal of Cleaner Production*, **294**, 126200(17pp) (2021).
27. Wai Kian Tan, Hiroyuki Muto, **Go Kawamura**, Zainovia Lockman and Atsunori Matsuda, “Nanomaterial Fabrication through the modification of sol-gel derived coatings,” *Nanomaterials*, **11**(1), 181 (2021).
28. Hanie Hashtroudi, Rajesh Kumar, Raluca Savu, Stanislav Moshkalev, **Go Kawamura**, Atsunori Matsuda and Mahnaz Shafiei, “Hydrogen gas sensing properties of microwave-assisted 2D hybrid Pd/rGO: Effect of temperature, humidity and UV illumination,” *International Journal of Hydrogen Energy*, **46**(10), 7653-7665 (2021).
29. Rajesh Kumar, Sumanta Sahoo, Ednan Joanni, Rajesh Kumar Singh, Keiichiro Maegawa, Wai Kian Tan, **Go Kawamura**, Kamal K. Kar and Atsunori Matsuda, “Heteroatom doped graphene engineering for energy storage and conversion,” *Materials Today*, **39**, 47-65 (2020).
30. Wai Kian Tan, Kenta Asami, Keiichiro Maegawa, Rajesh Kumar, **Go Kawamura**, Hiroyuki Muto and Atsunori Matsuda, “Fe<sub>3</sub>O<sub>4</sub>-embedded rGO composites as anode for rechargeable FeO<sub>x</sub>-air batteries,” *Materials Today Communications*, **25**, 101540(9pp) (2020).
31. Wai Kian Tan, Keita Tsuzuki, Atsushi Yokoi, **Go Kawamura**, Atsunori Matsuda and Hiroyuki Muto, “Formation of porous Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> composite ceramics by electrostatic assembly,” *Journal of the Ceramic Society of Japan*, **128**(9), 605-610 (2020).
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***The number of total citation: 3338 h-index: 32 (by Google Scholar on Oct. 25<sup>th</sup>, 2022)***

## **Language qualifications**

**TOEIC 915 (English test) (2016.4)**

DELF A2 (French test) (2006.1)

Updated on Oct. 2022