

Journal Publication 2011

Sl. No.	Authors	Title	Year	Source Title	Vol	Iss	Page start	Page end
1	Das B., Baruah J.B.	Supramolecular synthons and hydrates in stabilization of multicomponent crystals of nicotinamide and isonicotinamide with N-containing aromatic dicarboxylic acids	2011	Crystal Growth and Design	11	12	5522	5532
2	Das R.J., Jain A., Baruah J.B.	Silver nanoparticles containing biocomposite of milk	2011	Nanoscience and Nanotechnology Letters	3	5	617	621
3	Santra S., Das B., Baruah J.B.	Assembly of dipicolinic acid by alkali-metal cations	2011	Journal of Chemical Crystallography	41	12	1981	1987
4	Kalita D., Baruah J.B.	Acid inclusion properties of helical self-assembly of 5,5'-biquinoline derivative	2011	Crystal Growth and Design	11	11	5131	5138
5	Sarma R., Baruah J.B.	Formation of coordination polymer and molecular complex of 4,4'-bipyridyl-N,N'-dioxide of manganese and zinc.	2011	Inorganica Chimica Acta	377	1	50	55
6	Nath B., Kalita D., Baruah J.B.	Five coordinated dicarboxylate complexes of copper (+2) and zinc (+2).	2011	Journal of Coordination Chemistry	64		2545	2553
7	Nath J., Kalita D., Baruah J.B.	Role of hydrogen peroxide in the synthesis of nitrogen heterocycle containing cobalt complexes	2011	Polyhedron	30	15	2558	2563
8	Jali B.R., Baruah J.B.	Linear to spiral coordination polymers of 1,4-naphthalene di-(2-oxyacetate) of cobalt, manganese and copper	2011	Inorganic Chemistry Communications	14	9	1440	1443
9	Sarma R., Baruah J.B.	Aromatic N-oxides in construction of different carboxylate coordination polymers of zinc(II), cadmium(II) and mercury(II)	2011	Solid State Sciences	13	9	1692	1700
10	Das B., Baruah J.B.	Assemblies of cytosine within H-bonded network of adipic acid and citric acid	2011	Journal of Molecular Structure	1001		134	138
11	Deka H., Sarma R., Kumari S., Khare A., Baruah J.B.	Different geometrical arrangements in carboxylate coordination polymers of flexible dicarboxylic acid	2011	Journal of Solid State Chemistry	184	7	1726	1734
12	Marjit Singh W., Baruah J.B.	Characterization of molecular complexes of 1,4-naphthoquinone derivatives	2011	Journal of Chemical Crystallography	41	7	952	958

13	Marjit Singh W., Jali B.R., Das B., Baruah J.B.	Synthesis, characterization, and reactivity of zinc carboxylate complexes of 2,3-pyridine dicarboxylic acid and (3-oxo-2,3-dihydro-benzo[1,4]oxazin-4-yl) acetic acid	2011	Inorganica Chimica Acta	372	1	37	41
14	Das B., Baruah J.B.	Dipicolinato complexes of cobalt(II), copper(II) and zinc(II) with thiamine dications	2011	Inorganica Chimica Acta	372	1	389	393
15	Deka H., Sarma R., Baruah J.B.	Seven Coordinated Metal Complexes derived from (3-Carboxymethoxy-Naphthalen-2-yloxy)-Acetic Acid and Coordination Polymers	2011	Journal of Inorganic and Organometallic Polymers and Materials	21	2	384	390
16	Kalita D., Deka H., Samanta S.S., Guchait S., Baruah J.B.	Interactions of amino acids, carboxylic acids, and mineral acids with different quinoline derivatives	2011	Journal of Molecular Structure	990		183	196
17	Singh D., Baruah J.B.	Structural study on solvates of dopamine-based cyclic imide derivatives	2011	Crystal Growth and Design	11	3	768	777
18	Das B., Ghosh K., Baruah J.B.	Coordination complex of dipicolinato cobalt(III) complex cation and anion	2011	Journal of Coordination Chemistry	64	4	583	589
