

1 References(Publications-2016)

- [1] Koushik Ghosh, Raja K. Rit, E. Ramesh, and Akhila K. Sahoo. Ruthenium-Catalyzed Hydroarylation and One-Pot Twofold Unsymmetrical CH Functionalization of Arenes. *Angewandte Chemie International Edition*, 55(27):7821–7825, jun 2016.
- [2] Nagarjuna Kommu, A. Sudheer Kumar, J. Raveendra, Vikas D. Ghule, and Akhila K. Sahoo. Synthesis, Characterization, and Energetic Studies of Polynitro Aryl-1,2,3-2 H -Triazoles. *Asian Journal of Organic Chemistry*, 5(1):138–146, jan 2016.
- [3] Sanatan Nayak, B. Prabagar, and Akhila K. Sahoo. Gold-catalyzed cyclization and cycloisomerization of yne-tethered ynamide: the significance of a masked enol-equivalent of an amide. *Org. Biomol. Chem.*, 14(3):803–807, 2016.
- [4] B. Prabagar, Sanatan Nayak, Rajendra K. Mallick, Rangu Prasad, and Akhila K. Sahoo. Triphenylphosphine promoted regio and stereoselective α -halogenation of ynamides. *Org. Chem. Front.*, 3(1):110–115, 2016.
- [5] B. Prabagar, Sanatan Nayak, Rangu Prasad, and Akhila K. Sahoo. Dimethyl Sulfoxide and N -Iodosuccinimide Promoted 5- exo-dig Oxidative Cyclization of Yne-Tethered Ynamide: Access to Pyrrolidones and Spiro-pyrrolidones. *Organic Letters*, 18(13):3066–3069, jul 2016.
- [6] E. Ramesh, Majji Shankar, Suman Dana, and Akhila K. Sahoo. Silver-mediated oxidative annulation of N-arylthio succinimides with alkynes: direct access to benzo[b]thiophenes. *Org. Chem. Front.*, 3(9):1126–1130, 2016.
- [7] K. S. Rao, A. K. Chaudhary, N. Kommu, and A. K. Sahoo. Evaluation of thermal stability and acoustic fingerprint spectra of energetic 1,2,4-triazoles based on bond lengths of chemical substituents using pulsed photoacoustic technique. *RSC Adv.*, 6(5):4053–4062, 2016.
- [8] Raja K. Rit, Koushik Ghosh, Rajib Mandal, and Akhila K. Sahoo. Ruthenium-Catalyzed Intramolecular Hydroarylation of Arenes and Mechanistic Study: Synthesis of Dihydrobenzofurans, Indolines, and Chromans. *The Journal of Organic Chemistry*, 81(18):8552–8560, sep 2016.
- [9] Majji Shankar, Koushik Ghosh, Kallol Mukherjee, Raja K. Rit, and Akhila K. Sahoo. Ru-Catalyzed One-Pot Diannulation of Heteroaryls: Direct Access to π -Conjugated Polycyclic Amides. *Organic Letters*, 18(24):6416–6419, dec 2016.
- [10] Geetha Bolla and Ashwini Nangia. Binary and ternary cocrystals of sulfa drug acetazolamide with pyridine carboxamides and cyclic amides. *IUCrJ*, 3(2):152–160, mar 2016.
- [11] Geetha Bolla and Ashwini Nangia. Pharmaceutical cocrystals: walking the talk. *Chem. Commun.*, 52(54):8342–8360, 2016.

- [12] Gautam R. Desiraju and Ashwini Nangia. Use of the Term Crystal Engineering in the Regulatory and Patent Literature of Pharmaceutical Solid Forms. Some Comments. *Crystal Growth & Design*, 16(10):5585–5587, oct 2016.
- [13] Anilkumar Gunnam, Kuthuru Suresh, Ramesh Ganduri, and Ashwini Nangia. Crystal engineering of a zwitterionic drug to neutral cocrystals: a general solution for floxacins. *Chem. Commun.*, 52(85):12610–12613, 2016.
- [14] Sameer Ketkar, Sudhir K. Pagire, N. Rajesh Goud, Kakasaheb Mahadik, Ashwini Nangia, and Anant Paradkar. Tracing the Architecture of Caffeic Acid Phenethyl Ester Cocrystals: Studies on Crystal Structure, Solubility, and Bioavailability Implications. *Crystal Growth & Design*, 16(10):5710–5716, oct 2016.
