

Suman Mukhopadhyay

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ruthenium(II)â€‘Arene RAPTA Type Complexes Containing Curcumin and Bisdemethoxycurcumin Display Potent and Selective Anticancer Activity. <i>Organometallics</i> , 2014, 33, 3709-3715.	2.3	162
2	Nickel(II) complexes with a flexible piperazinyl moiety: studies on DNA and protein binding and catecholase like properties. <i>Dalton Transactions</i> , 2015, 44, 2299-2310.	3.3	90
3	Substituent dependent sensing behavior of Schiff base chemosensors in detecting Zn ²⁺ and Al ³⁺ ions: Drug sample analysis and living cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 347-358.	7.8	84
4	Copperâ€‘organic frameworks assembled from in situ generated 5-(4-pyridyl)tetrazole building blocks: synthesis, structural features, topological analysis and catalytic oxidation of alcohols. <i>Dalton Transactions</i> , 2014, 43, 9944-9954.	3.3	70
5	Honeycomb Nets with Interpenetrating Frameworks Involving Iminodiacetatoâˆ‘Copper(II) Blocks and Bipyridine Spacers: Syntheses, Characterization, and Magnetic Studies. <i>Inorganic Chemistry</i> , 2004, 43, 3413-3420.	4.0	68
6	Ruthenium(II) arene NSAID complexes: inhibition of cyclooxygenase and antiproliferative activity against cancer cell lines. <i>Dalton Transactions</i> , 2018, 47, 517-527.	3.3	66
7	Equilibrium Studies in Solution Involving Nickel(II) Complexes of Flexidentate Schiff Base Ligands: Isolation and Structural Characterization of the Planar Red and Octahedral Green Species Involved in the Equilibrium. <i>Inorganic Chemistry</i> , 2003, 42, 8439-8445.	4.0	64
8	Bi- and Trinuclear Copper(II) Complexes of a Sterically Constrained Phenol-Based Tetradentate Ligand: Syntheses, Structures, and Magnetic Studies. <i>Inorganic Chemistry</i> , 2004, 43, 8501-8509.	4.0	63
9	Oxovanadium(IV) and -(V) Complexes of Dithiocarbamate-Based Tridentate Schiff Base Ligands: Syntheses, Structure, and Photochemical Reactivity of Compounds Involving Imidazole Derivatives as Coligands. <i>Inorganic Chemistry</i> , 2003, 42, 1508-1517.	4.0	57
10	Rapamycin-induced G1 cell cycle arrest employs both TGF-Î² and Rb pathways. <i>Cancer Letters</i> , 2015, 360, 134-140.	7.2	54
11	Microwave synthesis of mono- and bis-tetrazolato complexes via 1,3-dipolar cycloaddition of organonitriles with platinum(II)-bound azides. <i>Dalton Transactions</i> , 2007, , 5297.	3.3	49
12	Discotic Organic Gelators in Ion Sensing, Metallogel Formation, and Bioinspired Catalysis. <i>Langmuir</i> , 2018, 34, 11575-11585.	3.5	47
13	Target based chemotherapeutic advancement of ruthenium complexes. <i>Coordination Chemistry Reviews</i> , 2021, 448, 214169.	18.8	46
14	New water-soluble azido- and derived tetrazolato-platinum(II) complexes with PTA. Easy metal-mediated synthesis and isolation of 5-substituted tetrazoles. <i>Dalton Transactions</i> , 2008, , 6546.	3.3	45
15	Targeted water soluble copperâ€‘tetrazolate complexes: interactions with biomolecules and catecholase like activities. <i>Dalton Transactions</i> , 2015, 44, 20154-20167.	3.3	44
16	Targeted synthesis of cadmium(II) Schiff base complexes towards corrosion inhibition on mild steel. <i>RSC Advances</i> , 2017, 7, 48569-48585.	3.6	44
17	Cobalt Metallogel Interface for Selectively Sensing L-Tryptophan among Essential Amino Acids. <i>Inorganic Chemistry</i> , 2019, 58, 7324-7334.	4.0	41
18	Synthesis, Characterization, and Reactivity of Mononuclear O,N-Chelated Vanadium(IV) and -(III) Complexes of Methyl 2-Aminocyclopent-1-ene-1-dithiocarboxylate Based Ligand: Reporting an Example of Conformational Isomerism in the Solid State. <i>Inorganic Chemistry</i> , 2002, 41, 2433-2440.	4.0	40

