

## Journal Publication 2013

Sl.No.	Authors	Title	Year	Source Title	Vol	Iss	Page start	Page end
1	Shankar K., Das B., Baruah J.B.	Organic cations controlling the nuclearity of copper(II) 2,5-pyridinedicarboxylates	2013	RSC Advances	3	48	26220	26229
2	Shankar K., Das B., Baruah J.B.	Cation exchange in layered copper(II) coordination polymers	2013	European Journal of Inorganic Chemistry		36	6147	6155
3	Nath B., Baruah J.B.	Polymorphs, solvates, polymorphs of solvate and Cs <sup>+</sup> - $\pi$ interactions of fluorine-substituted bis-phenols	2013	Crystal Growth and Design	13	11	5146	5155
4	Phukan N., Baruah J.B.	Detection of Al <sup>3+</sup> and Zn <sup>2+</sup> ions by 2-(5-methylthiazol-2-yliminomethyl) phenol	2013	Inorganic Chemistry Communications	37		89	92
5	Jali B.R., Baruah J.B.	Cocrystals of 2,4-diamino-6-phenyl-1,3,5-triazine with dicarboxylic acids	2013	Journal of Chemical Crystallography	43	10	531	537
6	Nath J. K., Lan Y., Powell A. K., Baruah J. B.	Effect of ancillary ligands in hydrolysis of 1,8-naphthalic anhydride for synthesis of metallacycles of Co <sup>2+</sup> , Ni <sup>2+</sup> and Zn <sup>2+</sup>	2013	Zeitschrift für Anorganische und Allgemeine Chemie	639		2250	2257
7	Nath B., Baruah J.B.	Polymorphism and porosity in 4-[(4-hydroxy-3,5-dimethylphenyl)(5-methyl-1H-imidazol-4-yl)methyl]2,6-dimethylphenol.	2013	CrystEngComm	15		6249	6258
8	Singh D., Baruah J.B.	Guest inclusion in cyclic imides containing flexible tethers	2013	Journal of Inclusion Phenomena and Macrocyclic Chemistry	76		269	281
9	Dash N., Mishra A., Krishnamoorthy G.	Alkyl chain dependent interactions of ligands with bovine serum albumin	2013	Journal of Pharmaceutical and Biomedical Analysis	77		55	62
10	Das B., Crans D.C., Baruah J.B.	Cation exchange, solvent free synthesis and packing patterns of quinolinium nickel(II) dipicolinates	2013	Inorganica Chimica Acta	408		204	208
11	Mishra A., Thangamani A., Chatterjee S., Chipem F.A.S., Krishnamoorthy G.	Photoisomerization of trans-2-[4'-(Dimethylamino)styryl]benzothiazole	2013	Photochemistry and Photobiology	89	1	247	252
12	Jali B.R., Baruah J.B.	Recognition of a bromide ion by the protonated form of 2-(1H-imidazol-2-ylthio)-3-methylnaphthalene-1,4-dione	2013	ChemPlusChem	78	6	589	597
13	Kumar, V.; Kalita, A.; Mondal, B	Phenol ring nitration induced by unprecedented reduction of copper(II) centre by nitrogen dioxide	2013	Dalton Trans.	42		16264	16267

14	Nath J.K., Baruah J.B.	Water assisted anion chains and anion dependent fluorescence emission in salts of N,N'-bis(3-imidazol-1-ylpropyl)naphthalenediimide	2013	New Journal of Chemistry	37	5	1509	1519
15	Kalita, A.; Deka, R. C.; Mondal, B.	Reaction of a copper (II)-nitrosyl complex with hydrogen peroxide: Phenol ring nitration through a putative peroxyxynitrite intermediate	2013	Inorg. Chem.	52	19	10897	10903
16	Karmakar T., Kuang Y., Neamati N., Baruah J.B.	Cadmium complexes and cocrystals of indium complexes of benzothiazole derivatives and anticancer activities of the cadmium complexes	2013	Polyhedron	54		285	293
17	Kumar, P.; Kalita, A.; Mondal, B	Nitric oxide reactivity of Cu(II) complexes of tetra- and pentadentate ligands: structural influence in deciding the reduction pathway	2013	Dalton Trans.	42		5731	5739
18	De S., Baruah J.B.	Synthesis and characterization of some quinoline based bisphenols as sensing agents	2013	Der Pharma Chemica	5	1	145	149
