

Mrinalini G Walawalkar

List of Publications by Year in descending order

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55
docs citations

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times ranked

1645
citing authors

#	ARTICLE	IF	CITATIONS
1	Boron: the first p-block element to fix inert N ₂ all the way to NH ₃ . Dalton Transactions, 2021, 50, 460-465.	1.6	8
2	Multifunctionality-assisted supramolecular architecture formation in tert-butyl phosphonic acid adducts with cytosine and adenine. Emergent Materials, 2021, 4, 597-606.	3.2	2
3	The Redox Journey of Iconic Ferrocene: Ferrocenium Dications and Ferrocenate Anions. Angewandte Chemie - International Edition, 2021, 60, 12632-12635.	7.2	17
4	The Redox Journey of Iconic Ferrocene: Ferrocenium Dications and Ferrocenate Anions. Angewandte Chemie, 2021, 133, 12740-12743.	1.6	4
5	Ultra-sensitive gas phase detection of 2,4,6-trinitrotoluene by non-covalently functionalized graphene field effect transistors. Analyst, The, 2020, 145, 917-928.	1.7	13
6	Enhancing the barrier height for Yb(iii) single-ion magnets by modulating axial ligand fields. Chemical Communications, 2020, 56, 11879-11882.	2.2	7
7	Soluble aluminum hydrides function as catalysts in deprotonation, insertion, and activation reactions. Coordination Chemistry Reviews, 2017, 350, 14-29.	9.5	93
8	Alkyl-Chain-Separated Triphenylbenzene-Carbazole Conjugates and their Derived Polymers: Candidates for Sensory, Electrical and Optical Materials. ChemistrySelect, 2016, 1, 6649-6657.	0.7	10
9	Porphyrin induced changes in charge transport of graphene FET. , 2016, , .		4
10	Containment of Polynitroaromatic Compounds in a Hydrogen Bonded Triarylbenzene Host. Crystal Growth and Design, 2014, 14, 5668-5673.	1.4	21
11	Selective fluorescence sensing of polynitroaromatic explosives using triaminophenylbenzene scaffolds. Physical Chemistry Chemical Physics, 2014, 16, 10651-10658.	1.3	64
12	Ab Initio Chemical Synthesis of Designer Metal Phosphate Frameworks at Ambient Conditions. Inorganic Chemistry, 2014, 53, 8959-8969.	1.9	32
13	Mono and dinuclear group 12 phosphonates derived from a sterically encumbered phosphonic acid: Observation of esterification. Inorganica Chimica Acta, 2013, 405, 147-154.	1.2	6
14	Reactions of [(Me ₃ Si) ₃ CAI Me ₂] with substituted benzoic acids. Isolation of a rare organoalumoxane carboxylate. Journal of Organometallic Chemistry, 2011, 696, 3155-3161.	0.8	16
15	Synthesis and structural characterization of dinuclear complexes of trivalent aluminum, gallium, indium and chromium derived from pyrazole-2-ethanol. Inorganica Chimica Acta, 2011, 377, 105-110.	1.2	15
16	Chemical Vapor Deposition Precursors for High Dielectric Oxides: Zirconium and Hafnium Oxide. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2009, 39, 331-340.	0.6	3
17	Hydroxy-phenyl Zn(II) porphyrin self-assembled monolayer as a diffusion barrier for copper-low k interconnect technology. , 2009, , .		4
18	Structural Diversity in Zinc Phosphates and Phosphinates: Observation of a Lattice Water Dimer Sandwiched Between Phosphoryl Oxygen Atoms. European Journal of Inorganic Chemistry, 2008, 2008, 1834-1845.	1.0	32

