

## Journal Publication 2012

Sl. No.	Authors	Title	Year	Source Title	Vol	Iss	Page start	Page end
1	Kalita D., Herbst- Irme R., Stalke D., Baruah J.B.	Coordination polymers of sodium 2-(quinolin-8-yloxy)propionate: A receptor for selective metal ions	2012	Polyhedron	44	1	52	58
2	Nath B., Baruah J.B.	Cocrystals of quinoline derivatives with 5-aminoisophthalic acid	2012	Molecular Crystals and Liquid Crystals	562		242	253
3	Samanta S., Nath B., Baruah J.B.	Hydrolytically stable Schiff base as highly sensitive aluminium sensor	2012	Inorganic Chemistry Communications	22		98	100
4	Singh D., Baruah J.B.	Molecular complex from two different binuclear copper 1,4,5,8-naphthalenetetracarboxylate complexes	2012	Inorganica Chimica Acta	390		37	40
5	Singh W.M., Jali B.R., Baruah J.B.	Iron(II) and manganese(II) complexes of 2-{2-(3-carboxypyridin-2-yl)disulfanyl}pyridine-3-carboxylic acid through C-S bond cleavage	2012	Journal of Chemical Crystallography	42	7	775	782
6	Nath B., Kalita D., Baruah J.B.	Zwitterionic metal carboxylate complexes: In solid state	2012	Solid State Sciences	14	7	880	884
7	Nath B., Baruah J.B.	Metallacycles of cadmium, mercury dicarboxylates	2012	Dalton Transactions	41	23	7115	7126
8	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
9	Jali B.R., Baruah J.B.	Polymorphs and solvates of 2-(1,4-dihydro-1,4-dioxonaphthalen-3-ylthio) benzoic acid	2012	Crystal Growth and Design	12	6	3114	3122
10	Singh D., Baruah J.B.	Solid state assemblies of cyclic imides tethered hydroxy benzoic acids with pyridine and quinoline: Toward the formation of channels and cavities	2012	Crystal Growth and Design	12	6	3169	3180
11	Singh D., Baruah J.B.	Metal(II) complexes derived from conformation flexible cyclic imide tethered carboxylic acids: Syntheses, supramolecular structures, and molecular properties	2012	Crystal Growth and Design	12	4	2109	2121
12	Nath J.K., Baruah J.B.	Azide containing bipyridine complexes of cobalt(III)	2012	Polyhedron	36	1	1	5
13	Nath B., Baruah J.B.	An imidazole-based bisphenol 2-((2-hydroxy-3,5-dimethylphenyl)(imidazol-4-yl)methyl)-4,6-dimethylphenol: A versatile host for anions	2012	Crystal Growth and Design	12	3	1671	1682
14	Kalita D., Baruah J.B.	Selectivity in metal ions mediated C-N bond formation reactions of 8-aminoquinoline derivatives	2012	Journal of Physical Organic Chemistry	25	2	169	175
15	Das B., Baruah J.B.	Assembling of copper(II) dipicolinate complexes	2012	Polyhedron	31	1	361	367

16	Das S., Chattopadhyay A.	Generation of inorganic-organic core-shell crystalline nanoparticles of silver and p-hydroxyacetanilide	2012	RSC Advances	2	27	10245	10250
17	Jaiswal A., Ghosh S.S., Chattopadhyay A.	Quantum dot impregnated-chitosan film for heavy metal ion sensing and removal	2012	Langmuir	28	44	15687	15696
18	Sharma S., Sanpui P., Chattopadhyay A., Ghosh S.S.	Fabrication of antibacterial silver nanoparticle – Sodium alginate-chitosan composite films	2012	RSC Advances	2	13	5837	5843
19	Begum R., Bhandari S., Chattopadhyay A.	Surface ion engineering of Mn 2+-doped ZnS quantum dots using ion-exchange resins	2012	Langmuir	28	25	9722	9728
20	Khandelia R., Deka J., Paul A., Chattopadhyay A.	Signatures of specificity of interactions of binary protein mixtures with citrate-stabilized gold nanoparticles	2012	RSC Advances	2	13	5617	5628
