

Rajeev Gupta

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Molecular Assemblies Offering Hydrogen-Bonding Cavities: Influence of Macrocyclic Cavity and Hydrogen Bonding on Dye Adsorption. <i>Inorganic Chemistry</i> , 2022, 61, 3616-3630.	4.0	9
2	Turn-on fluorescent detection of nickel and zinc ions by two related chemosensors containing naphthalimide ring(s). <i>Journal of Molecular Structure</i> , 2022, 1261, 132901.	3.6	17
3	Encapsulation-Led Adsorption of Neutral Dyes and Complete Photodegradation of Cationic Dyes and Antipsychotic Drugs by Lanthanide-Based Macrocycles. <i>Inorganic Chemistry</i> , 2022, 61, 7682-7699.	4.0	12
4	Sensing and formation of a stable gel in the presence of picric acid by a low-molecular-weight-gelator. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100521.	2.8	2
5	Effect of pyridyl donors from organic ligands <i>versus</i> metalloligands on material design. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1334-1373.	6.0	18
6	Turn-on detection of assorted phosphates by luminescent chemosensors. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3587-3607.	6.0	25
7	Half-Sandwich Ruthenium Complexes of Amide-Phosphine Based Ligands: H-Bonding Cavity Assisted Binding and Reduction of Nitro-substrates. <i>Inorganic Chemistry</i> , 2021, 60, 2009-2022.	4.0	24
8	Ruthenium complexes of phosphine- <i>amide</i> based ligands as efficient catalysts for transfer hydrogenation reactions. <i>Dalton Transactions</i> , 2021, 50, 3269-3279.	3.3	13
9	Bis($\frac{1}{4}$ -thiolato)-dicopper Containing Fully Spin Delocalized Mixed Valence Copper- <i>Sulfur</i> Clusters and Their Electronic Structural Properties with Relevance to the Cu _A Site. <i>Inorganic Chemistry</i> , 2021, 60, 5779-5790.	4.0	2
10	Selective turn-on sensing of fluoroquinolone drugs by zinc complexes of amide-based ligands. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	1.5	4
11	Ruthenium complexes of N/O/S based multidentate ligands: Structural diversities and catalysis perspectives. <i>Journal of Organometallic Chemistry</i> , 2021, 954-955, 122081.	1.8	12
12	Cobalt mediated <i>N</i> -alkylation of amines by alcohols: role of hydrogen bonding pocket. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1599-1609.	6.0	20
13	Supramolecular catalysis: the role of H-bonding interactions in substrate orientation and activation. <i>Dalton Transactions</i> , 2021, 50, 14951-14966.	3.3	7
14	Selective Detection of Picric Acid and Pyrosulfate Ion by Nickel Complexes Offering a Hydrogen-Bonding-Based Cavity. <i>Inorganic Chemistry</i> , 2021, 60, 17889-17899.	4.0	18
15	Ruthenium(II) complexes of pyridine-carboxamide ligands bearing appended benzothiazole/benzimidazole rings: Structural diversity and catalysis. <i>Inorganica Chimica Acta</i> , 2020, 502, 119285.	2.4	18
16	Systematic Design of a Low-Molecular-Weight Gelator and Its Application in the Sensing and Retention of Residual Antibiotics. <i>Crystal Growth and Design</i> , 2020, 20, 6117-6128.	3.0	26
17	Detection of Al ³⁺ and Fe ³⁺ ions by nitrobenzoxadiazole bearing pyridine-2,6-dicarboxamide based chemosensors: effect of solvents on detection. <i>New Journal of Chemistry</i> , 2020, 44, 13285-13294.	2.8	23
18	Design and synthesis of new functionalized 8-(thiophen-2-yl)-1,2,3,4-tetrahydroquinolines as turn-off chemosensors for selective recognition of Pd ²⁺ ions. <i>New Journal of Chemistry</i> , 2020, 44, 15559-15566.	2.8	9

