

# Jitendra K Bera

## List of Publications by Year in descending order

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all docs

108  
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times ranked

3386  
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#	ARTICLE	IF	CITATIONS
1	Anion Template Effect on the Self-Assembly and Interconversion of Metallacyclophanes. Journal of the American Chemical Society, 2005, 127, 12909-12923.	13.7	335
2	Chain Compounds Based on Transition Metal Backbones: New Life for an Old Topic. Angewandte Chemie - International Edition, 2002, 41, 4453-4457.	13.8	256
3	A Highly Efficient Catalyst for Selective Oxidative Scission of Olefins to Aldehydes: Abnormal-NHCâ€Ru(II) Complex in Oxidation Chemistry. Journal of the American Chemical Society, 2014, 136, 13987-13990.	13.7	119
4	Catalytic Conversion of Alcohols to Carboxylic Acid Salts and Hydrogen with Alkaline Water. ACS Catalysis, 2017, 7, 2786-2790.	11.2	101
5	Metalâ€Ligand Cooperation on a Diruthenium Platform: Selective Imine Formation through Acceptorless Dehydrogenative Coupling of Alcohols with Amines. Chemistry - A European Journal, 2014, 20, 6542-6551.	3.3	97
6	Acceptorless Dehydrogenation of Alcohols on a Diruthenium(II,II) Platform. Organometallics, 2016, 35, 1505-1513.	2.3	83
7	Double Dehydrogenation of Primary Amines to Nitriles by a Ruthenium Complex Featuring Pyrazole Functionality. Journal of the American Chemical Society, 2018, 140, 8662-8666.	13.7	80
8	Bimetallic Catalysis Involving Dipalladium(I) and Diruthenium(I) Complexes. Chemistry - A European Journal, 2010, 16, 14459-14468.	3.3	77
9	Incorporating Multiply Bonded Dirhenium Species [Re <sub>2</sub> ] <sub>n</sub> (n= 4 or 5) into Assemblies Containing Two or More Such Units. Journal of the American Chemical Society, 2001, 123, 1515-1516.	13.7	70
10	Bifunctional Water Activation for Catalytic Hydration of Organonitriles. Organometallics, 2012, 31, 3790-3797.	2.3	68
11	Recent Progress in Transition-Metal-Catalyzed Asymmetric Reductive Amination. ACS Catalysis, 2021, 11, 13809-13837.	11.2	67
12	1,8â€Naphthyridine Revisited: Applications in Dimetal Chemistry. European Journal of Inorganic Chemistry, 2009, 2009, 4023-4038.	2.0	64
13	Multifaceted Coordination of Naphthyridineâ€Functionalized N-Heterocyclic Carbene: A Novel â€œIr <sup>III</sup> (C <sup>sup&gt;N</sup> )(C <sup>sup&gt;C</sup> )â€Compound and Its Evaluation as Transfer Hydrogenation Catalyst. Inorganic Chemistry, 2009, 48, 11114-11122.	4.0	59
14	New Paramagnetic Re(II) Compounds with Nitrile and Cyanide Ligands Prepared by Homolytic Scission of Dirhenium Complexes. Inorganic Chemistry, 2003, 42, 4256-4258.	4.0	52
15	Effects of Axial Coordination on the Ruâ€Ru Single Bond in Diruthenium Paddlewheel Complexes. Inorganic Chemistry, 2006, 45, 4007-4015.	4.0	52
16	Amide synthesis from alcohols and amines catalyzed by a Ruâ€N-heterocyclic carbene (NHC)â€carbonyl complex. Journal of Organometallic Chemistry, 2014, 771, 124-130.	1.8	52
17	Structural Characterization, Magnetic Properties, and Electrospray Mass Spectrometry of Two Jahnâ€Teller Isomers of the Single-Molecule Magnet [Mn <sub>12</sub> O <sub>12</sub> (CF <sub>3</sub> COO) <sub>16</sub> (H <sub>2</sub> O) <sub>4</sub> ]. Inorganic Chemistry, 2004, 43, 1359-1369.	4.0	51
18	Axial Interaction of the [Ru <sub>2</sub> (CO) <sub>4</sub> ] <sup>2+</sup> Core with the Aryl Câ€H Bond: A Route to Cyclometalated Compounds Involving a Metalâ€Metal-Bonded Diruthenium Unit. Organometallics, 2006, 25, 6054-6060.	2.3	48