21	Deka J., Paul A., Chattopadhyay A.	Modulating enzymatic activity in the presence of gold nanoparticles	2012	RSC Advances	2	11	4736	4745
22	Sk M.P., Jaiswal A., Paul A., Ghosh S.S., Chattopadhyay A.	Presence of amorphous carbon nanoparticles in food caramels	2012	Scientific Reports	2			
23	Gogoi S.K., Paul A., Chattopadhyay A.	Galvanic reaction based generation of electronically transparent corrugated Ag-Au nanoparticle thin films	2012	RSC Advances	2	9	3642	3646
24	Mallick S., Sharma S., Banerjee M., Ghosh S.S., Chattopadhyay A., Paul A.	Iodine-stabilized Cu nanoparticle chitosan composite for antibacterial applications	2012	ACS Applied Materials and Interfaces	4	3	1313	1323
25	Sahoo A. K., Sharma S., Chattopadhyay A., Ghosh S. S.	Quick and simple estimation of bacteria using a fluorescent paracetamol nalyS–Au nanoparticle composite.	2012	Nanoscale	4		1688	1694
26	Adhikari M.D., Panda B.R., Vudumula U., Chattopadhyay A., Ramesh A.	A facile method for estimating viable bacterial cells in solution based on “subtractive-aggregation” of gold nanoparticles	2012	RSC Advances	2	5	1782	1793
27	Jaiswal A., Chattopadhyay A., Ghosh S.S.	Functional chitosan nanocarriers for potential applications in gene therapy	2012	Materials Letters	68		261	264
28	Jaiswal A., Ghosh S.S., Chattopadhyay A.	One step synthesis of C-dots by microwave mediated caramelization of poly(ethylene glycol)	2012	Chemical Communications	48	3	407	409
29	Rohman Md. R., Mecadon H., Khan A. T. and Myrboh B.	Synthesis of important $\beta$ -functionalized 5-methyl-1H-pyrazol-3-ol derivatives in the presence of $\gamma$ -alumina catalyst in aqueous medium	2012	Tetrahedron Letters	53		5261	5264
30	Khan A.T., Choudhury A., Ali S., Musawwer Khan M.	Regioselective monobromination of (E)-1-(2'-hydroxy-4',6'-dimethoxyphenyl)-3-aryl-2-propen-1-ones using bromodimethylsulfonium bromide and synthesis of 8-bromoflavones and 7-bromoaurones	2012	Tetrahedron Letters	53	36	4852	4857

31	Khan A.T., Das D.K., Islam K., Das P.	A simple and expedient synthesis of nalyserdion pyrido[2,3-c] coumarin derivatives using molecular iodine nalyser three-component reaction	2012	Tetrahedron Letters	53	47	6418	6422
32	Khan A.T., Khan M.M., Das D.K., Lal M.	Silica-supported perchloric acid (HClO <sub>4</sub> -SiO <sub>2</sub> ): An efficient catalyst for one-pot synthesis of nalyserdion tetrahydropyrimidine derivatives	2012	Journal of Heterocyclic Chemistry	49	6	1362	1369
33	Khan A.T., Das D.K.	Michael Initiated Ring Closure (MIRC) reaction on in situ generated benzylidenecyclohexane-1,3-diones for the construction of chromeno[3,4-b] quinoline derivatives	2012	Tetrahedron Letters	53	18	2345	2351
34	Khan A.T., Sidick Basha R., Lal M.	Bromodimethylsulfonium bromide (BDMS) nalyser synthesis of imidazo[1,2-a]pyridine derivatives and their fluorescence properties	2012	Tetrahedron Letters	53	17	2211	2217
35	Khan A.T., Lal M., Ray Bagdi P., Sidick Basha R., Saravanan P., Patra S.	Synthesis of tetra-substituted pyrroles, a potential phosphodiesterase 4B inhibitor, through nickel(II) chloride hexahydrate nalyser one-pot four-component reaction	2012	Tetrahedron Letters	53	32	4145	4150
36	Khan A.T., Sidick Basha R., Lal M., Mir M.H.	Formation of unexpected $\alpha$ -amino amidine through three-component 'UGI condensation reaction'	2012	RSC Advances	2	13	5506	5509
