Rajeev Gupta

List of Publications by Year in descending order

89 papers	2,859 citations	159585 30 h-index	206112 48 g-index
89 all docs	89 docs citations	89 times ranked	2447 citing authors

#	Article	IF	Citations
1	Molecularly designed architectures â€“ the metalloligand way. Chemical Society Reviews, 2013, 42, 9403.	38.1	218
2	Monomeric MnIII/IIand FeIII/IIComplexes with Terminal Hydroxo and Oxo Ligands:Â Probing Reactivity via Oâ^'H Bond Dissociation Energies. Journal of the American Chemical Society, 2003, 125, 13234-13242.	13.7	159
3	Synthesis, characterization and antibacterial activity of cobalt(III) complexes with pyridineâ€“amide ligands. European Journal of Medicinal Chemistry, 2008, 43, 2189-2196.	5.5	114
4	Cobalt Coordination Induced Functionalized Molecular Clefts:â€‰ Isolation of {CoIIIâ^'ZnII} Heterometallic Complexes and Their Applications in Beckmann Rearrangement Reactions. Inorganic Chemistry, 2008, 47, 154-161.	4.0	91
5	Turn-On Fluorescent Sensors for the Selective Detection of Al³⁺ (and Ga³⁺) and PPi Ions. Inorganic Chemistry, 2019, 58, 10364-10376.	4.0	86
6	Isolation of Monomeric MnIII/IIâ^'OH and MnIIIâ^'O Complexes from Water:Â Evaluation of Oâ^'H Bond Dissociation Energies. Journal of the American Chemical Society, 2002, 124, 1136-1137.	13.7	81
7	Supramolecular architectures with pyridine-amide based ligands: discrete molecular assemblies and their applications. Dalton Transactions, 2014, 43, 7668-7682.	3.3	70
8	Arene-based fluorescent probes for the selective detection of iron. RSC Advances, 2015, 5, 97874-97882.	3.6	68
9	Three-Dimensional {Co³⁺â€“Zn²⁺} and {Co³⁺â€“Cd²⁺} Networks Originated from Carboxylate-rich Building Blocks: Syntheses, Structures, and Heterogeneous Catalysis. Inorganic Chemistry, 2013, 52, 10773-10787.	4.0	66
10	Cobalt Complex as Building Blocks: Synthesis, Characterization, and Catalytic Applications of {Cd2+â^'Co3+â^'Cd2+} and {Hg2+â^'Co3+â^'Hg2+} Heterobimetallic Complexes. Inorganic Chemistry, 2009, 48, 5234-5243.	4.0	65
11	Synthesis and Characterization of Completely Delocalized Mixed-Valent Dicopper Complexes. Inorganic Chemistry, 2002, 41, 5100-5106.	4.0	63
12	Cobalt complexes as the building blocks: {Co3+â€“Zn2+} heterobimetallic networks and their properties. Dalton Transactions, 2010, 39, 8135.	3.3	56
13	Chemosensors containing appended benzothiazole group(s): selective binding of Cu²⁺and Zn²⁺ions by two related receptors. Dalton Transactions, 2016, 45, 502-507.	3.3	56
14	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. Journal of Physical Chemistry C, 2015, 119, 22690-22699.	3.1	52
15	The wonderful world of pyridine-2,6-dicarboxamide based scaffolds. Dalton Transactions, 2016, 45, 18769-18783.	3.3	51
16	Co3+-Based Building Blocks with Appended Phenol and Catechol Groups: Examples of Placing Hydrogen-Bond Donors and Acceptors in a Single Molecule. Crystal Growth and Design, 2012, 12, 1308-1319.	3.0	49
17	Cobalt Complexes Appended with p- and m-Carboxylates: Two Unique {Co³⁺â€“Cd²⁺} Networks and Their Regioselective and Size-Selective Heterogeneous Catalysis. Inorganic Chemistry, 2012, 51, 5497-5499.	4.0	49
18	Synthesis, Structures, and Heterogeneous Catalytic Applications of {Co³⁺â€“Eu³⁺} and {Co³⁺â€“Tb³⁺} Heterodimetallic Coordination Polymers. European Journal of Inorganic Chemistry, 2010, 2010, 5103-5112.	2.0	48

