

Tapan Kumar Mondal

List of Publications by Year in descending order

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107
papers

2,659
citations

186265
28
h-index

233421
45
g-index

112
all docs

112
docs citations

112
times ranked

2793
citing authors

#	ARTICLE	IF	CITATIONS
19	Identification of Novel and Conserved miRNAs from Extreme Halophyte, <i>Oryza coarctata</i> , a Wild Relative of Rice. <i>PLoS ONE</i> , 2015, 10, e0140675.	2.5	42
20	Genome-wide analysis of DUF221 domain-containing gene family in <i>Oryza</i> species and identification of its salinity stress-responsive members in rice. <i>PLoS ONE</i> , 2017, 12, e0182469.	2.5	39
21	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. <i>Inorganic Chemistry</i> , 2011, 50, 7090-7098.	4.0	37
22	Valence and spin situations in isomeric [(bpy)Ru(Q ²⁻) ₂] ⁿ (Q ²⁻ = Tj ETQqO O O rgBT /Overlock 10 Tf 50 627 Td (3,5-di-tert-butyl-N-ary Transactions, 2011, 40, 8377.	3.3	37
23	Bis(acetylacetonato)ruthenium Complexes of Noninnocent 1,2-Dioxolene Ligands: Qualitatively Different Bonding in Relation to Monoimino and Diimino Analogues. <i>Chemistry - A European Journal</i> , 2011, 17, 11030-11040.	3.3	37
24	Promoter methylation regulates the abundance of osa-miR393a in contrasting rice genotypes under salinity stress. <i>Functional and Integrative Genomics</i> , 2016, 16, 1-11.	3.5	37
25	Synthesis, structure, spectroscopic properties, electrochemistry, and DFT correlative studies of N-[(2-pyridyl)methylidene]-6-coumarin complexes of Cu(I) and Ag(I). <i>Polyhedron</i> , 2011, 30, 913-922.	2.2	35
26	A new multi-analyte fluorogenic sensor for efficient detection of Al ³⁺ and Zn ²⁺ ions based on ESIPT and CHEF features. <i>New Journal of Chemistry</i> , 2018, 42, 19076-19082.	2.8	34
27	Structures, redox behavior, antibacterial activity and correlation with electronic structure of the complexes of nickel triad with 3-(2-(alkylthio)phenylazo)-2,4-pentanedione. <i>Inorganica Chimica Acta</i> , 2011, 370, 175-186.	2.4	33
28	Allantoin: Emerging Role in Plant Abiotic Stress Tolerance. <i>Plant Molecular Biology Reporter</i> , 2021, 39, 648-661.	1.8	32
29	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. <i>Plant Systematics and Evolution</i> , 2014, 300, 1741-1747.	0.9	30
30	Correspondence of Ru ^{III} and Ru ^{IV} Mixed Valent States in a Small Dinuclear Complex. <i>Chemistry - A European Journal</i> , 2012, 18, 5667-5675.	3.3	29
31	Azide bridged dicopper(II), dicobalt(II) complexes and a rare double 1/4-chloride bridged ferromagnetic dicobalt(II) complex of a pyrazolyl-pyrimidine ligand: Synthesis, crystal structures, magnetic and DFT studies. <i>Polyhedron</i> , 2012, 38, 258-266.	2.2	28
32	Redox-Rich Spin-Coupled Semiquinoneruthenium Dimers with Intense Near-IR Absorption. <i>Inorganic Chemistry</i> , 2011, 50, 4753-4763.	4.0	27
33	Genome-wide association studies using 50K rice genic SNP chip unveil genetic architecture for anaerobic germination of deep-water rice population of Assam, India. <i>Molecular Genetics and Genomics</i> , 2020, 295, 1211-1226.	2.1	25
34	Fabrication of a new fluorogenic probe for detection of phosgene in solution and vapor phase. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128837.	7.8	25
35	Carboxylate Tolerance of the Redox-Active Platform [Ru(1/4-tppz)Ru] ⁿ , where tppz = 2,3,5,6-Tetrakis(2-pyridyl)pyrazine, in the Electron-Transfer Series [(L)ClRu(1/4-tppz)RuCl(L)] ⁿ , <i>n</i> = 2+, +, 0, ⁺ , 2 ⁺ , with 2-Picolinato, Quinaldato, and 8-Quinolincarboxylato Ligands (L ⁿ). <i>Inorganic Chemistry</i> , 2010, 49, 6565-6574.	4.0	24
36	Development of a new fluorescence ratiometric switch for endogenous hypochlorite detection in monocytes of diabetic subjects by dye release method. <i>Tetrahedron Letters</i> , 2018, 59, 1130-1135.	1.4	24