19	Debnath R.K., Kalita A., Kumar P., Mondal B., Ganguli J.N.	Formation of a Cu(II)-phenoxy radical complex from a Cu(II)-phenolate complex: A new model for galactose oxidase	2013	Polyhedron	51	1	222	227
20	Nath J.K., Baruah J.B.	Copper(II) and cadmium(II) complexes with an imide tethered imidazole and a copper(II) coordination polymer through ring opening reaction	2013	Inorganic Chemistry Communications	30		128	132
21	Kumar P., Kalita A., Mondal B.	Nitric oxide sensors based on copper(II) complexes of N-donor ligands	2013	Inorganica Chimica Acta	404		88	96
22	Jali B.R., Masud K., Baruah J.B.	Selectivity in changes of fluorescence emission of 1,4-naphthoquinone derivatives by manganese and cadmium ions	2013	Polyhedron	51	1	75	81
23	Koner D., Panda A.N.	Quantum dynamical study of the He + NeH <sup>+</sup> reaction on a new analytical potential energy surface	2013	Journal of Physical Chemistry A	117	49	13070	13078
24	Kalita D., Baruah J.B.	1-Phenyl-3-(quinolin-5-yl)urea as a host for distinction of phthalic acid and terephthalic acid	2013	Journal of Chemical Sciences	125	2	267	273
25	Panda A.N., Plasser F., Aquino A.J.A., Burghardt I., Lischka H.	Electronically excited states in poly(p-phenylenevinylene): Vertical excitations and torsional potentials from high-level Ab initio calculations	2013	Journal of Physical Chemistry A	117	10	2181	2189
26	Das B., Baruah J.B.	Water clusters in mixed ionic complexes with metal dipicolinate anions	2013	Journal of Molecular Structure	1034		144	151
27	Sahu H., Panda A.N.	Computational study on the effect of substituents on the structural and electronic properties of thiophene-pyrrole-based pi-conjugated oligomers	2013	Macromolecules	46	3	844	855

28	Nath J.K., Lan Y., Powell A.K., Baruah J.B.	Duplex structure facilitated by aqua ligand in a copper(II) coordination polymer	2013	Inorganic Chemistry Communications	28		81	84
29	Sharma B., Paul S.	Effects of Dilute Aqueous NaCl Solution on Caffeine Aggregation	2013	J. Chem. Phys.	139		2E+05	
30	Phukan N., Baruah J.B.	A supramolecular assembly and complexes of zinc 2-hydroxy-3-naphthoate	2013	RSC Advances	3	4	1151	1157
31	Paul S.	Visiting Pressure and Osmolyte's Effect on Protein Solvation	2013	ISRAPS	25		92	
32	Singh D., Baruah J.B.	Hydroxy-carboxylates of manganese, zinc and cadmium	2013	Inorganica Chimica Acta	394		703	709
33	Paul S., Paul S.	The influence of trehalose on hydrophobic interactions of small nonpolar solute: A molecular dynamics simulation study	2013	J. Chem. Phys.	139		44508	
34	Phukan N., Baruah J.B.	Hydrolysis of 4-(4-oxopentan-2-ylideneamino)benzoic acid and in-situ formation of nickel(II), zinc(II) and cadmium(II) complexes of 4-aminobenzoic acid	2013	Inorganica Chimica Acta	394		430	435
35	Sarma R, Paul S.	Trimethylamine-N-oxide's Effect on Polypeptide Solvation at High Pressure: A Molecular Dynamics Simulation Study	2013	J. Phys. Chem. B	117		9056	
36	Nath B., Baruah J.B.	Structural Variations in Coordination Polymers of Sodium and Cesium Dicarboxylates	2013	Journal of Inorganic and Organometallic Polymers and Materials			1	7
37	Sarma R, Paul S.	Interactions of a S-peptide Analogue in Aqueous Urea and Trimethylamine-N-oxide Solutions: A Molecular Dynamics Simulation Study	2013	J. Chem. Phys.	139		34504	
38	Ghosh R., Deka J., Chattopadhyay A., Paul A.	Conformation aspect in the- $\alpha$ -amylase induced agglomeration of citrate-stabilized gold nanoparticles	2013	RSC Advances	3	45	23015	23027