- [15] M. K. Chaitanya Mannava, Kuthuru Suresh, and Ashwini Nangia. Enhanced Bioavailability in the Oxalate Salt of the Anti-Tuberculosis Drug Ethionamide. *Crystal Growth & Design*, 16(3):1591–1598, mar 2016.
- [16] Sudhir Mittapalli, Geetha Bolla, Sravankumar Perumalla, and Ashwini Nangia. Can we exchange water in a hydrate structure: a case study of etoricoxib. *CrystEngComm*, 18(16):2825–2829, 2016.
- [17] Kuthuru Suresh, M. K. Chaitanya Mannava, and Ashwini Nangia. Cocrystals and alloys of nitazoxanide: enhanced pharmacokinetics. *Chem. Commun.*, 52(22):4223–4226, 2016.
- [18] Battini Swapna, Kuthuru Suresh, and Ashwini Nangia. Color polymorphs of aldose reductase inhibitor epalrestat: configurational, conformational and synthon differences. *Chem. Commun.*, 52(21):4037–4040, 2016.
- [19] Rajesh Thipparaboina, Sudhir Mittapalli, Sowjanya Thatikonda, Ashwini Nangia, V. G. M. Naidu, and Nalini R. Shastri. Syringic Acid: Structural Elucidation and Co-Crystallization. *Crystal Growth & Design*, 16(8):4679–4687, aug 2016.
- [20] Xian-Zhen Yin, Li Wu, Ying Li, Tao Guo, Hai-Yan Li, Ti-Qiao Xiao, Peter York, Ashwini Nangia, Shuang-Ying Gui, and Ji-Wen Zhang. Visualization and quantification of deformation behavior of clopidogrel bisulfate polymorphs during tableting. *Scientific Reports*, 6(1):21770, apr 2016.
- [21] Xian-Zhen Yin, Ti-Qiao Xiao, Ashwini Nangia, Shuo Yang, Xiao-Long Lu, Hai-Yan Li, Qun Shao, You He, Peter York, and Ji-Wen Zhang. In situ 3D topographic and shape analysis by synchrotron radiation X-ray microtomography for crystal form identification in polymorphic mixtures. *Scientific Reports*, 6(1):24763, jul 2016.
- [22] Navendu Mondal, Sneha Paul, and Anunay Samanta. Photoinduced 2-way electron transfer in composites of metal nanoclusters and semiconductor quantum dots. *Nanoscale*, 8(29):14250–14256, 2016.

- [23] Navendu Mondal and Anunay Samanta. Ultrafast Charge Transfer and Trapping Dynamics in a Colloidal Mixture of Similarly Charged CdTe Quantum Dots and Silver Nanoparticles. *The Journal of Physical Chemistry C*, 120(1):650–658, jan 2016.
- [24] Sudipta Seth, Navendu Mondal, Satyajit Patra, and Anunay Samanta. Fluorescence Blinking and Photoactivation of All-Inorganic Perovskite Nanocrystals CsPbBr₃ and CsPbBr₂I. *The Journal of Physical Chemistry Letters*, 7(2):266–271, jan 2016.
- [25] Sudipta Seth and Anunay Samanta. A Facile Methodology for Engineering the Morphology of CsPbX₃ Perovskite Nanocrystals under Ambient Condition. *Scientific Reports*, 6(1):37693, dec 2016.
- [26] Kengadarane Anebouselvy and Dhevalapally B. Ramachary. Synthesis of Substituted 1,2,3-Triazoles through Organocatalysis. In *Click Reactions in Organic Synthesis*, pages 99–139. Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany, jul 2016.
- [27] Dhevalapally B. Ramachary and Patoju M. Krishna. Asymmetric Synthesis of Nature-Inspired Bioactive Spiro Compounds through Organocatalytic Diels-Alder Reactions. *Asian Journal of Organic Chemistry*, 5(6):729–734, jun 2016.
- [28] Dhevalapally B Ramachary, Patoju M Krishna, and T Prabhakar Reddy. Stereoselective synthesis of cyclopentanone-fused benzosultams through Tomita zipper cyclization. *Org. Biomol. Chem.*, 14(27):6413–6416, 2016.
- [29] Dhevalapally B. Ramachary, T. Prabhakar Reddy, and A. Suresh Kumar. Organocatalytic azomethine imine-olefin click reaction: high-yielding stereoselective synthesis of spiroindane-1,3-dione-pyrazolidinones. *Org. Biomol. Chem.*, 14(27):6517–6522, 2016.