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19	Activation of C–CN bond of propionitrile: An alternative route to the syntheses of 5-substituted-1H-tetrazoles and dicyano-platinum(II) species. <i>Polyhedron</i> , 2008, 27, 2883-2888.	2.2	39
20	Zeolite encapsulated host-guest Cu(II) Schiff base complexes: Superior activity towards oxidation reactions over homogenous catalytic systems. <i>Microporous and Mesoporous Materials</i> , 2018, 271, 100-117.	4.4	37
21	PdII-promoted [2 + 3] cycloaddition of pyrroline N-oxide to organonitriles. Application of (1 ^H -4-1,2,4-oxadiazoline)-PdII complexes in the Suzuki–Miyaura reaction. <i>Dalton Transactions</i> , 2009, , 2210.	3.3	33
22	Studies on the influence of the nuclearity of zinc(II) hemi-salen complexes on some pivotal biological applications. <i>Dalton Transactions</i> , 2020, 49, 15481-15503.	3.3	32
23	A smart organic gel template as metal cation and inorganic anion sensor. <i>Soft Matter</i> , 2017, 13, 6243-6249.	2.7	30
24	Investigation on chemical protease, nuclease and catecholase activity of two copper complexes with flexidentate Schiff base ligands. <i>Inorganica Chimica Acta</i> , 2018, 469, 111-122.	2.4	30
25	Enhanced pseudo-halide promoted corrosion inhibition by biologically active zinc(II) Schiff base complexes. <i>Chemical Engineering Journal</i> , 2019, 357, 447-457.	12.7	30
26	Pt(II)-Promoted [2 + 3] Cycloaddition of Azide to Cyanopyridines: Convenient Tool toward Heterometallic Structures. <i>Inorganic Chemistry</i> , 2008, 47, 11334-11341.	4.0	28
27	Mechanistic and thermodynamic aspects of a pyrene-based fluorescent probe to detect picric acid. <i>New Journal of Chemistry</i> , 2019, 43, 11483-11492.	2.8	27
28	Ruthenium(II)-arene complexes as anti-metastatic agents, and related techniques. <i>RSC Medicinal Chemistry</i> , 2022, 13, 22-38.	3.9	27
29	Synthesis of mono- and bis-tetrazolato complexes of Ni(II), Pt(II) and Cu(II) via 1,3-dipolar cycloadditions of 2-cyanopyridines with metal ligated azides in N,N,O-aminoiminophenolato complexes. <i>Dalton Transactions</i> , 2009, , 4778.	3.3	25
30	Microwave synthesis of mono- and bis-tetrazolato complexes via 1,3-dipolar cycloaddition of organonitriles with nickel(II)-bound azides: Isolation of 5-substituted tetrazoles from parent complex. <i>Polyhedron</i> , 2013, 55, 24-36.	2.2	25
31	Copper(II) tetrazolato complexes: Role in oxidation catalysis and protein binding. <i>Polyhedron</i> , 2017, 132, 53-63.	2.2	24
32	Spontaneous Assembly of a Polymeric Helicate of Sodium with LVO ₂ Units Forming the Strand: Photoinduced Transformation into a Mixed-Valence Product. <i>Inorganic Chemistry</i> , 2002, 41, 2946-2952.	4.0	23
33	Analysis of instrumented scratch hardness and fracture toughness properties of laser surface alloyed tribological coatings. <i>Ceramics International</i> , 2018, 44, 4248-4255.	4.8	23
34	An amide probe as a selective Al ³⁺ and Fe ³⁺ sensor inside the HeLa and a549 cell lines: Pictet–Spengler reaction for the rapid detection of tryptophan amino acid. <i>New Journal of Chemistry</i> , 2019, 43, 4867-4877.	2.8	23
35	Greener Selective Cycloalkane Oxidations with Hydrogen Peroxide Catalyzed by Copper-5-(4-pyridyl)tetrazolate Metal-Organic Frameworks. <i>Molecules</i> , 2015, 20, 19203-19220.	3.8	22
36	Efficient regioselective synthesis of 4- and 5-substituted isoxazoles under thermal and microwave conditions. <i>Journal of Heterocyclic Chemistry</i> , 2008, 45, 1385-1389.	2.6	21

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37	Nanoparticles silica anchored Cu(II) and V(IV) scorpionate complexes for selective catalysis of cyclohexane oxidation. <i>Journal of Molecular Catalysis A</i> , 2015, 400, 139-146.	4.8	21
38	Novel alkoxy silane pentacoordinate OV(IV) complexes as supported catalysts for cyclohexane oxidation with dioxygen. <i>Applied Catalysis A: General</i> , 2010, 384, 136-146.	4.3	20
