Tapan Kumar Mondal

List of Publications by Year
in descending order

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107	2,659	186265	233421
papers	citations	28 h-index	45 g-index

112	112	112	2793
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Integrated computational approach toward discovery of multi-targeted natural products from Thumbai (Leucas aspera) for attuning NKT cells. Journal of Biomolecular Structure and Dynamics, 2022, 40, 2893-2907.	3.5	5
2	miRPreM and tiRPreM: Improved methodologies for the prediction of miRNAs and tRNA-induced small non-coding RNAs for model and non-model organisms. Briefings in Bioinformatics, 2022, 23, .	6.5	3
3	Allantoin mediated regulation of miRNAs for short term salinity stress tolerance in Oryza sativaÂL. cv. IR-29. Journal of Plant Biochemistry and Biotechnology, 2022, 31, 953-960.	1.7	5
4	Palladium(<scp>ii</scp>) and platinum(<scp>ii</scp>) complexes with ONN donor pincer ligand: synthesis, characterization and in vitro cytotoxicity study. New Journal of Chemistry, 2022, 46, 11277-11285.	2.8	4
5	Identification and analysis of miRNAsâ€lncRNAsâ€mRNAs modules involved in stemâ€elongation of deepwater rice (Oryza sativa L.). Physiologia Plantarum, 2022, 174, .	5.2	5
6	Fabrication of a new fluorogenic probe for detection of phosgene in solution and vapor phase. Sensors and Actuators B: Chemical, 2021, 326, 128837.	7.8	25
7	A thioether containing reversible fluorescence â€œturn-onâ€•chemosensor for selective detection of zinc(II): Applications in live cell imaging and inhibit logic gate. Journal of Molecular Structure, 2021, 1224, 129179.	3.6	13
8	TEnGExA: an R package based tool for tissue enrichment and gene expression analysis. Briefings in Bioinformatics, 2021, 22, .	6.5	4
9	Comparative analysis of chloroplast genomes indicated different origin for Indian tea (Camellia) Tj ETQq1 1 0.784314 rgBT /Overlock	3.3	11
10	OUP accepted manuscript. Bioinformatics, 2021, , .	4.1	3
11	Allantoin: Emerging Role in Plant Abiotic Stress Tolerance. Plant Molecular Biology Reporter, 2021, 39, 648-661.	1.8	32
12	Genome-wide identification and expression profiling of chitinase genes in tea (Camellia sinensis (L.) O.) Tj ETQq0 0 0 rgBT /Overlock 10	3.1	16
13	Identification and functional prediction of long non-coding RNAs of rice (Oryza sativa L.) at reproductive stage under salinity stress. Molecular Biology Reports, 2021, 48, 2261-2271.	2.3	13
14	The core set of sequence-tagged microsatellite sites markers between halophytic wild rice Oryza coarctata and Oryza sativa complex. Euphytica, 2021, 217, 1.	1.2	2
15	Genome-wide identification, evolutionary relationship and expression analysis of AGO, DCL and RDR family genes in tea. Scientific Reports, 2021, 11, 8679.	3.3	11
16	Oryza coarctata is a triploid plant with initial events of C4 photosynthesis evolution. Plant Science, 2021, 308, 110878.	3.6	6
17	Decoding and analysis of organelle genomes of Indian tea (Camellia assamica) for phylogenetic confirmation. Genomics, 2020, 112, 659-668.	2.9	19
18	Genome-wide identification of drought-responsive miRNAs in grass pea (Lathyrus sativus L.). Plant Gene, 2020, 21, 100210.	2.3	16

#	Article	IF	Citations
19	Synthesis of luminescent rhodium(III) cyclometalated complex by sp2(C)â€“S bond activation: Application as catalyst in transfer hydrogenation of ketones and live cell imaging. Journal of Molecular Structure, 2020, 1204, 127524.	3.6	4
20	Transcriptional dynamics of Zn-accumulation in developing kernels of maize reveals important Zn-uptake mechanisms. Genomics, 2020, 112, 3435-3447.	2.9	9
21	Genome-wide association studies using 50ÂK rice genic SNP chip unveil genetic architecture for anaerobic germination of deep-water rice population of Assam, India. Molecular Genetics and Genomics, 2020, 295, 1211-1226.	2.1	25