39	Sarma R, Paul S.	Exploring the Molecular Mechanism of Trimethylamine-N-oxide's Ability to Counteract the Protein Denaturing Effects of Urea	2013	J. Phys. Chem. B	117		5691	
40	Khandelia R., Jaiswal A., Ghosh S.S., Chattopadhyay A.	Gold nanoparticle-protein agglomerates as versatile nanocarriers for drug delivery	2013	Small	9	20	3494	3505
41	Sarma R, Paul S.	Crucial importance of water structure modification on trimethylamine-N-oxide counteracting effect of high pressure	2013	J. Phys. Chem. B	117		677	
42	Das S., Paul A., Chattopadhyay A.	Nanocrystalline p-hydroxyacetanilide (paracetamol) and gold core-shell structure as a model drug deliverable organic-inorganic hybrid nanostructure	2013	Nanoscale	5	19	9247	9254

43	Barpuzary D., Qureshi M.	Enhanced photovoltaic performance of semiconductor nanolayered ZnO – CdS coupled with graphene oxide as a novel photoactive material	2013	ACS Appl. Mater. Interfaces	5		11673	
44	Md Palashuddin Sk., Jana C.K., Chattopadhyay A.	A gold-carbon nanoparticle composite as an efficient catalyst for homocoupling reaction	2013	Chemical Communications	49	74	8235	8237
45	Bag S. S., Kundu R., Talukdar S.	Unnatural triazolyl nucleoside stabilizes an abasic site containing DNA duplex equally as the stabilization of a natural A-T pair	2013	RSC Advances	3		21352	
46	Banerjee S., Sahoo A.K., Ghosh S.S., Chattopadhyay A.	Hydrogel nanocarrier encapsulated recombinant I $\kappa$ B $\alpha$ as a novel anticancer protein therapeutics.	2013	RSC Advances	3	33	14123	14131
47	Bag S. S., Kundu R.	Sensing of micellar microenvironment with dual fluorescent probe, triazolylpyrene (TNDMBPy)	2013	Journal of Fluorescence	23		939	
48	Dey K.K., Bhandari S., Bandyopadhyay D., Basu S., Chattopadhyay A.	The pH taxis of an intelligent catalytic microbot	2013	Small	9	11	1916	1920
49	Bag S. S., Kundu R., Jana S.	Triazolyl-Donor/Acceptor Sensing of biomolecules and label free discrimination of DNA containing a triple T-C/T-G mismatch pair with a fluorescence light-up probe, triazolylpyrene (TNDMBPy)	2013	Tetrahedron Lett.	54		2627	2632
50	Adhikari M.D., Goswami S., Panda B.R., Chattopadhyay A., Ramesh A.	Membrane-directed high bactericidal activity of (gold nanoparticle)-polythiophene composite for niche applications against pathogenic bacteria	2013	Advanced Healthcare Materials	2	4	599	606
51	Bag S. S., Ghorai S., Jana, S., Mukherjee C.	Solvatochromic fluorescent cyanophenoxazine: design, synthesis, photophysical properties and fluorescence light-up sensing of ct-DNA	2013	RSC Advances	3		5374	5377
52	Bhandari S., Begum R., Chattopadhyay A.	Surface ion engineering for tuning dual emission of ZnxCd 1-xS nanocrystals	2013	RSC Advances	3	9	2885	2888
53	Bag S. S., Talukdar S., Matsumoto K., Kundu R.	Triazolyl-Donor/Acceptor Chromophores Decorated Unnatural Nucleosides and Oligonucleotides with Duplex Stability Comparable to that of Natural A/T Pair	2013	The Journal of Organic Chemistry	78		278	291
54	Bagdi P.R., Basha R.S., Lal M., Khan A.T.	Bromodimethylsulfonium bromide (BDMS)-catalyzed synthesis of substituted pyrroles through a one-pot four-component reaction	2013	Chemistry Letters	42	8	939	941
55	Bag S. S., Pradhan M. K., Kundu R., Jana S.	Highly solvatochromic fluorescent naphthalimides: design, synthesis, photophysical properties and fluorescence switch-on sensing of ct-DNA	2013	Bioorganic & Medicinal Chemistry Letters	23		96	101

