

Publication List

- 1) Introducing a π -Skeleton Perpendicular to the Central Methylene Carbon in Alkanediamides: Design of Supramolecular Polymers with an Offset π -Stacking Arrangement
Y. Hamada, S. Ogi,* S. Yamaguchi*
Angew. Chem. Int. Ed., **63**, e202409657 (2024).
- 2) Biomimetic Design of a Robustly Stabilized Folded State Enabling Seed-Initiated Supramolecular Polymerization under Microfluidic Mixing
S. Ogi,* A. Takamatsu, K. Matsumoto, S. Hasegawa, S. Yamaguchi*
Angew. Chem. Int. Ed., **62**, e202306428 (2023).
- 3) Amphiphile Desymmetrisation-Induced Steric Relief Governs Self-assembly Pathways in Aqueous Media
N. Bäumer, S. Ogi, L. Borsdorf, S. Yamaguchi,* G. Fernández*
Chem. Commun., **59**, 8937–8940 (2023).
- 4) Impact of Hydrophobic/Hydrophilic Balance on Aggregation Pathways, Morphologies, and Excited-State Dynamics of Amphiphilic Diketopyrrolopyrrole Dyes in Aqueous Media
N. Fukaya, S. Ogi,* H. Sotome, K. J. Fujimoto, T. Yanai,* N. Bäumer, G. Fernández, H. Miyasaka,* S. Yamaguchi*
J. Am. Chem. Soc., **144**, 22479–22492 (2022).
- 5) Diazulenylmethyl Cations with a Silicon Bridge: A π -Extended Cationic Motif to Form *J*-Aggregates with Near-Infrared Absorption and Emission
M. Murai,* M. Abe, S. Ogi, S. Yamaguchi*
J. Am. Chem. Soc., **144**, 20385–20393 (2022)
- 6) Fully Fused Boron-doped Polycyclic Aromatic Hydrocarbons: Their Synthesis, Structure–property Relationships, and Self-assembly Behavior in Aqueous Media
H. Narita, H. Choi, M. Ito, N. Ando, S. Ogi, S. Yamaguchi*
Chem. Sci., **13**, 1484–1491 (2022).
- 7) A Supramolecular Polymer Constituted of Antiaromatic Ni(II) Norcorroles
S. Ukai, A. Takamatsu, M. Nobuoka, Y. Tsutsui, N. Fukui, S. Ogi,* S. Seki,* S. Yamaguchi,* H. Shinokubo*
Angew. Chem. Int. Ed., **60**, e202114230 (2021).
- 8) Dual Trapping of a Metastable Planarized Triarylborane π -System Based on Folding and Lewis Acid–Base Complexation for Seeded Polymerization
H. Choi, S. Ogi,* N. Ando, S. Yamaguchi*
J. Am. Chem. Soc., **143**, 2953–2961 (2021).
- 9) Hydrophobicity-driven Folding and Seeded Polymerization of Cystine-based Dimeric Diamides in Aqueous Media
N. Fukaya, S. Ogi,* M. Kawashiro, S. Yamaguchi*
Chem. Commun., **56**, 12901–12904 (2020).