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37	Ruthenium(II)â€“CO complexes of N-[(2-pyridyl)methylidene]-Î±(or Î²)-aminonaphthalene: Synthesis, spectral studies, crystal structure, redox properties and DFT calculation. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 4124-4133.	1.8	23
38	Ru(II)â€“halideâ€“carbonyl complexes of naphthylazoimidazoles: Synthesis, spectra, electrochemistry, catalytic activity and electronic structure. <i>Journal of Organometallic Chemistry</i> , 2012, 716, 129-137.	1.8	22
39	Copper(II) complexes of thioaryloxo-pentanedione: Structures, magnetism, redox properties and correlation with DFT calculations. <i>Polyhedron</i> , 2010, 29, 3147-3156.	2.2	21
40	{Ruâ€“NO}6 and {Ruâ€“NO}7 configurations in [Ru(trpy)(tmp)(NO)] ⁿ⁺ (trpy=2,2â€“6â€“2â€“2â€“2-terpyridine,) <i>Inorganica Chimica Acta</i> , 2010, 363, 2945-2954.	2.4	20
41	Effect of boron deficiency on photosynthesis and antioxidant responses of young tea plantlets. <i>Russian Journal of Plant Physiology</i> , 2013, 60, 633-639.	1.1	20
42	Triphenylamineâ€“benzimidazole based switch offers reliable detection of organophosphorus nerve agent (DCP) both in solution and gaseous state. <i>New Journal of Chemistry</i> , 2017, 41, 12562-12568.	2.8	20
43	Strong metalâ€“metal coupling in mixed-valent intermediates [Cl(L)Ru(Î¼ ⁴ -tppz)Ru(L)Cl] ⁺ , L = Î² ² -diketonato ligands, tppz = 2,3,5,6-tetrakis(2-pyridyl)pyrazine. <i>Dalton Transactions</i> , 2012, 41, 13429.	3.3	19
44	Identification of jumonjiC domain containing gene family among the <i>Oryza</i> species and their expression analysis in FL478, a salt tolerant rice genotype. <i>Plant Physiology and Biochemistry</i> , 2018, 130, 43-53.	5.8	19
45	Decoding and analysis of organelle genomes of Indian tea (<i>Camellia assamica</i>) for phylogenetic confirmation. <i>Genomics</i> , 2020, 112, 659-668.	2.9	19
46	TeaMiD: a comprehensive database of simple sequence repeat markers of tea. <i>Database: the Journal of Biological Databases and Curation</i> , 2020, 2020, .	3.0	19
47	First de novo draft genome sequence of <i>Oryza coarctata</i> , the only halophytic species in the genus <i>Oryza</i> . <i>F1000Research</i> , 2017, 6, 1750.	1.6	19
48	Dinuclear nickel(II) complexes with Schiff base ligands: syntheses, structures and bio-relevant catalytic activities. <i>Transition Metal Chemistry</i> , 2011, 36, 829-839.	1.4	18
49	Synthesis, spectra, structure, redox properties and DFT computation of copper(I)â€“triphenylphosphineâ€“pyridyl Schiff bases. <i>Inorganica Chimica Acta</i> , 2012, 387, 240-247.	2.4	18
50	The synthesis, structure and photochromism of mercury(II)-iodide complexes of 1-C _n H _{2n+1} -2-(aryloxo)imidazoles (n=4, 6, 8). <i>Polyhedron</i> , 2012, 31, 506-514.	2.2	18
51	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. <i>Polyhedron</i> , 2013, 55, 192-200.	2.2	18
52	Facile detection of organophosphorus nerve agent mimic (DCP) through a new quinoline-based ratiometric switch. <i>New Journal of Chemistry</i> , 2019, 43, 8627-8633.	2.8	18
53	The intricate paramagnetic state of [Os(Q)2(bpy)] ⁺ , Q = 4,6-di-tert-butyl-o-iminobenzoquinone. <i>Dalton Transactions</i> , 2012, 41, 11675.	3.3	17
54	Synthesis, X-ray structure, spectroscopic and DFT study of cis-[Ru(PPh ₃)(L)X ₂] complexes (X=Cl ⁻ , Br ⁻), <i>Tj ETQq0 0 0 rgBT /Overlock 1</i>	2.4	17

