

## List of Publications (International meetings include) 3/6/2020

1. "A Slab-Optical-Waveguide Absorption Spectroscopy of Langmuir-Blodgett Films with a White Light Excitation Source" Kenji Kato, Akiko Takatsu, Naoki Matsuda, Reiko Azumi and Mutsuyoshi Matsumoto, *Chem. Lett.*, 437 (1995).
2. "Absorption Spectra of Rhodamine 6G by Slab Optical Waveguide Spectroscopy" Naoki Matsuda, Akiko Takatsu and Kenji Kato, *Chem. Lett.*, 105 (1996).
3. "Non-Contact Measurement of Absorbed Cytochrome c with Optical Waveguide Spectrometry; The Effect of Distance between Waveguide and Protein on the Spectral Sensitivity" Hiroyuki Ohno, Kyoko Fukuda and Fumiyo Kuru, *Chem. Lett.*, 29, 76 (2000).
4. "In Situ Monitoring of Photo-Cross-Linking Reaction of Anthracene Chromophores in Polymer Langmuir-Blodgett Films by an Integrated Optical Waveguide Technique" Masaya Mitsuishi, Tomohiro Tanuma, Jun Matsui, Jinfeng Chen and Tokuji Miyashita, *Langmuir*, 17, 24, 7449 (2001).
5. "Optical Waveguide Spectrometry of Acridine Orange in Monolayer and Langmuir-Blodgett Film" Hiroyuki Ohno, Satoshi Yoneyama, Fumio Nakamura, Kyoko Fukuda, Masahiko Hara and Masatsugu Shimomura, *Langmuir*, 18, 5, 1661 (2002).
6. "Controlled Photoisomerization of Azobenzene Chromophores in the Nucleoamphiphile Monolayers by Base-pairing with Template DNA" Kuniharu Ijio, Jin Matsumoto, Mitsuhiko Morisue and Masatsugu Shimomura, *Asia Nano 2002 proceedings*, 125 (2002).
7. "Circular Arrangement of Azobenzene Chromophores in the Nucleoamphiphile Monolayer by Base-Pairing with Cyclic DNA" Jin Nishida, Jin Matsumoto, Mitsuhiko Morisue, Kuniharu Ijio and Masatsugu Shimomura, *Asia Nano 2002 proceedings*, 163 (2002).
8. "Electron Transfer Process of Poly(ethylene oxide)-Modified Cytochrome c in Imidazolium Type Ionic Liquid" Hiroyuki Ohno, Chiiko Suzuki, Kenta Fukumoto, Masahiro Yoshizawa and Kyoko Fujita, *Chem. Lett.*, 32, 5, 450 (2003).
9. "Redox reaction of PEO modified cytochrome c adsorbed on the electrode in ion conductive PEO matrix analyzed with non-contact optical waveguide spectroscopy" Kyoko Fujita and Hiroyuki Ohno, *Polym. Adv. Technol.*, 14-7, 486 (2003).
10. "Electrochemical Doping of Protonated Meso-tetrakis (sulfthienyl) Porphyrin J-aggregates" Yonbon Arai, Takaki Nedachi, Jotaro Nakazaki and Hiroshi Segawa, *2004 Joint Inter National Meeting proceedings*, (2004).
11. "Non-contact Optical Waveguide Spectroscopy: in-situ spectral analysis of cytochrome c immobilized on mixed SAM modified gold electrode" Mirei Araki, Kyoko Fujita and Hiroyuki Ohno, *2004 Joint Inter National Meeting proceedings*, (2004).
12. "Thermostability of Poly(ethylene oxide) Modified Heme Proteins in Ionic Liquids" Kaori Tamura, Kyoko Fujita and Hiroyuki Ohno, *2004 Joint Inter National Meeting proceedings*, (2004).