37	Khan A.T., Ghosh A., Musawwer Khan Md.	One-pot four-component domino reaction for the synthesis of substituted dihydro-2-oxypyrrole nalyser by molecular iodine	2012	Tetrahedron Letters	53	21	2622	2626
38	Khan A.T., Ali S.	A useful and convenient synthetic protocol for iodination of organic substrates using a combination of vanadyl acetylacetonate, hydrogen peroxide, and sodium iodide	2012	Bulletin of the Chemical Society of Japan	85	11	1239	1243
39	Khatun N., Jamir L., Ganesh M., Patel B.K.	A one-pot strategy for the synthesis of 2-aminobenzothiazole in water by copper catalysis	2012	RSC Advances	2	30	11557	11565
40	Sahoo S.K., Chakraborty S., Patel B.K.	A one-pot conversion of di-substituted thiourea to O-organyl arylthiocarbamate using FeCl <sub>3</sub>	2012	Journal of Sulfur Chemistry	33	2	143	153
41	Sahoo S.K., Khatun N., Jena H.S., Patel B.K.	Stable Cu(I) complexes with thioamidoguanidine possessing halide-bridge structure	2012	Inorganic Chemistry	51	20	10800	10807
42	Guin S., Rout S.K., Gogoi A., Nandi S., Ghara K.K., Patel B.K.	Desulfurization strategy in the construction of azoles possessing additional nitrogen, oxygen or sulfur using a copper(I) catalyst	2012	Advanced Synthesis and Catalysis	354	14 - 15	2757	2770
43	Guin S., Rout S.K., Khatun N., Ghosh T., Patel B.K.	Tandem synthesis of [1,2,4]-triazoles mediated by iodine – A regioselective approach	2012	Tetrahedron	68	25	5066	5074
44	Yella R., Singh R.K., Majji G., Patel B.K.	It is thiazolidine-2,4-dione and not thiohydantoin as the reaction product of monosubstituted thioureas and chloroacetylchloride	2012	Journal of Sulfur Chemistry	33	1	43	47

45	Rout S.K., Guin S., Nath J., Patel B.K.	An "on-water" exploration of CuO nanoparticle catalysed synthesis of 2-aminobenzothiazoles	2012	Green Chemistry	14	9	2491	2498
46	Guin S., Rout S.K., Ghosh T., Khatun N., Patel B.K.	A one pot synthesis of [1,3,4]-oxadiazoles mediated by molecular iodine	2012	RSC Advances	2	8	3180	3183
47	Sahoo S.K., Banerjee A., Chakraborty S., Patel B.K.	Regioselective intramolecular arylthiolations by ligand free Cu and Pd catalyzed reaction	2012	ACS Catalysis	2	4	544	551
48	Guin S., Rout S.K., Banerjee A., Nandi S., Patel B.K.	Four tandem C-H activations: A sequential C-C and C-O bond making via a Pd-catalyzed cross dehydrogenative coupling (CDC) approach	2012	Organic Letters	14	20	5294	5297
49	Rout S.K., Guin S., Ghara K.K., Banerjee A., Patel B.K.	Copper catalyzed oxidative esterification of aldehydes with alkylbenzenes via cross dehydrogenative coupling	2012	Organic Letters	14	15	3982	3985
50	Ramana T., Punniyamurthy T.	Preparation of 2-azido-1-substituted-1 H-benzo[d]imidazoles using a copper-promoted three-component reaction and their further conversion into 2-amino and 2-triazolyl derivatives	2012	Chemistry – A European Journal	18	42	13279	13283
51	Paul R., Punniyamurthy T.	Copper-catalysed one-pot synthesis of N-substituted benzo[d]isothiazol-3(2H)-ones via C-S/N-S bond formation	2012	RSC Advances	2	18	7057	7060
52	Kumar R.K., Punniyamurthy T.	Palladium-catalyzed aerobic oxidative C-H amination: Synthesis of 2-unsubstituted and 2-substituted N-aryl benzimidazoles	2012	RSC Advances	2	11	4616	4619
53	Guru M.M., Punniyamurthy T.	Copper(II)-catalyzed aerobic oxidative synthesis of substituted 1,2,3- and 1,2,4-triazoles from bisarylhydrazones via C-H functionalization/C-C/N-N/C-N bonds formation	2012	Journal of Organic Chemistry	77	11	5063	5073
