

Curriculum Vitae

Personal Data:

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Education:

1998-2002	B.S., (Chemistry), Osaka University, Japan
2002-2004	M.S., (Chemistry), Osaka University, Japan
2004-2007	Ph.D., (Chemistry), Osaka University, Japan

Research Experience:

04/2001-03/2002	Bachelor thesis in organic chemistry supervised by Prof. Yoshiteru Sakata and Associate Prof. Takahiro Kaneda, the Institute of Scientific and Industrial Research, Osaka University, Japan. Title: “ <i>Synthesis and Self-Assembly of Bis- and Tris-Azo Dye-modified Permethyated α-Cyclodextrins</i> ”
04/2002-03/2004	Master thesis in organic chemistry supervised by Prof. Yoshio Aso and Associate Prof. Takahiro Kaneda, the Institute of Scientific and Industrial Research, Osaka University, Japan. Title: “ <i>Supramolecular Self-Assemblies of Novel Azo Dye-modified Permethyated Cyclodextrins</i> ”
04/2004-03/2007	PhD thesis in organic photochemistry supervised by Prof. Yoshihisa Inoue, Department of Applied Chemistry, Osaka University, Japan. Title: “ <i>Studies on Entropy-Controlled Supramolecular Photochirogenesis with Synthetic and Modified Chiral Hosts</i> ”

04/2007-03/2008	Post-doc fellow supervised by Timothy M. Swager, Department of Chemistry and Institute for Soldier Nanotechnologies, Massachusetts Institute of Technology (MIT), USA. Title: <i>“Chemical Sensors Based on Single-Walled Carbon Nanotube Coated with Polythiophenes”</i>
04/2008-03/2017	Assistant Professor, Researcher and Research Supervisor. Title: <i>“Supramolecular Sensing and Photochemistry with Functional Chiral Polymers”</i>
04/2017-present	Associate Professor, Researcher and Research Supervisor. Title: <i>“Supramolecular Allosteric Amplification-Sensing”</i>
10/2017-3/2021	JST-PRESTO Researcher. Title: <i>“Allosteric Signal-Amplification Sensing”</i>

Membership in Academic Societies:

The Chemical Society of Japan
The Japan Society for Analytical Chemistry
Japanese Cancer Association
The Japanese Photochemistry Association
The Society of Polymer Science, Japan
The Society of Synthetic Organic Chemistry, Japan

Principal Research Interests:

Analytical Chemistry, Supramolecular Chemistry, Molecular and Chiral Recognition,
Polymer Chemistry, Polysaccharide Chemistry, Sensor Technology

Publications:

