

International and National Journal

(PERIOD: 1 APRIL 2015 – 31 MARCH 2016)

Sl. No.	Authors	Paper Title	Journal Name	Year	Vol.	Issue No.	Starting Page	Ending Page
1	Khakhlyar, P., Baruah, J.B.	Synthesis and characterization of tri-quinoline based receptors and study interactions with Zn ²⁺ and Cu ²⁺ ions	InorganicaChimicaActa	2016	440		53	61
2	Tarai, A., Baruah, J.B.	Solution and Solid State Study on the Recognition of HydroxyaromaticAldoximes by Nitrogen Containing Compounds	Crystal Growth and Design	2016	16	1	126	135
3	Shankar, K., Kirillov, A.M., Baruah, J.B.	Bottom up synthesis for homo- and heterometallic 2,3-pyridinedicarboxylate coordination compounds	Polyhedron	2015	102		521	529
4	Shankar, K., Baruah, J.B.	Different Types of Nickel, Cobalt, and Manganese Complexes originating from 2-Imidazolecarboxaldiimine of Triethylenetetraamine	Zeitschrift fur Anorganische und AllgemeineChemie	2015	641	15	2558	2564
5	Tarai, A., Baruah, J.B.	Oxime synthons in the salts and cocrystals of quinoline-4-carbaldoxime for non-covalent synthesis	CrystEngComm	2015	18	2	298	308
6	Tarai, A., Baruah, J.B.	Study on divalent copper, nickel and zinc model complexes for fluoride ion detection	RSC Advances	2015	5	100	82144	82152
7	Shankar, K., Kirillov, A.M., Baruah, J.B.	A modular approach for molecular recognition by zinc dipicolinate complexes	Dalton Transactions	2015	44	32	14411	14423
8	Phukan, N., Goswami, A., Baruah, J.B.	Distinctions of positional isomers of N-(methylthiazol-2-yl)nitrobenzamide by copper and iron ions	InorganicaChimicaActa	2015	435		239	243
9	Tarai, A., Baruah, J.B.	Dimethylsulphoxide solvate of N,N'-dinaphthylthiourea and its selective interactions with fluoride and copper(II) ions	Journal of Molecular Structure	2015	1091		147	151
10	Phukan, N., Baruah, J.B.	Polymorphs of thiazole-derived imines connected to hydroxyaromatics	Crystal Growth and Design	2015	15	4	1843	1851
11	Sk, M.P., Sailapu, S.K., Chattopadhyay, A.	Luminescent Carbon Dots for Logic Operations in Two Phases	ChemPhysChem	2015	16	4	723	727
12	Bhandari, S., Roy, S., Pramanik, S., Chattopadhyay, A.	Double Channel Emission from a Redox Active Single Component Quantum Dot Complex	Langmuir	2015	31	1	551	561
13	Ghosh, R., Goswami, U., Ghosh, S.S., Paul, A., Chattopadhyay, A.	Synergistic Anticancer Activity of Fluorescent Copper Nanoclusters and Cisplatin Delivered through a Hydrogel Nanocarrier	ACS Applied Materials and Interfaces	2015	7	1	209	222
14	Pramanik, S., Bhandari, S., Roy, S., Chattopadhyay, A.	Synchronous Tricolor Emission-Based White Light from Quantum Dot Complex	The Journal of Physical Chemistry Letters	2015	6	7	1270	1274

15	Khandelia, R., Bhandari, S., Pan, U.N., Ghosh, S.S., Chattopadhyay, A.	Gold Nanocluster Embedded Albumin Nanoparticles for Two-Photon Imaging of Cancer Cells Accompanying Drug Delivery	Small	2015	11	33	4075	4081
16	PalashuddinSk, M., Goswami, U., Ghosh, S.S., Chattopadhyay, A.	Cu ²⁺ -embedded carbon nanoparticles as anticancer agents	Journal of Materials Chemistry B	2015	3	28	5673	5677
17	Dutta, A., Das, S., Paul, A., Chattopadhyay, A.	Kinetics of reaction of gold nanoparticles following partial removal of stabilizers	Journal of Nanoparticle Research	2015	17	16	260	260
18	Bhandari, S., Khandelia, R., Pan, U.N., Chattopadhyay, A.	Surface Complexation-Based Biocompatible MagnetofluorescentNanoprobe for Targeted Cellular Imaging	ACS Applied Materials and Interfaces	2015	7	32	17552	17557
19	Roy, S., Bhandari, S., Chattopadhyay, A.	Quantum Dot Surface Mediated Unprecedented Reaction of Zn ²⁺ and Copper Quinolate Complex	The Journal of Physical Chemistry C	2015	119	36	21191	21197
20	Sanpui, P., Paul, A., Chattopadhyay, A.	Theranostic potential of gold nanoparticle-protein agglomerates	Nanoscale	2015	7	44	18411	18423
21	Ghoshal, A., Goswami, U., Sahoo, A. K., Chattopadhyay, A., Ghosh, S. S.	Targeting Wnt Canonical Signaling by Recombinant sFRP1 Bound Luminescent Au-Nanocluster Embedded Nanoparticles in Cancer Theranostics	ACS Biomaterials Science & Engineering	2015	1	12	1256	1266
22	Basu, S., Paul, A., Chattopadhyay, A.	Zinc Mediated Crystalline Assembly of Gold Nanocluster for Expedient Hydrogen Storage and Sensing	Journal of Materials Chemistry A	2016	4	4	1218	1223
23	Dutta, D., Sahoo, A.K., Chattopadhyay, A., Ghosh, S.S.	Bimetallic silver nanoparticle-gold nanocluster embedded composite nanoparticles for cancer theranostics	Journal of Materials Chemistry B	2016	4	4	793	800
24	Bhandari, S., Pramanik, S., Khandelia, R., Chattopadhyay, A.	Gold Nanocluster and Quantum Dot Complex in Protein for Biofriendly White-Light-Emitting Material	ACS Applied Materials and Interfaces	2016	8	3	1600	1605
25	Pal, A., Sk, M.P., Chattopadhyay, A.	Conducting Carbon Dot - Polypyrrole Nanocomposite for Sensitive Detection of Picric acid	ACS Applied Materials and Interfaces	2016	8	9	5758	5762
26	Bhattacharjee, S., Khan, A.T.	Synthesis of 3-substituted carboxylate/carboxamide flavone derivatives from 4-hydroxycoumarin, β -nitrostyrene and alcohol/amine using multicomponent reaction	Tetrahedron Letters	2016	57	17	1831	1834
27	Gattu, R., Basha, R.S., Bagdi, P.R., Khan, A.T.	One-pot three-component regioselective synthesis of C1-functionalised 3-arylbenzo[f]quinoline	RSC Advances	2016	6	14	11675	11682
28	Belal, M., Khan, A.T.	Synthesis of fused oxazole-containing coumarin derivatives via oxidative cross coupling reaction using a combination of CuCl ₂ and TBHP	RSC Advances	2016	6	23	18891	18894
29	Belal, M., Khan, A.T.	Oxidative cross coupling reaction mediated by I ₂ /H ₂ O ₂ : A novel approach for the construction of fused thiazole containing coumarin derivatives	RSC Advances	2015	5	126	104155	104163