22	TeaMiD: a comprehensive database of simple sequence repeat markers of tea. Database: the Journal of Biological Databases and Curation, 2020, 2020, .	3.0	19
23	Identification and mapping of quantitative trait loci (QTL) and epistatic QTL for salinity tolerance at seedling stage in traditional aromatic short grain rice landrace Kolajoha (Oryza sativa L.) of Assam, India. Euphytica, 2020, 216, 1.	1.2	14
24	Synthesis, characterization, X-ray structure and DNA binding study of palladium(II) complex with new thioether containing ONS donor ligand. Journal of Chemical Sciences, 2020, 132, 1.	1.5	9
25	Physiology and Biochemistry. , 2020, , 195-228.		0
26	Functional Genomics. , 2020, , 229-308.		0
27	Molecular Markers. , 2020, , 139-194.		0
28	Two New Quinolineâ€Benzothiazole Blended â€˜Offâ€Onâ€™ Type Fluorescent Probes Exclusively Detect Cd 2+. ChemistrySelect, 2019, 4, 8068-8073.	1.5	9
29	An ESIPT based chromogenic and fluorescent ratiometric probe for Zn²⁺ with imaging in live cells and tissues. New Journal of Chemistry, 2019, 43, 1857-1863.	2.8	17
30	Facile detection of organophosphorus nerve agent mimic (DCP) through a new quinoline-based ratiometric switch. New Journal of Chemistry, 2019, 43, 8627-8633.	2.8	18
31	In silico identification of long non-coding RNA based simple sequence repeat markers and their application in diversity analysis in rice. Gene Reports, 2019, 16, 100418.	0.8	5
32	Tissue specific long non-coding RNAs are involved in aroma formation of black tea. Industrial Crops and Products, 2019, 133, 79-89.	5.2	48
33	Advances in understanding salt tolerance in rice. Theoretical and Applied Genetics, 2019, 132, 851-870.	3.6	148
34	Development of a new fluorescence ratiometric switch for endogenous hypochlorite detection in monocytes of diabetic subjects by dye release method. Tetrahedron Letters, 2018, 59, 1130-1135.	1.4	24
35	Characterization of OglDREB2A gene from African rice (Oryza glaberrima), comparative analysis and its transcriptional regulation under salinity stress. 3 Biotech, 2018, 8, 91.	2.2	10
36	Discovery of microRNA-target modules of African rice (Oryza glaberrima) under salinity stress. Scientific Reports, 2018, 8, 570.	3.3	44

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37	A new multi-analyte fluorogenic sensor for efficient detection of Al³⁺and Zn²⁺ions based on ESIPT and CHEF features. New Journal of Chemistry, 2018, 42, 19076-19082.	2.8	34
38	Draft genome sequence of first monocot-halophytic species Oryza coarctata reveals stress-specific genes. Scientific Reports, 2018, 8, 13698.	3.3	57
39	Identification of jumonjiC domain containing gene family among the Oryza species and their expression analysis in FL478, a salt tolerant rice genotype. Plant Physiology and Biochemistry, 2018, 130, 43-53.	5.8	19
40	Triphenylamineâ€“benzimidazole based switch offers reliable detection of organophosphorus nerve agent (DCP) both in solution and gaseous state. New Journal of Chemistry, 2017, 41, 12562-12568.	2.8	20
41	Genome-wide analysis of DUF221 domain-containing gene family in Oryza species and identification of its salinity stress-responsive members in rice. PLoS ONE, 2017, 12, e0182469.	2.5	39
42	Comprehensive survey and evolutionary analysis of genome-wide miRNA genes from ten diploid Oryza species. BMC Genomics, 2017, 18, 711.	2.8	14
43	First de novo draft genome sequence of Oryza coarctata, the only halophytic species in the genus Oryza. F1000Research, 2017, 6, 1750.	1.6	19
44	First de novo draft genome sequence of Oryza coarctata, the only halophytic species in the genus Oryza. F1000Research, 2017, 6, 1750.	1.6	11
45	Assessment of genetic diversity of Saltol QTL among the rice (Oryza sativa L.) genotypes. Physiology and Molecular Biology of Plants, 2016, 22, 107-114.	3.1	52