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19	Dipicolinamide and isophthalamide based fluorescent chemosensors: recognition and detection of assorted analytes. Dalton Transactions, 2020, 49, 9544-9555.	3.3	17
20	Architectural and catalytic aspects of designer materials built using metalloligands of pyridine-2,6-dicarboxamide based ligands. Dalton Transactions, 2020, 49, 14731-14748.	3.3	14
21	Turn-On Fluorescent Sensors for the Selective Detection of Al ³⁺ (and Ga ³⁺) and PPI Ions. Inorganic Chemistry, 2019, 58, 10364-10376.	4.0	86
22	Zn ²⁺ and Cd ²⁺ based Coordination Polymers Offering H ⁺ Bonding Cavities: Highly Selective Sensing of S ₂ O ₇ ²⁻ and Fe ³⁺ Ions. Chemistry - an Asian Journal, 2019, 14, 4594-4600.	3.3	20
23	Selective sensing of ATP by hydroxide-bridged dizinc(ii) complexes offering a hydrogen bonding cavity. Dalton Transactions, 2019, 48, 14737-14747.	3.3	24
24	Two Hg(II)-Based Macrocycles Offering Hydrogen Bonding Cavities: Influence of Cavity Structure on Heterogeneous Catalysis. Crystal Growth and Design, 2019, 19, 6039-6047.	3.0	14
25	Oxo-bridged trinuclear and tetranuclear manganese complexes supported with nitrogen donor ligands: syntheses, structures and properties. Dalton Transactions, 2019, 48, 7918-7927.	3.3	7
26	Postfunctionalized Metalloligand-Based Catenated Coordination Polymers: Syntheses, Structures, and Effect of Labile Sites on Catalysis. Crystal Growth and Design, 2019, 19, 2723-2735.	3.0	7
27	Fluorescence Quenching of CdTe Quantum Dots with Co (III) Complexes via Electrostatic Assembly Formation. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1413-1430.	2.8	5
28	Size-Selective Detection of Picric Acid by Fluorescent Palladium Macrocycles. Inorganic Chemistry, 2018, 57, 1693-1697.	4.0	44
29	Copper based coordination polymers based on metalloligands: utilization as heterogeneous oxidation catalysts. Dalton Transactions, 2018, 47, 16985-16994.	3.3	15
30	Polymerization led selective detection and removal of Zn ²⁺ and Cd ²⁺ ions: isolation of Zn- and Cd-MOFs and reversibility studies. Dalton Transactions, 2018, 47, 14686-14695.	3.3	21
31	A metalloligand appended with benzimidazole rings: tetranuclear [CoZn ₃] and [CoCd ₃] complexes and their catalytic applications. New Journal of Chemistry, 2018, 42, 9847-9856.	2.8	18
32	Coordination driven architectures based on metalloligands offering appended carboxylic acid groups. Journal of Chemical Sciences, 2018, 130, 1.	1.5	6
33	Ag-Based Coordination Polymers Based on Metalloligands and Their Catalytic Performance in Multicomponent A ³⁺ -Coupling Reactions. Crystal Growth and Design, 2018, 18, 5501-5511.	3.0	25
34	Detection of sulfide ion and gaseous H ₂ S using a series of pyridine-2,6-dicarboxamide based scaffolds. Dalton Transactions, 2018, 47, 9536-9545.	3.3	30
35	Selective fluorescent turn-off sensing of Pd ²⁺ ion: applications as paper strips, polystyrene films, and in cell imaging. RSC Advances, 2017, 7, 7734-7741.	3.6	46
36	Hydroxide-bridged dicopper complexes: the influence of secondary coordination sphere on structure and catecholase activity. Dalton Transactions, 2017, 46, 4617-4627.	3.3	28