30	Dar, A.A., Enjamuri, N., Shadab, Md., Ali, N., Khan, A.T.	Synthesis of Unsymmetrical Sulfides and Their Oxidation to Sulfones to Discover Potent Antileishmanial Agents	ACS Combinatorial Science	2015	17	11	671	681
31	Islam, K., Das, D.K., Akram, E., Khan, A.T.	Exploration of C5-C6-Unsubstituted 1,4-Dihydropyridines for the Construction of exo -Hexahydro-1 H -chromeno[3,4- h][1,6]naphthyridine-3-carboxylates Using a Stereoselective Povarov Reaction	Synthesis (Germany)	2015	47	18	2745	2755
32	Islam, K., SidickBasha, R., Dar, A.A., Das, D.K., Khan, A.T.	A direct approach for the expedient synthesis of unsymmetrical ethers by employing bromodimethylsulfonium bromide (BDMS) mediated C-S bond cleavage of naphthalene-2-ol sulfides	RSC Advances	2015	5	97	79759	79764
33	Choudhury, A., Ali, S., Khan, A.T.	Hydrated ferric sulfate [Fe ₂ (SO ₄) ₃ .xH ₂ O]: An Efficient and reusable catalyst for one-pot synthesis of 2H-Indazolo[2,1-b]phthalazine-triones	Journal of the Korean Chemical Society	2015	59	4	280	283
34	Sarkar, S., Khan, A.T.	Beyond conventional routes, an unprecedented metal-free chemoselective synthesis of anthranilate esters via a multicomponent reaction (MCR) strategy	Chemical Communications	2015	51	63	12673	12676
35	Bhattacharjee, S., Das, D.K., Khan, A.T.	Bromodimethylsulfonium bromide: An efficient catalyst for one-pot synthesis of 4-phenacylidene flavene derivatives	Tetrahedron Letters	2015	56	19	2412	2415
36	Belal, M., Das, D.K., Khan, A.T.	Synthesis of pyrido[2,3-c]coumarin derivatives by an intramolecular povarov reaction	Synthesis (Germany)	2015	47	8	1109	1116
37	Dar, A.A., Hussain, S., Dutta, D., Iyer, P.K., Khan, A.T.	One-pot synthesis of functionalized 4-hydroxy-3-thiomethylcoumarins: Detection and discrimination of Co ²⁺ and Ni ²⁺ ions	RSC Advances	2015	5	71	57749	57756
38	Mahato, K., Bagdi, P.R., Khan, A.T.	Yb(OTf) ₃ catalysed regioselective synthesis of unusual di- and tri-substituted 3,4-dihydrothiochromeno[3,2-e][1,3]thiazin-5(2H)-one derivatives through a pseudo four-component hetero-Diels-Alder reaction	RSC Advances	2015	5	59	48104	48111
39	Bagdi, P.R., Basha, R.S., Khan, A.T.	Synthesis of 2-triazolyl-imidazo[1,2-a]pyridine through a one-pot three-component reaction using a nano copper oxide assisted click-catalyst	RSC Advances	2015	5	75	61337	61344
40	Singh, S.J., Rajamanickam, S., Gogoi, A., Patel, B.K.	Synthesis of 2-amino-substituted-1,3,4-thiadiazoles via 2,3-dichloro-5,6-dicyano-1,4-benzoquinone (DDQ) mediated intramolecular C-S bond formation in thiosemicarbazones	Tetrahedron Letters	2016	57	9	1044	1047
41	Gogoi, A., Sau, P., Ali, W., Guin, S., Patel, B.K.	Copper(II)-Catalyzed Synthesis of Indoloquinoxalin-6-ones through Oxidative Mannich Reaction	European Journal of Organic Chemistry	2016	2016	7	1449	1453
42	Santra, S.K., Banerjee, A., Rajamanickam, S.,	PdII/CuBr ₂ catalysed keto α -Csp ³ -H benzylation of N,N-dialkylamides directed by o-hydroxy groups	Chemical Communications	2016	52	24	4501	4504

