

Somanthmaji Maji

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75
papers

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81
ext. papers

2,522
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6.3
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4.96
L-index

#	Paper	IF	Citations
75	Molecular water oxidation mechanisms followed by transition metals: state of the art. <i>Accounts of Chemical Research</i> , 2014 , 47, 504-16	24.3	245
74	New powerful and oxidatively rugged dinuclear Ru water oxidation catalyst: control of mechanistic pathways by tailored ligand design. <i>Journal of the American Chemical Society</i> , 2014 , 136, 24-7	16.4	107
73	Intramolecular valence and spin interaction in meso and rac diastereomers of a p-quinonoid-bridged diruthenium complex. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17575-83	16.4	101
72	A self-improved water-oxidation catalyst: is one site really enough?. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 205-9	16.4	78
71	Valence-state analysis through spectroelectrochemistry in a series of quinonoid-bridged diruthenium complexes [(acac) ₂ Ru(μ-L)Ru(acac) ₂](n) (n=+2, +1, 0, -1, -2). <i>Chemistry - A European Journal</i> , 2008 , 14, 10816-28	4.8	78
70	Valence-state alternatives in diastereoisomeric complexes [(acac) ₂ Ru(μ-QL)Ru(acac) ₂](n) (QL ²⁻ = 1,4-dioxido-9,10-anthraquinone, n = +2, +1, 0, -1, -2). <i>Inorganic Chemistry</i> , 2008 , 47, 5204-11	5.1	75
69	Mononuclear ruthenium-water oxidation catalysts: discerning between electronic and hydrogen-bonding effects. <i>Inorganic Chemistry</i> , 2013 , 52, 3591-3	5.1	72
68	Gelatin/Carboxymethyl chitosan based scaffolds for dermal tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1499-1506	7.9	66
67	Dynamics and Photochemical H ₂ Evolution of Dye/NiO Photocathodes with a Biomimetic FeFe-Catalyst. <i>ACS Energy Letters</i> , 2016 , 1, 1106-1111	20.1	61
66	Activating a Low Overpotential CO ₂ Reduction Mechanism by a Strategic Ligand Modification on a Ruthenium Polypyridyl Catalyst. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1825-9	16.4	59
65	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. <i>Inorganic Chemistry</i> , 2006 , 45, 1316-25	5.1	57
64	Formation, reactivity, and photorelease of metal bound nitrosyl in [Ru(trpy)(L)(NO)](n+) (trpy = 2,2',6',6''-terpyridine, L = 2-phenylimidazo[4,5-f]1,10-phenanthroline). <i>Inorganic Chemistry</i> , 2008 , 47, 3218-27	5.1	55
63	Controlling metal-ligand-metal oxidation state combinations by ancillary ligand (L) variation in the redox systems [L ₂ Ru(μ-boptz)RuL ₂](n), boptz = 3,6-bis(2-oxido-phenyl)-1,2,4,5-tetrazine, and L = acetylacetonate, 2,2'-bipyridine, or 2-phenylazopyridine. <i>Chemistry - A European Journal</i> , 2005 , 12, 489-98	4.8	55
62	Ligand geometry directs O-O bond-formation pathway in ruthenium-based water oxidation catalyst. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5967-70	16.4	54
61	Mechanistic insights into electrocatalytic CO ₂ reduction within [Ru(II)(trpy)(NN)X] ⁿ⁺ architectures. <i>Dalton Transactions</i> , 2014 , 43, 15028-37	4.3	46
60	Development of gelatin/carboxymethyl chitosan/nano-hydroxyapatite composite 3D macroporous scaffold for bone tissue engineering applications. <i>Carbohydrate Polymers</i> , 2018 , 189, 115-125	10.3	44
59	Reductive approach to mixed valency (n = 1-) in the pyrazine ligand-bridged [(acac) ₂ Ru(L(2-))Ru(acac) ₂](n) (L(2-) = 2,5-pyrazine-dicarboxylate) through experiment and theory. <i>Inorganic Chemistry</i> , 2011 , 50, 7040-9	5.1	41