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37	Fluorescent detection of multiple ions by two related chemosensors: structural elucidations and logic gate applications. <i>RSC Advances</i> , 2017, 7, 23127-23135.	3.6	21
38	Lanthanide-Based Coordination Polymers for the Size-Selective Detection of Nitroaromatics. <i>Crystal Growth and Design</i> , 2017, 17, 3907-3916.	3.0	45
39	Cobalt complexes of pyrrolecarboxamide ligands as catalysts in nitro reduction reactions: influence of electronic substituents on catalysis and mechanistic insights. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 324-335.	6.0	15
40	Carbon-sulphur cross coupling reactions catalyzed by nickel-based coordination polymers based on metalloligands. <i>Dalton Transactions</i> , 2017, 46, 15023-15031.	3.3	19
41	Cobalt Complexes Catalyze Reduction of Nitro Compounds: Mechanistic Studies. <i>ChemistrySelect</i> , 2017, 2, 8197-8206.	1.5	14
42	Detection of the anticoagulant drug warfarin by palladium complexes. <i>Dalton Transactions</i> , 2017, 46, 10205-10209.	3.3	21
43	Cobalt Complexes Offering Aryldicarboxylic Acid Groups: Hydrogen Bonding Assemblies and the Resultant Topologies. <i>ChemistrySelect</i> , 2016, 1, 6167-6178.	1.5	4
44	A Carboxylate-Rich Metalloligand and Its Heterometallic Coordination Polymers: Syntheses, Structures, Topologies, and Heterogeneous Catalysis. <i>Crystal Growth and Design</i> , 2016, 16, 2874-2886.	3.0	37
45	Metalloligands to material: design strategies and network topologies. <i>CrystEngComm</i> , 2016, 18, 9185-9208.	2.6	33
46	The wonderful world of pyridine-2,6-dicarboxamide based scaffolds. <i>Dalton Transactions</i> , 2016, 45, 18769-18783.	3.3	51
47	Lanthanide-based coordination polymers as promising heterogeneous catalysts for ring-opening reactions. <i>RSC Advances</i> , 2016, 6, 21352-21361.	3.6	32
48	Chemosensors containing appended benzothiazole group(s): selective binding of Cu ²⁺ and Zn ²⁺ ions by two related receptors. <i>Dalton Transactions</i> , 2016, 45, 502-507.	3.3	56
49	Manganese Complexes of Pyrrole- and Indolecarboxamide Ligands: Synthesis, Structure, Electrochemistry, and Applications in Oxidative and Lewis Acid-Assisted Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5534-5544.	2.0	9
50	A Metalloligand Appended with Thiazole Rings: Heterometallic {Co ³⁺ @Zn ²⁺ } and {Co ³⁺ @Cd ²⁺ } Complexes and Their Heterogeneous Catalytic Applications. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 1022-1032.	2.0	21
51	Pd(<i>scp</i>) complexes with amide-based macrocycles: syntheses, properties and applications in cross-coupling reactions. <i>New Journal of Chemistry</i> , 2015, 39, 2042-2051.	2.8	22
52	Manganese- and Cobalt-Based Coordination Networks as Promising Heterogeneous Catalysts for Olefin Epoxidation Reactions. <i>Inorganic Chemistry</i> , 2015, 54, 2603-2615.	4.0	33
53	Three-Dimensional Heterometallic Coordination Networks: Syntheses, Crystal Structures, Topologies, and Heterogeneous Catalysis. <i>Crystal Growth and Design</i> , 2015, 15, 4110-4122.	3.0	23
54	Trinuclear {Co ²⁺ @M ³⁺ @Co ²⁺ } complexes catalyze reduction of nitro compounds. <i>Dalton Transactions</i> , 2015, 44, 17453-17461.	3.3	26

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55	Heterometallic coordination polymers: syntheses, structures and heterogeneous catalytic applications. <i>New Journal of Chemistry</i> , 2015, 39, 9772-9781.	2.8	28