	Khatun, N., Patel, B.K.							
43	Ganesh, M., Sahoo, S.K., Khatun, N., Patel, B.K.	Copper-Catalysed Cascade Synthesis of Imidazolidine-Benzothiazole and Imidazolidine-Tetrazole Hybrid Heterocycles from Bis-thioureas by a Desulfurisation Strategy	European Journal of Organic Chemistry	2015	2015	34	7534	7543
44	Banerjee, A., Santra, S.K., Mohanta, P.R., Patel, B.K.	Ruthenium(II) Catalyzed Regiospecific C-H/O-H Annulations of Directing Arenes via Weak Coordination	Organic Letters	2015	17	22	5678	5681
45	Rajamanickam, S., Majji, G., Santra, S.K., Patel, B.K.	Bu ₄ NI Catalyzed C-N Bond Formation via Cross-Dehydrogenative Coupling of Aryl Ethers (Csp ³ -H) and Tetrazoles (N-H)	Organic Letters	2015	17	22	5586	5589
46	Khatun, N., Modi, A., Ali, W., Patel, B.K.	Palladium-Catalyzed Synthesis of 2-Aryl-2H-Benzotriazoles from Azoarenes and TMSN ₃	Journal of Organic Chemistry	2015	80	19	9662	9670
47	Gogoi, A., Guin, S., Rajamanickam, S., Rout, S.K., Patel, B.K.	Synthesis of 1,2,4-Triazoles via Oxidative Heterocyclization: Selective C-N Bond over C-S Bond Formation	Journal of Organic Chemistry	2015	80	18	9016	9027
48	Paul, B., Bhuyan, B., Purkayastha, D.D., Dhar, S.S., Patel, B.K.	Hexamethoniumbis(tribromide) (HMBTB) a recyclable and high bromine containing reagent	Tetrahedron Letters	2015	56	41	5646	5650
49	Ali, W., Behera, A., Guin, S., Patel, B.K.	Regiospecificbenzoylation of electron-deficient n -heterocycles with methylbenzenes via a minisci-type reaction	Journal of Organic Chemistry	2015	80	11	5625	5632
50	Majji, G., Rajamanickam, S., Khatun, N., Santra, S.K., Patel, B.K.	Generation of bis-Acyl ketals from esters and benzyl amines under oxidative conditions	Journal of Organic Chemistry	2015	80	7	3440	3446
51	Modi, A.; Ali, W.; Mohanta, P. R.; Khatun, N.; Patel, B. K.	CuO Nanoparticle catalyzed synthesis of 2,3-disubstituted quinazolinones via sequential N-arylation and oxidative C-H amidation	ACS Sustainable Chemistry & Engineering	2015		3	2582	
52	Banerjee, A.; Santra, S. K.; Khatun, N.; Ali, W.; Patel, B. K.	Oxidant controlled regioselective mono- and di- functionalization reactions of coumarins	Chemical Communications	2015	50		15422	15425
53	Khatun, N.; Banerjee, A.; Santra, S. K.; Ali, W.; Patel, B. K.	Benzylic ethers as arylcarboxy surrogates in substrate directed ortho C-H functionalisationcatalysed by copper	RSC Advances	2015	5		36461	36466
54	Behera, A.; Ali, W.; Guin, S.; Khatun, N.; Mohanta, P. R.; Patel, B. K.	Benzyl bromides as aroyl surrogates in substrate directed Pd catalysed o- aroylation	RSC Advances	2015	5		33334	33338
55	Bharathiraja, G., Sathishkannan, G., Punniyamurthy, T.	Domino Synthesis of TetrasubstitutedThiophenes from 1,3-Enynes with Mercaptoacetaldehyde	Journal of Organic Chemistry	2016	81	7	2670	2674
56	Bag, R., Sar, D., Punniyamurthy, T.	Iron(III)-catalyzed aerobic dioxxygenation of styrenes using N-hydroxyphthalimide and N-	Organic and Biomolecular Chemistry	2016	14	12	3246	3255

		hydroxybenzotriazole						
57	Sadhu, P., Punniyamurthy, T.	Copper(II)-mediated regioselective N-arylation of pyrroles, indoles, pyrazoles and carbazole via dehydrogenative coupling	Chemical Communications	2016	52	13	2803	2806
58	Sar, D., Bag, R., Yashmeen, A., Bag, S.S., Punniyamurthy, T.	Synthesis of Functionalized Pyrazoles via Vanadium-Catalyzed C-N Dehydrogenative Cross-Coupling and Fluorescence Switch-On Sensing of BSA Protein	Organic Letters	2015	17	21	5308	5311
59	Sadhu, P., Alla, S.K., Punniyamurthy, T.	Room-Temperature Cu(II)-Catalyzed Chemo- and Regioselective Ortho-Nitration of Arenes via C-H Functionalization	Journal of Organic Chemistry	2015	80	16	8245	8253
60	Sar, D., Bag, R., Bhattacharjee, D., Deka, R.C., Punniyamurthy, T.	Iron(III)-Mediated Radical Nitration of Bisarylsulfonylhydrazones: Synthesis of Bisarylnitromethyl Sulfones	Journal of Organic Chemistry	2015	80	13	6776	6783
61	Murugavel, G., Punniyamurthy, T.	Microwave-Assisted Copper-Catalyzed Four-Component Tandem Synthesis of 3- N -SulfonylamidineCoumarins	Journal of Organic Chemistry	2015	80	12	6291	6299
62	Bag, R., Sar, D., Punniyamurthy, T.	Copper(II)-catalyzed direct dioxygenation of alkenes with air and n -hydroxyphthalimide: Synthesis of β -keto- N -alkoxyphthalimides	Organic Letters	2015	17	8	2010	2013
63	Sahu, R., Chaliha, P., Manivannan, V.	Iron(III) Chloride mediated reduction of Bis(1-isoquinolylcarbonyl)amide to an Amide [†]	Journal of Chemical Sciences	2016	128	1	37	42
64	Fulwa, V. K., Sahu, R., Manivannan, V.	Syntheses and Molecular Structures of Mononuclear Copper(II) Complex with Pyridine-4-Amidoxime and Manganese(II) Complex with 4'-(2-Pyridyl)-2,2':6',2''-terpyridine	Journal of the Indian Chemical Society	2015	92		1817	1822
65	Deka, M.J., Indukuri, K., Sultana, S., Borah, M., Saikia, A.K.	Synthesis of 5,6 and 7-Membered 1,3 and 1,4-Heterocyclic Compounds via Intramolecular Hydroalkoxylation /Hydrothioalkoxylation of Alkenols/Thioalkenols	The Journal of Organic Chemistry	2015	80		4349	4359
66	Sultana, S., Devi, N.R., Saikia, A.K.	Synthesis of substituted tetrahydropyran and -furan via intramolecular hydroalkoxylation of alkenols	Asian Journal of Organic Chemistry	2015	14		1281	1288
67	Das, M., Saha, G., Saikia, A.K., Dubey, V.K.	Novel agents against miltefosine-unresponsive Leishmaniadonovani	Antimicrob Agents Chemother	2015	59		7826	7829
68	Ghosh, P., Deka, M.J., Saikia, A.K.	Lewis Acid Mediated Intramolecular C-O Bond Formation of Alkanol-Epoxide Leading to Substituted Morpholine and 1,4-Oxazepane Derivatives: Total Synthesis of ($\pm$) - Viloxazine	Tetrahedron	2016	72		690	698
69	Sabera Sultana, S., Devi, N.R., Deka, M.J., Tiwari, K., Dubey, V.K. Saikia, A.K.	Diastereoselective Synthesis of Substituted Hexahydrobenzo[de]isochromans and their Evaluation asAntileishmanial activity	Organic &Biomolecular Chemistry	2016	14		970	979