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19	Selective fluorescent turn-off sensing of Pd²⁺ ion: applications as paper strips, polystyrene films, and in cell imaging. RSC Advances, 2017, 7, 7734-7741.	3.6	46
20	Lanthanide-Based Coordination Polymers for the Size-Selective Detection of Nitroaromatics. Crystal Growth and Design, 2017, 17, 3907-3916.	3.0	45
21	Size-Selective Detection of Picric Acid by Fluorescent Palladium Macrocycles. Inorganic Chemistry, 2018, 57, 1693-1697.	4.0	44
22	Two-dimensional {Co3+â€“Zn2+} and {Co3+â€“Cd2+} networks and their applications in heterogeneous and solvent-free ring opening reactions. Dalton Transactions, 2011, 40, 12454.	3.3	43
23	Copper(I) in the Cleft: Syntheses, Structures and Catalytic Properties of {Cu+-Co3+-Cu+} and {Cu+-Fe3+-Cu+} Heterobimetallic Complexes. European Journal of Inorganic Chemistry, 2010, 2010, 4546-4554.	2.0	42
24	Mononuclear complexes of amide-based ligands containing appended functional groups: role of secondary coordination spheres on catalysis. Dalton Transactions, 2014, 43, 14865-14875.	3.3	38
25	A Carboxylate-Rich Metalloligand and Its Heterometallic Coordination Polymers: Syntheses, Structures, Topologies, and Heterogeneous Catalysis. Crystal Growth and Design, 2016, 16, 2874-2886.	3.0	37
26	Cobalt Complexes Appended with para- and meta-Arylcarboxylic Acids: Influence of Cation, Solvent, and Symmetry on Hydrogen-Bonded Assemblies. Crystal Growth and Design, 2013, 13, 74-90.	3.0	34
27	Manganese- and Cobalt-Based Coordination Networks as Promising Heterogeneous Catalysts for Olefin Epoxidation Reactions. Inorganic Chemistry, 2015, 54, 2603-2615.	4.0	33
28	Metalloligands to material: design strategies and network topologies. CrystEngComm, 2016, 18, 9185-9208.	2.6	33
29	{Cu2+-Co3+-Cu2+} and {Cu2+-Fe3+-Cu2+} Heterobimetallic Complexes and Their Catalytic Properties. European Journal of Inorganic Chemistry, 2014, 2014, 2113-2123.	2.0	32
30	Lanthanide-based coordination polymers as promising heterogeneous catalysts for ring-opening reactions. RSC Advances, 2016, 6, 21352-21361.	3.6	32
31	Detection of sulfide ion and gaseous H₂S using a series of pyridine-2,6-dicarboxamide based scaffolds. Dalton Transactions, 2018, 47, 9536-9545.	3.3	30
32	Studies on Nickel(II) Complexes with Amideâ€Based Ligands: Syntheses, Structures, Electrochemistry and Oxidation Chemistry. European Journal of Inorganic Chemistry, 2008, 2008, 2052-2063.	2.0	29
33	Heterometallic coordination polymers: syntheses, structures and heterogeneous catalytic applications. New Journal of Chemistry, 2015, 39, 9772-9781.	2.8	28
34	Hydroxide-bridged dicopper complexes: the influence of secondary coordination sphere on structure and catecholase activity. Dalton Transactions, 2017, 46, 4617-4627.	3.3	28
35	Trinuclear {Co²⁺â€“M³⁺â€“Co²⁺} complexes catalyze reduction of nitro compounds. Dalton Transactions, 2015, 44, 17453-17461.	3.3	26
36	Systematic Design of a Low-Molecular-Weight Gelator and Its Application in the Sensing and Retention of Residual Antibiotics. Crystal Growth and Design, 2020, 20, 6117-6128.	3.0	26