56	Probing the Mechanism of Fluorescence Quenching of QDs by Co(III)-Complexes: Size of QD and Nature of the Complex Both Dictate Energy and Electron Transfer Processes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22690-22699.	3.1	52
57	Arene-based fluorescent probes for the selective detection of iron. <i>RSC Advances</i> , 2015, 5, 97874-97882.	3.6	68
58	Asymmetrical metalloligands based {Co ³⁺ -Cd ²⁺ } and {Co ³⁺ -Ag ⁺ } coordination polymers: Syntheses and characterization. <i>Inorganica Chimica Acta</i> , 2015, 425, 260-268.	2.4	14
59	Endogenous and Exogenous Ligand-Dependent Formation of a Superoxide-Bridged Dicobalt(III) Complex and Mononuclear Co ^{III} Complexes with Amide-Based Macrocyclic Ligands. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5567-5576.	2.0	8
60	Synthesis, characterization and self-assembly of Co ³⁺ complexes appended with phenol and catechol groups. <i>Journal of Chemical Sciences</i> , 2014, 126, 1535-1546.	1.5	12
61	{Cu ²⁺ -Co ³⁺ -Cu ²⁺ } and {Cu ²⁺ -Fe ³⁺ -Cu ²⁺ } Heterobimetallic Complexes and Their Catalytic Properties. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2113-2123.	2.0	32
62	Nickel and Copper Complexes of Pyrrolicarboxamide Ligands - Stabilization of M ³⁺ Species and Isolation of Ni ³⁺ Complexes. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 4957-4965.	2.0	15
63	Syntheses, characterization, and anti-cancer activities of pyridine-amide based compounds containing appended phenol or catechol groups. <i>Journal of Chemical Sciences</i> , 2014, 126, 1091-1105.	1.5	24
64	Two-Dimensional {Co ³⁺ -Co ²⁺ } and {Fe ³⁺ -Co ²⁺ } Networks and Their Heterogeneous Catalytic Activities. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 4966-4974.	2.0	23
65	Supramolecular architectures with pyridine-amide based ligands: discrete molecular assemblies and their applications. <i>Dalton Transactions</i> , 2014, 43, 7668-7682.	3.3	70
66	Mononuclear complexes of amide-based ligands containing appended functional groups: role of secondary coordination spheres on catalysis. <i>Dalton Transactions</i> , 2014, 43, 14865-14875.	3.3	38
67	Molecularly designed architectures - the metalloligand way. <i>Chemical Society Reviews</i> , 2013, 42, 9403.	38.1	218
68	Three-Dimensional {Co ³⁺ -Zn ²⁺ } and {Co ³⁺ -Cd ²⁺ } Networks Originated from Carboxylate-rich Building Blocks: Syntheses, Structures, and Heterogeneous Catalysis. <i>Inorganic Chemistry</i> , 2013, 52, 10773-10787.	4.0	66
69	Cobalt Complexes Appended with <i>para</i> - and <i>meta</i> -Arylcarboxylic Acids: Influence of Cation, Solvent, and Symmetry on Hydrogen-Bonded Assemblies. <i>Crystal Growth and Design</i> , 2013, 13, 74-90.	3.0	34
70	Co ³⁺ -Based Building Blocks with Appended Phenol and Catechol Groups: Examples of Placing Hydrogen-Bond Donors and Acceptors in a Single Molecule. <i>Crystal Growth and Design</i> , 2012, 12, 1308-1319.	3.0	49
71	A novel Co ³⁺ -based asymmetrical building block: Heterobimetallic metallacycles versus coordination networks. <i>Inorganic Chemistry Communication</i> , 2012, 23, 103-108.	3.9	22
72	Synthesis and Properties of Dinuclear μ_4 -Oxodiiron(III) Complexes of Amide-Based Macrocyclic Ligands. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5525-5533.	2.0	7