70	Borah, N., Gogoi, A., Das, G.	Competitive anion binding aptitude of benzimidazole and amide functionality of a non-symmetrical receptor in solid state and solution phase	Supramolecular Chemistry	2016	28		275	283
71	Hoque, M.N., Das, G.	Implications of hydrogen/halogen-bond in the stabilization of confined water and anion-water clusters by a cationic receptor	Journal of Molecular Structure	2016	1108		298	306
72	Samanta, S., Ray, T., Haque, F., Das, G.	A turn-on Rhodamine B-indole based fluorogenic probe for selective sensing of trivalent ions	Journal of Luminescence	2016	171		13	18
73	Samanta, S., Kar, C., Das, G.	Colorimetric and Fluorometric Discrimination of Geometrical Isomers (Maleic Acid vs Fumaric Acid) with Real-Time Detection of Maleic Acid in Solution and Food Additives	Analytical Chemistry	2015	87	17	9002	9008
74	Goswami, S., Thiagarajan, D., Samanta, S., Das, G., Ramesh, A.	A zinc complex of a neutral pyridine-based amphiphile: A highly efficient and potentially therapeutic bactericidal material	Journal of Materials Chemistry B	2015	3	35	7068	7078
75	Gogoi, A., Mukherjee, S., Ramesh, A., Das, G.	Aggregation-Induced Emission Active Metal-Free Chemosensing Platform for Highly Selective Turn-On Sensing and Bioimaging of Pyrophosphate Anion	Analytical Chemistry	2015	87	13	6974	6979
76	Samanta, S., Goswami, S., Ramesh, A., Das, G.	A new chemodosimetric probe for the selective detection of trivalent cations in aqueous medium and live cells	Journal of Photochemistry and Photobiology A: Chemistry	2015	310		45	51
77	Hoque, Md.N., Gogoi, A., Das, G.	Anion complexation with cyanobenzoyl substituted first and second generation tripodal amide receptors: Crystal structure and solution studies	Dalton Transactions	2015	44	34	15220	15231
78	Subbarao, N.V.V., Gedda, M., Iyer, P.K., Goswami, D.K.	Organic field-effect transistors as high performance humidity sensors with rapid response, recovery time and remarkable ambient stability	Organic Electronics: physics, materials, applications	2016	32		169	178
79	Valapa, R., Hussain, S., Iyer, P. K., Pugazhenth, G., Katiyar, V.	Non-isothermal crystallization kinetics of sucrose palmitate reinforced poly(lactic acid) bio-nanocomposites	Polymer Bulletin	2016	73	1	21	38
80	Subbarao, N. V. V., Gedda, M., Iyer, P.K., Goswami, D. K.	Organic field-effect transistors as high performance humidity sensors with rapid response, recovery time and remarkable ambient stability	Organic Electronics	2016	32	-	169	178
81	Das, D., Gopikrishna, P., Singh, A., Dey, A., Iyer, P.K.	Efficient blue and white polymer light emitting diodes based on a well charge balanced, core modified polyfluorene derivative	Physical Chemistry Chemical Physics	2016	18	10	7389	7394
82	Malik, A.H., Hussain, S., Kalita, A., Iyer, P.K.	Conjugated polymer nanoparticles for the amplified detection of nitro-explosive picric acid on multiple platforms	ACS Applied Materials and Interfaces	2015	7	48	26968	26976
83	Muthuraj, B., Chowdhury, S.R., Iyer, P.K.	Modulation of Amyloid- β Fibrils into Mature Microrod-Shaped Structure by Histidine Functionalized Water-Soluble	ACS Applied Materials and Interfaces	2015	7	38	21233	21234

