

List of Publications (national meetings include) 1/8/2016

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 Kurusu, *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, Masatsugu Shimomura, *Asia Nano 2002 proceedings*, 163 (2002).
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10. "Electrochemical Doping of Protonated Meso-tetrakis (sulfothieryl) 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 Tanuma, Kyoko Fujita, 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, 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, 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, Fumiyo Kusu, *Talanta*, 65, 1120 (2005).
19. "Crystal Structure of Light-Induced Colored Species from Photochromic Dimer of

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- 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, 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, Haruo Inoue, *International Symposium on Physics and Chemistry of Smectites*, 72 (2005).
 22. “In situ observation of ferroin/ferriin during electrolysis on ITO by slab optical waveguide spectroscopy” K. Takahashi ; K. 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” K. Tamura ; M. Araki ; H. Ohno, *Pacificchem 2005, Abstract Central*, (2005).
 24. “Optical Waveguide Spectroscopy (Chapter7.) / Electrochemical Aspect of Ionic Liquids” kyoko Fujita and Hiroyuki Ohono, edit by Hiroyuki Ohono, *Wiley-Blackwell*, ISBN:9780471648512, (2005).
 25. “In Situ Observation of Ferroin and Ferriin 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).
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 30. “Multicolor Chemiluminescent Boron-dipyrromethenes” Koji Yamada, Akemi Sato, and Koji Suzuki, *IIIst IUPAC SYMPOSIUM ON PHOTOCHEMISTRY Abstracts*, 299 (2006).
 31. “Photoinduced Electron Transfers between Cationic Porphyrins and MV²⁺ within Titania Nano-Sheets and the Cubic Mesoporous Interface” Takuya Hirano, Atsushi Yamauchi, Tatsuto Yui, Tsukasa Torimoto, 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, 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” M. Kunieda, H. 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).
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 37. “Spectroscopic Analysis Native Cytochrome c in Dry Ionic Liquids” K. Tamura, H. Ohno, *Proceedings of the 9th International Symposium on Polymers for Advanced technologies*, 157 (2007).

List of Publications (national meetings include) 1/8/2016

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" M. Kunieda, H. Tamiaki, *J. Org. Chem.*, 72, 2443 (2007).
40. "Crystallization and Aggregation Processes of Vacuum-Evaporated TPD Films" Masaru Nagai, Hisakazu Nozoye, *J. Electrochem. Soc.*, 154, 8, J239 (2007).
41. "Aryl-Substituted C₃-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).
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46. "Immobilization of gold nanoparticles on optical waveguides with organosilane monolayer" Takuya Nakanishi, Harumi Takada, Hironori Iida, Mayuki Kajiura and Tetsuya Osaka, *J. Colloids and Surfaces A*, 313-314, 234 (2008).
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48. "Broadband Plasmon Waveguide Resonance Spectroscopy for Probing Biological Thin Films" Han Zhang, Kristina Orosz, Hiromi Takahashi, 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 Kajiura, Takuya Nakanishi, Hironori Iida, Harumi Takada and Tetsuya Osaka, *J. Colloid Interface Sci.*, 335, 1, 140 (2009).
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List of Publications (national meetings include) 1/8/2016

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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, Kazuyuki Ishii, *Angew. Chem., Int. Ed.* 50-39, 9137 (2011).
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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 Shinsuke Takagi, *J. Phys. Chem. C*, 117(18), 9245 (2013).

List of Publications (national meetings include) 1/8/2016

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