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73	Cobalt Complexes Appended with <i>p</i> - and <i>m</i> -Carboxylates: Two Unique {Co ³⁺ â€“Cd ²⁺ } Networks and Their Regioselective and Size-Selective Heterogeneous Catalysis. <i>Inorganic Chemistry</i> , 2012, 51, 5497-5499.	4.0	49
74	Two-dimensional {Co ³⁺ â€“Zn ²⁺ } and {Co ³⁺ â€“Cd ²⁺ } networks and their applications in heterogeneous and solvent-free ring opening reactions. <i>Dalton Transactions</i> , 2011, 40, 12454.	3.3	43
75	Lewis acidic metal catalysed organic transformations by designed multi-component structures and assemblies. <i>Journal of Chemical Sciences</i> , 2010, 122, 311-320.	1.5	12
76	The Effect of Ligand Architecture on the Structure and Properties of Nickel and Copper Complexes of Amide-Based Macrocycles. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 621-636.	2.0	19
77	Copper(I) in the Cleft: Syntheses, Structures and Catalytic Properties of {Cu ⁺ -Co ³⁺ -Cu ⁺ } and {Cu ⁺ -Fe ³⁺ -Cu ⁺ } Heterobimetallic Complexes. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4546-4554.	2.0	42
78	Synthesis, Structures, and Heterogeneous Catalytic Applications of {Co ³⁺ â€“Eu ³⁺ } and {Co ³⁺ â€“Tb ³⁺ } Heterodimetallic Coordination Polymers. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 5103-5112.	2.0	48
79	Cobalt complexes as the building blocks: {Co ³⁺ â€“Zn ²⁺ } heterobimetallic networks and their properties. <i>Dalton Transactions</i> , 2010, 39, 8135.	3.3	56
80	Mononuclear and Dinuclear Ni(II) Complexes with a Pyrrolicarboxamide Ligand: Core Conversions and Unusual Presence of a Dimer and Two Monomers in the Same Unit Cell. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3259-3265.	2.0	14
81	Cobalt Complex as Building Blocks: Synthesis, Characterization, and Catalytic Applications of {Cd ²⁺ â€“Co ³⁺ â€“Cd ²⁺ } and {Hg ²⁺ â€“Co ³⁺ â€“Hg ²⁺ } Heterobimetallic Complexes. <i>Inorganic Chemistry</i> , 2009, 48, 5234-5243.	4.0	65
82	Studies on Nickel(II) Complexes with Amide-Based Ligands: Syntheses, Structures, Electrochemistry and Oxidation Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2052-2063.	2.0	29
83	Synthesis, characterization and antibacterial activity of cobalt(III) complexes with pyridineâ€“amide ligands. <i>European Journal of Medicinal Chemistry</i> , 2008, 43, 2189-2196.	5.5	114
84	Cobalt Coordination Induced Functionalized Molecular Clefts: Isolation of {Co(III)â€“Zn(II)} Heterometallic Complexes and Their Applications in Beckmann Rearrangement Reactions. <i>Inorganic Chemistry</i> , 2008, 47, 154-161.	4.0	91
85	Effect of Ligand Architecture on the Structure and Properties of Square-Planar Nickel(II) Complexes of Amide-Based Macrocycles. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 3247-3259.	2.0	25
86	Monomeric Mn(III)/Ni(II) and Fe(III)/Ni(II) Complexes with Terminal Hydroxo and Oxo Ligands: Probing Reactivity via Oâ€“H Bond Dissociation Energies. <i>Journal of the American Chemical Society</i> , 2003, 125, 13234-13242.	13.7	159
87	Isolation of Monomeric Mn(III)/Ni(II)â€“OH and Mn(III)/Ni(II)â€“O Complexes from Water: Evaluation of Oâ€“H Bond Dissociation Energies. <i>Journal of the American Chemical Society</i> , 2002, 124, 1136-1137.	13.7	81
88	Synthesis and Characterization of Completely Delocalized Mixed-Valent Dicopper Complexes. <i>Inorganic Chemistry</i> , 2002, 41, 5100-5106.	4.0	63
89	Tailored Inorganicâ€“Organic Architectures via Metalloligands. <i>Chemical Record</i> , 0, , .	5.8	1