- [30] Dhevalapally B. Ramachary, P. Sreekanth Reddy, Kodambahalli S. Shruthi, R. Madhavachary, and P. V. Govardhana Reddy. A Brønsted Acid-Primary Amine as a Synergistic Catalyst for Stereoselective Asymmetric Diels-Alder Reactions. *European Journal of Organic Chemistry*, 2016(31):5220–5226, nov 2016.
- [31] Dhevalapally B. Ramachary and Kodambahalli S. Shruthi. A Brønsted Acid-Amino Acid as a Synergistic Catalyst for Asymmetric List-Lerner-Barbas Aldol Reactions. *The Journal of Organic Chemistry*, 81(6):2405–2419, mar 2016.
- [32] A. Suresh Kumar, T. Prabhakar Reddy, R. Madhavachary, and Dhevalapally B. Ramachary. Rawal’s catalyst as an effective stimulant for the highly asymmetric Michael addition of β -keto esters to functionally rich nitro-olefins. *Org. Biomol. Chem.*, 14(24):5494–5499, 2016.
- [33] Debashis Barik, David A. Ball, Jean Peccoud, and John J. Tyson. A Stochastic Model of the Yeast Cell Cycle Reveals Roles for Feedback Regulation in Limiting Cellular Variability. *PLOS Computational Biology*, 12(12):e1005230, dec 2016.

- [34] Srinivasarao Allu, Manjula Ravi, and K. C. Kumara Swamy. Rhodium(III)-Catalysed Carbenoid C(sp²)-H Functionalisation of Aniline Substrates with α -Diazo Esters: Formation of Oxindoles and Characterisation/Utility of an Intermediate-Like Rhodacycle. *European Journal of Organic Chemistry*, 2016(34):5697–5705, dec 2016.
- [35] Mandala Anitha, G. Gangadhararao, and K. C. Kumara Swamy. Base catalysed intermolecular cyclisation of N-protected o-amino benzaldehyde/acetophenone with phosphorus/sulphur based allenes: facile synthesis of substituted quinolines. *Org. Biomol. Chem.*, 14(14):3591–3602, 2016.
- [36] Nagaraju Koppanathi and K. C. Kumara Swamy. Regioselective carboanulation of electron-deficient allenes with dialkyl (2-formylphenyl)malonates leading to multisubstituted naphthalenes. *Org. Biomol. Chem.*, 14(22):5079–5087, 2016.
- [37] A. Leela Siva Kumari and K. C. Kumara Swamy. Gold-Catalyzed Concomitant [3 + 3] Cycloaddition/Cascade Heterocyclization of Enynones/Enynals with Azides Leading to Furanotriazines. *The Journal of Organic Chemistry*, 81(4):1425–1433, feb 2016.
- [38] A. Leela Siva Kumari, Alla Siva Reddy, and K. C. Kumara Swamy. Exploring the gold mine: [Au]-catalysed transformations of enynals, enynones and enynols. *Org. Biomol. Chem.*, 14(28):6651–6671, 2016.
- [39] A. Leela Siva Kumari, Alla Siva Reddy, and K. C. Kumara Swamy. Transition Metal-Free Cascade Cyclization of Epoxy-Ynamides: To Go for 1,3-Oxazines or 1,4-Oxazines? *Organic Letters*, 18(21):5752–5755, nov 2016.
- [40] Alla Siva Reddy, A. Leela Siva Kumari, Soumen Saha, and K. C. Kumara Swamy. Palladium-Catalyzed Tandem-Cyclization of Functionalized Ynamides: An Approach to Benzosultams. *Advanced Synthesis & Catalysis*, 358(10):1625–1638, may 2016.
- [41] K. C. Kumara Swamy, R. Rama Suresh, G. Gangadhararao, and M. Anitha. Phosphorus-based allenes as scaffolds in cycloaddition and cyclization reactions. *Phosphorus, Sulfur, and Silicon and the Related Elements*, 191(11-12):1427–1432, dec 2016.
- [42] R. N. Prasad Tulichala and K. C. Kumara Swamy. Reactivity of alkynylindole-2-carboxamides in [Pd]-catalysed CH activation and phase transfer catalysis: formation of pyrrolo-diindolones vs. β -carbolinones. *Org. Biomol. Chem.*, 14(19):4519–4533, 2016.
- [43] Sanyasinaidu Gottapu and Krishnamurthi Muralidharan. Room temperature synthesis of organic surfactant-free PbS and PbSe nanoparticles exhibiting NIR absorption. *New J. Chem.*, 40(1):832–837, 2016.
