Somanthmaji Maji

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75 papers	2,245 citations	29 h-index	45 g-index
81 ext. papers	2,522 ext. citations	6.3 avg, IF	4.96 L-index

#	Paper	IF	Citations
75	High phenoxazinone synthase activity of two mononuclear cis-dichloro cobalt(ii) complexes with a rigid pyridyl scaffold. *New Journal of Chemistry*, **2022**, 46, 521-532	3.6	3
74	A judicious approach of exploiting polyurethane-urea based electrospun nanofibrous scaffold for stimulated bone tissue regeneration through functionally nobbled nanohydroxyapatite. *Chemical Engineering Journal*, **2022**, 429, 132179	14.7	2
73	Mononuclear cobalt(II) complexes with polypyridyl ligands: Synthesis, characterization, DNA interactions and in vitro cytotoxicity towards human cancer cells. *Journal of Inorganic Biochemistry*, **2022**, 111866	4.2	0
72	Photolability of NO in ruthenium nitrosyls with pentadentate ligand induces exceptional cytotoxicity towards VCaP, 22Rv1 and A549 cancer cells under therapeutic condition. *Journal of Molecular Structure*, **2022**, 133419	3.4	1
71	Design, synthesis, structural, spectral, and redox properties and phenoxazinone synthase activity of tripodal pentacoordinate Mn(II) complexes with impressive turnover numbers. *Dalton Transactions*, **2021**, 50, 16601-16612	4.3	1
70	Ground-State Proton-Transfer (GSPT)-Assisted Enhanced Two-Photon Uncaging from a Binol-based AIE-Fluorogenic Phototrigger. *Organic Letters*, **2021**, 23, 2308-2313	6.2	1
69	Synthesis, Characterization, and Water Oxidation Activity of Isomeric Ru Complexes. *Inorganic Chemistry*, **2021**, 60, 5791-5803	5.1	7
68	Synthesis, characterization, structural, redox and electrocatalytic proton reduction properties of cobalt polypyridyl complexes. *Inorganica Chimica Acta*, **2021**, 529, 120637	2.7	2
67	Synthesis, structure, spectral, redox properties and anti-cancer activity of Ruthenium(II) Arene complexes with substituted Triazole Ligands. *Journal of Organometallic Chemistry*, **2021**, 954-955, 122074	2.3	1
66	Time-dependent self-assembly of magnetic particles tethered branched block copolymer for potential biomedical application. *Applied Surface Science*, **2020**, 527, 146649	6.7	3
65	Nanotailored hyaluronic acid modified methylcellulose as an injectable scaffold with enhanced physico-rheological and biological aspects. *Carbohydrate Polymers*, **2020**, 237, 116146	10.3	8
64	Near-IR light-induced photorelease of nitric oxide (NO) on ruthenium nitrosyl complexes: formation, reactivity, and biological effects. *Dalton Transactions*, **2020**, 49, 10772-10785	4.3	18
63	Fractal self-assembly and aggregation of human amylin. *Soft Matter*, **2020**, 16, 3143-3153	3.6	7
62	Magnetic particle anchored reduction and pH responsive nanogel for enhanced intracellular drug delivery. *European Polymer Journal*, **2020**, 129, 109638	5.2	9
61	Quinoline HS donor decorated fluorescent carbon dots: visible light responsive HS nanocarriers. *Journal of Materials Chemistry B*, **2020**, 8, 1026-1032	7.3	5
60	Formation, reactivity, photorelease, and scavenging of NO in ruthenium nitrosyl complexes. *Inorganica Chimica Acta*, **2020**, 502, 119360	2.7	11
59	Ruthenium nitrosyl complexes with the molecular framework [RuII(dmdptz)(bpy)(NO)]n+ (dmdptz: N,N-dimethyl-4,6-di(pyridin-2-yl)-1,3,5-triazin-2-amine and bpy: 2,2?-bipyridine). Electronic structure, reactivity aspects, photorelease, and scavenging of NO. *New Journal of Chemistry*, **2020**, 44, 18732-18744	3.6	7

58	Magnetic particle ornamented dual stimuli responsive nanogel for controlled anticancer drug delivery. *New Journal of Chemistry*, **2019**, 43, 3026-3037	3.6	11