- 1) **Fukuhara, G.*** *et al.* [submitted](#).
- 2) Kinoshita, T.; Watanabe, K.; Tsurumaki, E.; Toyota, S.*; **Fukuhara, G.***: Pseudohelicene chemosensor displaying ternary signaling stimulated by hydrostatic Pressure and solvent, *Chem. Commun.* [accepted](#).
- 3) Motoori, J.; Kinoshita, T.; Chai, H.; Li, M.-S.; Wang, S.-M.; Jiang, W.; **Fukuhara, G.***: Dynamic Control of Chiral Recognition in Water-Soluble Naphthotubes Induced by Hydrostatic Pressure, *ACS Nanoscience Au* [in press](#). [\[Front Cover\]](#)
- 4) Matsumoto, K.; Nakagawa, K.; Asanuma, D.; **Fukuhara, G.***: Recent advances in cancer detection using dynamic, stimuli-responsive supramolecular chemosensors. a focus review, *Front. Chem.* **2024**, *12*, 1478034. [\[Mini Review\]](#)
- 5) Kinoshita, T.; Sakamaki, D.*; **Fukuhara, G.***: Multi-dimensional Dynamic Control of Supramolecular Phthalocyanine Gear: A Self-assembly System Responding to Solvent, Temperature, and Hydrostatic Pressure, *ACS Omega* **2024**, *9*, 34719-34724. [\[Supplementary Cover\]](#)
- 6) Ono, S.; Kinoshita, T.; Iwasaki, H.; Imai, Y.; **Fukuhara, G.***: Ratiometric Chemosensors That Are Capable of Quantifying Hydrostatic Pressure Stimulus: A Case of Porphyrin Tweezers, *ACS Phys. Chem Au* **2024**, *4*, 510-521. [\[Front Cover\]](#)
- 7) Mizuno, H.; Nakazawa, H.; Miyagawa, A.; Yakiyama, Y.; Sakurai, H.*; **Fukuhara, G.***: Amplification sensing manipulated by a sumanene-based supramolecular polymer as a dynamic allosteric effector, *Sci. Rep.* **2024**, *14*, 12534. [\[Press Release\]](#) [\[Eurekalert\]](#)
- 8) Norikuni, M.; Hori, Y.; Numata, M.; Matsusaki, M.; Kida, T.; **Fukuhara, G.***: Fluorophore-Probed Curdlan Polysaccharide Chemosensor: “Turn-On” Oligosaccharide Sensing in Aqueous Media, *ACS Omega* **2024**, *9*, 22345-22351.
- 9) Morita, F.; Kishida, Y.; Sato, Y.; Sugiyama, H.; Abekura, M.; Nogami, J.; Toriumi, N.; Nagashima, Y.; Kinoshita, T.; **Fukuhara, G.**; Uchiyama, M.; Uekusa, H.; Tanaka, K.*: Design and enantioselective synthesis of 3D π -extended carbohelicenes for circularly polarized luminescence, *Nat. Synth.* DOI: 10.1038/s44160-024-00527-3
- 10) Kurohara, H.; Hori, Y.; Numata, M.; **Fukuhara, G.***: Fluorophore-glucan conjugate for oligosaccharide sensing in aqueous media, *Polym. J.* **2024**, *56*, 473-480.
- 11) Wakako, S.; Hori, Y.; Kinoshita, T.; Saiki, T.; Qi, X.; Hasegawa, K.; Imai, Y.; Mori, T.; Nakagawa, K.; **Fukuhara, G.***: Pressure-Responsive Polymer Chemosensors for Hydrostatic-Pressure-Signal Detection: Poly-L-Lysine-Pyrene Conjugates, *ACS*