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19	Palladium-Catalysed Intramolecular Direct Arylation of 2-Bromobenzenesulfonic Acid Derivatives. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 3533-3538.	4.3	47
20	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.	2.3	46
21	Hemilability-Driven Water Activation: A Ni <sup>II</sup> Catalyst for Base-Free Hydration of Nitriles to Amides. <i>Chemistry - A European Journal</i> , 2017, 23, 7761-7771.	3.3	44
22	Recent advances in annellated NHCs and their metal complexes. <i>Coordination Chemistry Reviews</i> , 2020, 422, 213334.	18.8	43
23	Mixed-Metal Assemblies Involving Ferrocene-Naphthyridine Hybrids. <i>Inorganic Chemistry</i> , 2009, 48, 978-990.	4.0	39
24	Title is missing!. <i>Chemical Communications</i> , 2001, , 2562-2563.	4.1	36
25	Assemblies of multiply bonded [Re <sub>2</sub> ] <sup>n+</sup> cores possessing bond orders of 3 or 3.5 that are linked by dicarboxylate bridges. <i>Dalton Transactions RSC</i> , 2002, , 2168.	2.3	36
26	Mapping the Transformation [Ru <sup>II</sup> (CO) <sub>3</sub> Cl] <sub>2</sub> → [Ru <sup>I</sup> (CO) <sub>2</sub> ] <sub>2</sub> Implications in Binuclear Water-Gas Shift Chemistry. <i>Chemistry - A European Journal</i> , 2010, 16, 2574-2585.	3.3	36
27	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.	13.8	36
28	Role of Axial Donors in the Ligand Isomerization Processes of Quadruply Bonded Dimolybdenum(II) Compounds. <i>Inorganic Chemistry</i> , 2008, 47, 2212-2222.	4.0	35
29	Amide-Functionalized Naphthyridines on a Rh <sup>II</sup> -Rh <sup>II</sup> 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, 16537-16549.	3.3	34
30	Hydrogen-bonding as a tool for building one-dimensional structures based on dimetal building blocks. <i>Polyhedron</i> , 2003, 22, 3009-3014.	2.2	33
31	Palladium-Catalyzed Direct Arylation of Thiophenes Bearing SO <sub>2</sub> R Substituents. <i>Journal of Organic Chemistry</i> , 2011, 76, 6407-6413.	3.2	33
32	Ligand-Bridged Dinuclear Cyclometalated Ir <sup>III</sup> Complexes: From Metallamacrocycles to Discrete Dimers. <i>Inorganic Chemistry</i> , 2012, 51, 1319-1329.	4.0	31
33	Palladium-catalysed direct arylations of NH-free pyrrole and N-tosylpyrrole with aryl bromides. <i>Tetrahedron Letters</i> , 2012, 53, 509-513.	1.4	31
34	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.	1.8	31
35	Acceptorless Alcohol Dehydrogenation: A Mechanistic Perspective. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2016, 86, 561-579.	1.2	30
36	Palladium-Catalysed Dehydrogenative C <sub>3</sub> -C <sub>3</sub> H Bonds Functionalisation into Alkenes: A Direct Access to N-Alkenylbenzenesulfonamides. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 119-124.	4.3	29