57	Restricted rotation of an Fe(CO)(PL)-subunit in [FeFe]-hydrogenase active site mimics by intramolecular ligation. *Dalton Transactions*, **2019**, 48, 5933-5939	4.3	11
56	Promoted Osteoconduction of Polyurethane-Urea Based 3D Nanohybrid Scaffold through Nanohydroxyapatite Adorned Hierarchical Titanium Phosphate.. *ACS Applied Bio Materials*, **2019**, 2, 3907-3925	4.1	3
55	A water soluble light activated hydrogen sulfide donor induced by an excited state meta effect. *Organic and Biomolecular Chemistry*, **2019**, 17, 9059-9064	3.9	7
54	Coining attributes of ultra-low concentration graphene oxide and spermine: An approach for high strength, anti-microbial and osteoconductive nanohybrid scaffold for bone tissue regeneration. *Carbon*, **2019**, 141, 370-389	10.4	18
53	Development of gelatin/carboxymethyl chitosan/nano-hydroxyapatite composite 3D macroporous scaffold for bone tissue engineering applications. *Carbohydrate Polymers*, **2018**, 189, 115-125	10.3	44
52	Self-Quenching and Slow Hole Injection May Limit the Efficiency in NiO-Based Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2018**, 122, 13902-13910	3.8	11
51	Hemodynamic shear stress induces protective autophagy in HeLa cells through lipid raft-mediated mechanotransduction. *Clinical and Experimental Metastasis*, **2018**, 35, 135-148	4.7	20
50	A facile route to develop hydrophilicity on the polyolefin surface for biomedical applications. *Advances in Polymer Technology*, **2018**, 37, 1410-1419	1.9	1
49	Decellularized caprine liver extracellular matrix as a 2D substrate coating and 3D hydrogel platform for vascularized liver tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e1678-e1690	4.4	21
48	PAMAM (generation 4) incorporated gelatin 3D matrix as an improved dermal substitute for skin tissue engineering. *Colloids and Surfaces B: Biointerfaces*, **2017**, 155, 128-134	6	15
47	Analysis of Hydrogen-Bonding Effects on Excited-State Proton-Coupled Electron Transfer from a Series of Phenols to a Re(I) Polypyridyl Complex. *Journal of Physical Chemistry C*, **2017**, 121, 12569-12576	3.8	17
46	Ectopic vascularized bone formation by human mesenchymal stem cell microtissues in a biocomposite scaffold. *Colloids and Surfaces B: Biointerfaces*, **2017**, 160, 661-670	6	18
45	Nano-Bio Engineered Carbon Dot-Peptide Functionalized Water Dispersible Hyperbranched Polyurethane for Bone Tissue Regeneration. *Macromolecular Bioscience*, **2017**, 17, 1600271	5.5	32
44	Judicious Ligand Design in Ruthenium Polypyridyl CO Reduction Catalysts to Enhance Reactivity by Steric and Electronic Effects. *Chemistry - A European Journal*, **2016**, 22, 14870-14880	4.8	29
43	Dynamics and Photochemical H2 Evolution of Dye□NiO Photocathodes with a Biomimetic FeFe-Catalyst. *ACS Energy Letters*, **2016**, 1, 1106-1111	20.1	61
42	Activating a Low Overpotential CO2 Reduction Mechanism by a Strategic Ligand Modification on a Ruthenium Polypyridyl Catalyst. *Angewandte Chemie*, **2016**, 128, 1857-1861	3.6	17
41	Establishing the Family of Diruthenium Water Oxidation Catalysts Based on the Bis(bipyridyl)pyrazolate Ligand System. *Inorganic Chemistry*, **2016**, 55, 2508-21	5.1	20

40	Direct Evidence of a Tryptophan Analogue Radical Formed in a Concerted Electron-Proton Transfer Reaction in Water. *Journal of the American Chemical Society*, **2016**, 138, 2194-9	16.4	34
39	Molecular Mechanisms Associated With Particulate and Soluble Heteroglycan Mediated Immune Response. *Journal of Cellular Biochemistry*, **2016**, 117, 1580-93	4.7	2