19	Jali B.R., Singh M.W., Baruah J.B.	Polymorphs of aromatic thiolato 1, 2 or 1,4-naphthoquinones	2011	CrystEngComm	13	3	763	767
20	Sarma R., Deka H., Boudalis A.K., Baruah J.B.	Coordination polymers of lanthanide(III): Toward encapsulation of well-defined assembly of guest molecules	2011	Crystal Growth and Design	11	2	547	554
21	Das R., Sarma R., Baruah J.B.	Mixed bridging coordination modes of cerium(III) alkylbenzoates	2011	Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry	41	2	165	172
22	Das B., Baruah J.B.	Dications of L-histidine and L-ornithine in layers of copper(II) and cobalt(II) dipicolinato anions	2011	Polyhedron	30	1	22	26
23	Das B., Baruah J.B.	Water bridged assembly and nalysis formation in Co-crystals of caffeine or theophylline with polycarboxylic acids	2011	Crystal Growth and Design	11	1	278	286
24	Sarma R., Bhattacharyya P.K., Baruah J.B.	Short range interactions in molecular complexes of 1,4-benzenediboronic acid with aromatic N-oxides	2011	Computational and Theoretical Chemistry	963	1	141	147
25	Banerjee M., Sharma S., Chattopadhyay A., Ghosh S.S.	Enhanced antibacterial activity of bimetallic gold-silver core-shell nanoparticles at low silver concentration	2011	Nanoscale	3	12	5120	5125
26	Gogoi S.K., Borah S.M., Dey K.K., Paul A., Chattopadhyay A.	Optically definable reaction-diffusion-driven pattern generation of Ag-Au nanoparticles on templated surfaces	2011	Langmuir	27	20	12263	12269

27	Sahoo A.K., Sk M.P., Ghosh S.S., Chattopadhyay A.	Plasmid DNA linearization in the antibacterial action of a new fluorescent Ag nanoparticle-paracetamol naly composite	2011	Nanoscale	3	10	4226	4233
28	Dey K.K., Senapati K.K., Phukan P., Basu S., Chattopadhyay A.	Stable magnetic chemical locomotive with Pd nanoparticle incorporated ferromagnetic oxide	2011	Journal of Physical Chemistry C	115	26	12708	12715
29	Begum R., Chattopadhyay A.	In situ reversible tuning of photoluminescence of Mn 2+-doped ZnS quantum dots by redox chemistry	2011	Langmuir	27	10	6433	6439
30	Jaiswal A., Sanpui P., Chattopadhyay A., Ghosh S.S.	Investigating Fluorescence Quenching of ZnS Quantum Dots by Silver Nanoparticles	2011	Plasmonics	6	1	125	132
31	Sanpui P., Chattopadhyay A., Ghosh S.S.	Induction of apoptosis in cancer cells at low silver nanoparticle concentrations using chitosan nanocarrier	2011	ACS Applied Materials and Interfaces	3	2	218	228
32	Khan A.T., Lal M., Ali S., Khan M.M.	One-pot three-component reaction for the synthesis of pyran annulated heterocyclic compounds using DMAP as a catalyst	2011	Tetrahedron Letters	52	41	5327	5332
33	Khan A.T., Ali S., Dar A.A., Lal M.	New three-component condensation reaction: Synthesis of 1-[(alkylthio)(phenyl)methyl]-naphthalene-2-ol nalyser by bromodimethylsulfonium bromide (BDMS)	2011	Tetrahedron Letters	52	40	5157	5160
34	Khan A.T., Das D.K., Khan M.M.	Ferric sulfate [Fe ₂ (SO ₄) ₃ .xH ₂ O]: An efficient heterogeneous catalyst for the synthesis of tetrahydroquinoline derivatives using Povarov reaction	2011	Tetrahedron Letters	52	35	4539	4542
35	Khan A.T., Musawwer Khan M.	Sequential three-component reactions: Synthesis, regioselectivity and application of nalyserdion dihydropyridines (DHPs) for the creation of fused naphthyridines	2011	Tetrahedron Letters	52	27	3455	3459