56	Laskar R. A., Begum N. A., Mir M. H., Rohman Md. R. Khan A. T.	Nickel(II) chloride hexahydrate catalyzed reaction of aromatic aldehydes with 2-mercaptoethanol: formation of supramolecular helical assemblage of the product	2013	Tetrahedron Lett.	54		5839	5844
57	Chaitanya N. K., Paul A., Saha A., Mandal B.,	Modulation of Aggregation Propensity of A $\beta$ 38 by Site Specific Multiple Proline Substitution	2013	International Journal of Peptide Research and Therapeutics	19	19	365	371
58	Lal M., Basha R.S., Sarkar S., Khan A.T.	2,6-Pyridinedicarboxylic acid as organocatalyst for the synthesis of 1,5-benzodiazepines through one-pot reaction	2013	Tetrahedron Letters	54	32	4264	4272
59	Thalluri K., Nadimpally K.C., Chakravarty M.P., Paul A., Mandal B.	Ethyl 2-(tert-butoxycarbonyloxyimino)-2-cyanoacetate (Boc-Oxyma) as coupling reagent for racemization-free esterification, thioesterification, amidation and peptide synthesis	2013	Advanced Synthesis and Catalysis	355		448	462
60	Khan A. T., Ghosh A., Basha R.S., Mir M. H.	Synthesis of trisubstituted 1H-pyrazole-4-carbodithioate in a one-pot three-component condensation reaction catalyzed by ferric sulfate.	2013	Asian J. Org. Chem	2		126	129
61	Dev D., Palakurthy N.B., Kumar N., Mandal B.	An unexpected involvement of ethyl-2-cyano-2-(hydroxyimino) acetate cleaved product in the promotion of the synthesis of nitriles from aldoximes: A mechanistic perception	2013	Tetrahedron Letters	54	33	4397	4400
62	Khan A.T., Lal M., Sidick Basha R.	Regio- and diastereoselective synthesis of trans -2,3-dihydrofuran derivatives in an aqueous medium	2013	Synthesis (Germany)	45	3	406	412
63	Palakurthy N.B., Dev D., Rana S., Nadimpally K.C., Mandal B.	Sulfonamide synthesis via oxyma-O-sulfonates – Compatibility to acid sensitive groups and solid-phase peptide synthesis	2013	European Journal of Organic Chemistry		13	2627	2633
64	Sarkar S., Deka J.K.R., Hazra J.P., Khan A.T.	Bromodimethylsulfonium bromide (BDMS)-catalyzed synthesis of 1,5-benzodiazepines using a multi-component reaction strategy	2013	Synlett	24	19	2601	2605
65	Vardhaman A.K., Barman P., Kumar S., Sastri C.V., Kumar D., De Visser S.P.	Mechanistic insight into halide oxidation by non-heme iron complexes. Haloperoxidase versus halogenase activity	2013	Chemical Communications	49	93	10926	10928
66	Sarkar S., Das D.K., Khan A.T.	Sodium-hydroxide-mediated synthesis of highly substituted [1,6]-naphthyridines in a one-pot pseudo five-component reaction	2013	European Journal of Organic Chemistry		30	6823	6830
67	Vardhaman A.K., Barman P., Kumar S., Sastri C.V., Kumar D., De Visser S.P.	Comparison of the reactivity of nonheme iron(IV)-oxo versus iron(IV)-imido complexes: Which is the better oxidant?	2013	Angewandte Chemie – International Edition	52	47	12288	12292

68	Bagdi P.R., Basha R.S., Lal M., Misra R., Khan A.T.	Cobalt triflate nalyser one-pot synthesis of fluorophore 1,4-dihydropyridine derivatives via Hantzsch reaction	2013	Journal of the Indian Chemical Society	90	10	1589	1598
69	Mamidi N., Manna D.	Zn(Otf) <sub>2</sub> -promoted chemoselective esterification of hydroxyl group bearing carboxylic acids	2013	Journal of Organic Chemistry	78	6	2386	2396
70	Laskar R. A., Begum N. A., Mir M. H., Ali S., A. T. Khan.	Vanadium(IV) acetylacetonate catalysed stereoselective syntheses of $\beta$ -enaminoesters and $\beta$ -enaminones .	2013	Tetrahedron Letters	54		436	440