58	Direct observation of key catalytic intermediates in a photoinduced proton reduction cycle with a diiron carbonyl complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17366-9	16.4	40
57	Nanocomposites of bio-based hyperbranched polyurethane/functionalized MWCNT as non-immunogenic, osteoconductive, biodegradable and biocompatible scaffolds in bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4115-4126	7.3	38
56	Competitive oxygen-18 kinetic isotope effects expose O-O bond formation in water oxidation catalysis by monomeric and dimeric ruthenium complexes. <i>Chemical Science</i> , 2014 , 5, 1141-1152	9.4	36
55	Direct Evidence of a Tryptophan Analogue Radical Formed in a Concerted Electron-Proton Transfer Reaction in Water. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2194-9	16.4	34
54	Highly efficient binuclear ruthenium catalyst for water oxidation. <i>ChemSusChem</i> , 2015 , 8, 1697-702	8.3	34
53	Synthesis, characterization, and reactivity of dyad ruthenium-based molecules for light-driven oxidation catalysis. <i>Chemistry - A European Journal</i> , 2013 , 19, 7162-72	4.8	34
52	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). <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 314-323	2.3	34
51	Nano-Bio Engineered Carbon Dot-Peptide Functionalized Water Dispersible Hyperbranched Polyurethane for Bone Tissue Regeneration. <i>Macromolecular Bioscience</i> , 2017 , 17, 1600271	5.5	32
50	Non-innocent behaviour of ancillary and bridging ligands in homovalent and mixed-valent ruthenium complexes [A ₂ Ru(μ-L)RuA ₂] _n , A = 2,4-pentanedionato or 2-phenylazopyridine, L(2-) = 2,5-bis(2-oxidophenyl)pyrazine. <i>Dalton Transactions</i> , 2007 , 2411-8	4.3	30
49	Judicious Ligand Design in Ruthenium Polypyridyl CO Reduction Catalysts to Enhance Reactivity by Steric and Electronic Effects. <i>Chemistry - A European Journal</i> , 2016 , 22, 14870-14880	4.8	29
48	Efficient Light-Driven Water Oxidation Catalysis by Dinuclear Ruthenium Complexes. <i>ChemSusChem</i> , 2015 , 8, 3688-96	8.3	29
47	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. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 2702-2710	2.3	29
46	Electronic structure and catalytic aspects of [Ru(tpm)(bqdi)(Cl/H ₂ O)] _n , tpm = tris(1-pyrazolyl)methane and bqdi = o-benzoquinonediimine. <i>Dalton Transactions</i> , 2013 , 42, 3721-34	4.3	27
45	A Smart Magnetically Active Nanovehicle for on-Demand Targeted Drug Delivery: Where van der Waals Force Balances the Magnetic Interaction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24229-495	4.5	26
44	Correspondence of Ru(III) Ru(II) and Ru(IV) Ru(III) mixed valent states in a small dinuclear complex. <i>Chemistry - A European Journal</i> , 2012 , 18, 5667-75	4.8	25
43	Ruthenium nitrosyl complexes with 1,4,7-trithiacyclononane and 2,2'-bipyridine (bpy) or 2-phenylazopyridine (pap) coligands. Electronic structure and reactivity aspects. <i>Dalton Transactions</i> , 2011 , 40, 12527-39	4.3	25
42	Oxo-bridge scenario behind single-site water-oxidation catalysts. <i>Inorganic Chemistry</i> , 2015 , 54, 658-66	5.1	24
41	Ligand Geometry Directs O-O Bond-Formation Pathway in Ruthenium-Based Water Oxidation Catalyst. <i>Angewandte Chemie</i> , 2012 , 124, 6069-6072	3.6	23

