

## List of Publications – Chemistry

### A) PRESENT FACULTY

#### Dr. Tapati Mallik

##### Peer Reviewed Journals:

- 1) “Dislocation Structure and Microhardness of L-Arginine perchlorate Single Crystal”, **T. Mallik**, T. Pal and T. Kar, *Indian Journal of Physics*, 2009, **83** (10), 1395-1406. [IF: 1.785]
- 2) “Growth of ZnO Nanoparticles and Nanorods Using a Novel Synthesis Route: Explanation with Hit and Stick model”, S. Bhattacharya, **T. Mallik**, T. Kar, M. P. F. Graca and M. A. Valente, *Journal of Advanced Physics*, 2012, **1** (2), 146-149. [IF: 1.5]

##### Other:

- 3) “Growth of Single Crystals from Solution”, **T. Mallik**, *Conscientia* [ISSN: 2278-6554], 2012, **1** (3), 42-45.

#### Dr. Ajanta Mukherji

##### Peer Reviewed Journals:

- 1) “An Expedient Synthesis of Novel 2-Substituted Thiazolo-[4,5-*f*]-isoquinolines/quinolines and Benzo[1,2-*d*:4,3-*d'*]bisthiazoles and Their Potential as Inhibitors of COX-1 and COX-2”, M. Chakrabarty, **A. Mukherji**, S. Karmakar, R. Mukherjee, K. Nagai, A. Geronikaki and P. Eleni, *Arkivoc*, 2010, (xi), 265-290. [IF: 1.096]
- 2) “An Expedient Phase Transfer Catalyst-Mediated Synthesis of 2-Alkyl/Aryl-1,8-Phenanthrolines”, M. Chakrabarty and **A. Mukherji**, *Journal of Heterocyclic Chemistry*, 2012, **49** (6), 1443-1446. [IF: 1.224]
- 3) “Eco-friendly Synthesis of Condensed Nitrogen Heterocycles – A Brief Experience from Our Group”, M. Chakrabarty and **A. Mukherji**, *J. Indian Chem. Soc.*, 2013, **90** (10), 1681-1694. [IF: 0.382]

##### Other:

- 4) “Heteropoly Acids as Novel Catalysts in Organic Synthesis”, **A. Mukherji**, *Conscientia* [ISSN: 2278-6554], 2011, **1** (2), 9-17.