Highlighted as a Front Cover

Selected as a HOT Article

- 10) Long-lived charge transfer state from B-N frustrated Lewis pairs enchainned in supramolecular copolymers
B. Adelizzi, P. Chidchob, N. Tanaka, B. A.G. Lamers, S. C. J. Meskers, S. Ogi, A. R. A. Palmans, S. Yamaguchi,* E. W. Meijer*
J. Am. Chem. Soc., **142**, 16681–16689 (2020).
- 11) Hydrophobicity and CH/π-interaction-driven self-assembly of amphiphilic aromatic hydrocarbons into nanosheets
T. Nishikawa, H. Narita, S. Ogi,* Y. Sato, S. Yamaguchi*
Chem. Commun., **55**, 14950–14953 (2019).
- 12) Seeded Polymerization of an Amide-Functionalized Diketopyrrolopyrrole Dye in Aqueous Media
S. Ogi,* N. Fukaya, Arifin, B. B. Skjelstad, Y. Hijikata, S. Yamaguchi*
Chem. Eur. J., **25**, 7303–7307 (2019).
- 13) Pathway complexity in the self-assembly of a zinc chlorin model system of natural bacteriochlorophyll J-aggregates
S. Ogi, C. Grzeszkiewicz, F. Würthner*
Chem. Sci., **9**, 2768–2773 (2018).
- 14) Seeded Polymerization through the Interplay of Folding and Aggregation of an Amino-Acid-based Diamide
S. Ogi,* K. Matsumoto, S. Yamaguchi*
Angew. Chem. Int. Ed., **57**, 2339–2343 (2018).
Selected as a Hot Paper
Highlighted as a Back Cover
Most accessed articles in February 2018
- 15) Living Supramolecular Polymerization of a Perylene Bisimide Dye into Fluorescent J-Aggregates
W. Wagner, M. Wehner, V. Stepanenko, S. Ogi, F. Würthner*
Angew. Chem. Int. Ed., **56**, 16008–16012 (2017).
Selected as a Hot Paper
- 16) Near-IR Absorbing J-Aggregate of an Amphiphilic BF₂-Azadipyrrromethene Dye by Kinetic Cooperative Self-Assembly
Z. Chen,* Y. Liu, W. Wagner, V. Stepanenko, X. Ren, S. Ogi, F. Würthner*
Angew. Chem. Int. Ed., **56**, 5729–5733 (2017).
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- 17) Impact of Alkyl Spacer Length on Aggregation Pathways in Kinetically Controlled Supramolecular Polymerization
S. Ogi, V. Stepanenko, J. Thein, F. Würthner*
J. Am. Chem. Soc., **138**, 670–678 (2016).
- 18) Mechanism of Self-Assembly Process and Seeded Supramolecular Polymerization of Perylene Bisimide Organogelator
S. Ogi, V. Stepanenko, K. Sugiyasu, M. Takeuchi, F. Würthner*
J. Am. Chem. Soc., **137**, 3300–3307 (2015).

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Angew. Chem. Int. Ed., **54**, 8334 (2015).

- 19) Kinetic Control over Pathway Complexity in Supramolecular Polymerization through Modulating the Energy Landscape by Rational Molecular Design

S. Ogi, T. Fukui, M. L. Jue, M. Takeuchi,* K. Sugiyasu*

Angew. Chem. Int. Ed., **53**, 14363–14367 (2014).

Highlighted in NIMS Press Release

Highlighted in News Paper: 日刊工業新聞(11月28日27面); 科学新聞(12月19日4面)

- 20) Conductive Poly(2,5-substituted aniline)s Highly Soluble both in Water and Organic Solvents

S. Xu, S. Ogi, K. Sugiyasu, S. Sumi, Y. Kobayashi, M. Takeuchi*

J. Nanosci. Nanotechnol., **14**, 4449–4454 (2014).

- 21) Living supramolecular polymerization realized through a biomimetic approach

S. Ogi, K. Sugiyasu,* S. Manna, S. Samitsu, M. Takeuchi*

Nat. Chem., **6**, 188–195 (2014).

Highlighted in News and Views of the issue: Living it up. *Nat. Chem.*, **6**, 171 (2014).

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- 22) Synthesis of Polyaniline with Low Polydispersity by Using a Supramolecular Ionic Assembly as the Reaction Medium

S. Xu, S. Das, S. Ogi, K. Sugiyasu, H. Okazaki, Y. Takano, T. Yasuda, K. Deguchi, S. Ohki, T. Shimizu, M. Takeuchi*

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- 23) Stimuli-Responsive Folding and Unfolding of a Polymer Bearing Multiple Cerium(IV)

Bis(porphyrinate) Joints: Mechano-imitation of the Action of a Folding Ruler

M. Shibata, S. Tanaka, T. Ikeda, S. Shinkai,* K. Kaneko, S. Ogi, M. Takeuchi*

Angew. Chem. Int. Ed., **52**, 397–400 (2013).