36	Khan A.T., Khan M.M., Adhikary A.	Tetrabutylammonium tribromide (TBATB): A mild and efficient catalyst for O-isopropylideneation of carbohydrates	2011	Carbohydrate Research	346	5	673	677
37	Khan A. T. , Ali S. ,Basha R. S. , Khan M., Lal M .	VO(acac) ₂ /H ₂ O ₂ /NaI: a mild and efficient combination for the cleavage of dithioacetal derivatives of sugars	2011	Carbohydr. Res	346		2629	2632
38	Yella R., Kavala V., Patel B.K.	Bromineless bromine as an efficient desulfurizing agent for the preparation of cyanamides and 2-aminothiazoles from dithiocarbamate salts	2011	Synthetic Communications	41	6	792	805
39	Ghosh H., Baneerjee A., Rout S.K., Patel B.K.	A convenient one-pot synthesis of aryl amines from aryl aldoximes mediated by Koser's reagent	2011	Arkivoc	2011	2	209	216
40	Guin S., Ghosh T., Rout S.K., Banerjee A., Patel B.K.	Cu(II) nalyser imine C-H functionalization leading to synthesis of 2,5-substituted 1,3,4-oxadiazoles	2011	Organic Letters	13	22	5976	5979

41	Yella R., Khatun N., Rout S.K., Patel B.K.	Tandem regioselective synthesis of tetrazoles and related heterocycles using iodine	2011	Organic and Biomolecular Chemistry	9	9	3235	3245
42	Ramana T., Punniyamurthy T.	Copper-catalyzed domino one-pot synthesis of 2-(arylselanyl) arylcyanamides	2011	European Journal of Organic Chemistry		25	4756	4759
43	Guru M.M., Ali M.A., Punniyamurthy T.	Copper-mediated synthesis of substituted 2-aryl-N-benzylbenzimidazoles and 2-arylbenzoxazoles via C-H functionalization/C-N/C-O bond formation	2011	Journal of Organic Chemistry	76	13	5295	5308
44	Kumar R.K., Ali M.A., Punniyamurthy T.	Pd-catalyzed C-H activation/C-N bond formation: A new route to 1-aryl-1H-benzotriazoles	2011	Organic Letters	13	8	2102	2105
45	Guru M.M., Ali M.A., Punniyamurthy T.	Copper(II)-catalyzed conversion of bisaryloxime ethers to 2-arylbenzoxazoles via C-H functionalization/C-N/C-O bonds formation	2011	Organic Letters	13	5	1194	1197
46	Ali M.A., Punniyamurthy T.	Domino ligand-free copper-catalyzed synthesis of polysubstituted indoles	2011	Synlett		5	623	626
47	Koner R.R., Haque Faizi M.S., Ray M.	Tuning one dimensional chiral channel interior in mixed ligand Cu(II) complexes of l-histidine derivative and substituted pyridine	2011	Inorganica Chimica Acta	372	1	367	373
48	Bondalapati S., Reddy U.C., Saha P., Saikia A.K.	An efficient synthesis of dihydro- and tetrahydropyrans via oxonium-ene cyclization reaction	2011	Organic and Biomolecular Chemistry	9	9	3428	3438
49	Saikia A.K., Bondalapati S., Indukuri K., Gogoi P.	Axial-selectivity in prins cyclization reaction: Synthesis of 4-iodotetrahydropyrans	2011	Chemistry Letters	40	10	1176	1178
50	Saha P., Gogoi P., Saikia A.K.	Synthesis of oxabicyclo[3.3.1]nonenes and substituted tetrahydropyrans via (3,5)-oxonium-ene reaction	2011	Organic and Biomolecular Chemistry	9	12	4626	4634
51	Padhi S.K., Sahu R., Saha D., Manivannan V.	Protonated 4'-(2-pyridyl)-2,2':6',2"-terpyridine and its Fe(II) bischelates: Syntheses and molecular structures	2011	Inorganica Chimica Acta	372	1	383	388
52	Padhi S.K., Sahu R., Manivannan V.	Syntheses and structures of cobalt(III) alcoholate complexes formed by addition of a water molecule across 2-pyridyl substituted imine function	2011	Inorganica Chimica Acta	367	1	57	63