54	Sakthivel S., Punniyamurthy T.	Fluorescent OFF-ON polymer chemosensor bonded alternatively with 1,4-dioctyloxybenzene and (R,R)-salen for cascade Zn <sup>2+</sup> and chiral recognition	2012	Tetrahedron Asymmetry	23	8	570	576
55	Sengoden M., Punniyamurthy T.	Role of temperature in [3+2]-cycloaddition of isoselenocyanates with oxiranes using BF <sub>3</sub> ·Et <sub>2</sub> O	2012	RSC Advances	2	7	2736	2738
56	Sakthivel S., Jammi S., Punniyamurthy T.	Fluorescent non-linear chiral polymer chemosensor bonded alternatively with 1,4-diethynyl-2,5-dioctyloxybenzene and (R,R)-salen for Zn <sup>2+</sup> recognition	2012	Tetrahedron Asymmetry	23	2	101	107
57	Saha P., Ghosh P., Sultana S., Saikia A.K.	Diastereoselective synthesis of substituted dihydropyrans via an oxonium-ene cyclization reaction	2012	Organic and Biomolecular Chemistry	10	43	8730	8738

58	Gogoi P., Kotipalli T., Indukuri K., Bondalapati S., Saha P., Saikia A.K.	Application of a novel 1,3-diol with a benzyl backbone as chiral ligand for asymmetric oxidation of sulfides to sulfoxides	2012	Tetrahedron Letters	53	22	2726	2729
59	Saha P., Bhunia A., Saikia A.K.	Synthesis of 2,3,5,6-tetrasubstituted tetrahydropyrans via (3,5)-oxonium-ene reaction	2012	Organic and Biomolecular Chemistry	10	12	2470	2481
61	Saha P., Saikia A.K.	Stereoselective synthesis of 6-oxabicyclo[3.2.1]nals via (3,5)-oxonium-ene reaction	2012	Tetrahedron	68	10	2261	2266
62	Bondalapati S., Gogoi P., Indukuri K., Saikia A.K.	Diastereoselective synthesis of substituted tetrahydrothiopyrans via (3,5)-thionium-ene cyclization reaction	2012	Journal of Organic Chemistry	77	5	2508	2512
63	Indukuri K., Bondalapati S., Kotipalli T., Gogoi P., Saikia A.K.	Stereoselective, one-pot, three-component synthesis of 4-aryltetrahydropyrans from epoxides via prins cyclization reaction	2012	Synlett		2	233	238
64	Indukuri K., Bondalapati S., Sultana S., Saikia A.K.	Synthesis of 2,3-dihydro-4-pyranones from epoxides via intermolecular [4+2] cycloaddition reaction	2012	RSC Advances	2	25	9398	9402
65	Jena H.S., Manivannan V.	Diastereoselectivity in dinuclear complexes of chiral tridentate ligands	2012	Inorganica Chimica Acta	390		154	162
66	Fulwa V.K., Manivannan V.	Synthesis of 3-substituted imidazo[1,5-a]pyridines having 1-(N-picolinamidin-2-yl) group	2012	Tetrahedron	68	21	3927	3931
67	Fulwa V.K., Manivannan V.	Synthesis of some 1,3-disubstituted imidazo[1,5-a]pyridines using 2-cyanopyridine	2012	Tetrahedron Letters	53	19	2420	2423
68	Sahu R., Fulwa V.K., Jena H.S., Manivannan V.	Copper(II) acetate mediated conversion of ortho aminomethyl substituted isoquinolines to bis(isoquinolylylcarbonyl)amides	2012	Polyhedron	33	1	9	12
69	Dey S.K., Datta B.K., Das G.	Binding discrepancy of fluoride in quaternary ammonium and alkali salts by a tris(amide) receptor in solid and solution states	2012	CrystEngComm	14	16	5305	5314
70	Dey S.K., Chutia R., Das G.	Oxyanion-encapsulated caged supramolecular frameworks of a tris(urea) receptor: Evidence of hydroxide- and fluoride-ion-induced fixation of atmospheric CO <sub>2</sub> as a trapped CO <sub>3</sub> <sup>2-</sup> anion	2012	Inorganic Chemistry	51	3	1727	1738
71	Basu A., Das G.	Neutral acyclic anion receptor with thiadiazole spacer: Halide binding study and halide-directed self-assembly in the solid state	2012	Inorganic Chemistry	51	2	882	889