## **B) FACULTY ON LIEN**

### **Dr. Dhruba Prosad Chatterjee**

#### **Peer Reviewed Journals:**

- 1) “Multifunctional Hydrophilic Poly(vinylidene fluoride) Graft Copolymer with Supertoughness and Supergluing Properties”, S. Samanta, **D. P. Chatterjee**, S. Manna, A. Mandal, A. Garai and A. K. Nandi, *Macromolecules*, 2009, **42** (8), 3112-3120. [IF: 4.539]
- 2) “Fluorescence Probing of Block Copolymeric Micelles using Coumarin 153”, S. Basu, **D. P. Chatterjee**, U. Chatterjee, S. Mondal and D. Mandal, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2009, **341** (1), 13-20. [IF: 1.988]
- 3) “Physical and Mechanical Properties of Poly(methyl methacrylate)-functionalized Graphene / Poly(vinylidene fluoride) Nanocomposites : Piezoelectric  $\beta$  Polymorph Formation” R. K. Layek, S. Samanta, **D. P. Chatterjee** and Arun K. Nandi, *Polymer*, 2010, **51** (24), 5846-5856. [IF: 3.828]
- 4) “Multifunctional Porous Poly(vinylidene fluoride)-graft-Poly(n-butyl methacrylate) with Enhanced  $\text{Li}^+$  ion Conductivity”, S. Samanta, **D. P. Chatterjee** and R. K. Layek, *Macromol. Chem. Phys.*, 2011, **212** (2), 134-149. [IF: 2.361]
- 5) “Nano-structured Poly(3-hexyl thiophene) Grafted on Poly(vinylidene fluoride) via Poly(glycidyl methacrylate)”, S. Samanta, **D. P. Chatterjee**, R. K. Layek and A. K. Nandi, *J. Mater. Chem.*, 2012, **22** (21), 10542-10551. [IF: 6.101]
- 6) “Polythiophene-g-poly-(dimethylaminoethyl methacrylate) Doped Methyl cellulose Hydrogel Behaving like a Polymeric AND Logic Gate”, S. Samanta, S. Das, R. K. Layek, **D. P. Chatterjee** and A. K. Nandi, *Soft Matter*, 2012, **8** (22), 6066-6072. [IF: 3.909]
- 7) “Thermosensitive Water-Soluble Poly(ethylene glycol)-Based Polythiophene Graft Copolymers”, S. Das, S. Samanta, **D. P. Chatterjee** and A. K. Nandi, *J. Polym. Sci. Part A, Polym. Chem.*, 2013, **51** (6), 1417-1427. [IF: 3.245]
- 8) “Thermo and pH Responsive Water Soluble Polythiophene Graft Copolymer with Logic Operation and Nitroaromatic Sensing”, S. Das, **D. P. Chatterjee**, S. Samanta and A. K. Nandi, *RSC Adv.*, 2013, **3** (38), 17540-17550. [IF: 2.562]
- 9) “Amphiphilic Poly(N-vinyl pyrrolidone) Grafted Graphene by Reversible Addition and Fragmentation Polymerization and the Reinforcement of Poly (vinyl acetate) Films”, R.K. Layek, A. Kuila, **D.P. Chatterjee** and A.K. Nandi, *Journal of Materials Chemistry A*, 1(48), 10863-10874. [IF: 1.238]
- 10) “Coupled atom transfer radical coupling and atom transfer radical polymerization approach for controlled grafting from poly (vinylidene fluoride) backbone”, A. Kuila, **D. P. Chatterjee**, R. K. Layek and A. K. Nandi, *Journal of Polymer Science Part A: Polymer Chemistry*, 52(7), 995-1008. [IF: 3.245]

## Chapter in Books:

“Polymer Functionalized Graphene via Atom Transfer Radical Polymerization Route for Graphene-Based Polymer Nanocomposites”, A. K. Nandi, R. K. Layek, S. Samanta and **D. P. Chatterjee** in “*Graphite, Graphene, and Their Polymer Nanocomposites*”, Eds. P. Mukhopadhyay and R. K. Gupta; CRC Press, Taylor & Francis Group, Boca Raton, Florida, 2013, p.393-421.

## C) TRANSFERRED FACULTY

### Dr. Shyamapada Shit

#### Peer Reviewed Journals:

- 1) “Structural and Spectral Studies of a New Copper(II) Complex with a Tridentate Thiosemicarbazone Ligand”, S. Sen, **S. Shit**, S. Mitra and S. R. Batten, *Structural Chemistry*, 2008, **19** (1), 137-142. [IF: 1.433]
- 2) “A New Mixed Ligand Coordination Polymer of Mn(II): Structural Aspect and Cryomagnetic Study”, **S. Shit**, J. Chakraborty, J. A. K. Howard, E. C. Spencer, C. Desplanches and S. Mitra, *Structural Chemistry*, 2008, **19** (4), 553-558. [IF: 1.433]
- 3) “A Novel Mixed Ligand Coordination Polymer of Copper(II): Synthesis, Characterisation and Magneto-structural Correlation”, **S. Shit**, J. Chakraborty, S. Sen, G. Pilet, C. Desplanches and S. Mitra, *Journal of Molecular Structure*, 2008, **891** (1-3), 19-24. [IF: 1.594]
- 4) “A Novel Centrosymmetric Dinuclear Cadmium(II) Schiff Base Complex with Unusual Bridging Carboxylate: Synthesis, Crystal Structure and Luminescence Properties”, **S. Shit**, J. Chakraborty, B. Samanta, G. Pilet and S. Mitra, *Journal of Molecular Structure*, 2009, **919** (1-3), 361-365. [IF: 1.551]
- 5) “Synthesis, Structure and Fluorescence Properties of a Trinuclear Zn(II) Complex with *N,N,O*-donor Schiff Base Ligands and Bridging Acetates”, **S. Shit**, J. Chakraborty, B. Samanta, G. M. Rosair and S. Mitra, *Z. Naturforsch.*, 2009, **64b**, 403-408. [IF: 0.90]
- 6) “Syntheses, Characterization and Crystal Structures of Two Square-planar Ni(II) Complexes with Unsymmetrical Tridentate Schiff Base Ligands and Monodentate Pseudohalides”, **S. Shit**, S. Sen, S. Mitra and D. L. Hughes, *Transition Metal Chemistry*, 2009, **34** (4), 269-274. [IF: 1.223]
- 7) “Three New Coordination Complexes of Cobalt(III), Manganese(II), and Copper(II) with *N,N,O*-donor Hydrazone Ligands: Syntheses and Structural Characterizations”, **S. Shit**, J. Chakraborty, B. Samanta, A. M. Z. Slawin, V. Gramlich and S. Mitra, *Structural Chemistry*, 2009, **20** (4), 633-642. [IF: 1.637]