38	Activating a Low Overpotential CO2 Reduction Mechanism by a Strategic Ligand Modification on a Ruthenium Polypyridyl Catalyst. *Angewandte Chemie - International Edition*, **2016**, 55, 1825-9	16.4	59
37	Gelatin/Carboxymethyl chitosan based scaffolds for dermal tissue engineering applications. *International Journal of Biological Macromolecules*, **2016**, 93, 1499-1506	7.9	66
36	Tunable Electrochemical and Catalytic Features of BIAN- and BIAO-Derived Ruthenium Complexes. *Inorganic Chemistry*, **2015**, 54, 4998-5012	5.1	15
35	A Smart Magnetically Active Nanovehicle for on-Demand Targeted Drug Delivery: Where van der Waals Force Balances the Magnetic Interaction. *ACS Applied Materials & Interfaces*, **2015**, 7, 24229-41	9.5	26
34	Efficient Light-Driven Water Oxidation Catalysis by Dinuclear Ruthenium Complexes. *ChemSusChem* , **2015**, 8, 3688-96	8.3	29
33	Bio-functionalized MWCNT/hyperbranched polyurethane bionanocomposite for bone regeneration. *Biomedical Materials (Bristol)*, **2015**, 10, 025011	3.5	17
32	Highly efficient binuclear ruthenium catalyst for water oxidation. *ChemSusChem*, **2015**, 8, 1697-702	8.3	34
31	Oxo-bridge scenario behind single-site water-oxidation catalysts. *Inorganic Chemistry*, **2015**, 54, 658-66	5.1	24
30	New powerful and oxidatively rugged dinuclear Ru water oxidation catalyst: control of mechanistic pathways by tailored ligand design. *Journal of the American Chemical Society*, **2014**, 136, 24-7	16.4	107
29	A Self-Improved Water-Oxidation Catalyst: Is One Site Really Enough?. *Angewandte Chemie*, **2014**, 126, 209-213	3.6	19
28	Molecular water oxidation mechanisms followed by transition metals: state of the art. *Accounts of Chemical Research*, **2014**, 47, 504-16	24.3	245
27	Competitive oxygen-18 kinetic isotope effects expose OO bond formation in water oxidation catalysis by monomeric and dimeric ruthenium complexes. *Chemical Science*, **2014**, 5, 1141-1152	9.4	36
26	Mechanistic insights into electrocatalytic CO2 reduction within [Ru(II)(tpy)(NN)X]n+ architectures. *Dalton Transactions*, **2014**, 43, 15028-37	4.3	46
25	A self-improved water-oxidation catalyst: is one site really enough?. *Angewandte Chemie - International Edition*, **2014**, 53, 205-9	16.4	78
24	Direct observation of key catalytic intermediates in a photoinduced proton reduction cycle with a diiron carbonyl complex. *Journal of the American Chemical Society*, **2014**, 136, 17366-9	16.4	40
23	Electronic structure and catalytic aspects of [Ru(tpm)(bqdi)(Cl/H2O)]n, tpm = tris(1-pyrazolyl)methane and bqdi = o-benzoquinonediimine. *Dalton Transactions*, **2013**, 42, 3721-34	4.3	27

22	Synthesis, Characterization, Reactivity, and Linkage Isomerization of Ru(Cl)2(L)(DMSO)2 Complexes. *European Journal of Inorganic Chemistry*, **2013**, 2013, 232-240	2.3	16
21	Mononuclear ruthenium-water oxidation catalysts: discerning between electronic and hydrogen-bonding effects. *Inorganic Chemistry*, **2013**, 52, 3591-3	5.1	72
20	Nanocomposites of bio-based hyperbranched polyurethane/funtionalized MWCNT as non-immunogenic, osteoconductive, biodegradable and biocompatible scaffolds in bone tissue engineering. *Journal of Materials Chemistry B*, **2013**, 1, 4115-4126	7.3	38
19	Synthesis, characterization, and reactivity of dyad ruthenium-based molecules for light-driven oxidation catalysis. *Chemistry - A European Journal*, **2013**, 19, 7162-72	4.8	34
18	Extraction of high quality cellulose from the stem of Calotropis procera. *South Asian Journal of Experimental Biology*, **2013**, 3, 113-118	0.7	4
17	Ligand Geometry Directs O?O Bond-Formation Pathway in Ruthenium-Based Water Oxidation Catalyst. *Angewandte Chemie*, **2012**, 124, 6069-6072	3.6	23