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37	Effect of Ligand Architecture on the Structure and Properties of Square-Planar Nickel(II) Complexes of Amide-Based Macrocycles. European Journal of Inorganic Chemistry, 2007, 2007, 3247-3259.	2.0	25
38	Ag-Based Coordination Polymers Based on Metalloligands and Their Catalytic Performance in Multicomponent A³-Coupling Reactions. Crystal Growth and Design, 2018, 18, 5501-5511.	3.0	25
39	Turn-on detection of assorted phosphates by luminescent chemosensors. Inorganic Chemistry Frontiers, 2021, 8, 3587-3607.	6.0	25
40	Syntheses, characterization, and anti-cancer activities of pyridine-amide based compounds containing appended phenol or catechol groups. Journal of Chemical Sciences, 2014, 126, 1091-1105.	1.5	24
41	Selective sensing of ATP by hydroxide-bridged dizinc(ii) complexes offering a hydrogen bonding cavity. Dalton Transactions, 2019, 48, 14737-14747.	3.3	24
42	Half-Sandwich Ruthenium Complexes of Amide-Phosphine Based Ligands: H-Bonding Cavity Assisted Binding and Reduction of Nitro-substrates. Inorganic Chemistry, 2021, 60, 2009-2022.	4.0	24
43	Two-Dimensional {Co3+-Co2+} and {Fe3+-Co2+} Networks and Their Heterogeneous Catalytic Activities. European Journal of Inorganic Chemistry, 2014, 2014, 4966-4974.	2.0	23
44	Three-Dimensional Heterometallic Coordination Networks: Syntheses, Crystal Structures, Topologies, and Heterogeneous Catalysis. Crystal Growth and Design, 2015, 15, 4110-4122.	3.0	23
45	Detection of Al³⁺ and Fe³⁺ ions by nitrobenzoxadiazole bearing pyridine-2,6-dicarboxamide based chemosensors: effect of solvents on detection. New Journal of Chemistry, 2020, 44, 13285-13294.	2.8	23
46	A novel Co3+-based asymmetrical building block: Heterobimetallic metallacycles versus coordination networks. Inorganic Chemistry Communication, 2012, 23, 103-108.	3.9	22
47	Pd(<scp>ii</scp>) complexes with amide-based macrocycles: syntheses, properties and applications in cross-coupling reactions. New Journal of Chemistry, 2015, 39, 2042-2051.	2.8	22
48	A Metalloligand Appended with Thiazole Rings: Heterometallic {Co³⁺â€“Zn²⁺} and {Co³⁺â€“Cd²⁺} Complexes and Their Heterogeneous Catalytic Applications. European Journal of Inorganic Chemistry, 2015, 2015, 1022-1032.	2.0	21
49	Fluorescent detection of multiple ions by two related chemosensors: structural elucidations and logic gate applications. RSC Advances, 2017, 7, 23127-23135.	3.6	21
50	Detection of the anticoagulant drug warfarin by palladium complexes. Dalton Transactions, 2017, 46, 10205-10209.	3.3	21
51	Polymerization led selective detection and removal of Zn²⁺and Cd²⁺ions: isolation of Zn- and Cd-MOFs and reversibility studies. Dalton Transactions, 2018, 47, 14686-14695.	3.3	21
52	Znâ€•and Cdâ€based Coordination Polymers Offering Hâ€Bonding Cavities: Highly Selective Sensing of S₂O₇^{2â^’} and Fe³⁺ Ions. Chemistry - an Asian Journal, 2019, 14, 4594-4600.	3.3	20
53	Cobalt mediated N-alkylation of amines by alcohols: role of hydrogen bonding pocket. Inorganic Chemistry Frontiers, 2021, 8, 1599-1609.	6.0	20
54	The Effect of Ligand Architecture on the Structure and Properties of Nickel and Copper Complexes of Amideâ€Based Macrocycles. European Journal of Inorganic Chemistry, 2010, 2010, 621-636.	2.0	19

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55	Carbon-sulphur cross coupling reactions catalyzed by nickel-based coordination polymers based on metalloligands. Dalton Transactions, 2017, 46, 15023-15031.	3.3	19
56	A metalloligand appended with benzimidazole rings: tetranuclear [CoZn₃] and [CoCd₃] complexes and their catalytic applications. New Journal of Chemistry, 2018, 42, 9847-9856.	2.8	18
57	Ruthenium(II) complexes of pyridine-carboxamide ligands bearing appended benzothiazole/benzimidazole rings: Structural diversity and catalysis. Inorganica Chimica Acta, 2020, 502, 119285.	2.4	18
58	Effect of pyridyl donors from organic ligands versus metalloligands on material design. Inorganic Chemistry Frontiers, 2021, 8, 1334-1373.	6.0	18
59	Selective Detection of Picric Acid and Pyrosulfate Ion by Nickel Complexes Offering a Hydrogen-Bonding-Based Cavity. Inorganic Chemistry, 2021, 60, 17889-17899.	4.0	18
60	Dipicolinamide and isophthalamide based fluorescent chemosensors: recognition and detection of assorted analytes. Dalton Transactions, 2020, 49, 9544-9555.	3.3	17
61	Turn-on fluorescent detection of nickel and zinc ions by two related chemosensors containing naphthalimide ring(s). Journal of Molecular Structure, 2022, 1261, 132901.	3.6	17
62	Nickel and Copper Complexes of Pyrrolecarboxamide Ligands â€“ Stabilization of M³⁺ Species and Isolation of Ni³⁺ Complexes. European Journal of Inorganic Chemistry, 2014, 2014, 4957-4965.	2.0	15
63	Cobalt complexes of pyrrolecarboxamide ligands as catalysts in nitro reduction reactions: influence of electronic substituents on catalysis and mechanistic insights. Inorganic Chemistry Frontiers, 2017, 4, 324-335.	6.0	15
64	Copper based coordination polymers based on metalloligands: utilization as heterogeneous oxidation catalysts. Dalton Transactions, 2018, 47, 16985-16994.	3.3	15
65	Mononuclear and Dinuclear Nilland CuIIComplexes with a Pyrrolecarboxamide Ligand: Core Conversions and Unusual Presence of a Dimer and Two Monomers in the Same Unit Cell. European Journal of Inorganic Chemistry, 2009, 2009, 3259-3265.	2.0	14
66	Asymmetrical metalloligands based {Co3+â€“Cd2+} and {Co3+â€“Ag+} coordination polymers: Syntheses and characterization. Inorganica Chimica Acta, 2015, 425, 260-268.	2.4	14
67	Cobalt Complexes Catalyze Reduction of Nitro Compounds: Mechanistic Studies. ChemistrySelect, 2017, 2, 8197-8206.	1.5	14
68	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
69	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
70	Ruthenium complexes of phosphineâ€“amide based ligands as efficient catalysts for transfer hydrogenation reactions. Dalton Transactions, 2021, 50, 3269-3279.	3.3	13
71	Lewis acidic metal catalysed organic transformations by designed multi-component structures and assemblies. Journal of Chemical Sciences, 2010, 122, 311-320.	1.5	12
72	Synthesis, characterization and self-assembly of Co3+ complexes appended with phenol and catechol groups. Journal of Chemical Sciences, 2014, 126, 1535-1546.	1.5	12