- [44] K. Praveen Kumar Naik, V. Sreeramulu, E. Ramya, K. Muralidharan, and D. Narayana Rao. Design and synthesis of hyperstructured molecules based on cyclophosphazene core for multiphoton absorption. *Materials Chemistry and Physics*, 180:38–45, sep 2016.

- [45] Muddamarri Hanumantha Rao and Krishnamurthi Muralidharan. closo-Dodecaborate $B_{12}H_{12}^{2-}$ -salts with nitrogen based cations and their energetic properties. *Polyhedron*, 115:105–110, sep 2016.
- [46] Adinarayana Marada, Srinivasu Karri, Swati Singh, Praveen Kumar Allu, Yerranna Boggula, Thanuja Krishnamoorthy, Lalitha Guruprasad, and Naresh Babu V Sepuri. A Single Point Mutation in Mitochondrial Hsp70 Cochaperone Mge1 Gains Thermal Stability and Resistance. *Biochemistry*, 55(51):7065–7072, dec 2016.
- [47] Swati Singh, Karunakar Tanneeru, and Lalitha Guruprasad. Structure and dynamics of *H. pylori* 98-10 C5-cytosine specific DNA methyltransferase in complex with S-adenosyl-l-methionine and DNA. *Mol. BioSyst.*, 12(10):3111–3123, 2016.
- [48] Rafiya Sultana, Karunakar Tanneeru, Ashwin B. R. Kumar, and Lalitha Guruprasad. Prediction of Certain Well-Characterized Domains of Known Functions within the PE and PPE Proteins of Mycobacteria. *PLOS ONE*, 11(2):e0146786, feb 2016.
- [49] Ch. Sridhar Reddy and M. Durga Prasad. A Gaussian Wave Packet Propagation Approach to Vibrationally Resolved Optical Spectra at Non-Zero Temperatures. *The Journal of Physical Chemistry A*, 120(16):2583–2590, apr 2016.
- [50] Subha Narayan Das, Martin Wagenknecht, Pavan Kumar Nareddy, Bhoopal Bhuvanachandra, Ramana Niddana, Rengarajan Balamurugan, Musti J. Swamy, Bruno M. Moerschbacher, and Appa Rao Podile. Amino Groups of Chitosan Are Crucial for Binding to a Family 32 Carbohydrate Binding Module of a Chitosanase from *Paenibacillus elgii*. *Journal of Biological Chemistry*, 291(36):18977–18990, sep 2016.
- [51] Debparna Datta, Gottfried Pohlentz, Mona Schulte, Mathias Kaiser, Francisco M. Goycoolea, Johannes Müthing, Michael Mormann, and Musti J. Swamy. Physico-chemical characteristics and primary structure of an affinity-purified α -D-galactose-specific, jacalin-related lectin from the latex of mulberry (*Morus indica*). *Archives of Biochemistry and Biophysics*, 609:59–68, nov 2016.
- [52] Juan P. Fuenzalida, Pavan K. Nareddy, Ignacio Moreno-Villoslada, Bruno M. Moerschbacher, Musti J. Swamy, Shu Pan, Marc Ostermeier, and Francisco M. Goycoolea. On the role of alginate structure in complexing with lysozyme and application for enzyme delivery. *Food Hydrocolloids*, 53:239–248, feb 2016.
- [53] Beatriz Santos-CarballalMusti J. SwamyBruno M. MoerschbacherFrancisco M. Goycoolea, Beatriz Santos-Carballal, Musti J. Swamy, Bruno M. Moerschbacher, Francisco M. Goycoolea, and Beatriz Santos-CarballalMusti J. SwamyBruno M. MoerschbacherFrancisco M. Goycoolea. SYBR Gold Fluorescence Quenching is a Sensitive Probe of Chitosan-microRNA Interactions. *Journal of Fluorescence*, 26(1):37–42, jan 2016.

- [54] C. Sudheer Kumar, D. Sivaramakrishna, Sanjay K. Ravi, and Musti J. Swamy. Fluorescence investigations on choline phospholipid binding and chemical unfolding of HSP-1/2, a major protein of horse seminal plasma. *Journal of Photochemistry and Photobiology B: Biology*, 158:89–98, may 2016.
- [55] C. Sudheer Kumar and Musti J. Swamy. A pH Switch Regulates the Inverse Relationship between Membranolytic and Chaperone-like Activities of HSP-1/2, a Major Protein of Horse Seminal Plasma. *Biochemistry*, 55(26):3650–3657, jul 2016.