72	Gogoi A., Das G.	Charge-assisted complexation of anions of different dimensionality by benzimidazole-based receptors bearing –OH functionality	2012	Crystal Growth and Design	12	8	4012	4021
73	Basu A., Das G.	Amidothiourea as a potential receptor for organic bases by resonance assisted low barrier hydrogen bond formation: Structure and Hirshfeld surface analysis	2012	CrystEngComm	14	9	3306	3314

74	Kar C., Deb Adhikari M., Ramesh A., Das G.	Selective sensing and efficient separation of Hg <sup>2+</sup> from aqueous medium with a pyrene based amphiphilic ligand	2012	RSC Advances	2	24	9201	9206
75	Dey S.K., Das G.	Selective inclusion of PO <sub>4</sub> <sup>3-</sup> within persistent dimeric capsules of a tris(thiourea) receptor and evidence of cation/solvent sealed unimolecular capsules	2012	Dalton Transactions	41	29	8960	8972
76	Kar C., Basu A., Das G.	Benzimidazole nalyserdion tripodal receptor for selective recognition of iodide	2012	Tetrahedron Letters	53	35	4754	4757
77	Kar C., Das G.	A retrievable fluorescence “TURN ON” sensor for sulfide anions	2012	Journal of Photochemistry and Photobiology A: Chemistry	251		128	133
78	Saikia J., Saha B., Das G.	Morphosynthesis of framboidal stable vaterite using a salicylic acid-aniline dye as an additive	2012	RSC Advances	2	26	10015	10019
79	Saikia J., Saha B., Das G.	Controlling the morphological evolution of ZnO NPs from single precursor source and its application for beta-lactoglobulin adsorption	2012	Journal of Nanoparticle Research	14	11		
80	Basu A., Das G.	Encapsulation of divalent tetrahedral oxyanions of sulfur within the rigidified dimeric capsular assembly of a tripodal receptor: First crystallographic evidence of thiosulfate encapsulation within neutral receptor capsule	2012	Dalton Transactions	41	35	10792	10802
81	Hoque M.N., Basu A., Das G.	Cyclic pentameric puckered hybrid chloride-water cluster [Cl <sub>3</sub> (H <sub>2</sub> O) <sub>4</sub> ] <sup>3-</sup> in the hydrophobic architecture	2012	Crystal Growth and Design	12	5	2153	2157
82	Adhikari M. D. , Das G. , Ramesh A.	Retention of nisin activity at elevated pH in organic acid complex and gold nanoparticle composite	2012	Chem. Commun.	48		8928	8930
83	Vudumula U. , Adhikari M. D., Ojha B., Goswami S. , Das G. , A. Ramesh	Tuning the Bactericidal Repertoire and Potency of Quinoline-based Amphiphiles for Enhanced Killing of Pathogenic Bacteria.	2012	RSC Advances.	2		3864	3871
84	Singh D.K., Iyer P.K., Giri P.K.	Role of molecular interactions and structural defects in the efficient fluorescence quenching by carbon nanotubes	2012	Carbon	50	12	4495	4505
85	Singh D.K., Iyer P.K., Giri P.K.	Distinguishing defect induced intermediate frequency modes from combination modes in the Raman spectrum of single walled carbon nanotubes	2012	Journal of Applied Physics	111	6		
86	Kakati K., Pugazhenth G., Iyer P.K.	Effect of organomodified Ni-Al layered double hydroxide (LDH) on the properties of polypropylene (PP)/LDH nanocomposites	2012	International Journal of Polymeric Materials and Polymeric Biomaterials	61	12	931	948

87	Goutam P.J., Singh D.K., Iyer P.K.	Photoluminescence quenching of poly(3-hexylthiophene) by carbon nanotubes	2012	Journal of Physical Chemistry C	116	14	8196	8201