71	Tsukada H., Kundu L.M., Matsuoka Y., Kanayama N., Takarada T., Maeda M.	Quantitative single-nucleotide polymorphism analysis in secondary-structured DNA by affinity capillary electrophoresis using a polyethylene glycol-peptide nucleic acid block copolymer	2013	Analytical Biochemistry	433	2	150	152
72	Khan A.T., Basha R.S., Lal M.	Bromodimethylsulfonium bromide (BDMS) nalyser synthesis of 2,3-unsaturated-O-glycosides via Ferrier rearrangement	2013	Arkivoc		2	201	212
73	Radhakrishnan K., Burgula L.N., Kundu L.M.	Watson-Crick and Hoogsteen tri-base pairing: A co-crystal structure of a 2: Mplex of 6-isopropyluracil and adenine nucleobases	2013	RSC Advances	3	20	7282	7284
74	Banerjee A., Santra S.K., Rout S.K., Patel B.K.	A ligand free copper(II) catalyst is as effective as a ligand assisted Pd(II) catalyst towards intramolecular C-S bond formation via C-H functionalization	2013	Tetrahedron	69	43	9096	9104
75	Bag S.S., Ghorai S., Jana S., Mukherjee C.	Solvatochromic fluorescent cyanophenoxazine: Design, synthesis, photophysical properties and fluorescence light-up sensing of ct-DNA	2013	RSC Advances	3	16	5374	5377
76	Rout S.K., Guin S., Banerjee A., Khatun N., Gogoi A., Patel B.K.	Directing group assisted copper-catalyzed chemoselective O-arylation of phenols and enols using alkylbenzenes	2013	Organic Letters	15	16	4106	4109
77	Achalkumar, A. S., Uma S. Hiremath, D. S. Shankar Rao, S. Krishna Prasad, C.V. Yelamaggad	Self-assembly of Hekates- Tris(N-salicylideneaniline)s into columner structures: Synthesis and charaterization	2013	J.Org. Chem.	78		527	544
78	Banerjee A., Bera A., Guin S., Rout S.K., Patel B.K.	Regioselective ortho-hydroxylation of 2-arylbenzothiazole via substrate directed C-H activation	2013	Tetrahedron	69	9	2175	2183
79	Md Palashuddin Sk., Jana C.K., Chattopadhyay A.	A gold-carbon nanoparticle composite as an efficient catalyst for homocoupling reaction	2013	Chemical Communications	49	74	8235	8237
80	Banerjee A., Santra S.K., Guin S., Rout S.K., Patel B.K.	Palladium-catalyzed ortho-arylation of 2-arylbenzothiazoles and 2-arylbenzoxazoles with aldehydes	2013	European Journal of Organic Chemistry		7	1367	1376
81	Mahato S., Haldar S., Jana C.K.	Diastereoselective $\dot{I}\pm$ -C-H functionalization of aliphatic N-heterocycles: An efficient route to ring fused oxazines	2013	Chemical Communications	50	3	332	334

82	Liffert R., Hoecker J., Jana C. K., Woods T. M., Burch P., Jessen H. J., Neuburger M., Gademann K.	Withanolide A: synthesis and structural requirements for neurite outgrowth	2013	Chem. Sci.	4		2851	2857
83	Majji G., Guin S., Gogoi A., Rout S.K., Patel B.K.	Easy access to benzylic esters directly from alkyl benzenes under metal-free conditions	2013	Chemical Communications	49	29	3031	3033
84	Haldar S., Mahato S., Jana C. K.	Metal- and Oxidant-Free Direct sp <sup>3</sup> C-H Arylation of Pyrrolidine (pages 44–47)	2013	Asian J. of Chem.	1		44	47
85	Sahoo S.K., Khatun N., Gogoi A., Deb A., Patel B.K.	Cu(ii) catalysed chemoselective oxidative transformation of thiourea to thioamidoguanidine/2-aminobenzothiazole	2013	RSC Advances	3	2	438	446
86	Ahmed S., Mondal J.H., Behera N., Das D.	Self-assembly of peptide-amphiphile forming helical nanofibers and in situ template synthesis of uniform mesoporous single wall silica nanotubes	2013	Langmuir	29	46	14274	14283
87	Gogoi A., Guin S., Rout S.K., Patel B.K.	A copper-catalyzed synthesis of 3-aryloxyindoles via a sp <sup>3</sup> C-H bond activation followed by C-C and C-O bond formation	2013	Organic Letters	15	8	1802	1805
