

Jitendra K Bera

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99
papers

2,667
citations

28
h-index

47
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108
ext. papers

3,007
ext. citations

5
avg. IF

5.18
L-index

#	Paper	IF	Citations
99	Anion template effect on the self-assembly and interconversion of metallacyclophanes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12909-23	16.4	319
98	Chain compounds based on transition metal backbones: new life for an old topic. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4453-7	16.4	244
97	A highly efficient catalyst for selective oxidative scission of olefins to aldehydes: abnormal-NHC-Ru(II) complex in oxidation chemistry. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13987-90	16.4	91
96	Metal-ligand cooperation on a diruthenium platform: selective imine formation through acceptorless dehydrogenative coupling of alcohols with amines. <i>Chemistry - A European Journal</i> , 2014 , 20, 6542-51	4.8	86
95	Catalytic Conversion of Alcohols to Carboxylic Acid Salts and Hydrogen with Alkaline Water. <i>ACS Catalysis</i> , 2017 , 7, 2786-2790	13.1	77
94	Bimetallic catalysis involving dipalladium(I) and diruthenium(I) complexes. <i>Chemistry - A European Journal</i> , 2010 , 16, 14459-68	4.8	70
93	Bifunctional Water Activation for Catalytic Hydration of Organonitriles. <i>Organometallics</i> , 2012 , 31, 3790-3897	3.8	62
92	Incorporating Multiply Bonded Dirhenium Species [Re ₂] _n +(n= 4 or 5) into Assemblies Containing Two or More Such Units. <i>Journal of the American Chemical Society</i> , 2001 , 123, 1515-1516	16.4	60
91	Acceptorless Dehydrogenation of Alcohols on a Diruthenium(II,II) Platform. <i>Organometallics</i> , 2016 , 35, 1505-1513	3.8	59
90	Multifaceted coordination of naphthyridine-functionalized N-heterocyclic carbene: a novel "Ir(III)(C-N)(C-C)" compound and its evaluation as transfer hydrogenation catalyst. <i>Inorganic Chemistry</i> , 2009 , 48, 11114-22	5.1	57
89	1,8-Naphthyridine Revisited: Applications in Dimetal Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 4023-4038	2.3	53
88	Double Dehydrogenation of Primary Amines to Nitriles by a Ruthenium Complex Featuring Pyrazole Functionality. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8662-8666	16.4	51
87	Effects of axial coordination on the Ru-Ru single bond in diruthenium paddlewheel complexes. <i>Inorganic Chemistry</i> , 2006 , 45, 4007-15	5.1	49
86	New paramagnetic Re(II) compounds with nitrile and cyanide ligands prepared by homolytic scission of dirhenium complexes. <i>Inorganic Chemistry</i> , 2003 , 42, 4256-8	5.1	48
85	Structural characterization, magnetic properties, and electrospray mass spectrometry of two Jahn-Teller isomers of the single-molecule magnet [Mn ₁₂ O ₁₂ (CF ₃ COO) ₁₆ (H ₂ O) ₄]. <i>Inorganic Chemistry</i> , 2004 , 43, 1359-69	5.1	48
84	Axial Interaction of the [Ru ₂ (CO) ₄] ₂ ⁺ Core with the Aryl C≡N Bond: Route to Cyclometalated Compounds Involving a Metal-Metal-Bonded Diruthenium Unit. <i>Organometallics</i> , 2006 , 25, 6054-6060	3.8	47
83	Steric Control at the Wingtip of a Bis-N-Heterocyclic Carbene Ligand: Coordination Behavior and Catalytic Responses of Its Ruthenium Compounds. <i>Organometallics</i> , 2012 , 31, 5500-5505	3.8	43