40	Decellularized caprine liver extracellular matrix as a 2D substrate coating and 3D hydrogel platform for vascularized liver tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e1678-e1690	4.4	21
39	Synthesis, structure and electrochemistry of CO incorporated diruthenium metallacyclic compounds [Ru ₂ (CO) ₆ (η ¹ :η ¹ :η ² :η ² -1,4-Fc2C ₅ H ₂ O)] and [Ru ₂ (CO) ₆ (η ¹ :η ¹ :η ² :η ² -1,5-Fc2C ₅ H ₂ O)]. <i>Journal of Organometallic Chemistry</i> , 2007 , 692, 1601-1607	2.3	21
38	Hemodynamic shear stress induces protective autophagy in HeLa cells through lipid raft-mediated mechanotransduction. <i>Clinical and Experimental Metastasis</i> , 2018 , 35, 135-148	4.7	20
37	Establishing the Family of Diruthenium Water Oxidation Catalysts Based on the Bis(bipyridyl)pyrazolate Ligand System. <i>Inorganic Chemistry</i> , 2016 , 55, 2508-21	5.1	20
36	A Self-Improved Water-Oxidation Catalyst: Is One Site Really Enough?. <i>Angewandte Chemie</i> , 2014 , 126, 209-213	3.6	19
35	Ectopic vascularized bone formation by human mesenchymal stem cell microtissues in a biocomposite scaffold. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 160, 661-670	6	18
34	Near-IR light-induced photorelease of nitric oxide (NO) on ruthenium nitrosyl complexes: formation, reactivity, and biological effects. <i>Dalton Transactions</i> , 2020 , 49, 10772-10785	4.3	18
33	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. <i>Carbon</i> , 2019 , 141, 370-389	10.4	18
32	Analysis of Hydrogen-Bonding Effects on Excited-State Proton-Coupled Electron Transfer from a Series of Phenols to a Re(I) Polypyridyl Complex. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12569-12576	3.8	17
31	Activating a Low Overpotential CO ₂ Reduction Mechanism by a Strategic Ligand Modification on a Ruthenium Polypyridyl Catalyst. <i>Angewandte Chemie</i> , 2016 , 128, 1857-1861	3.6	17
30	Bio-functionalized MWCNT/hyperbranched polyurethane bionanocomposite for bone regeneration. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 025011	3.5	17
29	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 ⁻ , CH ₃ CN, NO ₂ ⁻ , NO ⁺) and Electrophilicity of {RuII(η ¹ O ⁺)} and Photolability of {RuII(η ¹ O)}. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 3125-3134	2.3	17
28	Synthesis, Characterization, Reactivity, and Linkage Isomerization of Ru(Cl) ₂ (L)(DMSO) ₂ Complexes. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 232-240	2.3	16
27	PAMAM (generation 4) incorporated gelatin 3D matrix as an improved dermal substitute for skin tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 155, 128-134	6	15
26	Tunable Electrochemical and Catalytic Features of BIAN- and BIAO-Derived Ruthenium Complexes. <i>Inorganic Chemistry</i> , 2015 , 54, 4998-5012	5.1	15
25	Ligand influence over the formation of dinuclear [2+2] versus trinuclear [3+3] Cu(I) Schiff base macrocyclic complexes. <i>Inorganic Chemistry</i> , 2011 , 50, 6878-89	5.1	12
24	Magnetic particle ornamented dual stimuli responsive nanogel for controlled anticancer drug delivery. <i>New Journal of Chemistry</i> , 2019 , 43, 3026-3037	3.6	11
23	Restricted rotation of an Fe(CO)(PL)-subunit in [FeFe]-hydrogenase active site mimics by intramolecular ligation. <i>Dalton Transactions</i> , 2019 , 48, 5933-5939	4.3	11

