

Personal Profile

NAME	Dr. Tapan Kumar Si
ADDRESS with Email	Teachers Quarter, B. C. College Campus, Asansol-713304 Paschim Barddhaman, W.B. tapansi68@gmail.com
Highest qualification	M.Sc., Ph.D.
TEACHING EXPERIENCE	15 Years
TOPICS TAUGHT	General Inorganic Chemistry
RESEARCH EXPERIENCE	Doctoral research 5 years and post-doctoral research 3 years.
RESEARCH AREA	Coordination Chemistry, Catalysis, Hydrocarbon Oxidation, and bio in Bio-inorganic Chemistry
Award and Recognition (if any)	JRF (UGC) 2 Years, SRF (UGC) 3 Years, CSIR Research Associateship 3 Years.
Membership (if any)	Life member of IACS, Kolkata, Member of Breakthrough Science Society.
Other activity (if any)	Propagation of scientific temperament and scientific outlook through science popularization
List of Publications (chronological order-latest to oldest) (books, book chapters, journal and conference publications)	<ol style="list-style-type: none"><i>Solvent Induced Conformational Change of Mn(III) Azide Complex [Mn(L)(N₃)(Solvent)] with Chiral Schiff base (R,R)-N,N-disalicylidene cyclohexane 1, 2-diamine(H₂L).</i> Tapan Kumar Si, PANCHAKOTESAYS, Nov 2021, Vol-12, No.-2, (ISSN : 0976-4968)<i>Fundamental photophysical properties of fluorescent carbon dots and their applications in metal ion sensing and bioimaging.</i> Soumita Mukhopadhyay, Tapan Kumar Si, Nibedita Pradhan, <i>Fundamentals and Properties of Multifunctional Nanomaterials 2021, Chapter-8, 159-209 (Book Series-Elsevier) (ISBN-978-0-12-822-352-9).</i>রাসায়নিক পর্যায় সারণীর ১৫০ বছর পূর্তি ও বিজ্ঞানী দিমিত্রি ইভানোভিচ মেন্ডেলিয়েভ। তপন কুমার শী, প্রকৃতি-বিজ্ঞান ও সমাজ বিষয়ক পত্রিকা, জুলাই ২০১৯, চতুর্দশ বর্ষ, তৃতীয় সংখ্যা। Page-20-35, (ISSN: 0974-2425).



4. *An Amino Acid Coordinated Vanadium (IV) Complex: Synthesis, Structure, DFT Calculations and VHPO Mimicking Catalytic Bromoperoxidation of Organic Substrates.*
Urmila Saha, **Tapan Kr. Si**, Prasanta Kr. Nandi, Kalyan K. Mukherjea, *Inorganic Chemistry Communications*, **2013**, 38, 43-46. (*Journal - Elsevier*)
5. *Synthesis, structural characterization, VHPO mimicking peroxidative bromination and DNA nuclease activity of oxovanadium(V) complexes.*
Swarup Patra, Suparna Chatterjee, **Tapan Kr. Si** and Kalyan K. Mukherjea, *Dalton Trans*, **2013**, 42, 13425-13435. (Journal - Royal Society of Chemistry)
6. *Synthesis, Structural Characterization and Catalytic Activity of a Multifunctional Enzyme Mimetic Oxoperoxovanadium(V) Complex.*
Tapan Kr. Si, Shiv Sankar Paul, Michael G.B. Drew and Kalyan K. Mukherjea. *Dalton Trans*, **2012**, 41, 5805-5815. (Journal - Royal Society of Chemistry)
7. *Peroxidative bromination and oxygenation of organic compounds: synthesis, x-ray crystal structure and catalytic implications of mononuclear and binuclear oxovanadium(V) complexes containing Schiffbase ligands.*
Tapan Kr. Si^{*}, Michael G.B. Drew and Kalyan Kumar Mukherjea; *Polyhedron*, **2011**, 30, 2286–2293. (*Journal Elsevier*)
8. *Novel Supramolecular Network in Tri- and Mono-nuclear Oxovanadium(V)-Salicyl-hydroximate: Synthesis, Structure and Catalytic Oxidation of Hydrocarbons using H₂O₂ as Terminal Oxidant.*
Tapan Kr. Si, Santu Chakraborty, Alok K. Mukherjee , Michael G.B. Drew and Ramgopal Bhattacharyya; *Polyhedron*, **2008**, 27, 2233-2242 (*Journal - Elsevier*)
9. *Homogeneous Selective Peroxidic Oxidation of Hydrocarbons using and Oxovanadium(V) Based Catalyst.*
Tapan Kr. Si, Krishna Chowdhury, Monika Mukherjee, Dulal C. Bera and Ramgopal Bhattacharyya; *Journal of Molecular Catalysis A: Chemical*, 2004, **219**, 241-247. (*Journal - Elsevier*)