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55	An ESIPT based chromogenic and fluorescent ratiometric probe for Zn ²⁺ with imaging in live cells and tissues. <i>New Journal of Chemistry</i> , 2019, 43, 1857-1863.	2.8	17
56	Synthesis of Amphiphilic Azo-Anion-Radical Complexes of Chromium(III) and the Development of Ultrathin Redox-Active Surfaces by the Langmuir-Schaefer Technique. <i>Chemistry - A European Journal</i> , 2012, 18, 1761-1771.	3.3	16
57	Genome-wide identification of drought-responsive miRNAs in grass pea (<i>Lathyrus sativus</i> L.). <i>Plant Gene</i> , 2020, 21, 100210.	2.3	16
58	Genome-wide identification and expression profiling of chitinase genes in tea (<i>Camellia sinensis</i> (L.) O.)	3.1	16
59	Electronic structures and reactivity aspects of ruthenium-nitrosyls. <i>Inorganica Chimica Acta</i> , 2011, 372, 250-258.	2.4	15
60	Intercalated iodobismuthate in the layers of azoimidazoles. Structure, photochromism and DFT computation. <i>Polyhedron</i> , 2013, 54, 147-157.	2.2	15
61	Synthesis, crystal structure and DFT analysis of a phenoxo bridged Cu(II) complex and an azide and $\frac{1}{4}$ -O mixed bridged trinuclear Cu(II) complex. <i>Polyhedron</i> , 2013, 50, 51-58.	2.2	15
62	Copper(I)/silver(I)-phosphine-N-((2-pyridyl)methylidene)-6-coumarin complexes: Syntheses, structures, redox interconversion, photophysical properties and DFT computation. <i>Polyhedron</i> , 2013, 51, 27-40.	2.2	15
63	Effect of Zinc and Boron on Growth and Water Relations of <i>Camellia sinensis</i> (L.) O. Kuntze cv. T-78. <i>The National Academy of Sciences, India</i> , 2015, 38, 283-286.	1.3	15
64	Comprehensive survey and evolutionary analysis of genome-wide miRNA genes from ten diploid <i>Oryza</i> species. <i>BMC Genomics</i> , 2017, 18, 711.	2.8	14
65	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 (<i>Oryza sativa</i> L.) of Assam, India. <i>Euphytica</i> , 2020, 216, 1.	1.2	14
66	A thioether containing reversible fluorescence α -turn-on chemosensor for selective detection of zinc(II): Applications in live cell imaging and inhibit logic gate. <i>Journal of Molecular Structure</i> , 2021, 1224, 129179.	3.6	13
67	Identification and functional prediction of long non-coding RNAs of rice (<i>Oryza sativa</i> L.) at reproductive stage under salinity stress. <i>Molecular Biology Reports</i> , 2021, 48, 2261-2271.	2.3	13
68	Diastereomerism in tetranuclear copper(II) complexes of a phenol based α -end-off-compartmental ligand. <i>Inorganic Chemistry Communication</i> , 2012, 23, 113-116.	3.9	12
69	Probing valence and spin situations in selective ruthenium-iminoquinonoid frameworks. An experimental and DFT analysis. <i>Inorganica Chimica Acta</i> , 2011, 374, 216-225.	2.4	11
70	Rhenium(I) complexes with NNS donor thioarylaZOimidazole ligands with the cis-{Re(CO) ₂ } ⁺ core: Synthesis, characterization, electrochemical study and DFT calculation. <i>Journal of Molecular Structure</i> , 2013, 1047, 73-79.	3.6	11
71	fac-Tricarbonyl rhenium(I) complexes of 2-(alkylthio)-N-((pyridine-2-yl)methylene)benzenamine: Synthesis, spectroscopic characterization, X-ray structure and DFT calculation. <i>Inorganica Chimica Acta</i> , 2013, 399, 138-145.	2.4	11
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 dithiocarbamate. <i>Polyhedron</i> , 2013, 50, 602-611.	2.2	11