39	Adduct Formation between Alkali Metal Ions and Anionic LWVO ₂ -(L ₂ = Tridentate ONS Ligands) Species: Syntheses, Structural Investigation, and Photochemical Studies. <i>Inorganic Chemistry</i> , 2003, 42, 6284-6293.	4.0	19
40	Mixed-Spin Binuclear Nickel(II) Complexes in Unsymmetrical Ligand Environments and Related Mononuclear Compounds: Electronic and Molecular Structures in Solution and in the Solid State. <i>Inorganic Chemistry</i> , 2003, 42, 7189-7199.	4.0	19
41	Novel Approach to Generate a Self-Deliverable Ru(II)-Based Anticancer Agent in the Self-Reacting Confined Gel Space. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47606-47618.	8.0	19
42	Self-Healable Lanthanoid-Based Metallogels: Dye Removal and Crystallization in the Confined Gel State. <i>ACS Applied Nano Materials</i> , 2019, 2, 8005-8015.	5.0	18
43	Role of zeolite encapsulated Cu(II) complexes in electron transfer as well as peroxy radical intermediates formation during oxidation of thioanisole. <i>Journal of Catalysis</i> , 2020, 389, 305-316.	6.2	18
44	Mannich base Cu(II) complexes as biomimetic oxidative catalyst. <i>Journal of Inorganic Biochemistry</i> , 2019, 195, 164-173.	3.5	16
45	Preparation of Tris-Tetrazole-Based Metallogels and Stabilization of Silver Nanoparticles: Studies on Reduction Catalysis and Self-Healing Property. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59567-59579.	8.0	15
46	Evaluation of nanomechanical and tribological properties of laser surface alloyed boride-nitride-carbide ceramic matrix composite coatings. <i>Ceramics International</i> , 2018, 44, 17050-17061.	4.8	14
47	Efficient oxidation of benzene catalyzed by Cu(II) tetrazolato complexes under mild conditions. <i>Inorganic Chemistry Communication</i> , 2019, 105, 217-220.	3.9	14
48	Modulation of catalytic and biomolecular binding properties of ruthenium(II)-arene complexes with the variation of coligands for selective toxicity against cancerous cells. <i>Polyhedron</i> , 2021, 207, 115379.	2.2	14
49	Pyrene-based fluorescent Ru(II)-arene complexes for significant biological applications: catalytic potential, DNA/protein binding, two photon cell imaging and <i>in vitro</i> cytotoxicity. <i>Dalton Transactions</i> , 2022, 51, 3937-3953.	3.3	14
50	Cancer-Targeted Chitosan-Biotin-Conjugated Mesoporous Silica Nanoparticles as Carriers of Zinc Complexes to Achieve Enhanced Chemotherapy <i>In Vitro</i> and <i>In Vivo</i> . <i>ACS Applied Bio Materials</i> , 2022, 5, 190-204.	4.6	14
51	Limiting nuclearity in formation of polynuclear metal complexes through [2 + 3] cycloaddition: synthesis and magnetic properties of tri- and pentanuclear metal complexes. <i>Dalton Transactions</i> , 2014, 43, 8083-8093.	3.3	13
52	Polymer encapsulated scorpionate Eu ³⁺ complexes as novel hybrid materials for high performance luminescence applications. <i>RSC Advances</i> , 2015, 5, 35675-35682.	3.6	13
53	Nickel tetrazolato complexes synthesized by microwave irradiation: Catecholase like activity and interaction with biomolecules. <i>Journal of Coordination Chemistry</i> , 2017, 70, 261-278.	2.2	13
54	Comparative study on the tribological properties of laser post-treated and untreated AISI304 stainless steel matrix composite reinforced with hard ceramic particles (TiB ₂ -TiN-SiC) and prepared by ex-situ P/M route. <i>Ceramics International</i> , 2019, 45, 18852-18864.	4.8	12

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55	Copper complexes with a flexible piperazinyl arm: nuclearity driven catecholase activity and interactions with biomolecules. <i>Journal of Coordination Chemistry</i> , 2016, 69, 3619-3637.	2.2	11
56	Mechanistic Insight for Targeting Biomolecules by Ruthenium(II) NSAID Complexes. <i>ACS Applied Bio Materials</i> , 2020, 3, 4600-4612.	4.6	11