		PeryleneDiimide						
84	Valapa, R., Hussain, S., Iyer, P.K., Pugazhenth, G., Katiyar, V.	Influence of graphene on thermal degradation and crystallization kinetics behaviour of poly(lactic acid)	Journal of Polymer Research	2015	22	9		
85	Soni, S.S., Fadadu, K.B., Vaghasiya, J.V., Solanki, B.G., Sonigara, K.K., Singh, A., Das, D., Iyer, P.K.	Improved molecular architecture of D- π -A carbazole dyes: 9% PCE with a cobalt redox shuttle in dye sensitized solar cells	Journal of Materials Chemistry A	2015	3	43	21664	21671
86	Muthuraj, B., Layek, S., Balaji, S.N., Trivedi, V., Iyer, P.K.	Multiple Function Fluorescein Probe Performs Metal Chelation, Disaggregation, and Modulation of Aggregated A β and A β -Cu Complex	ACS Chemical Neuroscience	2015	6	11	1880	1891
87	Gopikrishna, P., Das, D., Iyer, P.K.	Synthesis and characterization of color tunable, highly electroluminescent copolymers of polyfluorene by incorporating the N-phenyl-1,8-naphthalimide moiety into the main chain	Journal of Materials Chemistry C	2015	3	36	9318	9326
88	Kalita, A., Subbarao, N.V.V., Iyer, P.K.	Large-Scale Molecular Packing and Morphology-Dependent High Performance Organic Field-Effect Transistor by Symmetrical Naphthalene Diimide Appended with Methyl Cyclohexane	Journal of Physical Chemistry C	2015	119	22	12772	12779
89	Hussain, S., Malik, A.H., Afroz, M.A., Iyer, P.K.	Ultrasensitive detection of nitroexplosive-picric acid via a conjugated polyelectrolyte in aqueous media and solid support	Chemical Communications	2015	51	33	7207	7210
90	Muthuraj, B., Chowdhury, S.R., Mukherjee, S., Patra, C.R., Iyer, P.K.	Aggregation deaggregation influenced selective and sensitive detection of Cu ²⁺ and ATP by histidine functionalized water-soluble fluorescent perylenediimide under physiological conditions and in living cells	RSC Advances	2015	5	36	28211	28218
91	Hussain, S., Malik, A.H., Iyer, P.K.	Highly precise detection, discrimination, and removal of anionic surfactants over the full pH range via cationic conjugated polymer: An efficient strategy to facilitate illicit-drug analysis	ACS Applied Materials and Interfaces	2015	7	5	3189	3198
92	Subbarao, N. V.V., Gedda, M., Iyer, P. K., Goswami, D. K.	Enhanced environmental stability induced by effective polarization of a polar dielectric layer in a trilayer dielectric system of organic field-effect transistors: A quantitative study	ACS Applied Materials and Interfaces	2015	7	3	1915	1924
93	Goutam, P.J., Iyer, P.K.	Selective detection of resorcinol using a bis(benzothiazol-2-yl)pyridine based ditopic receptor	Sensors and Actuators, B: Chemical	2015	211		263	267
94	Dar, A.A., Hussain, S., Dutta, D., Iyer, P.K., Khan, A.T.	One-pot synthesis of functionalized 4-hydroxy-3-thiomethylcoumarins: Detection and discrimination of Co ²⁺ and Ni ²⁺ ions	RSC Advances	2015	5	71	57749	57756

95	Malik, A.H., Hussain, S., Tanwar, A.S., Layek, S., Trivedi, V., Iyer, P.K.	An anionic conjugated polymer as a multi-action sensor for the sensitive detection of Cu ²⁺ and PPI, real-time ALP assaying and cell imaging	Analyst	2015	140	13	4388	4392
96	Mishra, A., Malakar, A., Biswal, H.T., Barman, M.K., Krishnamoorthy, G.	Interactions of a few azole derivatives with a transport protein: Role of heteroatoms	Journal of Molecular Recognition	2015	28	5	299	305
97	Malakar, A., Krishnamoorthy, G.	Dual emission from 2-(4'-N,N-dimethylaminophenyl)pyridoimidazole-nanoparticle composite: Effect of β -cyclodextrin	Journal of Colloid and Interface Science	2015	443		23	29
98	Sahu, S., Sil, T.B., Das, M., Krishnamoorthy, G.	A single fluorophore to address multiple logic gates	Analyst	2015	140	17	6114	6123
99	Rout, K.C., Mondal, B.	Copper(II) complex as selective turn-on fluorescent probe for nitrite ion	Inorganica Chimica Acta	2015	437		54	58
100	Rout, K.C., Chaturvedi, S.K., Khan, R.H., Mondal, B.	A copper(II) complex as selective turn-on fluorosensor for nitric oxide and its intracellular application	Inorganica Chimica Acta	2015	437		201	206
101	Debnath, R.K., Kalita, A., Sinha, S., Bhattacharyya, P.Kr., Mondal, B., Ganguli, J.N.	Solvent dependent disproportionation of Cu(II) complexes of N ₂ O ₂ -type ligands: Direct evidence of formation of phenoxyl radical: An experimental and computational study	Asian Journal of Chemistry	2015	27	12	4490	4500
102	Gogoi, K., Deka, H., Kumar, V., Mondal, B.	Oxo Transfer from Nitrogen Dioxide to Nitrito Group in a Copper(II) Complex	Inorganic Chemistry	2015	54	10	4799	4805
103	Kalita, A., Kumar, V., Mondal, B.	Nitric oxide reactivity of copper(II) complexes of bidentate amine ligands	Inorganica Chimica Acta	2015	430		55	60
104	Kalita, A., Ghosh, S., Mondal, B.	Nitric oxide reactivity of a manganese(II) complex leading to nitrosation of the ligand	Inorganica Chimica Acta	2015	429		183	188
105	Koner, D., Barrios, L., González-Lezana, T., Panda, A.N.	Scattering study of the Ne + NeH+(v = 0, j = 0) $\rightarrow$ NeH+ + Ne reaction on an ab initio based analytical potential energy surface	Journal of Chemical Physics	2016	144	3		
106	Koner, D., Barrios, L., González-Lezana, T., Panda, A.N.	Quantum, Statistical, and Quasiclassical Trajectory Studies for the Ne + HeH+ $\rightarrow$ NeH+ + He Reaction on the Ground Electronic State	Journal of Physical Chemistry A	2015	119	50	12052	12061
107	Sahu, H., Panda, A.N.	Helical and Nonhelical Structures of Vinylene- and Azomethine-Linked Heterocyclic Oligomers: A Computational Study of Conformation-Dependent Optoelectronic Properties	Journal of Physical Chemistry C	2015	119	40	22855	22865
108	Sahu, H., Gupta, S., Gaur, P., Panda, A.N.	Structure and optoelectronic properties of helical pyridine-furan, pyridine-pyrrole and pyridine-thiophene oligomers	Physical Chemistry Chemical Physics	2015	17	32	20647	20657
109	Chetia, T.R., Ansari, M.S., Qureshi, M.	Rational design of hierarchical ZnO superstructures for efficient charge transfer: Mechanistic and photovoltaic	Physical Chemistry Chemical Physics	2016	18	7	5344	5357