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73	Comparative analysis of chloroplast genomes indicated different origin for Indian tea (<i>Camellia</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.3	11
74	Genome-wide identification, evolutionary relationship and expression analysis of AGO, DCL and RDR family genes in tea. <i>Scientific Reports</i> , 2021, 11, 8679.	3.3	11
75	First de novo draft genome sequence of <i>Oryza coarctata</i> , the only halophytic species in the genus <i>Oryza</i> . <i>F1000Research</i> , 2017, 6, 1750.	1.6	11
76	Characterization of OglDREB2A gene from African rice (<i>Oryza glaberrima</i>), comparative analysis and its transcriptional regulation under salinity stress. <i>3 Biotech</i> , 2018, 8, 91.	2.2	10
77	Re(I) carbonyl complexes of N-[(2-pyridyl)methylidene]-1± (or 1²)-aminonaphthalene: Synthesis, structure, electrochemistry and DFT analysis. <i>Journal of Molecular Structure</i> , 2012, 1017, 19-25.	3.6	9
78	Rhenium(I) carbonyl complexes with redox non-innocent 1-alkyl-2-[(o-thioalkyl)phenylazo]imidazole ligands: An experimental and theoretical studies. <i>Polyhedron</i> , 2012, 40, 46-52.	2.2	9
79	Two New Quinoline-Benzothiazole Blended -Off-™ Type Fluorescent Probes Exclusively Detect Cd 2+. <i>ChemistrySelect</i> , 2019, 4, 8068-8073.	1.5	9
80	Transcriptional dynamics of Zn-accumulation in developing kernels of maize reveals important Zn-uptake mechanisms. <i>Genomics</i> , 2020, 112, 3435-3447.	2.9	9
81	Synthesis, characterization, X-ray structure and DNA binding study of palladium(II) complex with new thioether containing ONS donor ligand. <i>Journal of Chemical Sciences</i> , 2020, 132, 1.	1.5	9
82	Copper(I) and Silver(I) Complexes of 1-alkyl-2-(methyl)-4-(arylazo)imidazole. <i>Synthesis, Spectral Studies and Electrochemistry. Transition Metal Chemistry</i> , 2006, 31, 293-298.	1.4	8
83	Structure, spectra and electrochemistry of ruthenium-carbonyl complexes of naphthylazoimidazole. <i>Inorganica Chimica Acta</i> , 2008, 361, 2431-2438.	2.4	8
84	Structure, photophysics, electrochemistry and DFT calculations of [RuH(CO)(PPh3)2(coumarinyl-azo-imidazole)]. <i>Polyhedron</i> , 2013, 53, 193-201.	2.2	7
85	<i>Oryza coarctata</i> is a triploid plant with initial events of C4 photosynthesis evolution. <i>Plant Science</i> , 2021, 308, 110878.	3.6	6
86	Synthesis, characterization, electronic structure and catalytic activity of new ruthenium carbonyl complexes of N-[(2-pyridyl)methylidene]-2-aminothiazole. <i>Journal of Molecular Structure</i> , 2013, 1035, 277-284.	3.6	5
87	Self-assembled nanostructures of specially designed Schiff-bases and their zinc complexes: Preparation, characterization and photoluminescence property. <i>Journal of Molecular Structure</i> , 2013, 1042, 104-111.	3.6	5
88	In silico identification of long non-coding RNA based simple sequence repeat markers and their application in diversity analysis in rice. <i>Gene Reports</i> , 2019, 16, 100418.	0.8	5
89	Integrated computational approach toward discovery of multi-targeted natural products from Thumbai (<i>Leucas aspera</i>) for attuning NKT cells. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 2893-2907.	3.5	5
90	Allantoin mediated regulation of miRNAs for short term salinity stress tolerance in <i>Oryza sativa</i> L. cv. IR-29. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2022, 31, 953-960.	1.7	5