46	Promoter methylation regulates the abundance of osa-miR393a in contrasting rice genotypes under salinity stress. Functional and Integrative Genomics, 2016, 16, 1-11.	3.5	37
47	Identification of Novel and Conserved miRNAs from Extreme Halophyte, Oryza coarctata, a Wild Relative of Rice. PLoS ONE, 2015, 10, e0140675.	2.5	42
48	Identification and analysis of novel salt responsive candidate gene based SSRs (cgSSRs) from rice (Oryza sativa L.). BMC Plant Biology, 2015, 15, 122.	3.6	81
49	Genome-wide development of novel miRNA-based microsatellite markers of rice (Oryza sativa) for genotyping applications. Molecular Breeding, 2015, 35, 1.	2.1	50
50	Effect of Zinc and Boron on Growth and Water Relations of Camellia sinensis (L.) O. Kuntze cv. T-78. The National Academy of Sciences, India, 2015, 38, 283-286.	1.3	15
51	Zinc stress induces physiological, ultra-structural and biochemical changes in mandarin orange (Citrus reticulata Blanco) seedlings. Physiology and Molecular Biology of Plants, 2014, 20, 461-473.	3.1	71
52	Cloning and in silico analysis of a gene encoding a putative Î²-carbonic anhydrase from cowpea (Vigna) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.1	2
53	Molecular Markers. , 2014, , 93-123.		1
54	Genome-wide Analysis of Zinc Transporter Genes of Maize (Zea mays). Plant Molecular Biology Reporter, 2014, 32, 605-616.	1.8	53

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55	Assessment of genetic diversity in salt-tolerant rice and its wild relatives for ten SSR loci and one allele mining primer of salT gene located on 1st chromosome. Plant Systematics and Evolution, 2014, 300, 1741-1747.	0.9	30
56	Identification and characterization of salt responsive miRNA-SSR markers in rice (Oryza sativa). Gene, 2014, 535, 204-209.	2.2	103
57	Stress Physiology. , 2014, , 125-147.		0
58	Functional Genomics. , 2014, , 149-167.		0
59	Effect of boron deficiency on photosynthesis and antioxidant responses of young tea plantlets. Russian Journal of Plant Physiology, 2013, 60, 633-639.	1.1	20
60	Intercalated iodobismuthate in the layers of azoimidazoles. Structure, photochromism and DFT computation. Polyhedron, 2013, 54, 147-157.	2.2	15
61	Rhenium(I) complexes with NNS donor thioarylazoimidazole ligands with the cis-{Re(CO)2}+ core: Synthesis, characterization, electrochemical study and DFT calculation. Journal of Molecular Structure, 2013, 1047, 73-79.	3.6	11
62	Ruthenium(II) carbonyl complexes with N-[(2-pyridyl)methyliden]-(Î±/Î²)-aminonaphthalene: Synthesis, spectroscopic studies and DFT calculation. Journal of Molecular Structure, 2013, 1036, 28-34.	3.6	2
63	Synthesis, crystal structure and DFT analysis of a phenoxo bridged Cu(II) complex and an azide and Î¼3-O mixed bridged trinuclear Cu(II) complex. Polyhedron, 2013, 50, 51-58.	2.2	15
64	Use of a Ru/Os-CO-diiodide precursor to synthesize heteroleptic 1-alkyl-2-(arylazo)imidazole complexes: The structural characterization, electrochemistry and catalytic activity. Polyhedron, 2013, 50, 246-254.	2.2	3
65	Dimer formation by symbiotic donorâ€“acceptor interaction between two molecules of a specially designed dioxomolybdenum(VI) complex containing both donor and acceptor centers â€“ A structural, spectroscopic and DFT study. Polyhedron, 2013, 55, 192-200.	2.2	18
66	Copper(I)/silver(I)-phosphine-N-{(2-pyridyl)methyliden}-6-coumarin complexes: Syntheses, structures, redox interconversion, photophysical properties and DFT computation. Polyhedron, 2013, 51, 27-40.	2.2	15
67	Synthesis, characterization, electronic structure and catalytic activity of new ruthenium carbonyl complexes of N-[(2-pyridyl)methylidene]-2-aminothiazole. Journal of Molecular Structure, 2013, 1035, 277-284.	3.6	5