- Macro Lett.* **2023**, *12*, 1389-1395. [\[Supplementary Cover\]](#) (*ChemRxiv* doi: 10.26434/chemrxiv-2023-ft59l)
- 12) Mizuno, H.; Nakazawa, H.; Harada, M.; Yakiyama, Y.; Sakurai, H.*; **Fukuhara, G.***: Sumanene-stacked supramolecular polymers. Dynamic, solvation-directed control, *Chem. Commun.* **2023**, *59*, 9595-9598. [\[Outside Back Cover\]](#) (*ChemRxiv* doi: 10.26434/chemrxiv-2023-d97rm)
 - 13) Nishi, R.; Ishida, Y.; Mizuno, H.; Kawauchi, S.; **Fukuhara, G.***: Allosteric Signal-Amplification Sensing of Peptides with Cyclodextrin-Polymer Conjugates in Aqueous Media, *ACS Appl. Polym. Mater.* **2023**, *5*, 3653-3660.
 - 14) Kinoshita, T.; Nakamura, S.; Harada, M.; Hasobe, T.*; **Fukuhara, G.***: Control of intramolecular singlet fission in a pentacene dimer by hydrostatic pressure, *Chem. Sci.* **2023**, *14*, 3293-3301. [\[Press Release\]](#) [\[Selected in 2023 most popular materials chemistry article collection\]](#) [\[Highlighted in Chem-Station\]](#) [\[EurekaAlert\]](#)
 - 15) Kurohara, H.; Hori, Y.; Numata, M.; **Fukuhara, G.***: Oligosaccharide Sensing Using Fluorophore-Probed Curdlans in Aqueous Media, *ACS Appl. Polym. Mater.* **2023**, *5*, 2254-2263.
 - 16) Suzuki, S.; Homma, A.; Nishi, R.; Mizuno, H.; Kawauchi, S.; **Fukuhara, G.***: A Dynamically Responsive Chemosensor That Can be Modulated by an Effector: Amplification Sensing by Positive Heterotropic Allosterism, *Bull. Chem. Soc. Jpn.* **2022**, *95*, 1183-1189. [\[Selected Paper\]](#)
 - 17) Mizuno, H.; **Fukuhara, G.***: Solution-State Hydrostatic Pressure Chemistry: Application to Molecular, Supramolecular, Polymer, and Biological Systems, *Acc. Chem. Res.* **2022**, *55*, 1748-1762. [\[Review\]](#) [\[Supplementary Cover\]](#)
 - 18) Kinoshita, T.; Fujise, K.; Tsurumaki, E.; Toyota, S.*; **Fukuhara, G.***: A pressure-induced ratiometric signalling chemosensor: a case of helical anthracenes, *Chem. Commun.* **2022**, *58*, 3290-3293. [\[2022 Pioneering Investigators\]](#)
 - 19) Nakasha, K.; **Fukuhara, G.***: Dynamic hybridization of fluorescence polymers upon complexation of glucan, *J. Photochem. Photobiol. A: Chem.* **2022**, *426*, 113736.
 - 20) Tsuchiya, T.; Mizuno, H.; **Fukuhara, G.***: The factors that govern the allosteric chemical sensing of polythiophene chemosensors: scope and limitation toward signal-amplification sensing, *RSC Adv.* **2021**, *11*, 30472-30478.
 - 21) **Fukuhara, G.***: Smart polymer chemosensors: Signal-amplification systems with allosterism, *Polym. J.* **2021**, *53*, 1325-1334. [\[Review\]](#)
 - 22) Matoba, S.; Kanzaki, C.; Yamashita, K.; Kusukawa, T.; **Fukuhara, G.**; Okada, T.;

- Narushima, T.; Okamoto, H.; Numata, M.*: Directional Supramolecular Polymerization in a Dynamic Microsolution: A Linearly Moving Polymer's End Striking Monomers, *J. Am. Chem. Soc.* **2021**, *143*, 8731-8746.
- 23) Kinoshita, T.; Imai, Y.*; **Fukuhara, G.***: Hydrostatic Pressure-Controllable Chiroptical Properties of Chiral Perylene Bisimide Dyes: A Chiral Aggregation Case, *J. Phys. Chem. B* **2021**, *125*, 5952-5958. [\[Supplementary Cover\]](#)
- 24) Kinoshita, T.; Haketa, Y.; Maeda, H.*; **Fukuhara, G.***: Ground- and excited-state dynamic control of an anion receptor by hydrostatic pressure, *Chem. Sci.* **2021**, *12*, 6691-6698. [\[Press Release\]](#) [\[Highlighted in Chem-Station\]](#) [\[Eurekalert\]](#)
- 25) Kanzaki, C.; Matoba, S.; Inagawa, A.; **Fukuhara, G.**; Okada, T.; Narushima, T.; Okamoto, H.; Numata, M.*: Linear Momentum of a Microfluid Realizes an Anisotropic Reaction at the Ends of a Supramolecular Nanofiber, *Bull. Chem. Soc. Jpn.* **2021**, *94*, 579-589.
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- 27) Miyagawa, A.*; **Fukuhara, G.**; Okada, T.*: Acid dissociation under hydrostatic pressure: Structural implications for volumetric parameters. *J. Mol. Liq.* **2021**, *328*, 115512 (1-7).
- 28) Yao, J.; Mizuno, H.; Xiao, C.; Wu, W.; Inoue, Y.*; Yang, C.*; **Fukuhara, G.***: Pressure-driven, solvation-directed planar chirality switching of cyclophano-pillar[5]arenes (molecular universal joints), *Chem. Sci.* **2021**, *12*, 4361-4366. [\[Hot Article\]](#)
- 29) Kanzaki, C.; Inagawa, A.; **Fukuhara, G.**; Okada, T.; Numata, M.*: Proton-Gradient-Driven Self-Assembly of Porphyrin and In Situ Dynamic Analysis in a Microflow Platform, *ChemSystemsChem* **2020**, *2*, e2000006 (1-10) [\[Front Cover\]](#)
- 30) Fukuchi, M.; Oyama, K.*; Mizuno, H. Miyagawa, A.; Koumoto, K.; **Fukuhara, G.***: Hydrostatic Pressure-Regulated Cellular Calcium Responses, *Langmuir* **2021**, *37*, 820-826. [\[Supplementary Cover\]](#)
- 31) Miyagawa, A.; Yoneda, H.; Mizuno, H.; Numata, M.; Okada, T.; **Fukuhara, G.***: Hydrostatic-Pressure-Controlled Molecular Recognition: A Steroid Sensing Case Using Modified Cyclodextrin, *ChemPhotoChem* **2021**, *5*, 118-122.
- 32) Tsuchiya, T.; **Fukuhara, G.***: Allosteric Signal Amplification Sensing Using a Bisthiourea-Binaphthyl-Polythiophene Conjugate: A Positive Homotropic Allostereism Case, *J. Org. Chem.* **2020**, *85*, 13239-13245. [\[Supplementary Cover\]](#)

