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Curriculum vitae

Education

- 2016.3 **B.S., Engineering**, Faculty of Engineering, Kyushu University (Prof. Takuma Yasuda's Group)
- 2018.3 **M.S., Engineering**, Graduate School of Engineering, Kyushu University (Prof. Takuma Yasuda's Group)
- 2021.3 **Ph.D., Engineering**, Graduate School of Engineering, Kyushu University (Prof. Takuma Yasuda's Group)

Fellowships

- 2017.2–2017.3 NIMS (National Institute for Material Science) Internship Program Fellowship (Dr. Takashi Nakanishi's Group)
- 2018.4–2021.3 JSPS (Japan Society for the Promotion of Science) Young Scientist Fellowship (Prof. Takuma Yasuda's Group)

Academic Career

- 2021.3–2021.11 **Postdoctoral Researcher**, Graduate School of Engineering, Kyushu University (Prof. Takuma Yasuda's Group)
- 2021.12–2023.3 **Postdoctoral Researcher**, Graduate School of Science, Nagoya University (Prof. Shigehiro Yamaguchi's Group)
- 2023.4–2026.3 **Designated Assistant Professor**, Institute of Transformative Bio-Molecules (ITbM), Nagoya University (Prof. Shigehiro Yamaguchi's Group)
Cross-appointment Designated Assistant Professor, Institute for Materials Chemistry and Engineering (IMCE), Kyushu University (Prof. Katsuhiko Tomooka's Group)

Publications

1. S. Ishihara,* Avijit Ghosh, T. Mori, M. K. Chahal, D. T. Payne, A. Saeki, T. Hyakutake, and T. Nakanishi* “Luminescent core-isolated solvent-free liquids as a soft material platform for optical gas sensing” *Chem. Sci.* **2026**, *17*, 5934–5943.
2. T. Mori,* Y. Sano, T. Ikai,* Y. Kawasaki, K. Tomooka,* T. Sasamori, and S. Yamaguchi* “Dual Circular Polarized Luminescence from Chiral Boron-Embedded Polycyclic Aromatic Hydrocarbons” *Angew. Chem. Int. Ed.* **2025**, *64*, e22746. (Selected as Very important paper and Front cover)
3. L. Lezius, E. S. Horst, M. Scherübl, J. Lammert, C. G. Daniliuc, T. Mori, S. Yamaguchi,* and A. Studer* “Reaction of Blatter and Verdazyl Radicals with Arynes: Synthesis and Investigation of N-Chiral, Antiaromatic Triazines, and Tetrazinones” *Angew. Chem. Int. Ed.* **2025**, *64*, e20021.
4. B. Basumatary, S. Yada, S. Oka, S. Mori, T. Mori, T. Abe, D. Kawaguchi, T. Yasuda,* H. Furuta,* and M. Ishida* “Transformation of Benzocorrole Isomer into Pyrrole-Containing Polycyclic Molecules via Copper-Mediated Cleavage and Annulation” *Org. Chem. Front.* **2025**, *12*, 717–724.
5. M. Kawashiro, T. Mori, M. Ito, N. Ando, and S. Yamaguchi “Photodissociative Modules that Control Dual-Emission Properties in Donor– π –Acceptor Organoborane Fluorophores” *Angew. Chem. Int. Ed.* **2023**, *62*, e202303725. (Selected as Hot Paper)
6. R. Feng, T. Mori, T. Yasuda, H. Furuta, and S. Shimizu “Panchromatic Small-Molecule Organic Solar Cells Based on a Pyrrolopyrrole Aza-BODIPY with a Small Energy Loss” *Dyes Pigm.* **2023**, *210*, 111020.
7. P. Lenz, R. Oshimizu, S. Klabunde, C. G. Daniliuc, C. Mück-Lichtenfeld, J. C. Tendyck, T. Mori, W. Uhl, M. R. Hansen, H. Eckert, S. Yamaguchi, and A. Studer “Oxy-Borylenes as Photoreductants: Synthesis and Application in Dehalogenation and Detosylation Reactions” *Angew. Chem. Int. Ed.* **2022**, *61*, e202209391.
8. T. Mori, Y. Yamaguchi, S. Kawata, and T. Yasuda “An S-Shaped Thienoacene Semiconductor Forming Unique Cruciform Lamellar Packing via a 2D Interaction Network of π -Stacking and Chalcogen Bonding” *J. Mater. Chem. C* **2021**, *9*, 13090.
9. T. Mori and T. Yasuda “U-Shaped Heteroacenes Embedded with Heavy Chalcogen Atoms (Se, Te): Unique Bilayer Self-Organization of Crooked π -Cores Enabling Efficient Charge Transport” *Adv. Electron. Mater.* **2021**, *7*, 2001052.
10. T. Menda, T. Mori, and T. Yasuda “Regiocontrolled Synthesis of Ester-Functionalized Polythiophenes via Direct Arylation Polycondensation” *Polym. J.* **2021**, *53*, 403.
11. T. Mori, H. Komiyama, T. Ichikawa, and T. Yasuda “A Liquid-Crystalline Semiconducting Polymer Based on Thienylene–Vinylene–Thienylene: Enhanced Hole Mobilities by Mesomorphic Molecular Ordering and Thermoplastic Shape-Deformable Characteristics” *Polym. J.* **2020**, *52*, 313. (2020年3月号ハイライト論文)
12. Y. Yamaguchi, Y. Kojiguchi, S. Kawata, T. Mori, K. Okamoto, M. Tsutsui, T. Koganezawa, H.

Katagiri, and T. Yasuda “Solution-Processable Organic Semiconductors Featuring S-Shaped Dinaphthothienothiophene (S-DNTT): Effects of Alkyl Chain Length on Self-Organization and Carrier Transport Properties” *Chem. Mater.* **2020**, 32, 5350. (開発した分子 S-DNTT-10 は東京化成より製品化：製品コード D5796)

13. T. Oyama, T. Mori, T. Hashimoto, M. Kamiya, T. Ichikawa, H. Komiyama, Y. S. Yang, and T. Yasuda “High-Mobility Regioisomeric Thieno[*f,f'*]bis[1]benzothiophenes: Remarkable Effect of *Syn/Anti* Thiophene Configuration on Optoelectronic Properties, Self-Organization, and Charge-Transport Functions in Organic Transistors” *Adv. Electron. Mater.* **2018**, 4, 1700390.
14. H. Komiyama, T. Oyama, T. Mori, and T. Yasuda “ π -Conjugated Naphthodithiophene Homopolymers Bearing Alkyl/Alkylthio-Thienyl Substituents: Facile Synthesis Using Hexamethylditin and Their Charge-Transport and Photovoltaic Properties” *Polym. J.* **2017**, 49, 729.
15. T. Mori, T. Oyama, H. Komiyama, and T. Yasuda “Solution-Grown Unidirectionally Oriented Crystalline Thin Films of a U-Shaped Thienoacene-Based Semiconductor for High-Performance Organic Field-Effect Transistors” *J. Mater. Chem. C* **2017**, 5, 5872.