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91	Identification and analysis of miRNAsâ€incRNAsâ€mRNAs modules involved in stemâ€elongation of deepwater rice (<i>Oryza sativa</i> L.). <i>Physiologia Plantarum</i> , 2022, 174, .	5.2	5
92	Synthesis of luminescent rhodium(III) cyclometalated complex by sp ² (C)â€S bond activation: Application as catalyst in transfer hydrogenation of ketones and live cell imaging. <i>Journal of Molecular Structure</i> , 2020, 1204, 127524.	3.6	4
93	<i>TEngExA</i>: an R package based tool for tissue enrichment and gene expression analysis. <i>Briefings in Bioinformatics</i> , 2021, 22, .	6.5	4
94	Palladium(<sc>ii</sc>) and platinum(<sc>ii</sc>) complexes with ONN donor pincer ligand: synthesis, characterization and <i>in vitro</i> cytotoxicity study. <i>New Journal of Chemistry</i> , 2022, 46, 11277-11285.	2.8	4
95	Use of a Ru/Os-CO-diiodide precursor to synthesize heteroleptic 1-alkyl-2-(arylo)imidazole complexes: The structural characterization, electrochemistry and catalytic activity. <i>Polyhedron</i> , 2013, 50, 246-254.	2.2	3
96	OUP accepted manuscript. <i>Bioinformatics</i> , 2021, , .	4.1	3
97	miRPreM and tiRPreM: Improved methodologies for the prediction of miRNAs and tRNA-induced small non-coding RNAs for model and non-model organisms. <i>Briefings in Bioinformatics</i> , 2022, 23, .	6.5	3
98	Ruthenium(II) carbonyl complexes with N-[(2-pyridyl)methylidene]-(1 [±] /1 ²)-aminonaphthalene: Synthesis, spectroscopic studies and DFT calculation. <i>Journal of Molecular Structure</i> , 2013, 1036, 28-34.	3.6	2
99	Cloning and in silico analysis of a gene encoding a putative 1 ² -carbonic anhydrase from cowpea (<i>Vigna</i>) Tj ETQq1 1 0.784314.jgBT /Ov	2.1	2
100	The core set of sequence-tagged microsatellite sites markers between halophytic wild rice <i>Oryza coarctata</i> and <i>Oryza sativa</i> complex. <i>Euphytica</i> , 2021, 217, 1.	1.2	2
101	<i>Omics Advances in Tea (Camellia sinensis)</i> . , 2013, , 439-466.		2
102	<i>Molecular Markers</i> . , 2014, , 93-123.		1
103	<i>Stress Physiology</i> . , 2014, , 125-147.		0
104	<i>Functional Genomics</i> . , 2014, , 149-167.		0
105	<i>Physiology and Biochemistry</i> . , 2020, , 195-228.		0
106	<i>Functional Genomics</i> . , 2020, , 229-308.		0
107	<i>Molecular Markers</i> . , 2020, , 139-194.		0