- 24) Synthetic Molecular Gear Based on Double-Decker Porphyrin Complexes

S. Ogi, T. Ikeda, M. Takeuchi*

J. Inorg. Organomet. Polym., **23**, 193–199 (2013).

- 25) Synthesis and Fluorescence Resonance Energy Transfer Properties of an Alternating Donor-Acceptor Copolymer Featuring Orthogonally Arrayed Transition Dipoles along the Polymer Backbone

S. Ogi, K. Sugiyasu,* M. Takeuchi*

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- 26) Oligofluorene-based nanoparticles in aqueous medium: hydrogen bond assisted modulation of functional properties and color tunable FRET emission

B. Balan, C. Vijayakumar, S. Ogi, M. Takeuchi*

J. Mater. Chem., **22**, 11224–11234 (2012).

- 27) Synthesis of Self-Threading Bithiophenes and their Structure-Property Relationships Regarding Cyclic Sidechains with Atomic Precision
Y. Ouchi, K. Sugiyasu,* S. Ogi, A. Sato, M. Takeuchi*
Chem. Asian. J., **7**, 75–84 (2012).
- 28) Mechanically Interlocked Porphyrin Gears Propagating Two Different Rotational Frequencies
S. Ogi, T. Ikeda, R. Wakabayashi, S. Shinkai, M. Takeuchi*
Eur. J. Org. Chem., 1831–1836 (2011).
- 29) Synthesis of a Doubly Strapped Light-Harvesting Porphyrin Bearing Energy Donor Molecules Hanging on to the Straps: An Attempt toward Macroscopic Control over Molecular Conformation that Affects the Efficiency of Fluorescence Resonance Energy Transfer
S. Ogi, K. Sugiyasu,* M. Takeuchi*
Bull. Chem. Soc. Jpn., **84**, 40–48 (2011).
Highlighted as Selected Papers
- 30) A Bevel-Gear-Shaped Rotor Bearing a Double-Decker Porphyrin Complex
S. Ogi, T. Ikeda, R. Wakabayashi, S. Shinkai,* M. Takeuchi*
Chem. Eur. J., **16**, 8285–8290 (2010).
Highlighted in Chemistry World: “Molecular machines shift into gear” June (2010).

Accounts and Reviews

- 1) Perylene Bisimide Dye Assemblies as Archetype Functional Supramolecular Materials
F. Würthner,* C. R. Saha-Möller, B. Fimmel, S. Ogi, P. Leowanawat, D. Schmidt
Chem. Rev., **116**, 962–1052 (2016).
- 2) Strapped porphyrin-based polymeric systems
K. Sugiyasu,* S. Ogi, M. Takeuchi
Poly. J., **46**, 674–681 (2014).

著書・解説記事

- 1) 触媒／光増感剤ブレンドファイバー状集合体
大城宗一郎
化学 (6月号), 76, 63–64 (2021), 化学同人発行.
- 2) 会合様式と吸収・蛍光スペクトル
大城宗一郎
超分子ポリマー, CSJカレントレビュー33 (日本化学会編), Part I 4章, 50–52 (2019), 化学同人発行.
- 3) 「超分子ポリマーを精密につくる」ヴェルツブルク大学・Würthner研より
大城宗一郎
Chem-Station 海外研究記, 第11回 (2017/3/21).

- 4) アミロイド線維のように成長する超分子集合体：メカニズムの解明と時間発展プログラム
福井智也, 大城宗一郎, 竹内正之, 杉安和憲
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- 5) リビング超分子重合の実現
杉安和憲, 大城宗一郎, 竹内正之
高分子, **63**, 851–854 (2014), 高分子学会発行.