53	Jena H.S., Subramanian J., Manivannan V.	Molecular structures of nickel(II) monochelates of a racemic tridentate ligand and co-ligand induced structural variations	2011	Inorganica Chimica Acta	365	1	177	182
54	Sahu R., Padhi S.K., Jena H.S., Manivannan V.	Erratum: Conversion of 2-(aminomethyl) substituted pyridine and quinoline to their dicarbonyldiimides using copper(II) acetate	2011	Inorganica Chimica Acta	377	1	188	
55	Saha B., Das S., Saikia J., Das G.	Preferential and enhanced adsorption of different dyes on iron oxide nanoparticles: A comparative	2011	Journal of Physical Chemistry C	115	16	8024	8033

		study						
56	Kumar Dey S., Das G.	A selective fluoride encapsulated neutral tripodal receptor capsule: Solvatochromism and solvatomorphism	2011	Chemical Communications	47	17	4983	4985
57	Dey S.K., Ojha B., Das G.	A subtle interplay of C-H hydrogen bonds in complexation of anions of varied dimensionality by a nitro nalyserdion tripodal podand	2011	CrystEngComm	13	1	269	278
58	Ojha B., Das G.	Role of hydrophobic and polar interactions for BSA-amphiphile composites	2011	Chemistry and Physics of Lipids	164	2	144	150
59	Saikia J., Saha B., Das G.	Efficient removal of chromate and arsenate from individual and mixed system by malachite nanoparticles	2011	Journal of Hazardous Materials	186	1	575	582
60	Thakuria H., Das G.	Polycarboxylate derivative of alpha-Amino acid as growth modifier of sulphide minerals	2011	Bulletin of Materials Science	34	1	97	104
61	Basu A., Das G.	Oxidative cyclization of thiosemicarbazone: An optical and turn-on fluorescent chemodosimeter for Cu(ii)	2011	Dalton Transactions	40	12	2837	2843
62	Basu A., Das G.	Zn(II) and Hg(II) complexes of naphthalene based thiosemicarbazone: Structure and spectroscopic studies	2011	Inorganica Chimica Acta	372	1	394	399
63	Dey S.K., Das G.	Binding of HgCl ₂ by a nitro nalyserdion tripodal receptor and its decomplexation controlled by anion complexation	2011	European Journal of Inorganic Chemistry		3	429	438
64	Dey S.K., Das G.	Encapsulation of trivalent phosphate anion within a rigidified π-stacked dimeric capsular assembly of tripodal receptor	2011	Dalton Transactions	40	45	12048	12051
65	Ojha B., Das G.	Environment-sensitive amphiphilic fluorophore for selective sensing of protein	2011	Photochemical and Photobiological Sciences	10	4	554	560
66	Dey S.K., Pramanik A., Das G.	Anion specificity induced conformational changes in cresol-based tripodal podands controlled by weak interactions: Structural and Hirshfeld surface analysis	2011	CrystEngComm	13	5	1664	1675
67	Pramanik A., Das G.	Interplay of solvent in flexible behaviour of cyclohexane dinaphthyl bis-thiourea system: Conformational aspects	2011	Supramolecular Chemistry	23	6	425	434
68	Ojha B., Das G.	Reply to the "comment on 'the interaction of 5-(alkoxy)nalyserd-1-amine with bovine serum albumin and its effect on the conformation of protein	2011	Journal of Physical Chemistry B	115	20	6808	6809

69	Dey S.K., Das G.	Fluoride selectivity induced transformation of charged anion complexes into unimolecular capsule of a π -acidic triamide receptor stabilized by strong N-H...F- and C-H...F- hydrogen bonds	2011	Crystal Growth and Design	11	10	4463	4473
70	Kar C., Dey S.K., Das G.	Excited-state intermolecular proton transfer induced "TURN ON" fluorescent chemosensor for selective detection of PO ₄ ³⁻ anion	2011	Sensor Letters	9	4	1430	1434