		studies of hollow, mesoporous, cage-like nanostructures with compacted 1D building blocks						
110	Barpuzary, D., Banik, A., Gogoi, G., Qureshi, M.	Noble metal-free counter electrodes utilizing Cu ₂ ZnSnS ₄ loaded with MoS ₂ for efficient solar cells based on ZnO nanowires co-sensitized with CuInS ₂ -CdSe quantum dots	Journal of Materials Chemistry A	2015	3	27	14378	14388
111	Chetia, T.R., Ansari, M.S., Qureshi, M.	Ethyl Cellulose and Cetrimonium Bromide Assisted Synthesis of Mesoporous, Hexagon Shaped ZnONanodisks with Exposed $\pm\{0001\}$ Polar Facets for Enhanced Photovoltaic Performance in Quantum Dot Sensitized Solar Cells	ACS Applied Materials and Interfaces	2015	7	24	13266	13279
112	Gogoi, G., Arora, S., Vinothkumar, N., De, M., Qureshi, M.	Quaternary semiconductor Cu ₂ ZnSn ₄ loaded with MoS ₂ as a co-catalyst for enhanced photo-catalytic activity	RSC Advances	2015	5	51	40475	40483
113	Gorai, S., Paul, D., Haloi, N., Borah, R., Santra, M.K., Manna, D.	Mechanistic insights into the phosphatidylinositol binding properties of the pleckstrin homology domain of lamellipodin	Molecular BioSystems	2016	12	3	747	757
114	Gorai, S., Bagdi, P.R., Borah, R., Paul, D., Santra, M.K., Khan, A.T., Manna, D.	Insights into the inhibitory mechanism of triazole-based small molecules on phosphatidylinositol-4,5-bisphosphate binding pleckstrin homology domain	Biochemistry and Biophysics Reports	2015	2		75	86
115	Borah, R., Mamidi, N., Panda, S., Gorai, S., Pathak, S.K., Manna, D.	Elucidating the interaction of γ -hydroxymethyl- γ -butyrolactone substituents with model membranes and protein kinase C-C1 domains	Molecular BioSystems	2015	11	5	1389	1399
116	Gorai, S., Paul, S., Sankaran, G., Borah, R., Santra, M.K., Manna, D.	Inhibition of phosphatidylinositol-3,4,5-trisphosphate binding to the AKT pleckstrin homology domain by 4-amino-1,2,5-oxadiazole derivatives	MedChemComm	2015	6	10	1798	1808
117	Das, M.C., Paul, S., Gupta, P., Tribedi, P., Sarkar, S., Manna, D., Bhattacharjee, S.	3-Amino-4-Aminoximidofurazan derivatives: small molecules possessing antimicrobial and antibiofilm activity against Staphylococcus aureus and Pseudomonas aeruginosa	Journal of applied microbiology	2016	120	4	842	859
118	Laxminarayana, B., Kundu, L.M.	Direct Chemoselective Synthesis of N-3-Substituted Pyrimidinones in a Microwave-Assisted Method	Synthetic Communications	2015	45	11	1342	1353
119	Ghorai, S., Sarmah, A., Roy, R.K., Tiwari, A., Mukherjee, C.	Effect of Geometrical Distortion on the Electronic Structure: Synthesis and Characterization of Monoradical-Coordinated Mononuclear Cu(II) Complexes	Inorganic Chemistry	2016	55	4	1370	1380
120	Phukan, B., Patel, A.B., Mukherjee, C.	A Water-Soluble and Water-Coordinated Mn(II) Complex: Synthesis, Characterization and Phantom MRI Image Study	Dalton Transactions	2015	44		12990	12994
121	Mondal, M.K., Biswas, A.K., Ganguly, B., Mukherjee, C.	Unprecedented iminobenzosemiquinone and iminobenzoquinone coordinated mononuclear Cu(ii) complex formation under air	Dalton Transactions	2015	44	20	9375	9381