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37	Site-Directed Anchoring of an N-Heterocyclic Carbene on a Dimetal Platform: Evaluation of a Pair of Diruthenium(I) Catalysts for Carbene-Transfer Reactions from Ethyl Diazoacetate. <i>Organometallics</i> , 2011, 30, 2051-2058.	2.3	28
38	Olefin Oxygenation by Water on an Iridium Center. <i>Journal of the American Chemical Society</i> , 2015, 137, 6168-6171.	13.7	28
39	A rare unsupported iridium(ii) dimer, [IrCl <sub>2</sub> (CO) <sub>2</sub> ] <sub>2</sub> . <i>Chemical Communications</i> , 2008, , 2511.	4.1	27
40	A Triflamide- $\pi$ -Tethered N-Heterocyclic Carbene- $\pi$ -Rhodium(I) Catalyst for Hydroalkoxylation Reactions: Ligand-Promoted Nucleophilic Activation of Alcohols. <i>ChemCatChem</i> , 2017, 9, 1397-1401.	3.7	27
41	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.	3.3	27
42	Novel Heterobimetallic Metallamacrocycles Based on the 1,1'-Bis(1,8-naphthyrid-2-yl)ferrocene (FcNP2) Ligand: A Structural Characterization of the Complexes [M(FcNP2)] <sub>2</sub> <sup>2+</sup> (M = CuI, AgI) and [MCl <sub>2</sub> (FcNP2)] <sub>4</sub> (M = ZnII, CoII). <i>Organometallics</i> , 2006, 25, 2914-2916.	2.3	26
43	A RuII-N-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.	1.8	25
44	Coupling dirhodium units through terpyridine bridges: synthesis and structure of a novel molecular rectangle. <i>Chemical Communications</i> , 2002, , 2536-2537.	4.1	23
45	Room temperature C-H bond activation on a [PdII-PdI] platform. <i>Chemical Communications</i> , 2013, 49, 9764.	4.1	22
46	A Noninnocent Cyclooctadiene (COD) in the Reaction of an $\eta^5$ -Ir(COD)(OAc)-Precursor with Imidazolium Salts. <i>Organometallics</i> , 2013, 32, 192-201.	2.3	22
47	Fluorinated Anions Promoted $\pi$ -on Water-Activity of Di- and Tetranuclear Copper(I) Catalysts for Functional Triazole Synthesis. <i>Organometallics</i> , 2015, 34, 3047-3054.	2.3	21
48	Electronic Asymmetry of an Annelated Pyridyl-Mesoionic Carbene Scaffold: Application in Pd(II)-Catalyzed Wacker-Type Oxidation of Olefins. <i>ACS Catalysis</i> , 2020, 10, 11385-11393.	11.2	21
49	Is copper(i) hard or soft? A density functional study of mixed ligand complexes. <i>New Journal of Chemistry</i> , 2007, 31, 385.	2.8	20
50	C-C Bond Forming Reaction through Aldol-Type Addition Mediated by a [Ru <sub>2</sub> (CO) <sub>4</sub> ] <sub>2</sub> +Core. <i>Organometallics</i> , 2007, 26, 2598-2603.	2.3	20
51	Hydroxycarbonyl complexes as key intermediates in the base-assisted reduction of ruthenium carbonyls. <i>Dalton Transactions</i> , 2010, 39, 11301.	3.3	20
52	Understanding C-H Bond Activation on a Diruthenium(I) Platform. <i>Organometallics</i> , 2013, 32, 340-349.	2.3	20
53	Multimetallic compounds containing cyclometalated Ir(III) units: Synthesis, structure, electrochemistry and photophysical properties. <i>Inorganica Chimica Acta</i> , 2011, 372, 53-61.	2.4	19
54	Palladium-catalysed direct regiospecific arylation at C5 of thiophenes bearing SO <sub>2</sub> R substituents at C3. <i>RSC Advances</i> , 2012, 2, 7197.	3.6	19