71	Borah B.M., Dey S.K., Das G.	Crystal to calcite: Fabrication of pure calcium carbonate polymorph in the solid state	2011	Crystal Growth and Design	11	7	2773	2779
72	Singh D.K., Giri P.K., Iyer P.K.	Evidence for defect-enhanced photoluminescence quenching of fluorescein by carbon nanotubes	2011	Journal of Physical Chemistry C	115	49	24067	24072
73	Dwivedi A.K., Saikia G., Iyer P.K.	Aqueous polyfluorene probe for the detection and estimation of Fe ³⁺ and inorganic phosphate in blood serum	2011	Journal of Materials Chemistry	21	8	2502	2507
74	Goutam P.J., Singh D.K., Giri P.K., Iyer P.K.	Enhancing the photostability of poly(3-hexylthiophene) by preparing composites with multiwalled carbon nanotubes	2011	Journal of Physical Chemistry B	115	5	919	924
75	Chetia B., Iyer P.K.	Acetate recognition by 2,6-bis(2-benzimidazolyl)pyridine	2011	Spectrochimica Acta – Part A: Molecular and Biomolecular Spectroscopy	81	1	313	316
76	Saikia G., Iyer P.K.	A remarkable superquenching and superdequenching sensor for the selective and nalyserdi detection of inorganic phosphates in saliva	2011	Macro-molecules	44	10	3753	3758
77	Gogoi S.K., Borah S.M., Dey K.K., Paul A., Chattopadhyay A.	Optically definable reaction-diffusion-driven pattern generation of Ag-Au nanoparticles on templated surfaces	2011	Langmuir	27	20	12263	12269
78	Gupta A.K., Nicholls J., Debnath S., Rosbottom I., Steiner A., Boomishankar R.	Organoamino phosphonium cations as building blocks for hierarchical supramolecular assemblies	2011	Crystal Growth and Design	11	2	555	564
79	Kalita D.J., Gupta A.K.	Use of modified smooth exterior scaling method as an absorbing potential and its application	2011	Journal of Chemical Physics	134	9		
80	Kalita D.J., Rao A., Rajvanshi I., Gupta A.K.	Application of parametric equations of motion to study the laser induced multiphoton dissociation of H ₂ ⁺ in intense laser field	2011	Journal of Chemical Physics	134	22		
81	Gupta A.K., Kalita A., Boomishankar R.	Synthesis and supramolecular structures of iso- and heteropolymetallates assisted by organoamino phosphonium cations	2011	Inorganica Chimica Acta	372	1	152	159
82	Chipem F.A.S., Dash N., Krishnamoorthy G.	Role of nitrogen substitution in phenyl ring on excited state intramolecular protontransfer and rotamerism of 2-(2'-Hydroxyphenyl)benzimidazole: A	2011	Journal of Chemical Physics	134	10		

		theoretical study						
83	Dash N., Krishnamoorthy G.	Modulation of the photophysics of 2-(4'-dimethylaminophenyl)imidazo[4,5-b]pyridine by long chain N-alkylations	2011	Photochemical and Photobiological Sciences	10	6	939	946
84	Dash N., Mishra A., Krishnamoorthy G.	Comment on "the interaction of 5-(alkoxy)nalyserd-1-amine with bovine serum albumin and its effect on the conformation of protein	2011	Journal of Physical Chemistry B	115	20	6806	6807
85	Kumar, P.; Kalita, A.; Mondal, B.	Reduction of copper(II) complexes of tridentate ligands by nitric oxide and fluorescent detection of NO in methanol and water media	2011	Dalton Trans.	40		8656	8663
86	Sarma M., Mondal B.	Nitric oxide reduction of copper(II) complexes: Spectroscopic evidence of copper(II) nitrosyl intermediate	2011	Inorganic Chemistry	50	8	3206	3212