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19	A Double Helix Is the Repeating Unit in a Luminescent Calcium 5-Aminoisophthalate Supramolecular Edifice with Water-Filled Hexagonal Channels. <i>Inorganic Chemistry</i> , 2007, 46, 6828-6830.	1.9	38
20	First Examples of Metal Cyclohexylphosphonates: Influence of the Choice of Synthetic Route on the Product. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2806-2811.	0.6	8
21	Polyhedral Ferrous and Ferric Siloxanes. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3832-3835.	7.2	64
22	Stabilization of p-Block Organoelement Terminal Hydroxides, Thiols, and Selenols Requires Newer Synthetic Strategies. <i>ChemInform</i> , 2004, 35, no.	0.1	0
23	Stabilization of p-Block Organoelement Terminal Hydroxides, Thiols, and Selenols Requires Newer Synthetic Strategies. <i>Chemistry - A European Journal</i> , 2004, 10, 324-331.	1.7	22
24	Molecular zinc phosphonates: synthesis and X-ray crystal structures of $[(ZnMe)_4(THF)_2]\{tBuPO_3\}_2$ and $[(ZnEt)_3(Zn(THF))_3]\{tBuPO_3\}_4\{1/4-OEt\}$. <i>Dalton Transactions</i> , 2004, , 1271-1275.	1.6	44
25	Monomeric, Tetrameric, and Polymeric Copper Di-tert-butyl Phosphate Complexes Containing Pyridine Ancillary Ligands. <i>Inorganic Chemistry</i> , 2004, 43, 945-953.	1.9	63
26	A Nanoscopic Molecular Cadmium Phosphonate Wrapped in a Hydrocarbon Sheath. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4482-4485.	7.2	56
27	Icarus and sun, not only in mythology but also in the laboratory!. <i>Journal of Chemical Education</i> , 2001, 78, 912.	1.1	1
28	Di-tert-butyl Phosphate Complexes of Cobalt(II) and Zinc(II) as Precursors for Ceramic $M(PO_3)_2$ and $M_2P_2O_7$ Materials: A Synthesis, Spectral Characterization, Structural Studies, and Role of Auxiliary Ligands. <i>Inorganic Chemistry</i> , 2001, 40, 427-434.	1.9	89
29	Synthesis and Structure of a Novel Lithium Gallosiloxane Containing a $Ga_4Si_4O_8$ Macrocycle Analogous to the S8R Building Unit of Zeolites. <i>Organometallics</i> , 2001, 20, 2639-2642.	1.1	28
30	Is Water a Friend or Foe in Organometallic Chemistry? The Case of Group 13 Organometallic Compounds. <i>Accounts of Chemical Research</i> , 2001, 34, 201-211.	7.6	120
31	Synthesis and Structure of the First Soluble Ternary Metal Amide~Imide Compounds with an $M_2Al_2Si_2N_6$ Core (M = Li, Na). <i>Organometallics</i> , 2001, 20, 790-793.	1.1	8
32	Organic Soluble Silicophosphonate $[RSi(OH)\{OP(O)(H)(OH)\}]_2O$ (R = (2,6-i-Pr ₂ C ₆ H ₃)NSiMe ₃): The First Silicophosphonate Containing Free Si~OH and P~OH Groups. <i>Inorganic Chemistry</i> , 2001, 40, 1084-1085.	1.9	18
33	Ruthenium-mediated selective cleavage of nitrogen~carbon bond of the diimine function. Synthesis, spectroscopic and redox properties of the complexes $[Ru(L)_2\{\hat{a}^{\sim}OC_6H_4C(CH_3)\tilde{r}\dots Ni-H\}][ClO_4]$ (L=2,2~bipyridine and 1,10-phenanthroline) and the crystal structure of the bipyridine derivative. <i>Polyhedron</i> , 2001, 20, 1851-1858.	1.0	6
34	Osmium dithiophosphates. Synthesis, X-ray crystal structure, spectroscopic and electrochemical properties. <i>Polyhedron</i> , 2001, 20, 245-252.	1.0	5
35	SYNTHESIS AND CHARACTERIZATION OF NEW (CHLORO)AMINOSILANES: X-RAY CRYSTAL STRUCTURE OF $[(2,6-Me_2C_6H_3NH)_2SiCl_2]$. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2001, 174, 229-238.	0.8	4
36	Ruthenium dithiophosphates: synthesis, X-ray crystal structure, spectroscopic and electrochemical properties. <i>Polyhedron</i> , 2000, 19, 801-808.	1.0	14