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55	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.	1.8	19
56	Cyclometalations on the Imidazo[1,2-a][1,8]naphthyridine Framework. <i>Organometallics</i> , 2013, 32, 4306-4313.	2.3	18
57	Ligand assisted homolytic cleavage of the Ru–Ru single bond in [Ru <sub>2</sub> (CO) <sub>4</sub> ] <sup>2+</sup> core and the chemical consequence. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 4779-4787.	1.8	17
58	A trinuclear bright red luminophore containing cyclometallated Ir(III) motifs. <i>Chemical Communications</i> , 2011, 47, 10836-10838.	4.1	17
59	Decarboxylation reactions of alkyne-carboxylic acids as a route to multiply bonded [Re <sub>2</sub> ] <sup>n+</sup> $\mu_4$ -alkyne and $\mu_4$ -carbyne complexes. <i>Dalton Transactions RSC</i> , 2001, , 109-110.	2.3	16
60	Reaction of Re <sub>2</sub> ( $\mu_4$ -O <sub>2</sub> CCH <sub>3</sub> ) <sub>4</sub> Cl <sub>2</sub> with Bis(dicyclohexylphosphino)methane (dcpm): Isolation of the Mixed-Valent Complex O <sub>3</sub> ReReCl( $\mu$ -2-dcpm) <sub>2</sub> Containing an Unsupported Re–Re Bond. <i>Inorganic Chemistry</i> , 2001, 40, 2914-2917.	4.0	16
61	Bulky, spherical, and fluorinated anion BARF induces $\pi$ -on-water <sup>TM</sup> activity of silver salt for the hydration of terminal alkynes. <i>Tetrahedron Letters</i> , 2014, 55, 1444-1447.	1.4	16
62	Oxidative Route to Abnormal NHC Compounds from Singly Bonded [M–M] (M = Ru, Rh, Pd) Precursors. <i>Organometallics</i> , 2015, 34, 5509-5512.	2.3	16
63	A Rh(I) complex with an annulated N-heterocyclic carbene ligand for E-selective alkyne hydrosilylation. <i>Polyhedron</i> , 2019, 172, 167-174.	2.2	16
64	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.	2.3	16
65	Syntheses and reactivity studies of solvated dirhenium acetonitrile complexes. <i>Dalton Transactions</i> , 2006, , 4011.	3.3	15
66	Cyclometallated Ir(III) Complexes Containing Pyrazole/Pyrazine Carboxylate Ligands. <i>Australian Journal of Chemistry</i> , 2011, 64, 561.	0.9	15
67	Binuclear Copper Complexes and Their Catalytic Evaluation. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1680-1687.	2.0	15
68	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.	2.4	14
69	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.	2.3	14
70	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.	3.3	13
71	Carbon Monoxide Induced Double Cyclometalation at the Iridium Center. <i>Organometallics</i> , 2012, 31, 5533-5540.	2.3	12
72	Hydrosilylative reduction of primary amides to primary amines catalyzed by a terminal [Ni–OH] complex. <i>Chemical Communications</i> , 2021, 57, 9204-9207.	4.1	12

