

第2回 有機無機量子スピンサイエンス・ テクノロジー研究センター講演会

—講演概要—



- ▶ 日時：2026年6月8日（月） 15:00 ~
- ▶ 場所：総合研究棟 B棟 112室

『Photoinduced Long-Range Charge Transport in Oligomeric Electronics』

Lecturer Dr. Prakash Chandra Mondal, Associate Professor

Affiliation Department of Chemistry, Indian Institute of Technology, Kanpur

■ This talk will focus on a general discussion of molecular electronics and oligomeric electronics. A particular example, redox-active and photoactive toluidine blue O (TBO)-based molecular junctions (MJs) fabricated via electrochemical grafting, forming covalently bonded oligomeric films (2.4–24 nm) on patterned ITO substrates with varied top contacts (Cu, Au, ITO) and charge transport mechanism will be highlighted.

References

- [1] R. Gupta, J. A. Fereiro*, A. Bayat, A. Pritam, M. Zharnikov*, **P. C. Mondal***, *Nat. Rev. Chem.* **2023**, 7, 106–122.
- [2] R. Gupta, P. Jash, P. Sachan, A. Bayat, V. Singh, **P. C. Mondal***, *Angew. Chem., Int. Ed.* **2021**, 60, 26904–26921.
- [3] R. Gupta, S. Bhandari, S. Kaya, K. P. Katin, **P. C. Mondal***, *Nano Lett.* **2023**, 23, 10998–11005.

【問い合わせ先】 有機無機量子スピンサイエンス・テクノロジー研究センター（担当：神原、桑原）

連絡先：kanbara@ims.tsukuba.ac.jp, kuwabara@ims.tsukuba.ac.jp