82	Mixed-metal assemblies involving ferrocene-naphthyridine hybrids. <i>Inorganic Chemistry</i> , 2009 , 48, 978-990	5.1	38
81	Amide synthesis from alcohols and amines catalyzed by a Ru(II)-heterocyclic carbene (NHC) carbonyl complex. <i>Journal of Organometallic Chemistry</i> , 2014 , 771, 124-130	2.3	37
80	A new hybrid molecular square composed of alternating multiply-bonded dinuclear and mononuclear corners. <i>Chemical Communications</i> , 2001 , 2562-2563	5.8	34
79	Hemilability-Driven Water Activation: A Ni Catalyst for Base-Free Hydration of Nitriles to Amides. <i>Chemistry - A European Journal</i> , 2017 , 23, 7761-7771	4.8	33
78	Palladium-Catalysed Intramolecular Direct Arylation of 2-Bromobenzenesulfonic Acid Derivatives. <i>Advanced Synthesis and Catalysis</i> , 2012 , 354, 3533-3538	5.6	33
77	Mapping the transformation $[Ru(II)(CO)(3)Cl(2)](2) \rightarrow [Ru(I)(2)(CO)(4)](2+)$: implications in binuclear water-gas shift chemistry. <i>Chemistry - A European Journal</i> , 2010 , 16, 2574-85	4.8	33
76	Role of axial donors in the ligand isomerization processes of quadruply bonded dimolybdenum(II) compounds. <i>Inorganic Chemistry</i> , 2008 , 47, 2212-22	5.1	32
75	Ligand-bridged dinuclear cyclometalated Ir(III) complexes: from metallamacrocycles to discrete dimers. <i>Inorganic Chemistry</i> , 2012 , 51, 1319-29	5.1	31
74	Palladium-catalyzed direct arylation of thiophenes bearing SO ₂ R substituents. <i>Journal of Organic Chemistry</i> , 2011 , 76, 6407-13	4.2	31
73	Assemblies of multiply bonded [Re ₂] ⁿ⁺ cores possessing bond orders of 3 or 3.5 that are linked by dicarboxylate bridges. <i>Dalton Transactions RSC</i> , 2002 , 2168		31
72	Hydrogen-bonding as a tool for building one-dimensional structures based on dimetal building blocks. <i>Polyhedron</i> , 2003 , 22, 3009-3014	2.7	29
71	Amide-functionalized naphthyridines on a Rh(II)-Rh(II) platform: effect of steric crowding, hemilability, and hydrogen-bonding interactions on the structural diversity and catalytic activity of dirhodium(II) complexes. <i>Chemistry - A European Journal</i> , 2014 , 20, 16537-49	4.8	27
70	Site-Directed Anchoring of an N-Heterocyclic Carbene on a Dimetal Platform: Evaluation of a Pair of Diruthenium(II) Catalysts for Carbene-Transfer Reactions from Ethyl Diazoacetate. <i>Organometallics</i> , 2011 , 30, 2051-2058	3.8	26
69	A rare unsupported iridium(II) dimer, [IrCl ₂ (CO) ₂] ₂ . <i>Chemical Communications</i> , 2008 , 2511-3	5.8	26
68	Novel Heterobimetallic Metallamacrocycles Based on the 1,1'-Bis(1,8-naphthyrid-2-yl)ferrocene (FcNP ₂) Ligand: Structural Characterization of the Complexes $[M(FcNP_2)]_2^{2+}$ (M = CuI, AgI) and $[MCl_2(FcNP_2)]_4$ (M = ZnII, CoII). <i>Organometallics</i> , 2006 , 25, 2914-2916	3.8	25
67	Selective hydrogenation of nitriles to secondary amines catalyzed by a pyridyl-functionalized and alkenyl-tethered NHC-Ru(II) complex. <i>Journal of Organometallic Chemistry</i> , 2016 , 812, 87-94	2.3	25
66	Olefin oxygenation by water on an iridium center. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6168-71	16.4	23
65	Palladium-catalysed direct arylations of NH-free pyrrole and N-tosylpyrrole with aryl bromides. <i>Tetrahedron Letters</i> , 2012 , 53, 509-513	2	23