- 33) Miyagawa, A.*; Kinoshita, T.; Zheng, Y.; Harada, M.; **Fukuhara, G.***; Okada, T.*: Multiphase Behavior of Tetraphenylethylene Derivatives with Different Polarities at High Pressures, *J. Phys. Chem. B* **2020**, *124*, 7263-7271.
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- 36) Mizuno, H.; Kitamatsu, M.; Imai, Y.*; **Fukuhara, G.***: Smart Fluorescence Materials that Are Controllable by Hydrostatic Pressure: Peptide-Pyrene Conjugates, *ChemPhotoChem* **2020**, *4*, 502-507. [\[Front Cover\]](#)
- 37) Muto, T.; Harada, M.; **Fukuhara, G.**; Okada, T.*: Ice Confinement-Induced Solubilization and Aggregation of Cyanonaphthol Revealed by Fluorescence Spectroscopy and Lifetime Measurements, *J. Phys. Chem. B* **2020**, *124*, 3734-3742.
- 38) Miyagawa, A.; Harada, M.; **Fukuhara, G.**; Okada, T.*: Space Size-Dependent Transformation of Tetraphenylethylene Carboxylate Aggregates by Ice Confinement, *J. Phys. Chem. B* **2020**, *124*, 2209-2217.
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- 40) **Fukuhara, G.***: Analytical supramolecular chemistry: colorimetric and fluorimetric chemosensors, *J. Photochem. Photobiol. C: Photochem. Rev.* **2020**, *42*, 100340. [\[Review\]](#)
- 41) Miyagawa, A.; Eng, J.*; Okada, T.; Inoue, Y.; Penfold, T.; **Fukuhara, G.***: Hydrostatic Pressure-Induced Spectral Variation of Reichardt's Dye: A Polarity/Pressure Dual Indicator, *ACS Omega* **2020**, *5*, 897-903. [\[Supplementary Cover\]](#)
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- 43) Iwasaki, T.*; Murakami, S.; Takeda, Y.; **Fukuhara, G.**; Tohnai, N.; Yakiyama, Y.; Sakurai, H.; Kambe, N.*: Molecular Packing and Solid-State Photophysical Properties of 1,3,6,8-Tetraalkylpyrenes, *Chem. Eur. J.* **2019**, *25*, 14817-14825. [\[Cover Picture\]](#)