88	Dasgupta A., Mondal J.H., Das D.	Peptide hydrogels	2013	RSC Advances	3	24	9117	9149
89	Kumar R.K., Manna S., Mahesh D., Sar D., Punniyamurthy T.	Oxidative Aromatic C-H Functionalization Promoted by Phenylodine(III) Diacetate to form C-N, C-S, and C-Se Bonds	2013	Asian J. Org. Chem.	2		843	
90	Sahu K., Wu H., Berg M.A.	Multiple population-period transient spectroscopy (MUPPETS) of CdSe/ZnS nanoparticles. I. Exciton and biexciton dynamics	2013	Journal of Physical Chemistry B	117	49	15257	15271
91	Bharathiraja G., Sakthivel S., Sengoden M., Punniyamurthy T.	A novel tandem sequence to pyrrole syntheses by 5-endo-dig cyclization of 1,3-enynes with amines	2013	Organic Letters	15	19	4996	4999
92	Wu, H.; Sahu, K.; Berg, M. A.,	Multiple Population-Period Transient Spectroscopy (Muppets) of Cdse/Zns Nanoparticles. II. Effects of High Fluence and Solvent Heating.	2013	J. Phys. Chem. B	117		15272	15284
93	Murugavel G., Punniyamurthy T.	Novel copper-catalyzed multicomponent cascade synthesis of iminocoumarin aryl methyl ethers	2013	Organic Letters	15	15	3828	3831
94	Sahu, K.; Wu, H.; Berg, M. A.	Rate Dispersion in the Biexciton Decay of Cdse/Zns Nanoparticles from Multiple Population-Period Transient Spectroscopy	2013	J. Am. Chem. Soc.	135		1002	1005
95	Sadhu P., Alla S.K., Punniyamurthy T.	Pd(II)-catalyzed aminotetrazole-directed ortho-selective halogenation of arenes	2013	Journal of Organic Chemistry	78	12	6104	6111

96	Wu, H.; Sahu, K.; Berg, M. A.,	Multiple Population-Period Transient Spectroscopy (Muppets) of Cdse/Zns Nanoparticles. II. Effects of High Fluence and Solvent Heating	2013	J. Phys. Chem. B	117		15272	15284
97	Alla S.K., Kumar R.K., Sadhu P., Punniyamurthy T.	Iodobenzene nalyser C-H amination of N-substituted amidines using m-chloroperbenzoic acid	2013	Organic Letters	15	6	1334	1337
98	Barman, N.; Singha, D.; Sahu, K.,	Fluorescence Quenching of Hydrogen-Bonded Coumarin 102-Phenol Complex: Effect of Excited-State Hydrogen Bonding Strength	2013	J. Phys. Chem. A	117		3945	3935
99	Ali Md.A., Suri M., Punniyamurthy T.	Copper-catalyzed synthesis of 2-arylbenzoxazoles in tetrabutylammonium bromide	2013	Synthesis (Germany)	45	4	501	506
100	Sengoden M., Punniyamurthy T.	“On water”: Efficient iron-catalyzed cycloaddition of aziridines with heterocumulenes	2013	Angewandte Chemie – International Edition	52	2	572	575
101	Dubey M., RayM.	Retention of Cs-Cl bond induces coordination polymer formation over trinuclear chiral assembly of copper(II) complexes of L-leucine derived ligand.	2013	CrystEngComm,	15		9648	
102	Sultana S., Bondalapati S., Indukuri K., Gogoi P., Saha P., Saikia A.K.	Scandium(III) triflate nalyser synthesis of primary homoallylic alcohols via carbonyl-ene reaction	2013	Tetrahedron Letters	54	12	1576	1578
103	Sultana S., Indukuri K., Deka M.J., Saikia A.K.	Diastereoselective synthesis of dihydropyrans via prins cyclization of enol ethers: Total asymmetric synthesis of (+)-civet cat compound	2013	Journal of Organic Chemistry	78	23	12182	12188
104	Saha P., Saikia A.K.	An efficient method for the synthesis of 10-aminoartemisinin derivative	2013	Journal of Heterocyclic Chemistry	50	S U P P L. 1	E207	E210
105	Bondalapati S., Indukuri K., Ghosh P., Saikia A.K.	Stereoselective synthesis of tetrahydroquinolines through an imino-ene cyclization reaction	2013	European Journal of Organic Chemistry		5	952	956