13. "Electron Transfer Reaction of Poly (ethylene oxide)-Modified cyt.c in 1-Ethyl-3-Methylimidazolium bis (trifluoromethanesulfonyl) imide" Kyoko Fujita, Chiiko Suzuki and Hiroyuki Ohno, *2004 Joint Inter National Meeting proceedings*, (2004).
14. "Direct Analysis of Dye Molecules on Substrate with Polarized Optical Waveguide Spectroscopy" Keisuke Taniguchi, Kyoko Fujita and Hiroyuki Ohno, *2004 Joint Inter National Meeting proceedings*, (2004).
15. "UV-vis Absorption Spectra of Powdered Materials: Direct Measurements by Optical Waveguide Spectroscopy" Keiichiro Ogawa, Jun Harada, Toshikatsu Fujiwara and Hiromi Takahashi, *Chem. Lett.*, 33, 11, 1446 (2004).
16. "Dynamic analysis of aggregation of methylene blue with polarized optical waveguide spectroscopy" Kyoko Fujita, Keisuke Taniguchi and Hiroyuki Ohno, *Talanta*, 65, 1066 (2005).
17. "Molecular orientation of azobenzene chromophores in ultrathin polymer nanosheets studied by attenuated total reflection spectroscopy" Masaya Mitsuishi, Tomohiro Tanuma, Jun Matsui and Tokuji Miyashita, *Talanta*, 65, 1091 (2005).
18. "Development of a novel electrochemical cell for slab optical waveguide spectroscopy for in situ observation of methylene blue and anions on an electrode/electrolyte interface" Kouji Takahashi, Motoko Koitabashi and Fumiyo Kusu, *Talanta*, 65, 1120 (2005).
19. "Crystal Structure of Light-Induced Colored Species from Photochromic Dimer of

## List of Publications (International meetings include) 3/6/2020

- 1,4-Bisimidazolyl-tetrafluorobenzen” Azusa Kikuchi and Jiro Abe, *Chem. Lett.*, 34, 11, 1552 (2005).
20. “Clay minerals as fascinating host materials for constructing nano-structure controlled systems” Shinsuke Takagi, Miharuo Eguchi and Haruo Inoue, *International Symposium on Physics and Chemistry of Smectites*, 5 (2005).
  21. “The orientational control of porphyrin molecule absorbed on inorganic nano-sheet” Miharuo Eguchi, Shinsuke Takagi and Haruo Inoue, *International Symposium on Physics and Chemistry of Smectites*, 72 (2005).
  22. “In situ observation of ferroin/ferrin during electrolysis on ITO by slab optical waveguide spectroscopy” Kouji Takahashi and Kusu Fumiyo, *Pacificchem 2005, Abstract Central*, (2005).
  23. “Dynamic analysis of electron transfer reaction of cytochrome c immobilized on SAM modified gold electrode with non-contact optical waveguide spectroscopy” Kaori Tamura, Mirei Araki and Hiroyuki Ohno, *Pacificchem 2005, Abstract Central*, (2005).
  24. “Optical Waveguide Spectroscopy (Chapter7.) / Electrochemical Aspect of Ionic Liquids” Kyoko Fujita and Hiroyuki Ohno, edit by Hiroyuki Ohno, *Wiley-Blackwell*, ISBN:9780471648512, (2005).
  25. “In Situ Observation of Ferroin and Ferrin in Vicinity of ITO Electrode Surface by Slab Optical Waveguide Spectroscopy” Kouji Takahashi, and Fumiyo Kusu, *Electrochemistry*, 74, 2, 192 (2006).
  26. “The Orientation Control of Dicationic Porphyrins on Clay Surfaces by Solvent Polarity” Miharuo Eguchi, Shinsuke Takagi, and Haruo Inoue, *Chem. Lett.*, 35, 1, 14 (2006).
  27. “Solvatochromism of a membrane composed of a cationic porphyrin-clay complex” Shinsuke Takagi, Miharuo Eguchi, D.A.Tryk and Haruo Inoue, *IIIst IUPAC SYMPOSIUM ON PHOTOCHEMISTRY Abstracts*, 285 (2006).