64	Coupling dirhodium units through terpyridine bridges: synthesis and structure of a novel molecular rectangle. <i>Chemical Communications</i> , 2002 , 2536-2537	5.8	23
63	A Noninnocent Cyclooctadiene (COD) in the Reaction of an $\text{Ir}(\text{COD})(\text{OAc})\text{I}$ Precursor with Imidazolium Salts. <i>Organometallics</i> , 2013 , 32, 192-201	3.8	22
62	Acceptorless Alcohol Dehydrogenation: A Mechanistic Perspective. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2016 , 86, 561-579	0.9	22
61	A $\text{Ru}(\text{II})$ -heterocyclic carbene (NHC) complex from metal-metal singly bonded diruthenium(I) precursor: Synthesis, structure and catalytic evaluation. <i>Journal of Organometallic Chemistry</i> , 2011 , 696, 1248-1257	2.3	21
60	A Triflamide-Tethered N-Heterocyclic Carbene-Rhodium(I) Catalyst for Hydroalkoxylation Reactions: Ligand-Promoted Nucleophilic Activation of Alcohols. <i>ChemCatChem</i> , 2017 , 9, 1397-1401	5.2	19
59	Room temperature C-H bond activation on a $[\text{Pd}(\text{I})-\text{Pd}(\text{I})]$ platform. <i>Chemical Communications</i> , 2013 , 49, 9764-6	5.8	19
58	Understanding C-H Bond Activation on a Diruthenium(I) Platform. <i>Organometallics</i> , 2013 , 32, 340-349	3.8	19
57	C-C Bond Forming Reaction through Aldol-Type Addition Mediated by a $[\text{Ru}_2(\text{CO})_4]^{2+}$ Core. <i>Organometallics</i> , 2007 , 26, 2598-2603	3.8	19
56	Fluorinated Anions Promoted In Water Activity of Di- and Tetranuclear Copper(I) Catalysts for Functional Triazole Synthesis. <i>Organometallics</i> , 2015 , 34, 3047-3054	3.8	18
55	Palladium-catalysed direct regioselective arylation at C5 of thiophenes bearing SO_2R substituents at C3. <i>RSC Advances</i> , 2012 , 2, 7197	3.7	18
54	Multimetallic compounds containing cyclometalated Ir(III) units: Synthesis, structure, electrochemistry and photophysical properties. <i>Inorganica Chimica Acta</i> , 2011 , 372, 53-61	2.7	18
53	Palladium-Catalysed Dehydrogenative sp^3 C-H Bonds Functionalisation into Alkenes: A Direct Access to N-Alkenylbenzenesulfonamides. <i>Advanced Synthesis and Catalysis</i> , 2014 , 356, 119-124	5.6	17
52	A trinuclear bright red luminophore containing cyclometalated Ir(III) motifs. <i>Chemical Communications</i> , 2011 , 47, 10836-8	5.8	17
51	Hydroxycarbonyl complexes as key intermediates in the base-assisted reduction of ruthenium carbonyls. <i>Dalton Transactions</i> , 2010 , 39, 11301-13	4.3	17
50	Ligand assisted homolytic cleavage of the $\text{Ru}-\text{Ru}$ single bond in $[\text{Ru}_2(\text{CO})_4]^{2+}$ core and the chemical consequence. <i>Journal of Organometallic Chemistry</i> , 2006 , 691, 4779-4787	2.3	17
49	Recent advances in annellated NHCs and their metal complexes. <i>Coordination Chemistry Reviews</i> , 2020 , 422, 213334	23.2	16
48	Cyclometalations on the Imidazo[1,2-a][1,8]naphthyridine Framework. <i>Organometallics</i> , 2013 , 32, 4306-4313	3.3	16
47	Is copper(I) hard or soft? A density functional study of mixed ligand complexes. <i>New Journal of Chemistry</i> , 2007 , 31, 385	3.6	16

