

Bijan Mondal

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A conjugated photoresponsive dithienylethene-ferrocene system: applications in secret writing and decoding information. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8860-8873.	2.7	5
2	Light-Triggered Metal Coordination Dynamics in Photoswitchable Dithienylethene-Ferrocene System. <i>Inorganic Chemistry</i> , 2021, 60, 6086-6098.	1.9	2
3	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
4	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
5	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
6	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
7	Synthesis, Structure, Bonding, and Reactivity of Metal Complexes Comprising Diborane(4) and Diborene(2): $[(Cp^*Mo(CO)_2)_2\{\frac{1}{4}I^{\sup 2} : I^{\sup 2} \} \{B_2H_4\}]$ and $[(Cp^*M(CO)_2)_2B_2H_2M(CO)_4]$, Synthesis, Structure, Bonding, and Reactivity of Metal Complexes Comprising Diborane(4) and Diborene(2):		11
8	$[(Cp^*Mo(CO)_2)_2\{\frac{1}{4}I^{\sup 2} : I^{\sup 2} \} \{B_2H_4\}]$ and $[(Cp^*M(CO)_2)_2B_2H_2M(CO)_4]$, M=Mo,W. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8079-8083.		47
9	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
10	$[(Cp_2M)_2B_9H_{11}]$ (M= Zr or Hf): early transition metal $\hat{\alpha}$ -guarded TM heptaborane with strong covalent and electrostatic bonding. <i>Chemical Science</i> , 2018, 9, 1976-1981.	3.7	27
11	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
12	Combined Experimental and Theoretical Investigations of Group 6 Dimetallaboranes $[(Cp^*M)_2B_4H_{10}]$ (M = Mo and W). <i>Organometallics</i> , 2018, 37, 2419-2428.	1.1	12
13	Organometallic Chemistry and Catalysis of Transition Metal-Borane Compounds. , 2018, , 201-237.		2
14	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
15	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
16	Heterometallic boride clusters of group 6 and 9 transition metals. <i>Journal of Organometallic Chemistry</i> , 2016, 819, 147-154.	0.8	7
17	Hypo-electronic triple-decker sandwich complexes: synthesis and structural characterization of $[(Cp^*Mo)_2\{\frac{1}{4}I^{\sup 6} : I^{\sup 6} \} B_4H_4E-Ru(CO)_3]$ (E = S, Se, Te or Ru(CO) ₃ and Cp* = $I^{\sup 5}-C_5Me_5$). <i>Dalton Transactions</i> , 2016, 45, 10999-11007.	1.6	19
18	Hypoelectronic isomeric diiridaboranes $[(Cp^*Ir)_2B_6H_6]$: the $\hat{\alpha}$ -Rule-Breakers $(Cp^* = I^{\sup 5}-C_5Me_5)$. <i>Chemical Communications</i> , 2016, 2.2, 3199-3202.		16

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19	Hydroboration of Alkynes with Zwitterionic Ruthenium-Borate Complexes: Novel Vinylborane Complexes. <i>Chemistry - A European Journal</i> , 2015, 21, 11393-11400.	1.7	24
20	Chemistry of Diruthenium and Dirhodium Analogues of Pentaborane(9): Synthesis and Characterization of Metal N-Heterocyclic Carbene and Agostic Complexes. <i>Chemistry - A European Journal</i> , 2015, 21, 3640-3648.	1.7	46
21	Novel Neutral Zirconaborane [(Cp ₂ Zr)2B5H11]: An arachno-B3H9 Analogue (Cp = η^5 -C5H5). <i>Organometallics</i> , 2015, 34, 908-912.	1.1	16
22	First-Row Transition-Metal-Diborane and Borylene Complexes. <i>Chemistry - A European Journal</i> , 2015, 21, 5074-5083.	1.7	50
23	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
24	Neutral heterometallic cluster containing ketenylidene ligand: [Cp*Mo(CO) ₂ (η^4 -H)Ru ₂ (CO) ₆ (η^3 -É ₃ 1)Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457 Td (η^4 -sup>5</sup>]	0.8	48
25	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
26	All-metal laggermoxane with an adamantanoid cage structure: [(Cp*Ru(CO) ₂ Ge) ₄ (η^4 -O) ₆] (Cp* =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457 Td (η^4 -sup>5</sup>]	1.5	457
27	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
28	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
29	A Novel Heterometallic η^9 -Boride Cluster: Synthesis and Structural Characterization of [η^5 -C ₅ Me ₅ Rh) ₂ {Co ₆ (CO) ₁₂ }(η^4 -H)(BH)B]. <i>Inorganic Chemistry</i> , 2014, 53, 667-669.	2.3	23
30	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
31	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
32	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
33	An Early-Late Transition Metal Hybrid Analogue of Hexaborane(12). <i>Organometallics</i> , 2013, 32, 4618-4623.	1.1	10
34	Hypoelectronic Dimetallaheteroboranes of Group 6 Transition Metals Containing Heavier Chalcogen Elements. <i>Inorganic Chemistry</i> , 2013, 52, 7923-7932.	1.9	26
35	New Heteronuclear Bridged Borylene Complexes That Were Derived from [(Cp*CoCl) ₂] and Mono-Metal Carbonyl Fragments. <i>Chemistry - A European Journal</i> , 2013, 19, 15219-15225.	1.7	30
36	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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37	A fine tuning of metallaborane to bridged-boryl complex, [(Cp* <i>Ru</i>) ₂ (η^1 -H)(η^1 -CO)(η^1 -Bcat)] (cat = 1,2-O ₂ C ₆ H ₄); TjFTQq1	1.6	140.7843
38	Chemistry of Homo- and Heterometallic Bridged-Borylene Complexes. <i>Organometallics</i> , 2013, 32, 2705-2712.	1.1	40
39	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
40	Boron Beyond the Icosahedral Barrier: A 16-Vertex Metallaborane. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3222-3226.	7.2	93
41	Novel Triple-Decker Sandwich Complex with a Six-Membered [B ₃ Co ₂ (η^4 -Te)] Ring as the Middle Deck. <i>Inorganic Chemistry</i> , 2013, 52, 2262-2264.	1.9	24
42	Syntheses and Characterization of New Vinyl-Borylene Complexes by the Hydroboration of Alkynes with [(η^3 -BH)(Cp* <i>Ru</i> CO) ₂ (η^1 -CO)Fe(CO) ₃]. <i>Chemistry - A European Journal</i> , 2013, 19, 2337-2343.	1.7	53
43	A close-packed boron-rich 11-vertex molybdaborane with novel geometry. <i>Journal of Organometallic Chemistry</i> , 2012, 710, 75-79.	0.8	18