57	The effect of remote substitution on formation of preferential geometrical isomer of cobalt(III) tetrazolato complexes formed via [2+3] cycloaddition. <i>Inorganic Chemistry Communication</i> , 2013, 34, 62-67.	3.9	10
58	Fine tuning through valence bond tautomerization of ancillary ligands in ruthenium(II) arene complexes for better anticancer activity and enzyme inhibition properties. <i>Dalton Transactions</i> , 2016, 45, 19277-19289.	3.3	10
59	Specific Loading and In Vitro Controlled Release of a Ru-Based Hydrophobically Encapsulated Model Anticancer Drug inside Nanoassemblies toward Stimuli-Responsive Drug Delivery. <i>ACS Applied Nano Materials</i> , 2021, 4, 2037-2051.	5.0	10
60	Effect of hBN and SiC addition on laser assisted processing of ceramic matrix composite coatings. <i>Ceramics International</i> , 2020, 46, 9758-9764.	4.8	9
61	Arene-ruthenium(II)-phosphine complexes: Green catalysts for hydration of nitriles under mild conditions. <i>Inorganic Chemistry Communication</i> , 2020, 112, 107698.	3.9	9
62	Syntheses, structure and properties of cobalt-(II) and -(III) complexes of pentadentate N4S ligands with appended pyrazolyl groups: evidence for cobalt(II) dioxygen reversible binding. <i>Dalton Transactions RSC</i> , 2000, , 4677-4682.	2.3	8
63	The effect of remote substitution on the formation of preferential isomers of cobalt(III)-tetrazolato complexes by microwave assisted cycloaddition. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 599-610.	6.0	8
64	RAPTA complexes containing N-substituted Tetrazole scaffolds: Synthesis, characterization and Antiproliferative activity. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4179.	3.5	8
65	Ruthenium(II)-arene complexes containing ferrocenamide ligands: Synthesis, characterisation and antiproliferative activity against cancer cell lines. <i>Journal of Organometallic Chemistry</i> , 2020, 916, 121247.	1.8	8
66	Unveiling the urease like intrinsic catalytic activities of two dinuclear nickel complexes towards the <i>in situ</i> syntheses of aminocyanopyridines. <i>Dalton Transactions</i> , 2021, 50, 4848-4858.	3.3	7
67	Effect on catecholase activity and interaction with biomolecules of metal complexes containing differently tuned 5-substituted ancillary tetrazolato ligands. <i>Polyhedron</i> , 2017, 121, 155-171.	2.2	6
68	In vitro evaluation of cytotoxicity and antimetastatic properties of novel arene ruthenium(II) tetrazolato compounds on human cancer cell lines. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6187.	3.5	6
69	Selective anticancer activities of ruthenium(II)-tetrazole complexes and their mechanistic insights. <i>BioMetals</i> , 2021, 34, 795-812.	4.1	6
70	Synthesis of Cu(II) complexes by N-donor ligand transformation and their catalytic role in visible light driven alcohol oxidation. <i>Applied Organometallic Chemistry</i> , 2022, 36, e6450.	3.5	6
71	<i>trans</i> -Bis[5-(4-fluorophenyl)tetrazolato]bis(triphenylphosphine)platinum(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, m2656-m2656.	0.2	5
72	Coligand driven efficiency of catecholase activity and proteins binding study of redox active copper complexes. <i>Inorganica Chimica Acta</i> , 2020, 502, 119389.	2.4	4

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73	Amino Acid Derived Emerging Sensor for Detection of S ²⁺ Ion and MeOH Percentage in MeOH-H ₂ O Mixture. ChemistrySelect, 2020, 5, 12835-12842.	1.5	2
74	Coordination complexes based on 4-aminobenzonitrile with different dimensionalities. Journal of Coordination Chemistry, 2013, 66, 1602-1615.	2.2	1
75	A new approach to study of TiB ₂ -TiN-SiC based tribological coatings with solid lubrication. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	1.3	1