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- 46) Ji, J.; Wu, W.; Liang, W.; Cheng, G.; Matsushita, R.; Yan, Z.; Wei, X.; Rao, M.; Yuan, D.-Q.*; **Fukuhara, G.**; Mori, T.; Inoue, Y.*; Yang, C.*: An Ultimate Stereocontrol in Supramolecular Photochirogenesis: Photocyclodimerization of 2-Anthracenecarboxylate Mediated by Sulfur-Linked β -Cyclodextrin Dimers, *J. Am. Chem. Soc.* **2019**, *141*, 9225-9238.
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- 48) **Fukuhara, G.***: Allosteric signal-amplification sensing with polymer-based supramolecular hosts, *J. Incl. Phenom. Macrocycl. Chem.* **2019**, *93*, 127-143. [Review]
- 49) Ishikawa, H.; Chung, T. S.; **Fukuhara, G.**; Shigemitsu, H.; Kida, T.; Bach, T.; Mori, T.*: Diastereoselective Photocycloaddition Reaction of Vinyl Ether Tethered to 1,4-Naphthoquinone, *ChemPhotoChem* **2019**, *3*, 243-250.
- 50) Sasaki, M.; Ryoson, Y.; Numata, M.; **Fukuhara, G.***: Oligosaccharide Sensing in Aqueous Media Using Porphyrin-Curdlan Conjugates: An Allosteric Signal-Amplification System, *J. Org. Chem.* **2019**, *84*, 6017-6027. [ACS Editors' Choice] [Supplementary Cover]
- 51) Kosaka, T.; Iwai, S.; **Fukuhara, G.***; Imai, Y.; Mori, T.*: Hydrostatic Pressure on Toroidal Interaction and Propeller Chirality of Hexaarylbenzenes: Explicit Solvent Effects on Differential Volumes in Methylcyclohexane and Hexane, *Chem. Eur. J.* **2019**, *25*, 2011-2018.
- 52) Sagara, Y.*; Tamaoki, N.; **Fukuhara, G.***: Cyclophane-Based Fluorescence Tuning Induced by Hydrostatic Pressure Changes, *ChemPhotoChem* **2018**, *2*, 959-963.
- 53) Ishida, Y.; **Fukuhara, G.***: Efficient Cleavage of Permethylated Cyclodextrins, *ACS Omega* **2018**, *3*, 6279-6282.
- 54) Konishi, A.*; Morinaga, A.; **Fukuhara, G.**; Nishijima, M.; Mori, T.; Kida, T.; Yasuda, M.*: 1,8-Diphenyl-9,10-Bis(arylethynyl)phenanthrenes: Synthesis, Distorted Structure, and Optical Properties, *Chem. Eur. J.* **2018**, *24*, 6625-6631.

- 55) Wei, X.[#]; Wu, W.[#]; Matsushita, R.[#]; Yan, Z.[#]; Zhou, D.; Chruma, J. J.; Nishijima, M.; **Fukuhara, G.**; Mori, T.; Inoue, Y.*; Yang, C.* (# Equal contributions): Supramolecular Photochirogenesis Driven by Higher-Order Complexation: Enantiodifferentiating Photocyclodimerization of 2-Anthracenecarboxylate to Slipped Cyclodimers via a 2:2 Complex with β -Cyclodextrin, *J. Am. Chem. Soc.* **2018**, *140*, 3959-3974.
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[Inside Cover]
- 57) Yao, J.[#]; Wu, W.[#]; Liang, W.; Feng, Y.; Zhou, D.; Chruma, J. J.; **Fukuhara, G.**; Mori, T.; Inoue, Y.; Yang, C.* (# Equal contributions): Temperature-Driven Planar Chirality Switching of a Pillar[5]arene-based Molecular Universal Joint, *Angew. Chem. Int. Ed.* **2017**, *56*, 6869-6873.
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[Special Issue as Guest Editor]
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