

Bijan Mondal

List of Publications by Year in descending order

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43
papers

1,176
citations

304602

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48
all docs

48
docs citations

48
times ranked

472
citing authors

#	ARTICLE	IF	CITATIONS
1	Boron Beyond the Icosahedral Barrier: A 16-Vertex Metallaborane. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3222-3226.	7.2	93
2	Reactivity of Diruthenium and Dirhodium Analogues of Pentaborane(9): Agostic versus Boratrane Complexes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2873-2877.	7.2	77
3	Supraicosahedral Polyhedra in Metallaboranes: Synthesis and Structural Characterization of 12-, 15-, and 16-Vertex Rhodaboranes. <i>Inorganic Chemistry</i> , 2013, 52, 6705-6712.	1.9	71
4	ICT-Isomerization-Induced Turn-On Fluorescence Probe with a Large Emission Shift for Mercury Ion: Application in Combinational Molecular Logic. <i>Inorganic Chemistry</i> , 2017, 56, 11577-11590.	1.9	54
5	Syntheses and Characterization of New Vinyl-Borylene Complexes by the Hydroboration of Alkynes with $[(\eta^5-Cp^*Ru(CO)_2)(\eta^5-CO)Fe(CO)_3]$. <i>Chemistry - A European Journal</i> , 2013, 19, 2337-2343.	1.7	53
6	Chemistry of Diruthenium Analogue of Pentaborane(9) With Heterocumulenes: Toward Novel Trimetallic Cubane-Type Clusters. <i>Inorganic Chemistry</i> , 2014, 53, 10527-10535.	1.9	52
7	First-Row Transition-Metal-Diborane and -Borylene Complexes. <i>Chemistry - A European Journal</i> , 2015, 21, 5074-5083.	1.7	50
8	Synthesis, Structure, Bonding, and Reactivity of Metal Complexes Comprising Diborane(4) and Diborene(2): $[(\eta^5-Cp^*Mo(CO)_2)_2\{\eta^5-Cp^*B(CO)_2H\}_2]$ and $[(\eta^5-Cp^*M(CO)_2)_2B(CO)_2H_2M(CO)_4]$, M=Mo,W. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8079-8083.		47
9	Chemistry of Diruthenium and Dirhodium Analogues of Pentaborane(9): Synthesis and Characterization of Metal N-Heterocyclic Carbene and B-Agostic Complexes. <i>Chemistry - A European Journal</i> , 2015, 21, 3640-3648.	1.7	46
10	A fine tuning of metallaborane to bridged-boryl complex, $[(Cp^*Ru)_2(\eta^5-H)(\eta^5-CO)(\eta^5-Bcat)]$ (cat = 1,2-O ₂ C ₆ H ₄); η^5 -BT/O	1.6	40
11	Chemistry of Homo- and Heterometallic Bridged-Borylene Complexes. <i>Organometallics</i> , 2013, 32, 2705-2712.	1.1	40
12	New Heteronuclear Bridged Borylene Complexes That Were Derived from $[(\eta^5-Cp^*CoCl)_2]$ and Mono-Metal-Carbonyl Fragments. <i>Chemistry - A European Journal</i> , 2013, 19, 15219-15225.	1.7	30
13	Synthesis of triazole linked fluorescent amino acid and carbohydrate bio-conjugates: a highly sensitive and skeleton selective multi-responsive chemosensor for Cu(II) and Pb(II)/Hg(II) ions. <i>RSC Advances</i> , 2014, 4, 1918-1928.	1.7	28
14	Trithia-diborinane and Bis(bridging-boryl) Complexes of Ruthenium Derived from a $[BH_3(SCH_3)]^+$ Ion. <i>Inorganic Chemistry</i> , 2019, 58, 2346-2353.	1.9	28
15	Hypoelectronic metallaboranes: Synthesis, structural characterization and electronic structures of metal-rich cobaltaboranes. <i>Journal of Organometallic Chemistry</i> , 2014, 749, 188-196.	0.8	27
16	$[(Cp)_2M(B)_9H_{11}]$ (M= Zr or Hf): early transition metal - guarded heptaborane with strong covalent and electrostatic bonding. <i>Chemical Science</i> , 2018, 9, 1976-1981.	3.7	27
17	Hypoelectronic Dimetallaheteroboranes of Group 6 Transition Metals Containing Heavier Chalcogen Elements. <i>Inorganic Chemistry</i> , 2013, 52, 7923-7932.	1.9	26
18	Synthesis and sensing properties of 1,1'-disubstituted unsymmetrical ferrocene-triazole derivatives: a multichannel probe for Hg(II) ion. <i>RSC Advances</i> , 2013, 3, 18614.	1.7	25