- 8) "The Key Role of Hydrogen Bonding in the Nuclearity of Three Copper(II) Complexes with Hydrazone-derived Ligands and Nitrogen Donor Heterocycles", **S. Shit**, S. K. Dey, C. Rizzoli, E. Zangrando, G. Pilet, C. J. Gómez-García and S. Mitra, *Inorganica Chimica Acta*, 2011, **370** (1), 18-26. [IF: 1.846]
- 9) "First Report on Thermally Stable Cadmium Carbonyl Complex Containing an Interesting Chloroaryl Bridge: Isolation and Characterization", S. K. Dey, **S. Shit**, S. P. Dey, S. Mitra and K. M. A. Malik, *Chemistry Letters*, 2011, **40** (8), 810-812. [IF: 1.587]
- 10) "A New Tetranuclear Copper(II) Schiff Base Complex Containing Cu<sub>4</sub>O<sub>4</sub> Cubane Core: Structural and Spectral Characterizations", **S. Shit**, G. Rosair and S. Mitra, *Journal of Molecular Structure*, 2011, **991** (1-3), 79-83. [IF: 1.634]
- 11) "An Antiferromagnetically Coupled Hexanuclear Copper(II) Schiff Base Complex Containing Phenoxo and Dicyanamido Bridges: Structural Aspects and Magnetic Properties", P. Talukder, **S. Shit**, A. Sasmal, S. R. Batten, B. Moubaraki, K. S. Murray and S. Mitra, *Polyhedron*, 2011, **30** (11), 1767-1773. [IF: 2.057]
- 12) "A Bimetallic Cyano-bridged Complex Based on Nickel(II) and Pentacyanonitrosylferrate(II) Precursors: Characterization, Crystal Structure, and Magnetic Properties", P. Talukder, **S. Shit**, H. Nöth, M. Westerhausen, A. N. Kneifel and S. Mitra, *Transition Metal Chemistry*, 2012, **37** (1), 71-77. [IF: 1.184]
- 13) "Framework Solids Based on Copper(II) Halides (Cl/Br) and Methylene-Bridged Bis(1-hydroxybenzotriazole): Synthesis, Crystal Structures, Magneto-Structural Correlation, and Density Functional Theory (DFT) Studies", A. Sasmal, **S. Shit**, C. Rizzoli, H. Wang, C. Desplanches and S. Mitra, *Inorganic Chemistry*, 2012, **51** (19), 10148-10157. [IF: 4.593]

### **Sri Debnath Saha**

#### **Peer Reviewed Journals:**

"Synthesis of Novel Thiazolo[5,4-*d*]Pyrimidines", G. Chattopadhyay, **D. Saha**, P. Sinha Ray, S. Naskar and S. Sarkar, *Indian J. Chem.*, 2010, **49B** (9), 1229-1234. [IF: 0.489]

### **Dr. Jibanananda Jana**

#### **Peer Reviewed Journals:**

- 1) "Quantum Chemical Studies on Symbiosis", **J. Jana**, *Int. J. Pure & Appl. Chem.*, 2010, **5** (2), 143-150.
- 2) "Relative Stabilities of Two Difluorodiazene Isomers: Density Functional and Molecular Orbital Studies", **J. Jana**, *Reports in Theoretical Chemistry*, 2012, **1**, 1-10. [IF: 1.2]
- 3) "Systematic Approach for the Bonding in Ferrocene", **J. Jana**, *Research and Reviews: Journal of Chemistry*, 2014, **3** (2), 38-44. [IF: 0.592]