  28. “Dynamic Behavior of Porphyrin Orientation on the Clay Surfaces” Miharuo Eguchi, Tetsuya Shimada, Hiroshi Tachibana, Donald Alexander Tryk, Shinsuke Takagi, and Haruo Inoue, *IIIst IUPAC SYMPOSIUM ON PHOTOCHEMISTRY Abstracts*, 286 (2006).
  29. “Photoinduce Electron Transfer Reaction of Porphyrin J-aggregate” Yonbon Arai, Jotaro Nakazaki, and Hiroshi Segawa, *IIIst IUPAC SYMPOSIUM ON PHOTOCHEMISTRY Abstracts*, 287 (2006).
  30. “Multicolor Chemiluminescent Boron-dipyromethenes” Koji Yamada, Akemi Sato, and Koji Suzuki, *IIIst IUPAC SYMPOSIUM ON PHOTOCHEMISTRY Abstracts*, 299 (2006).
  31. “Photoinduced Electron Transfers between Cationic Porphyrins and MV<sup>2+</sup> within Titania Nano-Sheets and the Cubic Mesoporous Interface” Takuya Hirano, Atsushi Yamauchi, Tatsuto Yui, Tsukasa Torimoto and Kathuhiko Takagi, *IIIst IUPAC SYMPOSIUM ON PHOTOCHEMISTRY Abstracts*, 307 (2006).
  32. “Porphyrin photochemistry in inorganic/organic hybrid materials: Clays, layered semiconductors, nanotubes, and mesoporous materials” Shinsuke Takagi, Miharuo Eguchi, Donald A. Tryk and Haruo Inoue, *J. Photochem. Photobiol., C*, 7, 104 (2006).
  33. “Self-aggregation of synthetic zinc chlorins possessing 13-ester-carbonyl group as chlorosomal chlorophyll models” Michio Kunieda and Hitoshi Tamiaki, *Eur. J. Org. Chem.*, 2352 (2006).
  34. “Direct Visible Spectral Analysis of Solid Samples by Optical Waveguide Spectroscopy due to Adsorbed Sample Molecules after Sublimation” Hiromi Takahashi, Kyoko Fujita and Hiroyuki Ohno, *Chem. Lett.*, 36, 1, 116 (2007).
  35. “Photoresponsive porphyrin-imprinted polymers prepared using a novel functional monomer having diaminopyridine and azobenzene moieties” Toshifumi Takeuchi, Kana Akeda, Shinya Murakami, Hideyuki Shinmori, Satoru Inoue, Woo-Sang Lee and Takayuki Hishiya, *Org. Biomol. Chem.*, 5, 2368 (2007).
  36. “Solvability of Cytochrome c in to Ionic Liquids and Redox Response at High Temperature” K. Tamura and H. Ohno, *2nd International Congress on Ionic Liquides (COIL-2) proceedings*, 306 (2007).
  37. “Spectroscopic Analysis Native Cytochrome c in Dry Ionic Liquids” Kaori Tamura and Hiroyuki Ohno, *Proceedings of the 9th International Symposium on Polymers for Advanced technologies*, 157 (2007).

## List of Publications (International meetings include) 3/6/2020

38. "Dichroic Measurements on Dicationic and Tetracationic Porphyrins on Clay Surface with Visible-Light-Attenuated Total Reflectance" Miharu Eguchi, Hiroshi Tachibana, Shinsuke Takagi, Donald A. and Haruo Inoue, *Bull. Chem. Soc. Jpn.*, 80, 7, 1350 (2007).
39. "Regioisomerically controlled self-aggregation of zinc 3-hydroxymethyl-13-formyl-chlorin /porphyrin and their 3,13-inverted pigments" Michio Kunieda and Hitoshi Tamiaki, *J. Org. Chem.*, 72, 2443 (2007).