88	Saikia G., Dwivedi A.K., Iyer P.K.	Development of solution, film and membrane based fluorescent sensor for the detection of fluoride anions from water	2012	Analytical Methods	4	10	3180	3186
89	Dwivedi A.K., Prasad K.M., Trivedi V., Iyer P.K.	Interaction of heme proteins with anionic polyfluorene: Insights into physiological effects, folding events, and inhibition activity	2012	ACS Applied Materials and Interfaces	4	11	6371	6377
90	Khandelia R., Deka J., Paul A., Chattopadhyay A.	Signatures of specificity of interactions of binary protein mixtures with citrate-stabilized gold nanoparticles	2012	RSC Advances	2	13	5617	5628
91	Deka J., Paul A., Chattopadhyay A.	Modulating enzymatic activity in the presence of gold nanoparticles	2012	RSC Advances	2	11	4736	4745
92	Gogoi S.K., Paul A., Chattopadhyay A.	Galvanic reaction based generation of electronically transparent corrugated Ag-Au nanoparticle thin films	2012	RSC Advances	2	9	3642	3646
93	Sk M.P., Jaiswal A., Paul A., Ghosh S.S., Chattopadhyay A.	Presence of amorphous carbon nanoparticles in food caramels	2012	Scientific Reports	2			
94	Mallick S., Sharma S., Banerjee M., Ghosh S.S., Chattopadhyay A., Paul A.	Iodine-stabilized Cu nanoparticle chitosan composite for antibacterial applications	2012	ACS Applied Materials and Interfaces	4	3	1313	1323
95	Gupta A.K., Chipem F.A.S., Boomishankar R.	A 2-pyridyl (py) attached phosphine imine [P(Npy)(Nhpy) 3] and an imido phosphinate ion [P(Npy) 2(Nhpy) 2] – in its Ag(i) complex	2012	Dalton Transactions	41	6	1848	1853
96	Kalita D.J., Gupta A.K.	Application of parametric equations of motion to study the resonance coalescence in H <sub>2</sub> +	2012	Journal of Chemical Physics	137	21		
97	Kalita D., Gupta A.K.	Laser-induced multiphoton dissociation of H <sub>2</sub> + as a function of the field frequency using parametric equations of motion	2012	Physical Review A – Atomic, Molecular, and Optical Physics	85	3		
98	Mishra R., Kalita D.J., Gupta A.K.	Breakdown of dipole approximation and its effect on high harmonic generation	2012	European Physical Journal D	66	6		
99	Dash N., Krishnamoorthy G.	Effect of temperature on the spectral characteristics of 2-(4'-N,N-dimethylamino phenyl)imidazo[4,5-b]pyridine	2012	Spectrochimica Acta – Part A: Molecular and Biomolecular Spectroscopy	95		540	546
100	Chipem F.A.S., Mishra A., Krishnamoorthy G.	The role of hydrogen bonding in excited state intramolecular charge transfer	2012	Physical Chemistry Chemical Physics	14	25	8775	8790
101	Mishra A., Krishnamoorthy G.	Photophysical study of 2-(4'-N,N-dimethylaminophenyl)oxazolo[4,5-b]pyridine in different solvents and at various pH	2012	Photochemical and Photobiological Sciences	11	8	1356	1367

102	Kumar, P.; Kalita, A.; Mondal, B.	Copper(II) complexes as turn on fluorescent sensors for nitric oxide	2012	Dalton Trans.,	41		10543	10548
103	Sarma M.; Kumar, V.; Kalita, A.; Deka, R. C.; Mondal, B.	Nitric oxide reactivity of copper(II) complexes of bidentate amine ligands: Effect of chelate ring size on the stability of [CuII-NO] intermediate	2012	Dalton Trans.,	41		9543	9552
104	Kalita A., Kumar P., Deka R.C., Mondal B.	First example of Cu(I)-(η <sup>2</sup> -O,O)nitrite complex derived from Cu(II)-nitrosyl	2012	Chemical Communications	48	9	1251	1253
105	Kumar P., Gorai S., Kumar Santra M., Mondal B., Manna D.	First example of Cu(I)-(η <sup>2</sup> -O,O)nitrite complex derived from Cu(II)-nitrosyl	2012	Dalton Transactions	41	25	7573	7581