16	Ligand geometry directs O-O bond-formation pathway in ruthenium-based water oxidation catalyst. *Angewandte Chemie - International Edition*, **2012**, 51, 5967-70	16.4	54
15	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, 5667-75	4.8	25
14	Reductive approach to mixed valency (n = 1-) in the pyrazine ligand-bridged [(acac)2Ru(L(2-))Ru(acac)2](n) (L(2-) = 2,5-pyrazine-dicarboxylate) through experiment and theory. *Inorganic Chemistry*, **2011**, 50, 7040-9	5.1	41
13	Ruthenium nitrosyl complexes with 1,4,7-trithiacyclononane and 2,2'-bipyridine (bpy) or 2-phenylazopyridine (pap) coligands. Electronic structure and reactivity aspects. *Dalton Transactions*, **2011**, 40, 12527-39	4.3	25
12	Ligand influence over the formation of dinuclear [2+2] versus trinuclear [3+3] Cu(I) Schiff base macrocyclic complexes. *Inorganic Chemistry*, **2011**, 50, 6878-89	5.1	12
11	Stabilization of {RuNO}6 and {RuNO}7 States in [RuII(trpy)(bik)(NO)]n+ {trpy = 2,2?:6?,2?-terpyridine, bik = 2,2?-bis(1-methylimidazolyl) ketone} Formation, Reactivity, and Photorelease of Metal-Bound Nitrosyl. *European Journal of Inorganic Chemistry*, **2009**, 2009, 2702-2710	2.3	29
10	Valence-state alternatives in diastereoisomeric complexes [(acac)2Ru(mu-QL)Ru(acac)2]n (QL2- = 1,4-dioxido-9,10-anthraquinone,n = +2, +1, 0, -1, -2). *Inorganic Chemistry*, **2008**, 47, 5204-11	5.1	75
9	Formation, reactivity, and photorelease of metal bound nitrosyl in [Ru(trpy)(L)(NO)](n+) (trpy = 2,2':6',2''-terpyridine, L = 2-phenylimidazo[4,5-f]1,10-phenanthroline). *Inorganic Chemistry*, **2008**, 47, 3218-27	5.1	55
8	Intramolecular valence and spin interaction in meso and rac diastereomers of a p-quinonoid-bridged diruthenium complex. *Journal of the American Chemical Society*, **2008**, 130, 17575-83	16.4	101
7	Valence-state analysis through spectroelectrochemistry in a series of quinonoid-bridged diruthenium complexes [(acac)(2)Ru(mu-L)Ru(acac)(2)](n) (n=+2, +1, 0, -1, -2). *Chemistry - A European Journal*, **2008**, 14, 10816-28	4.8	78
6	Valence-State Distribution in the Ruthenium o-Quinonoid Systems [Ru(trpy)(Cl)(L1)]+ and [Ru(trpy)(Cl)(L2)]+ (L1 = o-Iminobenzoquinone, L2 = o-Diiminobenzoquinone; trpy = 2,2?:6?,2?-Terpyridine). *European Journal of Inorganic Chemistry*, **2007**, 2007, 314-323	2.3	34
5	Synthesis and Spectro-electrochemical Aspects of [RuII(trpy)(pdt)(X)]n+ (trpy = 2,2?:6?,2?-Terpyridine, pdt = 5,6-Diphenyl-3-pyridyl-as-triazine, X = Cl, CH3CN, NO2, NO+, NO) Electrophilicity of {RuIINO+} and Photolability of {RuIINO}. *European Journal of Inorganic Chemistry*, **2007**, 2007, 3425-3434	2.3	17

4	Synthesis, structure and electrochemistry of CO incorporated diruthenium metallacyclic compounds [Ru2(CO)6{□1:□1:□2:□2-1,4-Fc2C5H2O}] and [Ru2(CO)6{□1:□1:□2:□2-1,5-Fc2C5H2O}]. *Journal of Organometallic Chemistry*, **2007**, 692, 1601-1607	2.3	21
3	Non-innocent behaviour of ancillary and bridging ligands in homovalent and mixed-valent ruthenium complexes [A2Ru(mu-L)RuA2]n, A = 2,4-pentanedionato or 2-phenylazopyridine, L(2-) = 2,5-bis(2-oxidophenyl)pyrazine. *Dalton Transactions*, **2007**, 2411-8	4.3	30
2	Metal-induced reductive ring opening of 1,2,4,5-tetrazines: three resulting coordination alternatives, including the new non-innocent 1,2-diiminohydrazido(2-) bridging ligand system. *Inorganic Chemistry*, **2006**, 45, 1316-25	5.1	57
1	Controlling metal-ligand-metal oxidation state combinations by ancillary ligand (L) variation in the redox systems [L2Ru(mu-boptz)RuL2]n, boptz = 3,6-bis(2-oxidophenyl)-1,2,4,5-tetrazine, and L = acetylacetonate, 2,2□bipyridine, or 2-phenylazopyridine. *Chemistry - A European Journal*, **2005**, 12, 489-98	4.8	55