Appendix I

A1.1 List of Publications

1. **Kamboj, N.**, Betal, A., Majumder, M., Sahu, S., and Metre, R. K., (2023a), "Redox Switching Behavior in Resistive Memory Device Designed Using a Solution-Processable Phenalenyl-Based Co(II) Complex: Experimental and DFT Studies", *Inorganic Chemistry*, Vol.62, No.10, pp.4170–4180.

2. **Kamboj, N.**, Dey, A., Lama, P., Majumder, M., Sengupta, S., and Metre, R. K., (2023b), "Closed-shell Phenalenyl-based Dinuclear Iron(III) Complex as a Robust Cathode for One-Compartment H_2O_2 Fuel Cell", *Dalton Transactions,* Vol.53, pp.17163-17175.

3. **Kamboj, N.**, Mali, G., Lama, P., Erande, R. D., and Metre, R. K., (2022), "Designing a Redox Noninnocent Phenalenyl-Based Copper(II) Complex: An Autotandem Catalyst for the Selective Oxidation of Polycyclic Aromatic Hydrocarbons (PAHs)", *ACS Omega*, Vol.7, No.10, pp.8789–8797.

4. **Kamboj, N.**, Dey, A., Birara, S., Majumder, M., Sengupta, S., and Metre, R. K., (2024), "Designing One-compartment H_2O_2 Fuel Cell Using Electroactive Phenalenyl-based $[Fe_2(hnmh\text{-}PLY)_3]$ Complex as the Cathode Material", *Dalton Transactions*, Vol.53, pp.7152-7162.

5. **Kamboj, N.**, and Metre, R. K., (2024), "Designing a Phenalenyl-based Dinuclear Ni(II) Complex: An Electrocatalyst with Two Single Ni Sites for Oxygen Evolution Reaction (OER)", *Inorganic Chemistry*. Vol.63, No.21, pp.9771-9785.

6. Mali, G., Tiwari, G., **Kamboj, N.**, Metre, R. K., and Erande, R. D., (2023), "Applications of phenalenyl-based Cu(II) complex towards direct oxidation of aldehydes to esters", *Tetrahedron Letters*, Vol.124, pp.154608.

7. Mishra, A., Betal, A., **Kamboj, N.**, Lama, P., Ji, R. S., Sahu, S., and Metre, R. K., (2022), "Diorganostannoxanes Stabilized by Intramolecular N→Sn Coordination Approach: Synthesis, Structure, TD-DFT and Hirshfeld Surface Analysis", *Journal of Molecular Structure*, Vol.1255, pp.132478.

8. Mishra, A., Chaudhary, S., **Kamboj, N.**, Lama, P., Majumder, M., and Metre, R. K., (2023), "Stabilization of unusual discrete diorganotin carboxylates using the intramolecular coordination approach: synthesis, structure, TD-DFT, and Hirshfeld surface analyses", *New Journal of Chemistry*, Vol.47, No.36, pp.17129–17141.

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