46	Cyclometalated Ir(III) Complexes Containing Pyrazole/Pyrazine Carboxylate Ligands. <i>Australian Journal of Chemistry</i> , 2011 , 64, 561	1.2	15
45	Syntheses and reactivity studies of solvated dirhenium acetonitrile complexes. <i>Dalton Transactions</i> , 2006 , 4011-9	4.3	15
44	Aerobic oxidative coupling of alcohols and amines towards imine formation by a dicopper(I,I) catalyst. <i>Journal of Organometallic Chemistry</i> , 2017 , 849-850, 117-124	2.3	14
43	Oxidative Route to Abnormal NHC Compounds from Singly Bonded [MM] (M = Ru, Rh, Pd) Precursors. <i>Organometallics</i> , 2015 , 34, 5509-5512	3.8	14
42	Bulky, spherical, and fluorinated anion BARF induces β n-water activity of silver salt for the hydration of terminal alkynes. <i>Tetrahedron Letters</i> , 2014 , 55, 1444-1447	2	14
41	Binuclear Copper Complexes and Their Catalytic Evaluation. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 1680-1687	2.3	14
40	Reaction of $\text{Re}(2)(\mu\text{-O}(2)\text{CCH}(3))(4)\text{Cl}(2)$ with Bis(dicyclohexylphosphino)methane (dcpm): isolation of the mixed-valent complex $\text{O}(3)\text{ReReCl}(\eta(2)\text{-dcpm})(2)$ containing an unsupported Re-Re bond. <i>Inorganic Chemistry</i> , 2001 , 40, 2914-7	5.1	14
39	Decarboxylation reactions of alkyne-carboxylic acids as a route to multiply bonded $[\text{Re}_2]_{n+1}$ alkyne and carbyne complexes. <i>Dalton Transactions RSC</i> , 2001 , 109-110		13
38	Recent Progress in Transition-Metal-Catalyzed Asymmetric Reductive Amination. <i>ACS Catalysis</i> , 2017 , 7, 13809-13837	3.3	12
37	A Rh(I) complex with an annulated N-heterocyclic carbene ligand for E-selective alkyne hydrosilylation. <i>Polyhedron</i> , 2019 , 172, 167-174	2.7	11
36	Carbon Monoxide Induced Double Cyclometalation at the Iridium Center. <i>Organometallics</i> , 2012 , 31, 5533-5540	3.8	11
35	Chiral 1,8-naphthyridine based ligands: Syntheses and characterization of Di- and tetranuclear copper (I) and silver (I) complexes. <i>Inorganica Chimica Acta</i> , 2019 , 486, 518-528	2.7	11
34	Transition-Metal-Based Linear Chain Compounds		11
33	Multi-site coordination of ferrocenylamido-naphthyridine conjugates $[\{(5,7\text{-dimethyl-1,8-naphthyridin-2-yl)amino}\text{carbonyl}\}\text{ferrocene}$ and $1,1\text{-bis}\{[(5,7\text{-dimethyl-1,8-naphthyridin-2-yl)amino}\text{carbonyl}\}\text{ferrocene}$. <i>Journal of Organometallic Chemistry</i> , 2010 , 695, 67-73	2.3	10
32	A study of structural and bonding variations in the homologous series $[\text{Mo}(2)(\text{CN})(6)(\text{dppm})(2)](n-)$ ($n = 2, 1, 0$). <i>Inorganic Chemistry</i> , 2002 , 41, 3429-36	5.1	9
31	An Annulated Mesoionic Carbene (MIC) Based Ru(II) Catalyst for Chemo- and Stereoselective Semihydrogenation of Internal and Terminal Alkynes. <i>Organometallics</i> , 2020 , 39, 3212-3223	3.8	9
30	Palladium complexes with an annellated mesoionic carbene (MIC) ligand: catalytic sequential Sonogashira coupling/cyclization reaction for one-pot synthesis of benzofuran, indole, isocoumarin and isoquinolone derivatives. <i>Dalton Transactions</i> , 2020 , 49, 15238-15248	4.3	8
29	Electronic Asymmetry of an Annulated Pyridyl Mesoionic Carbene Scaffold: Application in Pd(II)-Catalyzed Wacker-Type Oxidation of Olefins. <i>ACS Catalysis</i> , 2020 , 10, 11385-11393	13.1	8