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73	Ruthenium complexes of N/O/S based multidentate ligands: Structural diversities and catalysis perspectives. Journal of Organometallic Chemistry, 2021, 954-955, 122081.	1.8	12
74	Encapsulation-Led Adsorption of Neutral Dyes and Complete Photodegradation of Cationic Dyes and Antipsychotic Drugs by Lanthanide-Based Macrocycles. Inorganic Chemistry, 2022, 61, 7682-7699.	4.0	12
75	Manganese Complexes of Pyrroleâ€•and ÂIndolecarboxamide Ligands: Synthesis, Structure, Electrochemistry, and Applications in Oxidative and Lewisâ€Acidâ€ÂAssisted Catalysis. European Journal of Inorganic Chemistry, 2015, 2015, 5534-5544.	2.0	9
76	Design and synthesis of new functionalized 8-(thiophen-2-yl)-1,2,3,4-tetrahydroquinolines as turn-off chemosensors for selective recognition of Pd²⁺ions. New Journal of Chemistry, 2020, 44, 15559-15566.	2.8	9
77	Molecular Assemblies Offering Hydrogen-Bonding Cavities: Influence of Macrocyclic Cavity and Hydrogen Bonding on Dye Adsorption. Inorganic Chemistry, 2022, 61, 3616-3630.	4.0	9
78	Endogenous and Exogenous Ligandâ€Đependent Formation of a Superoxideâ€Bridged Dicobalt(III) Complex and Mononuclear Co^{III} Complexes with Amideâ€Based Macrocyclic Ligands. European Journal of Inorganic Chemistry, 2014, 2014, 5567-5576.	2.0	8
79	Synthesis and Properties of Dinuclear Î¼â€Oxodiiron(III) Complexes of Amideâ€Based Macrocyclic Ligands. European Journal of Inorganic Chemistry, 2012, 2012, 5525-5533.	2.0	7
80	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
81	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
82	Supramolecular catalysis: the role of H-bonding interactions in substrate orientation and activation. Dalton Transactions, 2021, 50, 14951-14966.	3.3	7
83	Coordination driven architectures based on metalloligands offering appended carboxylic acid groups. Journal of Chemical Sciences, 2018, 130, 1.	1.5	6
84	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
85	Cobalt Complexes Offering Aryldicarboxylic Acid Groups: Hydrogen Bonding Assemblies and the Resultant Topologies. ChemistrySelect, 2016, 1, 6167-6178.	1.5	4
86	Selective turn-on sensing of fluoroquinolone drugs by zinc complexes of amide-based ligands. Journal of Chemical Sciences, 2021, 133, 1.	1.5	4
87	Bis(Î¼-thiolato)-dicopper Containing Fully Spin Delocalized Mixed Valence Copperâ€“Sulfur Clusters and Their Electronic Structural Properties with Relevance to the Cu_A Site. Inorganic Chemistry, 2021, 60, 5779-5790.	4.0	2
88	Sensing and formation of a stable gel in the presence of picric acid by a low-molecular-weight-gelator. Journal of the Indian Chemical Society, 2022, 99, 100521.	2.8	2
89	Tailored Inorganicâ€Organic Architectures via Metalloligands. Chemical Record, 0, , .	5.8	1