106	Indukuri K., Unnava R., Deka M.J., Saikia A.K.	Stereoselective synthesis of amido and phenyl azabicyclic derivatives via a tandem aza prins-ritter/friedel-crafts type reaction of endocyclic N-acyliminium ions	2013	Journal of Organic Chemistry	78	21	10629	10641
107	Jena H. S., Manivannan V.	Molecular structures of dinuclear zinc(II) complexes of chiral tridentate imine and amine ligands: Effect of ligand geometry on diastereoselectivity	2013	Inorganica Chimica Acta	394		210	219
108	Saha B., Saikia J., Das G.	Tuning the selective interaction of lysozyme and serum albumin on a carboxylate modified surface	2013	RSC Advances	3	21	7867	7879
109	Ojha B., Kar C., Das G.	Role of N-methyl-8-(alkoxy)quinolinium iodide in suppression of protein-protein interactions	2013	Journal of Chemical Sciences	125	2	229	236



110	Datta B.K., Kar C., Basu A., Das G.	Selective fluorescence sensor for Al <sup>3+</sup> and Pb <sup>2+</sup> in physiological condition by a benzene based tripodal receptor	2013	Tetrahedron Letters	54	8	771	774
111	Saikia J., Sikdar Y., Saha B., Das G.	Malachite nanoparticle: A potent surface for the adsorption of xanthene dyes	2013	Journal of Environmental Chemical Engineering	1	4	1166	1173
112	Kar C., Adhikari M.D., Ramesh A., Das G.	NIR-and FRET-based sensing of Cu <sup>2+</sup> and S <sup>2-</sup> in physiological conditions and in live cells	2013	Inorganic Chemistry	52	2	743	752
113	Hoque M.N., Basu A., Das G.	Structural insight into the anion-water cluster: Stabilised by alcohol and carboxylic acid containing tripodal ligand	2013	Supramolecular Chemistry				
114	Chutia R., Dey S.K., Das G.	Positional isomeric effect in nitrophenyl nalyserdion tripodal urea receptors toward binding and encapsulation of anions	2013	Crystal Growth and Design	13	2	883	892
115	Basu A., Das G.	Encapsulation of a discrete cyclic halide water tetramer [X <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> ] <sub>2</sub> <sup>-</sup> , X = Cl <sup>-</sup> /Br <sup>-</sup> within a dimeric capsular assembly of a tripodal amide receptor	2013	Chemical Communications	49	38	3997	3999
116	Kar C., Adhikari M.D., Datta B.K., Ramesh A., Das G.	A CHEF-based biocompatible turn on ratiometric sensor for sensitive and selective probing of Cu <sup>2+</sup>	2013	Sensors and Actuators, B: Chemical	188		1132	1140
117	Chutia R., Dey S.K., Das G.	A supramolecular dual-host based ion-pair induced formation of 1D coordination polymer	2013	CrystEngComm	15	45	9641	9647
118	Gogoi A., Das G.	Electronic substitution effects on anion coordination of a tripodal thiourea receptor: Evidences of deprotonation of oxy-anions in solid and solution	2013	Supramole-cular Chemistry	25	12	819	830
119	Kar C., Ojha B., Das G.	A novel amphiphilic thiosemicarbazone derivative for binding and selective sensing of human serum albumin	2013	Luminescence	28	3	339	344
120	Datta B.K., Mukherjee S., Kar C., Ramesh A., Das G.	Zn <sup>2+</sup> and pyrophosphate sensing: Selective detection in physiological conditions and application in DNA-based estimation of bacterial cell numbers	2013	Analytical Chemistry	85	17	8369	8375
121	Basu A., Dey S.K., Das G.	Amidothiourea based colorimetric receptors for basic anions: Evidence of anion induced deprotonation of amide -NH proton and hydroxide induced anion-pi interaction with the deprotonated receptors	2013	RSC Advances	3	18	6596	6605
122	Basu A., Thiyagarajan D., Kar C., Ramesh A., Das G.	Synthesis, crystal structure and bio-macromolecular interaction studies of pyridine-based thiosemicarbazone and its Ni(ii) and Cu(ii) complexes	2013	RSC Advances	3	33	14088	14098