87	Mondal B., Kumar P., Ghosh P., Kalita A.	Fluorescence-based detection of nitric oxide in aqueous and methanol media using a copper(II) complex	2011	Chemical Communications	47	10	2964	2966
88	Dutta G., Debnath R.K., Kalita A., Kumar P., Sarma M., Shankar R.B., Mondal B.	An asymmetric dinuclear copper(II) complex with phenoxo and acetate bridges: Synthesis, structure and magnetic studies	2011	Polyhedron	30	2	293	298
89	Kalita A., Kumar P., Deka R.C., Mondal B.	Role of ligand to control the mechanism of nitric oxide reduction of copper(II) complexes and ligand nitrosation	2011	Inorganic Chemistry	50	23	11868	11876
90	Kumar P., Baidya B., Chaturvedi S.K., Khan R.H., Manna D., Mondal B.	DNA binding and nuclease activity of copper(II) complexes of tridentate ligands	2011	Inorganica Chimica Acta	376	1	264	270
91	Sterpone F., Martinazzo R., Panda A. N., Burghardt I.	Coherent Excitation Transfer Driven by Torsional Dynamics: a Model Hamiltonian for PPV Type Systems	2011	Z. Phys. Chem. 2011, 225, 541.	225		541	
92	Bhattacharya S., Panda A.N., Meyer H.-D.	Cross sections and rate constants for OH H ₂ reaction on three different potential energy surfaces for ro-vibrationally excited reagents	2011	Journal of Chemical Physics	135	19		
93	Sarma R, Paul S.	Hydrophobic Interactions in presence of osmolytes urea and trimethylamine-N-Oxide	2011	J. Chem. Phys.	135		2E+05	
94	Khan Z., Barpuzary D., Baswant O., Sutradhar S., Qureshi M.	Directed growth of 1D cadmium sulfide by chemically anchored Al ₂ O ₃ and ZnO nanoparticles	2011	Materials Lett.	65		1168	
95	Bag S. S., Kundu R. Das M.	Click-Reagent Version of Sonogashira Coupling Protocol to Conjugated Fluorescent Alkynes with No or Reduced Homocoupling	2011	ChemInform	42	26		
96	Bag S. S., Kundu R.	Installation/Modulation of the Emission Response via Click Reaction	2011	The Journal of Organic Chemistry	76	9	3358	3356

97	Bag S. S., Kundu R. Das M.	Click-Reagent Version of Sonogashira Coupling Protocol to Conjugated Fluorescent Alkynes with No or Reduced Homocoupling	2011	The Journal of Organic Chemistry	76	7	2332	2337
98	Maji m Mallick D., Mondal S., Anoop A., Bag S. S., Basak A., Jemmis E. D.	An Experimental and Computational Study	2011	Organic Letters	13	5	888	891
99	Palakurthy N.B., Mandal B.	Sulfonamide synthesis using N-hydroxybenzotriazole sulfonate: An alternative to pentafluorophenyl (PFP) and trichlorophenyl (TCP) esters of sulfonic acids	2011	Tetrahedron Letters	52	52	7132	7134
100	Nadimpally K.C., Thalluri K., Palakurthy N.B., Saha A., Mandal B.	Catalyst and solvent-free amidation of inactive esters of N-protected amino acids	2011	Tetrahedron Letters	52	20	2579	2582
101	Vardhaman A.K., Sastri C.V., Kumar D., De Visser S.P.	Nonheme ferric hydroperoxo intermediates are efficient oxidants of bromide oxidation	2011	Chemical Communications	47	39	11044	11046
102	Vardhaman A.K., Sikdar S., Sastri C.V.	Oxidation of dibenzothiophene by mononuclear non-heme iron complexes: A biomimetic approach for oxidative desulphurization	2011	Indian Journal of Chemistry – Section A Inorganic, Physical, Theoretical and Analytical Chemistry	50		427	431
103	Kumar P., Baidya B., Chaturvedi S.K., Khan R.H., Manna D., Mondal B.	DNA binding and nuclease activity of copper(II) complexes of tridentate ligands	2011	Inorganica Chimica Acta	376	1	264	270