106	Kalita A., Kumar P., Mondal B.	Reaction of a copper(ii)-nitrosyl complex with hydrogen peroxide: Putative formation of a copper(i)-peroxynitrite intermediate	2012	Chemical Communications	48	38	4636	4638
107	Koner D., Vats A., Vashishta M., Panda A.N.	Ab initio electronic structure investigation of protonated mixed rare gas nalyse [NeHHe] +, [ArHHe] + and [ArHNe] +	2012	Computational and Theoretical Chemistry	1000		19	25
108	Panda A.N., Herraez-Aguilar D., Jambrina P.G., Aldegunde J., Althorpe S.C., Aoiz F.J.	A state-to-state dynamical study of the Br + H <sub>2</sub> reaction: Comparison of quantum and classical trajectory results	2012	Physical Chemistry Chemical Physics	14	37	13067	13075
109	Bhattacharya S., Kirwai A., Panda A.N., Meyer H.-D.	Full dimensional quantum scattering study of the H <sub>2</sub> + CN reaction	2012	Journal of Chemical Sciences	124	1	65	73
110	Sarma R, Paul S.	Effect of pressure on the solution structure and hydrogen bond properties of aqueous N-methylacetamide	2012	Chem. Phys.	407		115	
111	Sarma R, Paul S.	Effect of trimethylamine-N-oxide on pressure-induced dissolution of hydrophobic solute	2012	J. Chem. Phys.	137		1E+05	
112	Sarma R, Paul S.	The Effect of Aqueous Solutions of Trimethylamine-N-oxide on Pressure Induced Modifications of Hydrophobic Interactions	2012	J. Chem. Phys.	137		94502	
113	Paul S., Patey G. N.	Influence of Urea on tert-Butyl Alcohol Aggregation in Aqueous Solutions	2012	J. Phys. Chem. B	116		4991	
114	Sarma R, Paul S.	The Effect of Pressure on the Hydration Structure Around Hydrophobic Solute: A Molecular Dynamics Simulation Study	2012	J. Chem. Phys.	136		1E+05	
115	Sarma R, Paul S.	Association of Small Hydrophobic Solute in Presence of Osmolytes Urea and Trimethylamine-N-Oxide	2012	J. Phys. Chem. B	116		2831	
116	Khan Z., Qureshi M.	Visible light assisted photocatalytic hydrogen generation and organic dye degradation by CdS – metal oxide hybrids in presence of graphene oxide	2012	RSC Advances	2		12122	



117	Khan Z., Qureshi M.	Tantalum Doped BaZrO <sub>3</sub> for Efficient Photocatalytic Hydrogen Generation by Water Splitting	2012	Cataly. Commun.	28		82	
118	Khan Z., Chetia T. R., Qureshi M.	Rational Design of Hyperbranched 3D Heteroarrays of SrS/CdS: Synthesis, Characterization and Evaluation of photocatalytic Properties for Efficient Hydrogen Generation and Organic Dye Degradation	2012	Nanoscale	4		3543	
119	Khan Z., Khannam M., Vinothkumar N., De M., Qureshi M.	Hierarchical 3D NiO/CdS Heteroarchitecture for Efficient Visible Light Photocatalytic Hydrogen Generation	2012	J. Mater. Chem.	22		12090	
120	Barpuzary D., Khan Z., Vinothkumar N., De M., Qureshi M.	Hierarchically Grown Urchinlike CdS@ZnO and CdS@Al <sub>2</sub> O <sub>3</sub> Heteroarrays for Efficient Visible-Light-Driven Photocatalytic Hydrogen Generation	2012	J. Phys. Chem. C	116		150	
121	Bag S. S., Heemstra J., Saito, Y., Chenoweth D. M.	Expansion of the Genetic Alphabet: Unnatural Nucleobases and their Applications	2012	Journal of Nucleic Acids				
122	Bag S. S., Kundu R., Talukdar S.	Fluorometric sensing of Cu <sup>2+</sup> ion with smart fluorescent light-up probe, triazolylpyrene (TNDMBPy)	2012	Tetrahedron Lett.	53		5875	5879
123	Roy S., Bag S. S., Basak A.	Synthesis and reactivity of enediyne-nucleobase hybrids: Effect of intramolecular $\pi$ -stacking	2012	Tetrahedron	68		8600	8611
