

List of Publications – 2015

1. Fabrication of Porous Organic Polymers in the Form of Powder, Soluble in Organic Solvents and Nanoparticles: a Unique Platform for Gas Adsorption and Efficient Chemosensing.
Bandyopadhyay, S.; Pallavi, P.; Anil, A. G.; Patra, A.
Polym. Chem., **2015**, *6*, 3775–3780.
2. Conjugated Polymer Nanoparticle-Triplet Emitter Hybrids in Aqueous Dispersion: Fabrication and Fluorescence Quenching Behavior
Bandyopadhyay, S.; Métivier, R.; Pallavi, P.; Preis, E.; Nakatani, K.; Landfester, K.; Patra, A.; Scherf, U.
Macromol. Rapid Commun. **2015**, DOI: 10.1002/marc.201500618.
3. Crystallographic and computational investigation of intermolecular interactions involving organic fluorine with relevance to the hybridization of the carbon atom.
Shukla, R., Chopra, D. *CrystEngComm*, **2015**, *17*, 3596–3609 [**This article has been selected as Cover Page**].
4. N-H $\cdots\pi$ induced configurational isomerism and the role of temperature in the Z to E isomerization of 2-fluoro-N-(3-fluorophenyl) benzimidamide.
Dey, D., Chopra, D. *CrystEngComm*, **2015**, *17*, 5288–5298.
5. Experimental and computational insights into the nature of weak intermolecular interactions in trifluoromethyl substituted isomeric crystalline N-methyl-N-phenylbenzamides.
Panini, P., Chopra, D. *New J. Chem.*, **2015**, *39*, 8720-8738.
6. Exploring the Role of Substitution on the Formation of Se \cdots O/N Noncovalent Bonds.
Shukla, R., Chopra, D. *J. Phys. Chem. B.* **2015**, *119*, 14857–14870.
7. Gallium(III)Corrole-BODIPY Hybrid: Novel Photophysical Properties and First Observation of B-F \cdots F interactions
Basumataray, B., Reddy, R. V. R., Bhandary, S., Sankar, J.
Dalton Trans. **2015**, *44*, 20817-20821.
8. Dual-mode chemodosimetric response of dibromo-BODIPY with anions
Rajasekhar, A., Kaloo, M. A., Sankar, J.
Org. Biomol. Chem. **2015**, *13*, 10155-10161.
9. Reusable and Specific Proton Transfer Signalling by Inorganic Cyanide in Solution and Solid
Kaloo, M. A., Sankar, J.
Chem. Commun. **2015**, *51*, 14528-14531.
10. First Example of a Modular Porphyrinoid Assembly Capable of Stabilizing Different Metal Ions in a Single Molecular Scaffold
Murugavel, M., Reddy, R. V. R., Dey, D., Sankar, J.
Chem. Eur. J. **2015**, *21*, 14280-14286.

11. Corrole-BODIPY Dyads: Synthesis, Structure, Electrochemical and Photophysical properties
Basumataray, B., Rajasekhar, A., Reddy, R. V. R., Sankar, J.
Inorg. Chem. **2015**, *54*, 4257-4267.
12. Perylenebisimide-based multi-modal cyanide recognition: molecular logic gate deciphering magnetic memory units
Kaloo, M. A., Mishra, R., Sankar, J.
J. Mater. Chem. C **2015**, *3*, 1640-1644.
13. Chelating Bis-N-Heterocyclic Carbene (NHC)-Pd(II) Complexes for Oxidative Arene C-H Functionalization.
Desai, S. P.; Mondal, M.; Choudhury, J.
Organometallics **2015**, *34*, 2731-2736.
14. Rhodium(III)-Catalyzed Activation and Functionalization of Pyridine C-H Bond by Exploring a Unique Double-Role of 'N-Heterocyclic Carbene-Pyridyl' Ligand Platform.
Thenarukandiyil, R.; Choudhury, J.
Organometallics **2015**, *34*, 1890-1897.
15. Rhodium(III)-N-Heterocyclic Carbene-Driven Cascade C-H Activation Catalysis.
Ghorai, D.; Choudhury, J.
ACS Catal., **2015**, *5*, 2692-2696.
16. Templating an N-Heterocyclic Carbene (NHC)-Cyclometalated Cp*Ir(III)-Based Oxidation Precatalyst on a Pendant Coordination Platform: Assessment of the Oxidative Behavior via Electrochemical, Spectroscopic and Catalytic Probes.
Gupta, S. K.; Choudhury, J.
Dalton Trans., **2015**, *44*, 1233-1239.
17. Intramolecular Rearrangement of α -Azidoperoxides: An Efficient Synthesis of tert-Butyl Esters
Pramanik, S.; Reddy, R. R.; Ghorai, P.
Org. Lett. **2015**, *17*, 1393-1396.
18. Synthesis of Polysubstituted Quinolines via Transition-Metal-Free Oxidative Cycloisomerization of o-Cinnamylanilines
Rehan, M.; Hazra, G.; Ghorai, P.
Org. Lett. **2015**, *17*, 1668-1671.
19. Transition Metal-Free Generation of N-Unsubstituted Imines from Benzyl Azides: Synthesis of N-Unsubstituted Homoallylic Amines.
Pramanik, S.; Reddy, R. R.; Ghorai, P.
J. Org. Chem. **2015**, *80*, 3656-3663.
20. Organocatalytic, Enantioselective Synthesis of 1- and 3-Substituted Isochromans via Intramolecular Oxa-Michael Reaction of Alkoxyboronate: Synthesis of (+)-Sonopiprazole.
Ravindra, B.; Maity, S.; Das, B. G.; Ghorai, P.
J. Org. Chem. **2015**, *80*, 7008-7018.