40. "Crystallization and Aggregation Processes of Vacuum-Evaporated TPD Films" Masaru Nagai and Hisakazu Nozoye, *J. Electrochem. Soc.*, 154, 8, J239 (2007).
41. "Aryl-Substituted C<sub>3</sub>-Bridged Oligopyrroles as Anion Receptors for Formation of Supramolecular Organogels" Hiromitsu Maeda, Yohei Haketa and Takashi Nakanishi, *J. Am. Chem. Soc.* 219-44, 13661(2007).
42. "Photo-induced fluorescence emission enhancement of azobenzene thin films" Osamu Haruta, Yasutaka Matsuo and Kuniharu Ijio, *J. Colloid and Surface A*, 313-314, 595 (2008).
43. "Photoluminescent properties and molecular structures of [Naph Au (PPh<sub>3</sub>)] and [ $\mu$ -Naph{ Au (PPh<sub>3</sub>)}<sub>2</sub>]ClO<sub>4</sub> (Naph=2-naphthyl)" Masahisa Osawa, Mikio Hoshino and Daisuke Hashizume, *Dalton Trans*, 2248 (2008).
44. "Quantum size effect in TiO<sub>2</sub> nanoparticles prepared by finely controlled metal assembly on dendrimer templates" Norifusa Satoh, Toshio Nakashima, Kenta Kamikura and Kimihisa Yamamoto, *Nat. Nanotechnol.*, 3, 106 (2008).
45. "Attenuated total reflectance spectroscopy of simultaneous processes: Corrosion inhibition of cuprous oxide by benzotriazole" Maria Antoaneta Bratescu, Daniel B. Allred, Nagahiro Saito, Mehmet Sarikaya and Osamu Takai, *Appl. Surf. Sci.*, 254, 10, 2960 (2008).
46. "Immobilization of gold nanoparticles on optical waveguides with organosilane monolayer" Takuya Nakanishi, Harumi Takada, Hironori Iida, Mayuki Kajiuura and Tetsuya Osaka, *J. Colloids and Surfaces A*, 313-314, 234 (2008).
47. "Self-Constructed Electrically Conductive Bacterial Network" Ryuhei Nakamura, Fumiyoshi Kai, Akihiro Okamura, Greg J. Newton and Kazuhito Hashimoto, *Angew. Chem., Int. Ed.*, 48, 1606 (2009).
48. "Broadband Plasmon Waveguide Resonance Spectroscopy for Probing Biological Thin Films" Han Zhang, Kristina Orosz, Hiromi Takahashi and S. Scott Saavedra, *Appl. Spectrosc.*, 63, 9, 1062 (2009).
49. "Biosensing by optical waveguide spectroscopy based on localized surface plasmon resonance of gold nanoparticles used as a probe or as a label" Mayuki Kajiuura, Takuya Nakanishi, Hironori Iida, Harumi Takada and Tetsuya Osaka, *J. Colloid Interface Sci.*, 335, 1, 140 (2009).
50. "Polarized optical waveguide spectroscopy: Effective tool to analyze adsorption process of dye molecules" Hiroyuki Ohno, Keisuke Taniguchi and Kyoko Fujita, *Optical Review*, 6, 3, 233 (2009).
51. "Molecular orientation of nonlinear optical polymer nanosheets on silica nanoparticle monolayer studied by optical waveguide spectroscopy" Miki Ishifuji, Takeo Suzuki, Masaya Mitsuishi and Tokuji Miyashita, *Thin Solid Films*, 518, 2, 457 (2009).
52. "Real time measurement of concentration ratio at an electrode/solution interface by calculating the inverse Laplace transform of SOWG spectroscopy" Koji Takahashi and Fumiyo Kusu, *J. Electroanal. Chem.*, 628, 1-2, 1 (2009).