- [56] C. Sudheer Kumar and Musti J. Swamy. HSP-1/2, a major horse seminal plasma protein, acts as a chaperone against oxidative stress. *Biochemical and Biophysical Research Communications*, 473(4):1058–1063, may 2016.
- [57] D. Sivaramakrishna and Musti J. Swamy. Structure, supramolecular organization and phase behavior of N-acyl- β -alanines: Structural homologues of mammalian brain constituents N-acylglycine and N-acyl-GABA. *Chemistry and Physics of Lipids*, 201:1–10, dec 2016.
- [58] D. Sivaramakrishna and Musti J. Swamy. Synthesis, characterization and thermotropic phase behavior of a homologous series of N-acyl-l-alaninols and interaction of N-myristoyl l-alaninol with dimyristoylphosphatidylcholine. *Chemistry and Physics of Lipids*, 196:5–12, mar 2016.
- [59] Santosh Kumar Behera, Gopal Sadhuragiri, Palani Elumalai, M. Sathiyendiran, and G. Krishnamoorthy. Exclusive excited state intramolecular proton transfer from a 2-(2-hydroxyphenyl)benzimidazole derivative. *RSC Adv.*, 6(64):59708–59717, 2016.
- [60] Bhaskaran Shankar, Ramar Arumugam, Palani Elumalai, and Malaichamy Sathiyendiran. Rhenium(I)-Based Monocyclic and Bicyclic Phosphine Oxide-Coordinated Supramolecular Complexes. *ACS Omega*, 1(4):507–517, oct 2016.
- [61] Bhaskaran Shankar, Rajendiran Marimuthu, Shankar Deval Sathiyashivan, and Malaichamy Sathiyendiran. Spheroid Metallacycles and Metallocavities with Calixarene- and/or Cleft-Shaped Receptors on the Surface. *Inorganic Chemistry*, 55(9):4537–4544, may 2016.
- [62] Sarita Yadav, Deepak Gupta, and Malaichamy Sathiyendiran. Silver(I) based dinuclear metallacycles with free thiophenyl/thiomethyl units. *Journal of Chemical Sciences*, 128(2):177–184, feb 2016.
- [63] Gunaseelan Dhanarajan, Vivek Rangarajan, Perali Ramu Sridhar, and Ramkrishna Sen. Development and Scale-up of an Efficient and Green Process for HPLC Purification of Antimicrobial Homologues of Commercially Important Microbial Lipopeptides. *ACS Sustainable Chemistry & Engineering*, 4(12):6638–6646, dec 2016.

- [64] Venkataraman Ganesh, Perali Ramu Sridhar, and Srinivasan Chandrasekaran. Synthetic Applications of Carbohydrate-derived Donor-Acceptor Cyclopropanes. *Israel Journal of Chemistry*, 56(6-7):417–430, jun 2016.
- [65] Bandi Ramakrishna, Chalapala Sudharani, and Perali Ramu Sridhar. Synthesis of β -C-Glycosyl Amino Acids by Ring Opening of Donor-Acceptor Spiro-cyclopropanecarboxylated Sugars. *Israel Journal of Chemistry*, 56(6-7):558–565, jun 2016.
- [66] Gadi Madhusudhan Reddy, Boddu Uma Maheswara Rao, and Perali Ramu Sridhar. Stereoselective Synthesis of 2-(β -C-Glycosyl)glycols: Access to Unusual β -C-Glycosides from 3-Deoxyglycols. *The Journal of Organic Chemistry*, 81(7):2782–2793, apr 2016.
- [67] Brijesh Chandra, Navendu Mondal, B. Sathish Kumar, and Pradeepta K. Panda. New carbazole appended subporphyrin displaying intramolecular charge transfer and solid state fluorescence. *Journal of Porphyrins and Phthalocyanines*, 20:429–437, jan 2016.
- [68] Subha Narayan Das, Martin Wagenknecht, Pavan Kumar Nareddy, Bhoopal Bhuvanachandra, Ramana Niddana, Rengarajan Balamurugan, Musti J. Swamy, Bruno M. Moerschbacher, and Appa Rao Podile. Amino Groups of Chitosan Are Crucial for Binding to a Family 32 Carbohydrate Binding Module of a Chitosanase from *Paenibacillus elgii*. *Journal of Biological Chemistry*, 291(36):18977–18990, sep 2016.