21. Synthesis of chiral oxo-rhenium(V) complex and its application in enantioselective reduction of imines
Das, B. G.; Nallagonda, R.; Dey, D.; Ghorai, P.
Chem. -Eur. J. **2015**, *21*, 12601.
22. Palladium-catalyzed oxidative cycloisomerization of 2-cinnamyl-1,3-dicarbonyls: Synthesis of functionalized 2-benzyl furans
Nallagonda, R.; Reddy, R. R.; Ghorai, P.
Chem. -Eur. J. **2015**, *21*, 14732.
23. Catalytic Enantioselective Decarboxylative Allylations of a Mixture of Allyl Carbonates and Allyl Esters: Total Synthesis of (–)- and (+)-Folicanthine.
Ghosh, S.; Chaudhuri, S.; Bisai, A.
Chem. –Eur. J. **2015**, *21*, 17479-17484.
24. Unified Approach to the Spiro(pyrrolidinyl-oxindole) and Hexahydropyrrolo[2,3-b]indole Alkaloids: Total Syntheses of Pseudophrynamines 270 and 272A.
De, S.; Das, M. K.; Bhunia, S.; Bisai, A.
Org. Lett. **2015**, *17*, 5922-5925.
25. Highly Stereoselective Syntheses of Proline-Derived Vicinal Amino Alcohols through Grignard Addition onto *N*-Tosylprolinal.
Chaudhuri, S.; Parida, A.; Ghosh, S.; Bisai, A.
Synlet **2015**, [DOI: 10.1055/s-0035-1560802]
26. Total Synthesis of (±)-Taiwaniaquinol F and Related Taiwaniaquinoids.
Kakde, B. N.; Kumari, P.; Bisai, A.
J. Org. Chem. **2015**, *80*, 9889-9899.
27. Highly chemoselective synthesis of dimeric 2-oxindoles with a C-3/C-5' via Friedel-Crafts alkylations of 2-oxindoles with 3-hydroxy- 2-oxindoles.
Babu, N. K.; Kinthada, L. K.; Ghosh, S.; Bisai, A.
Org. Biomol. Chem. **2015**, *13*, 10641-10655.
28. Efficient Synthesis of 3-Alkynyl-2-(hydroxymethyl)cyclohex-2-en- 1-ones by a Stork–Danheiser Sequence from Vinylogous Esters and Terminal Alkynes.
Parida, A.; Sharique, M.; Kakde, B. N.; Ghosh, S.; Bisai, A.
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29. Concise total syntheses of (±)-mesembrane and (±)-crinane.
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Org. Biomol. Chem. **2015**, *13*, 3585-3588.
30. Oxidative Dimerization of 2-Oxindoles Promoted by KO^tBu-I₂: Total Synthesis of (±)-Folicanthine.
Ghosh, S.; Chaudhuri, S.; Bisai, A.
Org. Lett. **2015**, *17*, 1373-1376.

31. Protein self-assembly induces promiscuous nucleophilic biocatalysis in Morita-Baylis-Hillman (MBH) reaction.
Joshi, P. N.; Purushottam, L.; Das, N. K.; Mukherjee, S.; Rai, V.
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32. A phthalimide protocol that follows protein defined parameters
Singudasa, R.; Adusumalli, S. R.; Joshi, P. N.; Rai, V.
Chem. Commun., **2015**, *51*, 473-476.
33. A Copper(I) Based Metal Organic Framework as an Efficient Heterogeneous Catalyst for the Aerobic Homocoupling of Arylboronic acids and Epoxidation of Olefins.
Parshamoni, S., Telengae, J., Sanda, S., Konar, S.
Chem. Asian J., Accepted Manuscript.
34. Regulation of pore size by shifting coordination sites of ligands in two metal organic frameworks: Enhancement of CO₂ uptake and selective sensing of nitrobenzene.
Parshamoni, S., Telengae, J., Konar, S.
Dalton Trans., **2015**, *44*, 20926-20935.
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Rangaraj, P., Parshamoni, S., Konar, S.
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38. Structural Adaptation of Ni₄O₄ Units To Form Cubane, Open Dicumane, Dimeric Cubane, and One-Dimensional Polymeric Cubanes: Magnetostructural Correlation of Ni₄ Clusters.
Das, D., Mahata, G., Adhikary, A., Konar, S., Biradha, K.
Cryst. Growth Des., **2015**, *15*, 4132-4141.
39. Proton Conducting Magnetic Coordination Polymers.
Biswas, S., Jena, H. S., Sanda, S., Konar, S.
Chem. Eur. J., **2015**, *21*, 13793-13801.
40. Nanoscopic Molecular Magnets (REVIEW).
Goswami, S., Mondal, A., Konar, S.
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Sanda, S., Biswas, S., Parshamoni, S., Konar, S.
J. Solid State Chem., **2015**, 229, 103–111.
42. Europium based Dinuclear Triple Stranded Helicate vs Tetranuclear Quadruple Stranded Helicate: Effect of Stoichiometric Ratio on the Supramolecular Self-assembly.
Malviya, A., Jena, H. S., Mondal, A., Konar, S.
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Sanda, S., Parshamoni, S., Biswas, S., Konar, S.
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Mondal, A. K., Goswami, S., Konar, S.
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46. Concomitant spin-canted antiferromagnetic ordering and proton conduction in homometallic and homoleptic coordination polymers.
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Bhattacharjee, L.; Mohanta, K.; Pal, K.; Koner, A. L.; Bhattacharjee, R. R.,
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51. A ratiometric fluorescent probe for detection of biogenic primary amines with nanomolar sensitivity.
Mallick, S.; Chandra, F.; Koner, A. L.,
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(DOI: 10.1002/chem.201504269).
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