122	Rakshit, R., Ghorai, S., Sarmah, A., Tiwari, A., Roy, R.K., Mukherjee, C.	Inter-ligand azo (NN) unit formation and stabilization of a Co(ii)-diradical complex via metal-to-ligand $d\pi-p\pi^*$ back donation: Synthesis, characterization, and theoretical study	Dalton Transactions	2015	44	8	3724	3727
123	Singh, S., Phukan, B., Mukherjee, C., Verma, A.	Salen ligand complexes as electrocatalysts for direct electrochemical reduction of gaseous carbon dioxide to value added products	RSC Advances	2015	5	5	3581	3589
124	Mondal, J.H., Ahmed, S., Ghosh, T., Das, D.	Reversible deformation-formation of a multistimuli responsive vesicle by a supramolecular peptide amphiphile	Soft Matter	2015	11	24	4912	4920
125	Phukon, A., Barman, N., Sahu, K.	Wet Interface of Benzylhexadecyl dimethyl ammonium Chloride Reverse Micelle Revealed by Excited State Proton Transfer of a Localized Probe	Langmuir	2015	31	46	12587	12596
126	Barman, N., Hossen, T., Mondal, K., Sahu, K.	Modulation of ultrafast photoinduced electron transfer in H-bonding environment: PET from aniline to coumarin 153 in the presence of an inert co-solvent cyclohexane	Physical Chemistry Chemical Physics	2015	17	48	32556	32563
127	Phukon, A., Sahu, K.	The strikingly different miscibility of n-octanol in highly-confined and quasi-confined water	Chemical Communications	2015	51	74	14103	14106
128	Sharma, B., Paul, S.	Understanding the Role of Temperature Change and the Presence of NaCl salts on Caffeine Aggregation in Aqueous Solution: From Structural and Thermodynamics Point of View	Journal of Physical Chemistry B	2015	119	21	6421	6432
129	Paul, S., Paul, S.	Exploring the Counteracting Mechanism of Trehalose on Urea Conferred Protein Denaturation: A Molecular Dynamics Simulation Study	Journal of Physical Chemistry B	2015	119	30	9820	9834
130	Paul, S., Paul, S.	Investigating the Counteracting Effect of Trehalose on Urea Induced Protein Denaturation Using Molecular Dynamics Simulation	Journal of Physical Chemistry B	2015	119	34	10975	10988
131	Paul, S., Paul, S.	Influence of Temperature on the Solvation of N-methylacetamide in Aqueous Trehalose Solution: A Molecular Dynamics Simulation Study	Journal of Molecular Liquids	2015	211		986	999
132	Das, S., Paul, S.	Mechanism of Hydrotropic Action of Hydrotrope Sodium Cumene Sulfonate on the Solubility of Di-t-Butyl-Methane: A Molecular Dynamics Simulation Study	Journal of Physical Chemistry B	2016	120	1	173	183
133	Borgohain, G., Paul, S.	Model Dependency of TMAO's Counteracting Effect Against Action of Urea: Kast Model versus Osmotic Model of TMAO	Journal of Physical Chemistry B	2016	120	9	2352	2361
134	Paul, A., Sharma, B., Mondal, T., Thalluri, K., Paul, S., Mandal, B.	Amyloid β Derived Switch-Peptides as a Tool for Investigation of Early Events of Aggregation: A Combined Experimental and Theoretical Approach	Medicinal Chemical Communications	2016	7		311	316
135	Mandal, B.	Novel and innovative strategies for peptide based drug design against Alzheimer's disease	Journal of Pharmaceutical Care & Health Systems	2015	2	5	34	34

136	Manne, S.R., Thalluri, K., Giri, R.S., Paul, A., Mandal, B.	Racemization free longer N-terminal peptide hydroxamate synthesis on solid support using ethyl 2-(tert- butoxycarbonyloxyimino)-2- cyanoacetate	Tetrahedron Letters	2015	56	44	6108	6111
137	Jadhav, K.B., Lichtenecker, R.J., Bullach, A., Mandal, B., Arndt, H.-D.	Dynamic combinatorial enrichment of polyconformational D-/L-peptide dimers	Chemistry - A European Journal	2015	21	15	5898	5908
138	Paul, A., Nadimpally, K.C., Mondal, T., Thalluri, K., Mandal, B.	Inhibition of Alzheimer's Amyloid- β Peptide Aggregation and its Disruption by a Conformationally Restricted α/β Hybrid Peptide	Chemical Communications	2015	51		2245	2248
139	Bhaskaran, R., Sarma, M.	The Role of the Shape Resonance State in Low Energy Electron Induced Single Strand Break in 2'-deoxyCytidine-5'- MonoPhosphate	Physical Chemistry Chemical Physics	2015	17	23	15250	15257
140	Bhaskaran, R., Sarma, M.	Low-Energy Electron Interaction with the Phosphate Group in DNA Molecule and the Characteristics of Single-Strand Break Pathways	The Journal of Physical Chemistry A	2015	119	40	10130	10136
141	Mondal, K., Pan, S. C.	Copper(I) Catalyzed (Z)-(β -Tosyloxy) Alkenyl Iodide Synthesis from (E)-[β - (Tosyloxy)-Alkenyl](Aryl) IodoniumTosylates: Diversity Oriented Synthesis of Trisubstituted Alkenes	European Journal of Organic Chemistry	2015	2015	14	2129	2132
142	Mondal, B., Sahoo, S.C., Pan, S.C.	n-Bu ₄ NI catalyzed α -benzoylation of ketones with terminal aryl alkenes	European Journal of Organic Chemistry	2015	2015	14	3135	3140
143	Maity, R., Pan, S.C.	Organocatalytic asymmetric intramolecular aza-Henry reaction: Facile synthesis of trans-2,3- disubstituted tetrahydroquinolines	Organic &Biomolecular Chemistry	2015	13	24	6825	6831
144	Nath, U., Banerjee, A., Ghosh, B., Pan, S.C.	Organocatalytic asymmetric Michael addition of 1-acetylcyclohexene and 1- acetylcyclopentene to nitroolefins	Organic &Biomolecular Chemistry	2015	13	25	7076	7083
145	Buragohain, A., Biswas, S.	Improved Synthesis of Zirconium(IV) Muconate Metal-Organic Framework: Characterization, Stability and Gas Sorption Properties	European Journal of Inorganic Chemistry	2015	2015	14	2463	2468
146	Sk, M., Bhowal, S., Biswas, S.	Synthesis, Characterization, Stability and Gas Adsorption Characteristics of Highly Stable Zirconium Mesaconate Framework Material	European Journal of Inorganic Chemistry	2015	2015	20	3317	3322
147	Buragohain, A., Van Der Voort, P., Biswas, S.	Facile Synthesis and Gas Adsorption Behavior of New Functionalized Al- MIL-101-X (X = -CH ₃ , -NO ₂ , -OCH ₃ , - C ₆ H ₄ , -F ₂ , -(CH ₃) ₂ , -(OCH ₃) ₂) Materials	Microporous and Mesoporous Materials	2015	215		91	97
148	Mostakim, S.K., Grzywa, M., Volkmer, D., Biswas, S.	Gas Sorption and Transition-Metal Cation Separation with a Thienothiophene Based Zirconium Metal-Organic Framework	Journal Solid State Chemistry	2015	232		221	227
149	Munn, A.S., Pillai, R.S., Biswas, S., Stock, N., Maurin, G., Walton, R.I.	The Flexibility of Modified-Linker MIL-53 Materials	Dalton Transactions	2016	45	10	4162	4168