53. "Dipole effects on molecular and electronic structures in a novel conjugate of oligo(phenyleneethynylene) and helical peptide" Hidenori Nakayama, Tomoyuki Morita and Shunsaku Kimura, *Phys. Chem. Chem. Phys.*, 11, 3967 (2009).
54. "Quantum size titanium oxide templated with a  $\pi$ -conjugated dendrimer: crystal structure in the quantum size domain" Norifusa Satoh and Kimihisa Yamamoto, *Synth. Met.*, 159, 9-10, 813 (2009).
55. "Electronic Absorption Spectra and Redox Properties of C type Cytochromes in Living Microbes" Ryuhei Nakamura, Kazuyuki Ishii and Kazuhito Hashimoto, *Angew. Chem., Int. Ed.*, 121, 9, 1634 (2009).

## List of Publications (International meetings include) 3/6/2020

56. "In Situ Observation of Reductive Deposition of Uranium on an Electrode/Electrolyte Interface by Optical Waveguide Spectroscopy" Takuya Nankawa, Yoshinori Suzuki and Toshihiko Ohnuki, *Chem. Lett.* 38, 11, 1090 (2009).
57. "In vivo Electrochemistry of C-type Cytochrome-Mediate Electron-Transfer with Chemical Marking" Akihiro Okamoto, Ryuhei Nakamura, Kazuyuki Ishii and Kazuhito Hashimoto, *Chem. Bio Chem.*, 10- 14, 2329 (2009).
58. "Solvent-Assisted Organized Structures Based on Amphiphilic Anion-Responsive  $\pi$ -Conjugated Systems" Hiromitsu Maeda, Yoshihiro Ito, Yohei Haketa, Myongsoo Lee, Takeshi Hashishin and Kenji Kaneko, *Chem. A Eur. J.*, 15, 15, 3706 (2009).
59. "Linearly Polarized Light Absorption Spectra of Chlorosomes, Light-Harvesting Antennas of Photosynthetic Green Sulfur Bacteria" Hitoshi Tamiaki, Shingo Tateishi, Shosuke Nakabayashi, Yutaka Shibata and Shigeru Itoh, *Chem. Phys. Lett.*, 484, 4-6, 333 (2010).
60. "Supramolecular Assemblies Derived from Formyl-Substituted  $\pi$ -Conjugated Acyclic Anion Receptors" Hiromitsu Maeda, Rika Fujii, and Yohei Haketa, *Eur. J. Org. Chem.*, 8, 1469 (2010).
61. "Photochromic Organogel based on [2.2]Paracyclophane-Bridged Imidazole Dimer with Tetrapodal Urea Moieties" Masahiro Takizawa, Atsushi Kimoto, Jiro Abe, *Dyes Pigm.*, 89-3, 245 (2012).
62. "Measuring Photochemical Kinetics in Submonolayer Film by Transient ATR Spectroscopy on a Multimode Planar Waveguide" Anne M. Simon, Nicole E. Marucci and Scott Saavedra, *Anal. Chem.*, 83, 14, 5762 (2011).
63. "Observation of In Vivo Cytochrome-Based Electron-Transport Dynamics Using Time-Resolved Enhancement Evanescent Wave Electroabsorption Spectroscopy" Toshihiko Shibamura, Ryuhei Nakamura, Yuichiro Hirakawa, Kazuhito Hashimoto and Kazuyuki Ishii, *Angew. Chem., Int. Ed.* 50-39, 9137 (2011).
64. "Cytochrome c dissolved in 1-allyl-3-methylimidazolium chloride type ionic liquid undergoes a quasi-reversible redox reaction up to 140°C" Kaori Tamura, Nobufumi Nakamura and Ohno Hiroyuki, *Biotechnol. Bioeng.*, 109-3, 273 (2011).
65. "Spectroelectrochemical Investigation on Biological Electron Transfer Associated with Anode Performance in Microbial Fuel Cells / RECENT TREND IN ELECTROCHEMICAL SCIENCE AND TECHNOLOGY" Okamoto Akihiro, Hashimoto Kazuhito and Nakamura Ryuhei, edit by Ujjal Kumar Sur, *InTech*, ISBN978-953-307-830-4, chapter 9, 207-222 (2012).