124	Thalluri K., Nadimpally K.C., Paul A., Mandal B.	Waste reduction in amide synthesis by a continuous method based on recycling of the reaction mixture	2012	RSC Advances	2	17	6838	6845
125	Khan Z., Chetia T.R., Vardhaman A.K., Barpuzary D., Sastri C.V., Qureshi M.	Visible light assisted photocatalytic hydrogen generation and organic dye degradation by CdS-metal oxide hybrids in presence of graphene oxide	2012	RSC Advances	2	32	12122	12128
126	Mamidi, N.; Borah, R.; Sinha, N.; Jana, C.; Manna, D.	Effects of Ortho-Substituent Groups of Protocatechualdehyde Derivatives on Binding to the C1 Domain of Novel Protein Kinase C.	2012	Journal of Physical Chemistry B	116	35	10684	10692
127	Dasgupta, S.; Manna, D.; Basu, G.	Structural and functional consequences of mutating a proteobacteria-specific surface residue in the catalytic domain of Escherichia coli GluRS	2012	FEBS Letters	586	12	1724	1730
128	Kumar P., Gorai S., Kumar Santra M., Mondal B., Manna D.	DNA binding, nuclease activity and cytotoxicity studies of Cu(II) complexes of tridentate ligands	2012	Dalton Transactions	41	25	7573	7581
129	Mamidi N., Gorai S., Sahoo J., Manna D.	Alkyl cinnamates as regulator for the C1 domain of protein kinase C isoforms	2012	Chemistry and Physics of Lipids	165	3	320	330
130	Mamidi N., Borah R., Sinha N., Jana C., Manna D.	Effects of ortho substituent groups of protocatechualdehyde derivatives on binding to the C1 domain of novel protein kinase C	2012	Journal of Physical Chemistry B	116	35	10684	10692
131	Mamidi N., Gorai S., Mukherjee R., Manna D.	Development of diacyltetrol lipids as activators for the C1 domain of protein kinase C	2012	Molecular BioSystems	8	4	1275	1285

132	Kundu L.M., Tsukada H., Matsuoka Y., Kanayama N., Takarada T., Maeda M.	Estimation of binding constants of peptide nucleic acid and secondary-structured DNA by affinity capillary electrophoresis	2012	Analytical Chemistry	84	12	5204	5209
133	Burgula L.N., Radhakrishnan K., Kundu L.M.	Synthesis of modified uracil and cytosine nucleobases using a microwave-assisted method	2012	Tetrahedron Letters	53	21	2639	2642
134	Ghorai S., Mukherjee C.	Ortho-substituent induced triradical-containing tetranuclear oxo-vanadium(iv) cluster formation via ligand C-N bond breaking and C-O bond making	2012	Chemical Communications	48	82	10180	10182
135	Achalkumar A.S., Yelamaggad C.V.	Light emitting, star-shaped tris(N-salicylideneaniline) discotic liquid crystals bearing trans-stilbene fluorophores: Synthesis and characterization	2012	Tetrahedron Letters	53	52	7108	7112
136	Jiao D., Geng j. , Loh X. J. , Das D. , Lee T.C. , Oren A. S.	Fluorescence sensing delivery peptide into living cell via supramolecular peptide-amphiphile vesicles	2012	Angew. Chem. Int. Ed.	124		9771	9775
137	Das D, Tnimov Z, Ngyen U. T.T., Abankwa D. , Lo H., Wu Y., Thimmaiah G., Goody R. S., Waldmann H.,Alexandrov K.	Amine mediated synthesis of analyser dion phosphoisoprenoid libraries	2012	ChemBio Chem	13		674	683
138	Pan S.C.	Organocatalytic C-H activation reactions	2012	Beilstein Journal of Organic Chemistry	8		1374	1384
139	Hussain S., Talukdar D., Bharadwaj S.K., Chaudhuri M.K.	VO 2F(dmpz) 2: A new catalyst for selective oxidation of organic sulfides to sulfoxides with H 2O 2	2012	Tetrahedron Letters	53	48	6512	6515