

List of Publications 2016

1. Cell Permeating Nano-Complexes of Amphiphilic Polyelectrolytes Enhance Solubility, Stability and Anti-Cancer Efficacy of Curcumin. Fatima, M. T.; Chanchal, A.; Yavvari, P. S.; Bhagat, S. D.; Gujrati, M.; Mishra, R. K.; Srivastava, A. *Biomacromolecules*, **2016**, *17*, 2375-2383.
2. Rods, helices and spherulites: diverse self-assembled architectures from l-phenylalanine derivatives. Bhagat, S. D. and Srivastava, A. *CrystEngComm*, **2016**, *18*, 4369-4373.
3. Anion Binding-Induced White Light Emission using a Water-Tolerant Fluorescent Molecular Tweezer. Kumar, R. and Srivastava A. *Chem.-Eur. J.*, **2016**, *22*, 3224-3229.
4. A robust iron oxyhydroxide water oxidation catalyst operating under near neutral and alkaline conditions. Roy Chowdhury, D., Spiccia, L., Amritphale, S. S., Paul, A., Singh, A. *J. Mater. Chem. A* **2016**, *4*, 3655-3660.
5. Proton conduction through oxygen-functionalized few-layer graphene. Singh, C., S. N., Jana, A. Mishra, A. K., Paul, A. *Chem. Commun.* **2016**, *52*, 12661-12664.
6. Electrochemical formation of Fe^V(O) and mechanism of its reaction with water during O-O bond formation. Pattanayak, S., Roy Chowdhury, D., Garai, B., Singh, K. K., Paul, A., Dhar, B. B., Sen Gupta, S. *Chem. Eur. J.* **2016**, DOI: 10.1002/chem.201605061.
7. pH dependent supramolecular recognition of dapoxyl sodium sulfonate with 2- hydroxypropyl β cyclodextrin: an application towards food-additive formulation. Pal, K.; Chandra, F.; Mallick, S.; Koner, A. L., *New J. Chem.* **2016**, *40*, 6093-6100.
8. Probing Microenvironment of Micelle and Albumin Using Diethyl 6- (dimethylamino)naphthalene-2,3-dicarboxylate: An Electroneutral Solvatochromic Fluorescent Probe. Mallick, S.; Pal, K.; Koner, A. L., *J. Colloid Interface Sci.* **2016**, *467*, 81-89.
9. Investigation of the effect of cucurbit[7]uril complexation on the photophysical and acid-base properties of the antimalarial drug quinine. Mallick, S.; Pal, K.; Chandra, F.; Koner, A. L., *Phys. Chem. Chem. Phys.* **2016**, *18*, 30520-30529.
10. A ratiometric fluorescent probe for detection of biogenic primary amines with nanomolar sensitivity. Mallick, S.; Chandra, F.; Koner, A. L., *Analyst* **2016**, *141*, 827- 831.
11. Supramolecular Guest Relay Using Host-Protein Nanocavities: An Application of Host-Induced Guest Protonation. Chandra, F.; Pal, K.; Lathwal, S.; Koner, A. L., *Mol. BioSys.* **2016**, *12*, 2859-2866.
12. Tailoring Emission Properties Using Macrocyclic Nanocavities via Guest Interplay in Aqueous Solution. Chandra, F.; Pal, K.; Koner, A. L., *ChemistrySelect* **2016**, *1*, 6156-6159.
13. Iridium Complexes as a Roadblock for DNA Polymerase during Amplification. Chandra, F.; Kumar, P.; Tripathi, S. K.; Patra, S.; Koner, A. L., *ChemMedChem* **2016**, *11*, 1410-1414.
14. Polarization induced dynamic photoluminescence in carbon quantum dot-based ionic fluid. Bhattacharjee, L.; Mohanta, K.; Pal, K.; Koner, A. L.; Bhattacharjee, R. R., *J. Mater. Chem. A* **2016**, *4*, 2246-2251.
15. Tuning Aggregation-Induced Emission of 2,3-Naphthalimide by Employing Cyclodextrin Nanocavities. Arathi, A. S.; Mallick, S.; Koner, A. L., *ChemistrySelect* **2016**, *1*, 3535-3540.

16. Crystallographic and Theoretical Investigation on the nature and characteristics of Type I C=S...S=C interactions. Shukla, R.; Chopra, D. *Cryst. Growth Des.*, **2016**, *16*, 6734-6742.
17. Energy Frameworks and a Topological Analysis of the Supramolecular Features in in situ Cryocrystallized Liquids: Tuning the Weak Interaction Landscape by Fluorination. Dey, D.; Bhandary, S.; Thomas, S. P.; Spackman, M. A.; Chopra, D. *Phys. Chem. Chem. Phys.*, **2016**, *18*, 31811-31820.
18. Characterization of N...O non-covalent interactions involving σ -hole: "Electrostatics" or "Dispersion". Shukla, R.; Chopra, D. *Phys. Chem. Chem. Phys.*, **2016**, *18*, 29946-29954.
19. Solvatomorphism in (Z)-4-fluoro-N'-(3-fluorophenyl) benzimidamide: the role of intermolecular O-H...F interaction. Dey, D.; Chopra, D. *CrystEngComm*, **2016**, *18*, 8291-8300.
20. Understanding the effect of substitution on the formation of S...F chalcogen bond. Shukla, R.; Chopra, D. *J. Chem. Sci.*, **2016**, *128*, 1589-1596.
21. Insights into the supramolecular features in isopropylmalonic and n-butylmalonic acids: Inputs from PIXEL and Hirshfeld surface analysis. Dey, D.; Mondal, R. K.; Dhibar, S.; Lin, C. -H.; Schollmeyer, D.; Chopra, D.; Biswajit, D. *J. Mol. Struct.*, **2016**, *1122*, 29-36.
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27. 'Quasi-isostructural polymorphism' in molecular crystals: Inputs from interaction hierarchy and energy frameworks. Dey, D.; Thomas, S. P.; Spackman, M. A.; Chopra, D. *Chem. Commun.*, **2016**, *52*, 2141-2144.
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29. Saraogi, I.*; Bhoge, B.A.; Gangarde, Y.M. ; "Supramolecular assemblies in Chemical Biology" in Comprehensive Supramolecular Chemistry II, *in press*, <http://dx.doi.org/10.1016/B978-0-12-409547-2.12544-2>, published online Nov 1, 2016.
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- 36.** Lanthanide Directed Fabrication of Four Tetranuclear Quadruple Stranded Helicates Showing Magnetic Refrigeration and Slow Magnetic Relaxation. Mondal A. K., Jena H. S., Malviya A., Konar S. *Inorg. Chem.*, **2016**, *55*, 5237–5244.
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