66. "SPR Sensing of Bisphenol A Using Molecularly Imprinted Nanoparticles Immobilized on Slab Optical Waveguide with Consecutive Parallel Au and Ag Deposition Bands Coexistent with Bisphenol A-Immobilized Au Nanoparticles" Yuki Taniguchi, Eri Takano and Toshifumi Takeuchi, *Langmuir*, 28-17, 7083 (2012).
67. "J-aggregate structure in a chloroform solvate of a 2,3-dicyanopyrazine dye -Separation of two dimensional stacking dye layers by solvate formation" Shinya Matsumoto, Emi Babamoto, Ryohei Eto, Saori Sato, Takashi Kobayashi, Hiroyoshi Naito, Motoo Shiro and Hiromi Takahashi, *Dyes Pigm.*, 95, 431 (2012).
68. "Observation of oriented molecular assemblies on ITO surfaces using porphyrin derivatives bearing carboxyl groups and their electrochemical responses" Katsuhiko Kanaizuka, Shigeta Yagyū, Hiromi Takahashi, Manabu Ishizaki, Masatomi Sakamoto, and Masato Kurihara, *Electrochemistry*, 80-7, 504 (2012).
69. "Construction of Chlorosomal Rod self-Aggregates in the Solid State on Any Substrate from Synthetic Chlorophyll Derivatives Possessing an Oligomethylene Chain at the 17-Propionate Residue" Sunao Shoji, Takeshi Hashishin, and Hitoshi Tamiaki, *Chem.- Eur. J.*, 18, 13331 (2012).
70. "Meso-meso directly linked dipyrrolyl ligand dimer that shows the formation of metal-coordination polymers" Hiromitsu Maeda, Hiroaki Kobayashi, and Ryo Akuta, *J. Porphyrins Phthalocyanines*, 17, 1 (2012).
71. "Role of Hydrophobic Interaction in Controlling the Orientation of Dicationic Porphyrins on Solid Surfaces" Miharū Eguchi, Tetuya Shimada, Donald A. Tryk II, Haruo Inoue, and

## List of Publications (International meetings include) 3/6/2020

- Shinsuke Takagi, *J. Phys. Chem. C*, 117(18), 9245 (2013).
72. “Metastability of anatase: size dependent and irreversible anatase-rutile phase transition in atomic-level precise titania” Norifusa Satoh, Toshio Nakamura, and Kimihisa Yamamoto, *Sci. Rep.*, 3, 1 (2013).
  73. “Meso–meso directly linked dipyrrolyl ligand dimer that shows the formation of metal-coordination polymers” Hiromitsu Maeda, Hiroaki Kobayashi, and Ryo Akuta, *J. Porphyrins Phthalocyanines* 17, 86 (2013).
  74. “Switching of energy transfer reaction by the control of orientation factor between porphyrin derivatives on the clay surface” Miharu Eguchi, Yo Watanabe, Yuta Ohtani, Tetuya Shimada, and Shinsuke Takagi, *Tetrahedron Lett.*, 55, 2662 (2014).
  75. “Adsorption of a Carboxylic Acid-Functionalized Aminoxyl Radical onto SiO<sub>2</sub>” Hidenori Murata, Martha Baskett, Hiroyuki Niside, and Paul M. Lahti, *Langmuir*, 30, 4026 (2014).
  76. “Patterning of Alkylamine Molecules on Highly Oriented Pyrolytic Graphite Surface via Deep UV Light Irradiation” Yusuke Sato, and Toshikazu Kawaguchi, *Chem. Lett.*, 43, 10, 1542 (2014).