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37	Synthesis, Spectral Characterization, and Structural Studies of 2-Aminobenzoate Complexes of Divalent Alkaline Earth Metal Ions: X-ray Crystal Structures of $[\text{Ca}(\text{2-aba})_2(\text{OH})_2] \cdot \text{H}_2\text{O}$, $[\text{Sr}(\text{2-aba})_2(\text{OH})_2] \cdot \text{H}_2\text{O}$, and $[\text{Ba}(\text{2-aba})_2(\text{OH})_2] \cdot \text{H}_2\text{O}$ ($\text{2-abaH} = \text{2-NH}_2\text{C}_6\text{H}_4\text{COOH}$). <i>Inorganic Chemistry</i> , 2000, 39, 1381-1390.	1.9	100
38	Ruthenium terpyridine complexes incorporating azo-imine based ancillary ligands. Synthesis, crystal structure, spectroelectrochemical properties and solution reactivities. <i>Dalton Transactions RSC</i> , 2000, , 4209-4217.	2.3	62
39	Ruthenium(II)/(III) bipyridine heterochelates incorporating phenolato imine functionalities. Synthesis, crystal structure, spectroscopic and electron-transfer properties and solution reactivities. <i>Dalton Transactions RSC</i> , 2000, , 2875-2883.	2.3	37
40	Coupling of co-ordinated acetylide ligands with and without CO on chalcogen-stabilised mixed-metal clusters. Synthesis and characterisation of $[\text{M}_2\text{Fe}_3(\text{L})_2(\text{CO})_6(\text{E})_2\{\text{CC}(\text{Ph})\text{C}(\text{Ph})\text{C}\}]$ and $[\text{M}_2\text{Fe}_2(\text{L})_2(\text{CO})_4(\text{E})_2\{\text{CC}(\text{Ph})\text{C}(\text{Ph})\text{C}\}]$ ($\text{L} = \text{C}_5\text{Me}_5$ or C_5H_5 , $\text{M} = \text{Mo}$ or W , $\text{E} = \text{S}$, Se or Te). <i>Dalton Transactions RSC</i> , 2000, , 2916-2922.		
41	Ruthenium-(II)/(III) terpyridine complexes incorporating imine functionalities. Synthesis, structure, spectroscopic and electrochemical properties. <i>Dalton Transactions RSC</i> , 2000, , 2327-2335.	2.3	50
42	Synthesis, Structure, and Electrochemistry of $[(\text{C}_5\text{H}_5)_2\text{Mo}_2\text{WFe}_2(\text{O})_2(\text{S})_2(\text{CO})_9(\text{CPh})_2]$. <i>Organometallics</i> , 2000, 19, 5787-5790.	1.1	24
43	Formation of vinyl ether derivatives in the reaction of tributyltin hydride with cluster supported Fischer carbene complexes: structural characterisation of $[(\text{CO})_6\text{Fe}_2\text{Te}_2\{\text{PhC}(\text{OEt})\text{W}(\text{CO})_5\}]$. <i>Journal of Organometallic Chemistry</i> , 1999, 578, 150-154.	0.8	1
44	Molecular Phosphonate Cages: Model Compounds and Starting Materials for Phosphate Materials. <i>Accounts of Chemical Research</i> , 1999, 32, 117-126.	7.6	201
45	Tail-to-tail carbon-carbon bond coupling of acetylides on chalcogen-bridged Fe/W mixed-metal clusters. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 1795-1798.	1.1	25
46	Conversion of Alkyltantalum Chlorides to Fluorides Using Trimethyltin Fluoride as a Fluorinating Agent. Crystal Structures of $(\text{p-MeC}_6\text{H}_4\text{CH}_2)_3\text{TaF}_2$, $(\text{Me}_3\text{SnCl} \cdot \text{Me}_3\text{SnF} \cdot \text{TaF}_5)_n$, $(\text{Me}_3\text{Si})_2\text{CHTaCl}_4$, $\{(\text{Me}_3\text{Si})_2\text{CHTaCl}_4 \cdot [(\text{Me}_3\text{Si})_2\text{CH}]_2\text{Ta}_2\text{Cl}_6(\text{O})\}$, and $(\text{Me}_3\text{Si})_2\text{CHTaF}_4$. <i>Organometallics</i> , 1999, 18, 832-836.	1.1	22
47	Molecular Aluminophosphonate: Model Compound for the Isoelectronic Double-Six-Ring (D6R) Secondary Building Unit of Zeolites. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 96-98.	7.2	50
48	Novel Organic-Soluble Molecular Titanophosphonates with Cage Structures Comparable to Titanium-Containing Silicates. <i>Organometallics</i> , 1998, 17, 2865-2868.	1.1	47
49	Gallophosphonates Containing Alkali Metal Ions. 2.1 Synthesis and Structure of Gallophosphonates Incorporating Na^+ and K^+ Ions. <i>Inorganic Chemistry</i> , 1998, 37, 473-478.	1.9	38
50	Syntheses, Spectroscopy, Structures, and Reactivity of Neutral Cubic Group 13 Molecular Phosphonates. <i>Inorganic Chemistry</i> , 1997, 36, 4202-4207.	1.9	55
51	A Novel Molecular Gallium Phosphonate Cage Containing Sandwiched Lithium Ions: Synthesis, Structure, and Reactivity. <i>Journal of the American Chemical Society</i> , 1997, 119, 4656-4661.	6.6	52
52	Organic-Soluble Neutral and Ionic Indium Siloxane Cages: Potential Precursors for Indium-Containing Silicates. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2203-2205.	4.4	29
53	An efficient synthetic route to primary and secondary condensation products of silanetriols starting from (arylamino)trichlorosilanes. <i>Chemical Communications</i> , 1996, , 2417-2418.	2.2	27