28	Palladium-catalysed direct heteroarylation of bromobenzenes bearing SO ₂ R substituents at C2 or C4. <i>RSC Advances</i> , 2013 , 3, 5987	3.7	7
27	Contrasting Reactivity of 2-Mesityl-1,8-Naphthyridine (Mes-NP) with Singly-Bonded [Rh ^{III} Bh ^{II}] and [Ru ^{II} Bu ^I] Compounds. <i>Australian Journal of Chemistry</i> , 2011 , 64, 583	1.2	7
26	The structural characterization of Re ₂ Cl ₄ (Edcpm) ₂ (dcpm=Cy ₂ PCH ₂ PCy ₂) and a new crystallographic form of Re ₂ Cl ₄ (Edppm) ₂ (dppm=Ph ₂ PCH ₂ PPh ₂). <i>Inorganica Chimica Acta</i> , 2000 , 311, 138-142	2.7	7
25	Hydrative syntheses of amides from alkynes catalyzed by an Au(I) complex containing pyridyl-functionalized NHC ligand. <i>Journal of Organometallic Chemistry</i> , 2019 , 886, 1-8	2.3	7
24	Reactivity of 3-Bromofuran in Pd-Catalyzed C ^β -Bond Arylation toward the Synthesis of 2,3,5-Triarylfurans. <i>Synthesis</i> , 2019 , 51, 3241-3249	2.9	6
23	Mixed-ligand compounds incorporating quadruply bonded dimolybdenum(II) core: Syntheses, structures and reactivity studies. <i>Inorganica Chimica Acta</i> , 2010 , 363, 3078-3087	2.7	6
22	Oxidative route to polyoxomolybdates from quadruply bonded [Mo ^{II} Mo ^{II}] precursor: Structural characterization of a tetranuclear cluster [Mo ₄ Cl ₅ O ₈ (pyNP) ₂] (pyNP = (2-(2-pyridyl)1,8-naphthyridine)). <i>Polyhedron</i> , 2007 , 26, 1597-1602	2.7	6
21	Reactions of the dirhenium(III,III) complex cis-Re ₂ (EO ₂ CMe) ₂ Cl ₄ (H ₂ O) ₂ that lead to the dirhenium(III,II) complexes Re ₂ (EO ₂ CMe)Cl ₄ (PR ₃) ₂ and tetrarheniumcyclodiene clusters of the type Re ₄ (EO) ₄ Cl ₄ (PR ₃) ₄ . <i>Dalton Transactions RSC</i> , 2000 , 4277-4284		6
20	Inter-ligand electronic coupling mediated through a dimetal bridge: dependence on metal ions and ancillary ligands. <i>Dalton Transactions</i> , 2017 , 46, 5660-5669	4.3	5
19	A bromo-capped diruthenium(i,i) N-heterocyclic carbene compound for in situ bromine generation with NBS: catalytic olefin aziridination reactions. <i>Dalton Transactions</i> , 2018 , 47, 11917-11924	4.3	5
18	A Rh ^{III} -heterocyclic carbene complex from metal-metal singly bonded [Rh ^{II} Bh ^{II}] precursor. <i>Journal of Chemical Sciences</i> , 2011 , 123, 799-805	1.8	5
17	A Proton-Responsive Annulated Mesoionic Carbene (MIC) Scaffold on Ir Complex for Proton/Hydride Shuttle: An Experimental and Computational Investigation on Reductive Amination of Aldehyde. <i>Organometallics</i> , 2020 , 39, 3849-3863	3.8	5
16	Group 9 Metal-Metal Bonds 2015 , 279-324		4
15	Cyclometalated Ir ^{III} N Construct for Cyanosilylation. <i>Journal of Cluster Science</i> , 2012 , 23, 839-851	3	4
14	Naphthyridine-imidazole hybrid ligands for the construction of multinuclear architecture. <i>Inorganica Chimica Acta</i> , 2011 , 374, 320-326	2.7	4
13	Base-Controlled Directed Synthesis of Metal-Methyleneimidazoline (MIz) and Metal-Mesoionic Carbene (MIC) Compounds. <i>Organometallics</i> , 2020 , 39, 189-200	3.8	4
12	A Proton-Responsive Pyridyl(benzamide)-Functionalized NHC Ligand on Ir Complex for Alkylation of Ketones and Secondary Alcohols. <i>Chemistry - A European Journal</i> , 2021 , 27, 10737-10748	4.8	4
11	Synthesis of (Poly)halo-Substituted Diarylsulfones through Palladium-Catalyzed C ^β -Bond Sulfonylation Using (Poly)Halobenzenesulfonyl Chlorides. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 6114-6120	3.2	4

10	Reactivity of antipyrine and haloantipyrines in Pd-catalyzed C-H bond arylations. <i>Tetrahedron Letters</i> , 2020 , 61, 151798	2	3
9	Reactivity and Catalysis at Sites Trans to the [Ru-Ru] Bond. <i>Topics in Organometallic Chemistry</i> , 2015 , 59-101	0.6	3
8	Reactions of acids with naphthyridine-functionalized ferrocenes: protonation and metal extrusion. <i>Inorganic Chemistry</i> , 2013 , 52, 1432-42	5.1	3
7	The Pivotal Role of Hot Carriers in Plasmonic Catalysis of C-N Bond Forming Reaction of Amines. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12532-12538	16.4	3
6	Hydrosilylative reduction of primary amides to primary amines catalyzed by a terminal [Ni-OH] complex. <i>Chemical Communications</i> , 2021 , 57, 9204-9207	5.8	3
5	Redox-active TTF carboxylate as an axial bridging ligand for dirhenium metal-metal bonded complexes. <i>Inorganica Chimica Acta</i> , 2015 , 425, 233-238	2.7	2
4	Pd-Catalyzed Regioselective Oxidative C-H Functionalization of Substituted Imidazo[1,2-a]quinoline: Structural Characterization of Binuclear Cyclometalated Intermediates. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2014 , 84, 227-234	0.9	2
3	A bicarbonate bridged diruthenium(I) complex: Key evidence for the decarboxylation step in the base-assisted reduction of Ru ₂ Cl ₄ (CO) ₆ . <i>Inorganica Chimica Acta</i> , 2011 , 372, 94-99	2.7	2
2	Solvent- and Temperature-Dependent Assembly in Monolayer Films of a Ferrocene-Naphthyridine Hybrid on HOPG. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 1430-1437	4.5	0
1	The Pivotal Role of Hot Carriers in Plasmonic Catalysis of C-N Bond Forming Reaction of Amines. <i>Angewandte Chemie</i> , 2021 , 133, 12640-12646	3.6	0