22	Self-Quenching and Slow Hole Injection May Limit the Efficiency in NiO-Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13902-13910	3.8	11
21	Formation, reactivity, photorelease, and scavenging of NO in ruthenium nitrosyl complexes. <i>Inorganica Chimica Acta</i> , 2020 , 502, 119360	2.7	11
20	Magnetic particle anchored reduction and pH responsive nanogel for enhanced intracellular drug delivery. <i>European Polymer Journal</i> , 2020 , 129, 109638	5.2	9
19	Nanotailored hyaluronic acid modified methylcellulose as an injectable scaffold with enhanced physico-rheological and biological aspects. <i>Carbohydrate Polymers</i> , 2020 , 237, 116146	10.3	8
18	Fractal self-assembly and aggregation of human amylin. <i>Soft Matter</i> , 2020 , 16, 3143-3153	3.6	7
17	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. <i>New Journal of Chemistry</i> , 2020 , 44, 18732-18744	3.6	7
16	Synthesis, Characterization, and Water Oxidation Activity of Isomeric Ru Complexes. <i>Inorganic Chemistry</i> , 2021 , 60, 5791-5803	5.1	7
15	A water soluble light activated hydrogen sulfide donor induced by an excited state meta effect. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 9059-9064	3.9	7
14	Quinoline HS donor decorated fluorescent carbon dots: visible light responsive HS nanocarriers. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 1026-1032	7.3	5
13	Extraction of high quality cellulose from the stem of <i>Calotropis procera</i> . <i>South Asian Journal of Experimental Biology</i> , 2013 , 3, 113-118	0.7	4
12	Time-dependent self-assembly of magnetic particles tethered branched block copolymer for potential biomedical application. <i>Applied Surface Science</i> , 2020 , 527, 146649	6.7	3
11	Promoted Osteoconduction of Polyurethane-Urea Based 3D Nanohybrid Scaffold through Nanohydroxyapatite Adorned Hierarchical Titanium Phosphate.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 3907-3925	4.1	3
10	High phenoxazinone synthase activity of two mononuclear cis-dichloro cobalt(ii) complexes with a rigid pyridyl scaffold. <i>New Journal of Chemistry</i> , 2022 , 46, 521-532	3.6	3
9	Molecular Mechanisms Associated With Particulate and Soluble Heteroglycan Mediated Immune Response. <i>Journal of Cellular Biochemistry</i> , 2016 , 117, 1580-93	4.7	2
8	Synthesis, characterization, structural, redox and electrocatalytic proton reduction properties of cobalt polypyridyl complexes. <i>Inorganica Chimica Acta</i> , 2021 , 529, 120637	2.7	2
7	A judicious approach of exploiting polyurethane-urea based electrospun nanofibrous scaffold for stimulated bone tissue regeneration through functionally nobbled nanohydroxyapatite. <i>Chemical Engineering Journal</i> , 2022 , 429, 132179	14.7	2
6	A facile route to develop hydrophilicity on the polyolefin surface for biomedical applications. <i>Advances in Polymer Technology</i> , 2018 , 37, 1410-1419	1.9	1
5	Design, synthesis, structural, spectral, and redox properties and phenoxazinone synthase activity of tripodal pentacoordinate Mn(II) complexes with impressive turnover numbers. <i>Dalton Transactions</i> , 2021 , 50, 16601-16612	4.3	1

4	Ground-State Proton-Transfer (GSPT)-Assisted Enhanced Two-Photon Uncaging from a Binol-based AIE-Fluorogenic Phototrigger. <i>Organic Letters</i> , 2021 , 23, 2308-2313	6.2	1
3	Synthesis, structure, spectral, redox properties and anti-cancer activity of Ruthenium(II) Arene complexes with substituted Triazole Ligands. <i>Journal of Organometallic Chemistry</i> , 2021 , 954-955, 122074 ^{2,3}	4.3	1
2	Photolability of NO in ruthenium nitrosyls with pentadentate ligand induces exceptional cytotoxicity towards VCaP, 22Rv1 and A549 cancer cells under therapeutic condition. <i>Journal of Molecular Structure</i> , 2022 , 133419	3.4	1
1	Mononuclear cobalt(II) complexes with polypyridyl ligands: Synthesis, characterization, DNA interactions and in vitro cytotoxicity towards human cancer cells. <i>Journal of Inorganic Biochemistry</i> , 2022 , 111866	4.2	0