68	fac-Tricarbonyl rhenium(I) complexes of 2-(alkylthio)-N-((pyridine-2-yl)methylene)benzenamine: Synthesis, spectroscopic characterization, X-ray structure and DFT calculation. Inorganica Chimica Acta, 2013, 399, 138-145.	2.4	11
69	Synthesis, X-ray structure, spectroscopic and DFT study of cis-[Ru(PPh3)(L)X2] complexes (X=Clâ^', Brâ^',) Tj ETQq1 1 0.784314 rgBT O 583-590.	2.4	17
70	Self-assembled nanostructures of specially designed Schiff-bases and their zinc complexes: Preparation, characterization and photoluminescence property. Journal of Molecular Structure, 2013, 1042, 104-111.	3.6	5
71	Structure, photophysics, electrochemistry and DFT calculations of [RuH(CO)(PPh3)2(coumarinyl-azo-imidazole)]. Polyhedron, 2013, 53, 193-201.	2.2	7
72	Synthesis, characterization, crystal structure and density functional theory (DFT) calculations of dioxomolybdenum (VI) complexes of an ONS donor ligand derived from benzoylacetone and S-benzyl dithiocarbazate. Polyhedron, 2013, 50, 602-611.	2.2	11

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73	Omics Advances in Tea (Camellia sinensis). , 2013, , 439-466.		2
74	Identification of Differentially Expressed Gene Profiles in Young Roots of Tea [Camellia sinensis (L.) O. Kuntze] Subjected to Drought Stress Using Suppression Subtractive Hybridization. Plant Molecular Biology Reporter, 2012, 30, 1088-1101.	1.8	55
75	Changes of growth, photosynthesis and alteration of leaf antioxidative defence system of tea [Camellia sinensis (L.) O. Kuntze] seedlings under aluminum stress. BioMetals, 2012, 25, 1141-1154.	4.1	86
76	Strong metalâ€“metal coupling in mixed-valent intermediates [Cl(L)Ru(Î¼-tppz)Ru(L)Cl]+, L = Î²-diketonato ligands, tppz = 2,3,5,6-tetrakis(2-pyridyl)pyrazine. Dalton Transactions, 2012, 41, 13429.	3.3	19
77	Radical Pathway in Catecholase Activity with Zinc-Based Model Complexes of Compartmental Ligands. Inorganic Chemistry, 2012, 51, 8750-8759.	4.0	105
78	Diastereomerism in tetranuclear copper(II) complexes of a phenol based â€œend-offâ€•compartmental ligand. Inorganic Chemistry Communication, 2012, 23, 113-116.	3.9	12
79	Ru(II)â€“halideâ€“carbonyl complexes of naphthylazoimidazoles: Synthesis, spectra, electrochemistry, catalytic activity and electronic structure. Journal of Organometallic Chemistry, 2012, 716, 129-137.	1.8	22
80	The intricate paramagnetic state of [Os(Q)2(bpy)]+, Q = 4,6-di-tert-butyl-o-iminobenzoquinone. Dalton Transactions, 2012, 41, 11675.	3.3	17
81	Azide bridged dicopper(II), dicobalt(II) complexes and a rare double Î¼-chloride bridged ferromagnetic dicobalt(II) complex of a pyrazolyl-pyrimidine ligand: Synthesis, crystal structures, magnetic and DFT studies. Polyhedron, 2012, 38, 258-266.	2.2	28
82	Correspondence of Ru^{III}Ru^{II} and Ru^{IV}Ru^{III} Mixed Valent States in a Small Dinuclear Complex. Chemistry - A European Journal, 2012, 18, 5667-5675.	3.3	29
83	Synthesis, spectra, structure, redox properties and DFT computation of copper(I)â€“triphenylphosphineâ€“pyridyl Schiff bases. Inorganica Chimica Acta, 2012, 387, 240-247.	2.4	18
84	Re(I) carbonyl complexes of N-[(2-pyridyl)methyliden]-Î± (or Î²)-aminonaphthalene: Synthesis, structure, electrochemistry and DFT analysis. Journal of Molecular Structure, 2012, 1017, 19-25.	3.6	9
85	The synthesis, structure and photochromism of mercury(II)-iodide complexes of 1-CnH2n+1-2-(arylazo)imidazoles (n=4, 6, 8). Polyhedron, 2012, 31, 506-514.	2.2	18
86	Rhenium(I) carbonyl complexes with redox non-innocent 1-alkyl-2-{(o-thioalkyl)phenylazo}imidazole ligands: An experimental and theoretical studies. Polyhedron, 2012, 40, 46-52.	2.2	9
87	Synthesis of Amphiphilic Azoâ€Anionâ€Radical Complexes of Chromium(III) and the Development of Ultrathin Redoxâ€Active Surfaces by the Langmuirâ€“Schaefer Technique. Chemistry - A European Journal, 2012, 18, 1761-1771.	3.3	16
