

### **Publication of Chemistry Department 2020 to 2024**

- 1) D. C. Santra, **Sanjoy Mondal**, B. Prusti and M. Higuchi, Triple-Band Electrochromic Switching Among Visible (400–750 nm), NearIR-I (750–1000 nm), and NearIR-II (1000–1600 nm) Regions with Triple-Redox-Active Metallosupramolecular Polymers, *ACS Appl. Opt. Mater.* 2024, 2, 1117–1127
- 2) **Sanjoy Mondal**, D. C. Santra, S. Roy, Y. S. L. V. Narayana, T. Yoshida, Y. Ninomiya, and M. Higuchi, Reversible Electrochromic/Electrofluorochromic Dual Switching in Zn (II)-Based Metallo-Supramolecular Polymer Films, *ACS Appl. Mater. Interfaces* 2023, 15, 36, 42912–42919 (IF=10.38)
- 3) **Sanjoy Mondal**, S. Roy, Y. Fuji, M. Higuchi, Highly Durable Electrochromic Devices for More than 100,000 Cycles with Fe(II)-Based Metallo-Supramolecular Polymer by Optimization of the Device Conditions, *ACS Appl. Electron. Mater.* 2023, 5, 12, 6677–6685 (IF=4.8)
- 4) S. Bera, P. Das, B. Das, **Sanjoy Mondal**, P.K. Gupta, A. Bera, S. Kalimuddin, S.M. Ahamed, S. Gayen, M. Mondal, S. Malik, Charge Transport and Low-Frequency Conductance Noise in Metal-Nanoparticle Embedded One-Dimensional Conducting Polymer Nanotubes: Multiple Resistive Switching Phenomena, *Mater. Today Nano*, 2023, 22, 100312 (IF= 24.372)
- 5) D. C. Santra, **Sanjoy Mondal**, T. Yoshida, Y. Ninomiya, and M. Higuchi, Ru(II)-Based Metallo-Supramolecular Polymer with Tetrakis(*N*-methylbenzimidazolyl) bipyridine for a Durable, Nonvolatile, and Electrochromic Device Driven at 0.6 V, *ACS Appl. Mater. Interfaces* 2021, 13, 31153–31162 (IF= 10.38)
- 6) **Sanjoy Mondal**, D. C. Santra, Y. Ninomiya, T. Yoshida, and M. Higuchi, Dual-Redox System of Metallo-Supramolecular Polymers for Visible-to-Near-IR Modulable Electrochromism and Durable Device Fabrication, *ACS Appl. Mater. Interfaces*, 2020, 12, 58277–58286 (IF=10.38)
- 7) **Sanjoy Mondal**, Y. Ninomiya, and M. Higuchi, “Durable Supercapattery Film with Dual-Branched Dense Hexagonal Fe(II)-Based Coordination Nanosheets for Flexible Power Sources”, *ACS Appl. Energy Mater.* 2020, 3, 10653–10659. (IF=6.4).