

Personal Profile		
Name	DR. TAPAN KUMAR SI (Ph.D. in Chemistry)	
Address with email	Present Add: <i>Teachers' Quarter, Bidhan Chandra College Campus, Asansol-713304, Paschim Bardhaman, W.B.</i> Permanent Add: <i>E-19, Baghajatin, Flat-2A, 1st Floor, Kolkata-700086, W.B.</i> Email: tksi2002@yahoo.co.in / tapan@bccollegeasansol.ac.in	
Date of Joining	30.03.2015	
Teaching Experience	Total 15 years (9 years in this college)	
Topics Taught	Inorganic Chemistry, Chemistry of Nanomaterials. Industrial Chemistry, Medicinal Chemistry, Fuel Chemistry, Polymer Chemistry	
Research Experience	3 years Post-doctoral Research Experience	
Research Area	Transition Metal Complexes, Catalysis, Bio-inorganic Chemistry	
Award and Recognition (if any)	a) Junior Research Fellowship (CSIR_UGC NET) (2002) b) Senior Research Fellowship (UGC, New Delhi), (2004) c) Research Associate Fellowship (CSIR, New Delhi) (2009)	
Membership	a) Life Member of Indian Association for the Cultivation of Science (IACS Kolkata) b) Member of Breakthrough Science Society, India.	
Other Activity	Cultivation of science activities in different institution to develop science awareness and scientific temperament.	
List of Publications	1. Book Chapter: <i>Design of therapeutic nanomaterials for amelioration of Alzheimer's disease.</i> Nibedita Pradhan, Tapan Kumar Si , <i>Theranostic Applications of Nanotechnology in Neurological Disorders</i> , 2024, (ISBN 978-981-99-9509-7), Publisher: Springer Nature Group .	

2. *Tris chelated meridional isomers of Co (III) complexes: Synthesis, crystal structure, protein binding, cytotoxicity studies and DFT/TDDFT calculation.* Dama Saren, Susobhan Das, Aparup Paul, Sharad S. Tat, Manas Kumar Santra, **Tapan Kumar Si**, Horst Puschmann, and Subal Chandra Manna. *Inorganica Chimica Acta*, **2023**, 550: 121423. (Journal- Elsevier)

3. *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).*
Tapan Kumar Si, *PANCHAKOTESAYS*, Nov **2021**, Vol-12, No.-2, (ISSN: 0976-4968)

4. Book Chapter: *Fundamental photophysical properties of fluorescent carbon dots and their applications in metal ion sensing and bioimaging.*
 Soumita Mukhopadhyay, **Tapan Kumar Si**, Nibedita Pradhan, *Fundamentals and Properties of Multifunctional Nanomaterials*, **2021**, Chapter-8, 159-209 (Book Series-Elsevier) (ISBN-978-0-12-822-352-9).

5. *150 years of Chemical Periodic Table and life of Dimitri Mendeleev.*
Tapan Kumar Si, *Prakriti-A magazine on Science and Society*. July **2019**, Volume-14, Issue-3, Page-20-35, ISSN:0974-2425.

6. *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)

7. *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)

8. *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)

	9. <i>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.</i> <u>Tapan Kr. Si*</u>, Michael G.B. Drew and Kalyan Kumar Mukherjea; <i>Polyhedron</i>, 2011, 30, 2286–2293. (<i>Journal -Elsevier</i>) 10. <i>Novel Supramolecular Network in Tri- and Mono-nuclear Oxovanadium(V)-Salicyl-hydroximate: Synthesis, Structure and Catalytic Oxidation of Hydrocarbons using H₂O₂ as Terminal Oxidant.</i> <u>Tapan Kr. Si</u>, Santu Chakraborty, Alok K. Mukherjee , Michael G.B. Drew and Ramgopal Bhattacharyya; <i>Polyhedron</i>, 2008, 27, 2233-2242 (<i>Journal - Elsevier</i>) 11. <i>Homogeneous Selective Peroxidic Oxidation of Hydrocarbons using and Oxovanadium(V) Based Catalyst.</i> <u>Tapan Kr. Si</u>, Krishna Chowdhury, Monika Mukherjee, Dulal C. Bera and Ramgopal Bhattacharyya; <i>Journal of Molecular Catalysis A: Chemical</i>, 2004, 219, 241-247. (<i>Journal - Elsevier</i>)