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19	Novel Triple-Decker Sandwich Complex with a Six-Membered [B ₃ Co ₂ ($\frac{1}{4}$ -Te)] Ring as the Middle Deck. <i>Inorganic Chemistry</i> , 2013, 52, 2262-2264.	1.9	24
20	Hydroboration of Alkynes with Zwitterionic Ruthenium-Borate Complexes: Novel Vinylborane Complexes. <i>Chemistry - A European Journal</i> , 2015, 21, 11393-11400.	1.7	24
21	A Novel Heterometallic $\frac{1}{4}$ -Boride Cluster: Synthesis and Structural Characterization of [($\frac{1}{5}$ -C ₅ Me ₅ Rh) ₂ {Co ₆ (CO) ₁₂ }($\frac{1}{4}$ -H) ₃ B]. <i>Inorganic Chemistry</i> , 2014, 53, 667-669.	2.3	23
22	An electron-poor di-molybdenum triple-decker with a puckered [B ₄ Ru ₂] bridging ring is an oblatocloso cluster. <i>Chemical Communications</i> , 2015, 51, 3828-3831.	2.2	23
23	Hypo-electronic triple-decker sandwich complexes: synthesis and structural characterization of [(Cp*Mo) ₂ { $\frac{1}{4}$ - $\frac{1}{6}$ -B ₄ H ₄ E-Ru(CO) ₃ }] (E = S, Se, Te or Ru(CO) ₃ and Cp* = $\frac{1}{5}$ -C ₅ Me ₅). <i>Dalton Transactions</i> , 2016, 45, 10999-11007.	1.6	19
24	A close-packed boron-rich 11-vertex molybdaborane with novel geometry. <i>Journal of Organometallic Chemistry</i> , 2012, 710, 75-79.	0.8	18
25	Novel Neutral Zirconaborane [(Cp ₂ Zr)2B ₅ H ₁₁]: An arachno-B ₃ H ₉ Analogue (Cp = $\frac{1}{5}$ -C ₅ H ₅). <i>Organometallics</i> , 2015, 34, 908-912.	1.1	16
26	Hypoelectronic isomeric diiridaboranes [(Cp*Ir) ₂ B ₆ H ₆]: the $\frac{1}{5}$ -Rule-Breakers (Cp* = $\frac{1}{5}$ -C ₅ Me ₅). <i>Chemical Communications</i> , 2016, 52, 3199-3202.	2.2	16
27	Synthesis, Structures, and Characterization of Dimeric Neutral Dithiolato-Bridged Tungsten Complexes. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5434-5441.	1.0	16
28	Naphthalene-glycine conjugate: An extremely selective colorimetric chemosensor for iodide ion in aqueous solution. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 617-626.	4.0	16
29	In search for new bonding modes of the methylenedithiolato ligand: novel tri- and tetra-metallic clusters. <i>Dalton Transactions</i> , 2015, 44, 11306-11313.	1.6	12
30	Heterometallic boride clusters: synthesis and characterization of butterfly and square pyramidal boride clusters*. <i>Pure and Applied Chemistry</i> , 2018, 90, 665-675.	0.9	12
31	Combined Experimental and Theoretical Investigations of Group 6 Dimetallaboranes [(Cp*M) ₂ B ₄ H ₁₀] (M = Mo and W). <i>Organometallics</i> , 2018, 37, 2419-2428.	1.1	12
32	Synthesis, Structures and Chemistry of the Metallaboranes of Group 4-9 with M ₂ B ₅ Core Having a Cross Cluster M-M Bond. <i>Inorganics</i> , 2019, 7, 27.	1.2	12
33	Synthesis, Structure, Bonding, and Reactivity of Metal Complexes Comprising Diborane(4) and Diborene(2): [(Cp*Mo(CO) ₂) ₂ { $\frac{1}{4}$ - $\frac{1}{2}$ -B ₂ H ₄ }] and [(Cp*M(CO) ₂) ₂ B ₂ H ₂ M(CO) ₄], M=Mo,W. <i>Angewandte Chemie</i> , 2018, 130, 8211-8215.	1.1	11
34	An Early-Late Transition Metal Hybrid Analogue of Hexaborane(12). <i>Organometallics</i> , 2013, 32, 4618-4623.	1.1	10
35	Use of Single-Metal Fragments for Cluster Building: Synthesis, Structure, and Bonding of Heterometallaboranes. <i>Inorganic Chemistry</i> , 2019, 58, 2744-2754.	1.9	10
36	Metal-coordination driven intramolecular twisting: a turn-on fluorescent-redox probe for Hg ²⁺ ions through the interaction of ferrocene nonbonding orbitals and dibenzylidenehydrazine. <i>Dalton Transactions</i> , 2019, 48, 8209-8220.	1.6	10

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37	Homometallic Cubane Clusters: Participation of Three-Coordinated Hydrogen in 60-Valence Electron Cubane Core. <i>Inorganic Chemistry</i> , 2015, 54, 8673-8678.	1.9	8
38	Heterometallic boride clusters of group 6 and 9 transition metals. <i>Journal of Organometallic Chemistry</i> , 2016, 819, 147-154.	0.8	7
39	A conjugated photoresponsive dithienyletheneâ€“ferrocene system: applications in secret writing and decoding information. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8860-8873.	2.7	5
40	Neutral heterometallic cluster containing ketylidene ligand: [Cp*Mo(CO) ₂ (η^4 -H)Ru ₂ (CO) ₆ (η^3 -É ₃)]	0.8	4
41	All-metallagermoxane with an adamantanoid cage structure: [(Cp*Ru(CO) ₂ Ge ₄ (η^4 -O) ₆)] (Cp* =)	0.784314	1
42	Light-Triggered Metal Coordination Dynamics in Photoswitchable Dithienyletheneâ€“Ferrocene System. <i>Inorganic Chemistry</i> , 2021, 60, 6086-6098.	1.9	2
43	Organometallic Chemistry and Catalysis of Transition Metalâ€“Borane Compounds. , 2018, , 201-237.		2