123	Goswami S., Adhikari M. D., Thiyagarajan D., Kar C. , Das G. , Ramesh A.	Synthetic amphiphiles as therapeutic antibacterials: Lessons on bactericidal efficacy and cytotoxicity and potential application as an adjuvant in	2013	J. Mater. Chem. B	1		2612	2623

		antimicrobial chemotherapy						
124	Hussain S., De S., Iyer P.K.	Thiazole-containing conjugated polymer as a visual and fluorometric sensor for iodide and mercury	2013	ACS Applied Materials and Interfaces	5	6	2234	2240
125	Chetia B., Goutam P.J., Chipem F.A.S., Iyer P.K.	Thiourea recognition by 2,6-bis(2-benzimidazolyl)pyridine using spectroscopic techniques and DFT	2013	Journal of Molecular Structure	1042		32	36
126	Muthuraj B., Hussain S., Iyer P.K.	A rapid and sensitive detection of ferritin at a nanomolar level and disruption of amyloid I <sup>2</sup> fibrils using fluorescent conjugated polymer	2013	Polymer Chemistry	4	19	5096	5107
127	Dwivedi A.K., Iyer P.K.	A fluorescence turn on trypsin assay based on aqueous polyfluorene	2013	Journal of Materials Chemistry B	1	32	4005	4010
128	Dwivedi A.K., Iyer P.K.	Sensitive detection of acid phosphatase enzyme and screening of inhibitors using an anionic polyfluorene derivative	2013	Analytical Methods	5	9	2374	2378
129	Dwivedi A.K., Iyer P.K.	Therapeutic Strategies to Prevent Alzheimer's Disease Pathogenesis Using A Fluorescent Conjugated Polyelectrolyte	2013	Macromolecular Bioscience				
130	Ghosh R., Deka J., Chattopadhyay A., Paul A.	Conformation aspect in the $\alpha$ -amylase induced agglomeration of citrate-stabilized gold nanoparticles	2013	RSC Advances	3	45	23015	23027
131	Das S., Paul A., Chattopadhyay A.	Nanocrystalline p-hydroxyacetanilide (paracetamol) and gold core-shell structure as a model drug deliverable organic-inorganic hybrid nanostructure	2013	Nanoscale	5	19	9247	9254
132	Kalita D.J., Gupta A.K.	Application of smooth exterior scaling method to calculate the high harmonic generation spectra	2013	Journal of Chemical Physics	138	7		
133	Chipem F.A.S., Behera S.K., Krishnamoorthy G.	Ratiometric fluorescence sensing ability of 2-(2'-hydroxyphenyl)benzimidazole and its nitrogen substituted analogues toward metal ions	2013	Sensors and Actuators, B: Chemical	191		727	733
134	Sahu S., Mishra A., Krishnamoorthy G.	Specific site binding of metal ions on the intramolecular charge transfer fluorophore in micelle.	2013	Analyst	138		5942	5948
135	Chipem F.A.S., Behera S.K., Krishnamoorthy G.	Enhancing Excited State Intramolecular Proton Transfer in 2-(2'-Hydroxyphenyl) benzimidazole and its Nitrogen Substituted Analogues by $\beta$ -Cyclodextrin: the Effect of Nitrogen Substitution.	2013	Journal of Physical Chemistry A	117	20	4084	4095
136	Chipem F.A.S., Krishnamoorthy G.	Temperature effect on dual fluorescence of 2-(2'-Hydroxyphenyl) benzimidazole and its nitrogen substituted analogues	2013	Journal of Physical Chemistry B	117	45	14079	14088

137	Mishra A., Sahu S., Dash N., Behera S.K., Krishnamoorthy G.	Double proton transfer induced twisted intramolecular charge transfer emission in 2-(4'- N,N- dimethylaminophenyl)imidazo[4,5- b]pyridine.	2013	Journal of Physical Chemistry B	117	32	9469	9477
138	Mishra A., Chaterjee S., Krishnamoorthy G.	Intramolecular charge transfer emission of trans-2-[4'- dimethylamino]styryl] benzimidazole: Effect of solvent and pH.	2013	Journal of Photochemistry and Photobiology A: Chemistry	260		50	58