- [69] Shanmugam Sakthivel, Raveendra Babu Kothapalli, and Rengarajan Balamurugan. The directing group wins over acidity: kinetically controlled regioselective lithiation for functionalization of 2-(2,4-dihalophenyl)-1,3-dithiane derivatives. *Org. Biomol. Chem.*, 14(5):1670–1679, 2016.
- [70] Chandrasahas Tarigopula, Ganesh Kumar Thota, and Rengarajan Balamurugan. Efficient Synthesis of Functionalized β -Keto Esters and β -Diketones through Regioselective Hydration of Alkynyl Esters and Alkynyl Ketones by Use of a Cationic NHC-Au I Catalyst. *European Journal of Organic Chemistry*, 2016(35):5855–5861, dec 2016.
- [71] Yemini S. L. V. Narayana, Dasari Venkatakrishnarao, Arani Biswas, Mahamad Ahamad Mohiddon, Nirmal Viswanathan, and Rajadurai Chandrasekar. Visible-Near-Infrared Range Whispering Gallery Resonance from Photonic μ -Sphere Cavities Self-Assembled from a Blend of Polystyrene and Poly[4,7-bis(3-octylthiophene-2-yl)benzothiadiazole-co-2,6-bis(pyrazolyl)pyridine] Coordinated to Tb(acac)₃. *ACS Applied Materials & Interfaces*, 8(1):952–958, jan 2016.
- [72] M. V. Rasna, K. P. Zuhail, U. V. Ramudu, R. Chandrasekar, and Surajit Dhara. Dynamics of electro-orientation of birefringent microsheets in isotropic and nematic liquid crystals. *Physical Review E*, 94(3):032701, sep 2016.

- [73] Radhika Vattikunta, Dasari Venkatakrishnarao, Mahamad Ahamad Mohiddon, and Rajadurai Chandrasekar. Self-Assembly of Chalcone Type Push-Pull Dye Molecules into Organic Single Crystalline Microribbons and Rigid Microrods for Vis/NIR Range Photonic Cavity Applications. *ChemPhysChem*, 17(21):3435–3441, nov 2016.
- [74] Dasari Venkatakrishnarao and Rajadurai Chandrasekar. Engineering the Self-Assembly of DCM Dyes into Whispering-Gallery-Mode μ -Hemispheres and Fabry-Pèrot-Type μ -Rods for Visible-NIR (600-875 nm) Range Optical Microcavities. *Advanced Optical Materials*, 4(1):112–119, jan 2016.
- [75] Uppari Venkataramudu, Dasari Venkatakrishnarao, Naisa Chandrasekhar, Mahamad Ahamad Mohiddon, and Rajadurai Chandrasekar. Single-particle to single-particle transformation of an active type organic μ -tubular homo-structure photonic resonator into a passive type hetero-structure resonator. *Phys. Chem. Chem. Phys.*, 18(23):15528–15533, 2016.
- [76] Suman Kr Ghosh and Rajagopal Nagarajan. Deep eutectic solvent mediated synthesis of quinazolinones and dihydroquinazolinones: synthesis of natural products and drugs. *RSC Adv.*, 6(33):27378–27387, 2016.
- [77] Suman Kr Ghosh and Rajagopal Nagarajan. Total synthesis of actinophenanthroline A via double DoebnerMiller reaction. *Tetrahedron Letters*, 57(36):4009–4011, sep 2016.
- [78] Suman Kr Ghosh and Rajagopal Nagarajan. Total synthesis of penipanoid C, 2-(4-hydroxybenzyl)quinazolin-4(3H)-one and NU1025. *Tetrahedron Letters*, 57(38):4277–4279, sep 2016.
- [79] Badher Naveen, Anwita Mudiraj, Geeviman Khamushavalli, Phanithi Prakash Babu, and Rajagopal Nagarajan. Concise total synthesis of water soluble metatacarboline A, C, D, E and F and its anticancer activity. *European Journal of Medicinal Chemistry*, 113:167–178, may 2016.
- [80] Vedichi Madhu, Ramababu Bolligarla, Indravath K. Naik, Raju Mekala, and Samar K. Das. A $\text{Cu}_4 \text{I}_4$ Cluster Supported on a Metal-Dithiolato Complex Anion Causes its Conformational Change Leading to a Doubly-Bridged Curved Coordination Polymer and its Reactivity with a Diamine Resulting in the Emergence of a $[\text{M}(\text{diamine})]$. *European Journal of Inorganic Chemistry*, 2016(26):4257–4264, sep 2016.