88	Redox-Rich Spinâ€“Spin-Coupled Semiquinoneruthenium Dimers with Intense Near-IR Absorption. Inorganic Chemistry, 2011, 50, 4753-4763.	4.0	27
89	Oxidation State Analysis of a Four-Component Redox Series [Os(pap)₂(Q)]ⁿ Involving Two Different Non-Innocent Ligands on a Redox-Active Transition Metal. Inorganic Chemistry, 2011, 50, 7090-7098.	4.0	37
90	Reductive Approach to Mixed Valency (n = 1â^') in the Pyrazine Ligand-Bridged [(acac)₂Ru(Î¼-L^{2â€“})Ru(acac)₂]ⁿ(L^{2â€“}=4,T	4.0	0 0 rgBT /

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91	Probing valence and spin situations in selective rutheniumâ€“iminoquinonoid frameworks. An experimental and DFT analysis. Inorganica Chimica Acta, 2011, 374, 216-225.	2.4	11
92	Valence and spin situations in isomeric [(bpy)Ru(Qâ€²)2]n (Qâ€² =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (3,5-di-tert-butyl-N-ary Transactions, 2011, 40, 8377.	3.3	37
93	Dinuclear nickel(II) complexes with Schiff base ligands: syntheses, structures and bio-relevant catalytic activities. Transition Metal Chemistry, 2011, 36, 829-839.	1.4	18
94	Electronic structures and reactivity aspects of rutheniumâ€“nitrosyls. Inorganica Chimica Acta, 2011, 372, 250-258.	2.4	15
95	Bis(acetylacetonato)ruthenium Complexes of Noninnocent 1,2â€Dioxolene Ligands: Qualitatively Different Bonding in Relation to Monoimino and Diimino Analogues. Chemistry - A European Journal, 2011, 17, 11030-11040.	3.3	37
96	Structures, redox behavior, antibacterial activity and correlation with electronic structure of the complexes of nickel triad with 3-(2-(alkylthio)phenylazo)-2,4-pentanedione. Inorganica Chimica Acta, 2011, 370, 175-186.	2.4	33
97	Synthesis, structure, spectroscopic properties, electrochemistry, and DFT correlative studies of N-[(2-pyridyl)methyliden]-6-coumarin complexes of Cu(I) and Ag(I). Polyhedron, 2011, 30, 913-922.	2.2	35
98	Copper(II) complexes of thioarylazo-pentanedione: Structures, magnetism, redox properties and correlation with DFT calculations. Polyhedron, 2010, 29, 3147-3156.	2.2	21
99	{Ruâ€“NO}6 and {Ruâ€“NO}7 configurations in [Ru(trpy)(tmp)(NO)]n+ (trpy=2,2â€²:6â€²,2â€²â€²-terpyridine,) Tj ETQq1 1 0.784314 Inorganica Chimica Acta, 2010, 363, 2945-2954.	2.4	20
100	Computational Identification of Conserved microRNAs and Their Targets in Tea (Camellia sinensis). American Journal of Plant Sciences, 2010, 01, 77-86.	0.8	44
101	Carboxylate Tolerance of the Redox-Active Platform [Ru(Î¼-tppz)Ru]ⁿ, where tppz = 2,3,5,6-Tetrakis(2-pyridyl)pyrazine, in the Electron-Transfer Series [(L)ClRu(Î¼-tppz)RuCl(L)]ⁿ,n= 2+, +, 0, â^', 2â^', with 2-Picolinato, Quinaldato, and 8-Quinolinecarboxylato Ligands (L^{â^'}). Inorganic Chemistry, 2010, 49, 6565-6574.	4.0	24
102	Ruthenium(II)â€“CO complexes of N-[(2-pyridyl)methyliden]-Î±(or Î²)-aminonaphthalene: Synthesis, spectral studies, crystal structure, redox properties and DFT calculation. Journal of Organometallic Chemistry, 2009, 694, 4124-4133.	1.8	23
103	The Semiquinonea^'Ruthenium Combination as a Remarkably Invariant Feature in the Redox and Substitution Series [Ru(Q)_n(acac)_{3â^'n}]^m, n = 1â^'3; m = (â^'2), â^'1, 0, +1, (+2); Q = 4,6-Di-tert-butyl-N-phenyl-o-iminobenzoquinone. Inorganic Chemistry, 2009, 48, 11853-11864.	4.0	61
104	Structure, spectra and electrochemistry of ruthenium-carbonyl complexes of naphthylazoimidazole. Inorganica Chimica Acta, 2008, 361, 2431-2438.	2.4	8
105	Copper(I) and Silver(I) Complexes of 1-alkyl-2-(methyl)-4-(arylazo)imidazole. Synthesis, Spectral Studies and Electrochemistry. Transition Metal Chemistry, 2006, 31, 293-298.	1.4	8
106	Recent Advances of Tea (Camellia Sinensis) Biotechnology. Plant Cell, Tissue and Organ Culture, 2004, 76, 195-254.	2.3	161
107	Title is missing!. Euphytica, 2002, 128, 307-315.	1.2	42