  77. “Spectroscopic Characterization of Supramolecular Chiral Porphyrin Homoassociates at the Air-Water Interface” Takunori Harada, Hiroshi Moriyama, Hiromi Takahashi, Kazuo Umemura, Haruo Yokota, and Kenji Mishima, *Appl. Spectrosc.*, 68, 11, 1235 (2014).
  78. “Regioisomer-Free C<sub>4h</sub>β-Tetrakis(tert-butyl)metallo-phthalocyanines: Regioselective Synthesis and Spectral Investigations” Norihito Iida, Kenta Tanaka, Etsuko Tokunaga, Hiromi Takahashi, and Norio Shibata, *Chemistry Open*, 4, 102 (2015).
  79. “Optical properties of three differently colored crystal modifications of a 2,3-dicyanopyrazine dye” Naoya Okada, Ryohei Eto, Emi Horiguchi-Babamoto, Takashi Kobayashi, Hiroyoshi Naito, Motoo Shiro, Hiromi Takahashi, and Shinya Matsumoto, *Bull. Chem. Soc. Jpn.*, 88, 716 (2015).
  80. “Unexpected photochemical debenzoylation of 2,5-bis(dibenzylamino)-3,6-dichloro-*p*-benzoquinone” Yuta Shimada, Emi Horiguchi-Babamoto, and Shinya Matsumoto, *Dyes Pigm.*, 121, 336 (2015).
  81. “Optical Anisotropy and Strong H-Aggregation of poly(3-Alkythiophene) in a Surface Monolayer” Fanji Wong, Kazuhito Hashimoto, and Keisuke Tajima, *Adv. Mater.*, 27, 39, 6014 (2015).
  82. “Mechanical Motion of Chiral Azobenzene Crystals with Twisting upon Photoirradiation” Takuya Taniguchi, Juri Fujisawa, Motoo Shiro, Hideko Koshima, and Toru Asahi, *Chem. Eur. J.*, 22, 1 (2016).
  83. “Role of flexible bulky groups and weak interactions involving halogens in the vapoluminescence of a metal-free dye” Yoko Akune, Risa Hirokawa, Hiromi Takahashi, Motoo Shiro, and Shinya Matsumoto, *RSC Adv.* 6, 74506 (2016).
  84. “Kinetic Analysis by Laser Flash Photolysis of Porphyrin Molecule’s Orientation Chance at the Surface of Silicate Nanosheet” Miharu Eguchi, Tatsuya Shimada, Shinsuke Takagi, and Haruo Inoue, *J. Phys. Chem. C*, 120, 7428 (2016).
  85. “Red to Near-Infrared Fluorescence in the Solid-State of Alkoxy-Substituted Bisazomethine

## List of Publications (International meetings include) 3/6/2020

- Dyes Possessing a Dibutylamino Terminal Group” Hyung-Wook Yu, Byung-Soon Kim, and Shinya Matsumoto, *J. Jpn. Soci. Colour Mater.*, 89, 11, 380 (2016).
86. “Legitimate Intermediates of Oxygen Evolution on Iridium Oxide Revealed by In-situ Electrochemical Evanescent Wave Spectroscopy” Hideshi Ooka, Yuanqing Wang, Akira Yamaguchi, Makoto Hatakeyama, Shinichiro Nakamura, Kazuhito Hashimoto, and Ryuhei Nakamura, *Phys. Chem. Chem. Phys.*, 18, 15199, (2016).
87. “Element strategy of oxygen evolution electrocatalysis based on in situ spectroelectrochemistry” Hideshi Ooka, Toshihiro Takashima, Akira Yamaguchi, Toru Hayashi, and Ryuhei Nakamura, *Chem. Comm.*, 53, 7149 (2017).
88. “Effect of alkoxy side chain length on the solid-state fluorescence behavior of bisazomethine dyes possessing dipropylamino terminal group” Hyung-Wook Yu, Byung-Soon Kim, and Shinya Matsumoto, *Dyes Pigm.*, 136, 131 (2017).