- [81] Paulami Manna, Joyashish Debgupta, Suranjana Bose, and Samar K. Das. A Mononuclear Co II Coordination Complex Locked in a Confined Space and Acting as an Electrochemical Water-Oxidation Catalyst: A Ship-in-a-Bottle Approach. *Angewandte Chemie International Edition*, 55(7):2425–2430, feb 2016.
- [82] Raju Mekala, Sabbani Supriya, and Samar K. Das. Isolation of Blackberry-Shaped Nanoparticles of a Giant $\text{Mo}_{72} \text{Fe}_{30}$ Cluster and Their Transformation to a Crystalline Nanoferric Molybdate. *Inorganic Chemistry*, 55(24):12504–12507, dec 2016.

- [83] Monima Sarma, Tanmay Chatterjee, Ramakrishna Bodapati, Katturi Naga Krishnakanth, Syed Hamad, S. Venugopal Rao, and Samar K. Das. Cyclometalated Iridium(III) Complexes Containing 4,4- π -Conjugated 2,2-Bipyridine Derivatives as the Ancillary Ligands: Synthesis, Photophysics, and Computational Studies. *Inorganic Chemistry*, 55(7):3530–3540, apr 2016.
- [84] G. Narendra Babu and Samudranil Pal. Mono- and dinuclear palladium(II) cyclometallates with 4-R-N¹-(mesitylidene)benzohydrazides and mono- and diphosphines. *Journal of Organometallic Chemistry*, 805:19–26, mar 2016.
- [85] G. Narendra Babu and Samudranil Pal. Mono- and tetranuclear cyclopalladated complexes with N-(9-anthracenylidene)benzothiohydrazide: Syntheses, structures and catalytic applications. *Journal of Organometallic Chemistry*, 824:42–47, dec 2016.
- [86] Sathish Kumar Kurapati and Samudranil Pal. cis -Dioxomolybdenum(VI) complexes with unsymmetric linear tetradentate ligands: syntheses, structures and bromoperoxidase activities. *Applied Organometallic Chemistry*, 30(3):116–124, mar 2016.
- [87] Arpita Ghosh, Samala Nagaprasad Reddy, S. Rajagopala Reddy, and S. Mahapatra. Vibronic Coupling in the X² $\pi_g^2 \pi_u$ Band System of Diacetylene Radical Cation. *The Journal of Physical Chemistry A*, 120(40):7881–7889, oct 2016.
- [88] S. Gopikishan, I. Banerjee, K. A. Bogle, A. K. Das, A. P. Pathak, and S. K. Mahapatra. Paschen curve approach to investigate electron density and deposition rate of Cu in magnetron sputtering system. *Radiation Effects and Defects in Solids*, 171(11-12):999–1005, dec 2016.
- [89] Rudraditya Sarkar and S. Mahapatra. Vibronic Dynamics of Electronic Ground State of CH₂F₂⁺ and Its Deuterated Isotopomer. *The Journal of Physical Chemistry A*, 120(20):3504–3517, may 2016.
- [90] P. Srujana, Tarun Gera, and T. P. Radhakrishnan. Fluorescence enhancement in crystals tuned by a molecular torsion angle: a model to analyze structural impact. *Journal of Materials Chemistry C*, 4(27):6510–6515, 2016.
- [91] E Hariprasad U Divya Madhuri, V Kesava Rao and T P Radhakrishnan. In situ fabricated platinumopoly(vinyl alcohol) nanocomposite thin film: a highly reusable 'dip catalyst' for hydrogenation. *Materials Research Express*, 3(4):045018, 2016.
- [92] S.N. Raju Kutcherlapati, Niranjana Yeole, and Tushar Jana. Urease immobilized polymer hydrogel: Long-term stability and enhancement of enzymatic activity. *Journal of Colloid and Interface Science*, 463:164–172, feb 2016.

- [93] Kuruma Malkappa, Billa Narasimha Rao, and Tushar Jana. Functionalized polybutadiene diol based hydrophobic, water dispersible polyurethane nanocomposites: Role of organo-clay structure. *Polymer*, 99:404–416, sep 2016.
- [94] Balakondareddy Sana and Tushar Jana. Polybenzimidazole composite with acidic surfactant like molecules: A unique approach to develop PEM for fuel cell. *European Polymer Journal*, 84:421–434, nov 2016.