150	Buragohain, A., Yousufuddin, M., Sarma, M., Biswas, S.	3D Luminescent Amide-Functionalized Cadmium Tetrazolate Framework for Selective Detection of 2,4,6- Trinitrophenol	Crystal Growth and Design	2016	16	2	842	851
151	Buragohain, A., Couck, S., Van Der Voort, P., Denayer, J. F. M., Biswas, S.	Synthesis, Characterization and Sorption Properties of Functionalized Cr-MIL-101-X (X = -F, -Cl, -Br, -CH ₃ , -C ₆ H ₄ , -F ₂ , -(CH ₃) ₂) Materials	Journal Solid State Chemistry	2016	238		195	202
152	Bhattacharjee, D.; Bhabak, K. P.	Atom Based 3D-QSAR Studies on 2,4- Dioxypyrimidine-1-carboxamide Analogues: Validation of Experimental Inhibitory Potencies towards Acid Ceramidase	European Journal of Pharmaceutical Sciences	2016	83		08	18
153	Pathak, S.K., Gupta, R.K., Nath, S., Rao, D.S.S., Prasad, S.K., Achalkumar, A.S.	Columnar Self-assembly of Star-shaped Luminescent Oxadiazole and Thiadiazole derivatives	Journal of Materials Chemistry C	2015	3		2940	2952
154	Gupta, R.K., Pathak, S.K., Pradhan, B., Shankar Rao, D.S., Krishna Prasad, S., Achalkumar, A.S.	Self-assembly of luminescent N- annulated perylenetetraesters into fluid columnar phases	Soft Matter	2015	11		3629	3636
155	Madhuri, P.L., Rao, D.S.S., Yelamagad, C.V., Achalkumar, A.S., Prasad, S.K.	Fast photoluminescence switching in the nematic phase of calamitic-discotic composites	Advanced Optical Materials	2015	3(8)		1116	1124.
156	Pathak, S.K., Nath, S., Gupta, R.K., Rao, D.S.S., Prasad, S.K., Achalkumar, A.S.	Effect of regioisomerism on the self- assembly and photophysical behavior of 1,3,4- thiadiazole based polycatenars	Journal of Materials Chemistry C	2015	3		8166	8182
157	Gupta, R.K., Pradhan, B., Pathak, S.K., Gupta, M., Pal S.K., Achalkumar, A.S.	Perylo[1,12-b,c,d] ThiopheneTetraesters: A New Class of Luminescent Columnar Liquid Crystals	Langmuir	2015	31		8092	8100
158	Gupta, R.K., Pradhan, B., Pathak, S.K., Gupta, M., Pal S.K., Achalkumar, A.S.	Effect of bay-annulation on the Photophysical and Thermal behaviors of PeryleneTetraesters	ChemPhysChem	2016	17		859	872
159	Hegde, G., Rajkumar, Y., A., Mei, G. S., Mahmood, S., Mandal, U. K., Achalkumar, A.S.	Photoisomerization behavior of Photochromic Amide based Azobenzene Dyes Exhibiting H- bonding Effect: Synthesis and Characterization	Korean Journal of Chemical Engineering	2016	33	4	1480	1488
160	Mandal, S., Mahato, S., Jana, C.K.	Direct β -C(sp ³)-H Functionalization of Aliphatic Amines to α,β -Unsaturated Imines, Aldehydes, and Chromenes	Organic Letters	2015	17		3762	3765
161	Halder, S., Roy, S.K., Maity, B., Koley, D., Jana, C.K.	Regio- and Diastereoselective and Enantiospecific Metal-Free C(sp ³)-H Arylation: Facile Access to Optically Active 5-Aryl 2,5-Disubstituted Pyrrolidines	Chemistry A European Journal	2015	21		15290	15298

162	Chowdhury, S. R., Jha, A., Manna, U., Sarma, K. S. S.	"Designing a single superabsorbent for separating oil from both layered as well as micro/submicron size emulsified oil/water mixtures by gamma radiation assisted grafting"	RSC Advances	2016	6		26086	26091
163	Guo., X., Manna, U., Abbott, N. L., Lynn, D. M.	"Covalent Immobilization of 'Caged' Liquid Crystal Microdroplets on Surfaces"	ACS Applied Materials & Interfaces	2015	7		26892	26903
164	Balaraman, E., Srimani, D., Diskin- Posner, Y., Milstein, D.	Direct Synthesis of Secondary Amines from Alcohols and Ammonia Catalyzed by a Ruthenium Pincer Complex	Catalysis Letters	2015	145	1	139	144
165	Srimani, D., Mukherjee, A., Goldberg, A.F.G., Leitus, G., Diskin- Posner, Y., Shimon, L.J.W., Ben David, Y., Milstein, D.	Cobalt-Catalyzed Hydrogenation of Esters to Alcohols: Unexpected Reactivity Trend Indicates Ester Enolate Intermediacy	Angewandte Chemie International Edition	2015	54	42	12357	12360
166	Mukherjee, A., Srimani, D., Chakraborty, S., Ben-David, Y., Milstein, D.	Selective Hydrogenation of Nitriles to Primary Amines Catalyzed by a Cobalt Pincer Complex	Journal of the American Chemical Society	2015	137	28	8888	8891