89. “Dynamic Analysis of Adsorption-Desorption Equilibrium of Sublimed Aromatic Molecules Using Polarized Optical Waveguide Spectroscopy” Hiromi Takahashi, Kyoko Fujita, and Hiroyuki Ohno, *Anal. Sci.*, 33-4, 465 (2017).
90. “Tuning of fluorescence efficiency via local modification of the crystal structure by benzyl groups in polymorphs of a pyrazine dye” Yoko Akune, Risa Hirosawa, Natsuko Endo, Sayumi Hatano, Takuya Hosokai, Hiroyasu Sato, and Shinya Matsumoto, *Cryst. Eng. Comm.*, 19, 1947 (2017).
91. “A variety of solid-state fluorescence properties of pyrazine dyes depending on terminal substituents” Risa Hirosawa, Yoko Akune, Natsuko Endo, Sayumi Hatano, Takuya Hosokai, Hiroyasu Sato, and Shinya Matsumoto, *Dyes Pigm.*, 146, 576 (2017).
92. “Efficiency of Oxygen Evolution on Iridium Oxide Determined from the pH Dependence of Charge Accumulation” Hideshi Ooka, Akira Yamaguchi, Toshihiro Takashima, Kazuhito Hashimoto, and Ryuhei Nakamura, *J. Phys. Chem. C*, 121(33), 17873 (2017).
93. “Separation and Detection of Hydrocarbons and Gasoline in Automotive Engine Oil Using Teflon® AF2400-coated Gold-deposited Surface Plasmon Resonance-based Glass Rod Sensor” Masaru Mitsushio, Ei Uchiyama, Ryoji Kajiya, Toshifumi Yoshidome, Sadafumi Nakatake and Morihide Higo, *Anal. Sci.*, 34, 1085 (2018).
94. “Interpretation of Absorption Spectra of Bisazomethine Dyes in a Crystalline State in terms of Conformational Change and Excitation Interaction” Naho Takayanagi, Takumi Jindo, Byung-Soon Kim, Young-A Son, Sung-Hoon Kim and Shinya Matsumoto, *Bull. Chem. Soc. Jpn.*, 1498, (2018).
95. “Europium Amphiphilic Naphthalene based Complex for the Enhancement of Linearly Polarized Luminescence in Langmuir-Blodgett Films” Koushi Yoshihara, Masamichi Yamanaka, Shuhei Kanno, Souichi Mizushima, Junko Tsuchiyagaito, Kazuki Kondo, Takahiro Kondo, Daichi Iwasawa, Hiroaki Komiya, Akira Saso, Shogo Kawaguchi, Kenta Goto, Shuhei Ogata, Hiromi Takahashi, Ayumi Ishii and Miki Hasegawa, *New Journal of Chemistry*, 43, 6472, (2019).
96. “Lanthanide-Oligomeric Brush Films: From Luminescence Properties to Structure Resolution” Nicolas Marets, Shuhei Kanno, Shuhei Ogata, Ayumi Ishii, Shogo Kawaguchi and Miki Hasegawa, *ACS Omega*, 4, 15512, (2019).

## List of Publications (International meetings include) 3/6/2020

97. "Dendrimer-templated Synthesis and Characterization of Oxide Quantum Dots Deposited on Silica Glass Substrate" Yusuke Inomata, Ken Albrecht, Naoki Haruta and Kimihisa Yamamoto, *Chem. Mater.*, 31, 20, 8373, (2019).
98. "Bioinspired supermolecular nanosheet of zinc chlorophyll assemblies" Sunao Shoji, Tetsuya Ogawa, Shogo Matsubara and Hitoshi Tamiaki, *Sci. Rep.*, 9, 14006, (2019).
99. "Synthesis and properties of liquid pyrazine dyes" Jae-Young Lee, Tetsuya Aoyama, Masanobu Uchiyama, Shinya Matsumoto, *Dyes Pigm.*, 8, 108030, (2019).