

Curriculum Vitae

Dr. Tanmay Chattopadhyay
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Academic Appointments:

- 2019 March-till date:** Assistant professor in Department of Chemistry, DHWU, West Bengal, India
- 2010 July-2019 Feb.:** Assistant professor in Chemistry, Panchakot Mahavidyalaya, Purulia, West Bengal, India
- 2009 April -2010 June:** Postdoctoral Fellow, AIST, Tsukuba, Japan

Education:

- **Ph.D. 2008**, University of Calcutta, India (*With: Professor Debasis Das*)
- **Master of Science (Inorganic division), 2003**, Visva-Bharati University, West Bengal, India.
- **Bachelors of Science, 2001**, University of Burdwan, West Bengal, India.

Teaching Experience:

More than 8 years undergraduate teaching in Panchakot Mahavidyalaya, Sarbai, Purulia.

Project completed/ ongoing:

- **2018:** WB-DST research Grant INR 4 Lakh. (Ongoing)
- **2014:** SERB-DST early carrier research gran INR 24.18 Lakh. (completed)
- **2014:** UGC research Grant INR. 4.95 Lakh (completed)

Research Interest:

- ❖ Bio-inorganic Chemistry
- ❖ Co-Ordination Chemistry
- ❖ Nano-materials

Professional Membership:

- ❖ Lifetime Membership of Indian Chemical Society
- ❖ Lifetime Membership of IACS

No. of Ph. D students Co-supervised: 01 (working)

Publication Details:

- a) **Patent: 01** (Japanese Patent No.: 5435570; Application No.: 2010-033440; Date: 2010-02-18)
- b) **Articles in Refereed Journals with Impact Factor: 53**

Selected list:

Sl no	Year of Publication	Title	Authorship	Name of the Journal	Volume and Pages
1	2018	Fluorimetric detection of nitroaromatics by fluorescent lead complexes: A spectroscopic assessment of detection mechanism	Corresponding Author	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	194, 222-229
2	2018	Synthesis and characterization of magnetically separable Fe ₃ O ₄ @AHBA@Ni(0) [AHBA = 3-amino-4-hydroxybenzoic acid] nanocatalyst: Applications for carbonyl hydrogenation and alcohol oxidation	Corresponding Author	Inorganica Chimica Acta	474, 1-10
3	2018	Oxidation of Organic Functionalities by PhI(OAc) ₂ catalysed by Magnetically separable Fe ₃ O ₄ @Mn(III) Complexes: Combined Experimental and Theoretical approach	Corresponding Author	ChemSelect	2, 8686-8700
4	2018	Syntheses and characterization of mononuclear Zn(II), Cd(II) and Hg(II) complexes of 2-[(3,5-dibromo-2-hydroxy-benzylidene)-amino]-2-hydroxymethyl-propane-1,3-diol: Photoluminescence properties and DFT study	Corresponding Author	Inorganica Chimica Acta	471 & 159-167
5	2017	Fe ₃ O ₄ @dopa (dopa = dopamine hydrochloride) functionalized Mn(III) Schiff base complex: A promising magnetically separable heterogeneous catalyst for oxidative transformations	Corresponding Author.	Journal of Coordination Chemistry	70 & 3293-3307
6	2017	Syntheses of U ₃ O ₈ nanoparticles from four different uranyl complexes: Their catalytic performance for various alcohol oxidations	Corresponding Author	Inorganica Chimica Acta	462 & 112-122
7	2017	Al ₂ O ₃ supported-Fe(III) Schiff base complexes: Syntheses, characterizations and their applications in various oxidation reactions	Corresponding Author	J. Indian Chem. Soc.	94 & 489-495
8	2017	A route to magnetically separable nanocatalysts: Combined experimental and theoretical investigation of alkyl substituent role in ligand backbone towards epoxidation ability	Corresponding Author	Appl Organometal Chem.	31 & e3663

9	2016	Facile Syntheses of Copper Sulfide Nanoparticles: Antibacterial and Antifungal Activity Study	Corresponding Author	RASYAN J. Chem.	9 & 77-83
10	2016	Ag/CuO nanoparticles prepared from a novel trinuclear compound [Cu(Imdz)4(Ag(CN) ₂) ₂] (Imdz = imidazole) by a pyrolysis display excellent antimicrobial activity	Corresponding Author	Journal of Molecular Structure	113 & 9-17
11	2016	Synthesis and characterization of a magnetically separable novel Fe ₃ O ₄ @L-DOPA@CuII nanocatalyst (L-DOPA = L-3,4-dihydroxyphenylalanine): Asymmetric aza-Michael addition reaction	Corresponding Author	Inorganica Chimica Acta	444 & 209-216
12	2015	Development of an efficient magnetically separable nanocatalyst: theoretical approach on the role of the ligand backbone on epoxidation capability	Corresponding Author.	RSC Adv	5 & 92634-92647
13	2015	Alumina-supported Mn(III) and Fe(III) complexes of tridentate Schiff base ligand having ONO donor sites: Syntheses, characterization and online epoxidation study.	Corresponding Author	Ind. J. Chem. Sec. A	54A & 1175-1182
14	2015	Preparation and characterization of ferromagnetic nickel oxide nanoparticles from three different precursors: application in drug delivery.	Corresponding Author	RSC Adv.	5 & 35917-35928

c) Edited Books (With ISBN): 01

- (i) Chattopadhyay, T. (2013): Agrochemicals....alternative, In "Green Chemistry and Sustainable Agriculture Practices: A step towards a better Future", Ed. **T. Chattopadhyay** & B. Bhowmik, (ISBN:978-81-921697-3-6).

d) Chapter in Book (With ISBN): 02

- (i) **T. Chattopadhyay**, (2013): Agrochemicals....alternative, In "Green Chemistry and Sustainable Agriculture Practices: A step towards a better Future", Ed. **T. Chattopadhyay** & B. Bhowmik, (ISBN:978-81-921697-3-6).
- (ii) **T. Chattopadhyay**, (2013), "Worldwide Environmentalparticipation" Proceedings on "Women Empowerment and Environmental Sustainability" (ISBN: 978-81-922902-5-6).