- [95] Shuvra Singha and Tushar Jana. Influence of interfacial interactions on the properties of polybenzimidazole/clay nanocomposite electrolyte membrane. *Polymer*, 98:20–31, aug 2016.
- [96] Shuvra Singha and Tushar Jana. Proton Conducting Channels in Polybenzimidazole Nanocomposites. *Journal of Indian Institute of Science*, 96(4):351–364, 2016.
- [97] Shuvra Singha and Tushar Jana. Self-Assembly of Nanofillers in Improving the Performance of Polymer Electrolyte Membrane. *Macromolecular Symposia*, 369(1):49–55, nov 2016.
- [98] Shuvra Singha, Tushar Jana, J. Annie Modestra, A. Naresh Kumar, and S. Venkata Mohan. Highly efficient sulfonated polybenzimidazole as a proton exchange membrane for microbial fuel cells. *Journal of Power Sources*, 317:143–152, jun 2016.
- [99] Deevi Basavaiah, Balthu Lingaiah, Guddeti Chandrashekar Reddy, and Bharat Chandra Sahu. Baylis-Hillman Acetates in Synthesis: Copper(I)/tert -Butyl Hydroperoxide Promoted One-Pot Oxidative Intramolecular Cyclization Protocol for the Preparation of Pyrrole-Fused Compounds and the Formal Synthesis of (-)-Crispine A. *European Journal of Organic Chemistry*, 2016(14):2398–2403, may 2016.
- [100] Henning Hopf, Alain Krief, Stephen A. Matlin, and G. Mehta. Die globale Verantwortung der Chemie. *Nachrichten aus der Chemie*, 64(5):547–548, may 2016.
- [101] Stephen A. Matlin, G. Mehta, Henning Hopf, and Alain Krief. One-world chemistry and systems thinking. *Nature Chemistry*, 8(5):393–398, may 2016.
- [102] G. Mehta, A. Krief, H. Hopf, and stephen A. Matlin. Chemical societies must adapthere’s how to do it. *chemistry world*, page 1017387, 2016.
- [103] Showkat Rashid, Bilal A. Bhat, Saikat Sen, and G. Mehta. 2,2-Peroxybis(tetrahydrofuran), a tenuously stable but persistent hazardous contaminant of THF: a fortuitous entrapment as co-crystal with a polycyclitol. *Tetrahedron Letters*, 57(48):5355–5358, nov 2016.
- [104] Ramesh Samineni, Chandramohan Reddy C. Bandi, Pabbaraja Srihari, and G. Mehta. Multiple Aryne Insertions into Oxindoles: Synthesis of Bioactive 3,3-Diarylated Oxindoles and Dibenzo[b , e]azepin-6-ones. *Organic Letters*, 18(23):6184–6187, dec 2016.

- [105] Ramesh Samineni, Pabbaraja Srihari, and G. Mehta. Versatile Route to Benzoannulated Medium-Ring Carbocycles via Aryne Insertion into Cyclic 1,3-Diketones: Application to a Synthesis of Radermachol. *Organic Letters*, 18(12):2832–2835, jun 2016.
- [106] P. Srihari, G. Mehta, S. Chakravarty, A. Kumar, and R. Sameneni. Spirocyclic compounds as neurotrophic, neurogenic and neuroprotective agents and process for preparation thereof (0303NF2015). page Indian Application No: IN 201611007649 A 20170908, 2016.
- [107] Welt, H. Hopf, S. Maitlin, A. Krief, and G. Mehta. Chemie für die eine. *Nachr. Chem.*, 64:1190, 2016.
- [108] W. A. Yahya, K. J. Oyewumi, and K. D. Sen. Quantum information entropies for the l -state PöschlTeller-type potential. *Journal of Mathematical Chemistry*, 54(9):1810–1821, oct 2016.
- [109] Mariappan Periasamy, Polimera Obula Reddy, Iddum Satyanarayana, Lakavathu Mohan, and Athukuri Edukondalu. Diastereoselective Synthesis of Tetrasubstituted Propargylamines via Hydroamination and Metalation of 1-Alkynes and Their Enantioselective Conversion to Trisubstituted Chiral Allenes. *The Journal of Organic Chemistry*, 81(3):987–999, feb 2016.
- [110] Syed M. Elahi and Melath V. Rajasekharan. Alkali Ion - Ce^{3+} - DipicH₂ System : Coordination Networks and Water Clusters. *ChemistrySelect*, 1(20):6515–6522, dec 2016.