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73	Multi-site coordination of ferrocenylamido-naphthyridine conjugates [(5,7-dimethyl-1,8-naphthyridin-2-yl)amino]carbonyl]ferrocene and 1,1'-bis[(5,7-dimethyl-1,8-naphthyridin-2-yl)amino]carbonyl]ferrocene. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 67-73.	1.8	10
74	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.	1.8	10
75	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.	2.0	10
76	A Study of Structural and Bonding Variations in the Homologous Series [Mo <sub>2</sub> (CN) <sub>6</sub> (dppm) <sub>2</sub> ] <sub>n</sub> (n = 2, 1, 0). <i>Journal of Organometallic Chemistry</i> , 2019, 886, 1-8.	4.0	9
77	Contrasting Reactivity of 2-Mesityl-1,8-Naphthyridine (Mes-NP) with Singly-Bonded [Rh(I)-NHC] and [Ru(II)-NHC] Compounds. <i>Australian Journal of Chemistry</i> , 2011, 64, 583.	0.9	8
78	Palladium-catalysed direct heteroarylation of bromobenzenes bearing SO <sub>2</sub> R substituents at C2 or C4. <i>RSC Advances</i> , 2013, 3, 5987.	3.6	8
79	Reactivity of 3-Bromofuran in Pd-Catalyzed C-H Bond Arylation toward the Synthesis of 2,3,5-Triarylfurans. <i>Synthesis</i> , 2019, 51, 3241-3249.	2.3	8
80	The structural characterization of Re <sub>2</sub> Cl <sub>4</sub> (dcpm) <sub>2</sub> (dcpm=Cy <sub>2</sub> PCH <sub>2</sub> PCy <sub>2</sub> ) and a new crystallographic form of Re <sub>2</sub> Cl <sub>4</sub> (dppm) <sub>2</sub> (dppm=Ph <sub>2</sub> PCH <sub>2</sub> PPh <sub>2</sub> ). <i>Inorganica Chimica Acta</i> , 2000, 311, 138-142.	2.4	7
81	Reactions of the dirhenium(III,III) complex cis-Re <sub>2</sub> (O <sub>2</sub> CMe) <sub>2</sub> Cl <sub>4</sub> (H <sub>2</sub> O) <sub>2</sub> that lead to the dirhenium(III,II) complexes Re <sub>2</sub> (O <sub>2</sub> CMe) <sub>2</sub> Cl <sub>4</sub> (PR <sub>3</sub> ) <sub>2</sub> and tetra-rheniumcyclodiyne clusters of the type Re <sub>4</sub> (O) <sub>4</sub> Cl <sub>4</sub> (PR <sub>3</sub> ) <sub>4</sub> . <i>Dalton Transactions RSC</i> , 2000, , 4277-4284.	2.3	7
82	Oxidative route to polyoxomolybdates from quadruply bonded [Mo <sub>4</sub> Mo <sub>4</sub> ] precursor: Structural characterization of a tetranuclear cluster [Mo <sub>4</sub> Cl <sub>5</sub> O <sub>8</sub> (pyNP) <sub>2</sub> ] (pyNP=(2-(2-pyridyl)1,8-naphthyridine)). <i>Polyhedron</i> , 2007, 26, 1597-1602.	2.2	7
83	A bromo-capped diruthenium(II,II) N-heterocyclic carbene compound for <i>in situ</i> bromine generation with NBS: catalytic olefin aziridination reactions. <i>Dalton Transactions</i> , 2018, 47, 11917-11924.	3.3	7
84	A Protic Mn(II) Complex Based on a Naphthyridine-N-oxide Scaffold: Protonation/Deprotonation Studies and Catalytic Applications for Alkylation of Ketones. <i>Organometallics</i> , 2022, 41, 1836-1846.	2.3	7
85	Mixed-ligand compounds incorporating quadruply bonded dimolybdenum(II) core: Syntheses, structures and reactivity studies. <i>Inorganica Chimica Acta</i> , 2010, 363, 3078-3087.	2.4	6
86	Aerobic oxidation of primary amines to amides catalyzed by an annulated mesoionic carbene (MIC) stabilized Ru complex. <i>Catalysis Science and Technology</i> , 2021, 11, 7018-7028.	4.1	6
87	A Rh(III)-N-heterocyclic carbene complex from metal-metal singly bonded [Rh(III)-NHC-Rh(III)] precursor. <i>Journal of Chemical Sciences</i> , 2011, 123, 799-805.	1.5	5
88	A bicarbonate bridged diruthenium(II) complex: Key evidence for the decarboxylation step in the base-assisted reduction of Ru <sub>2</sub> Cl <sub>4</sub> (CO) <sub>6</sub> . <i>Inorganica Chimica Acta</i> , 2011, 372, 94-99.	2.4	5
89	Reactions of Acids with Naphthyridine-Functionalized Ferrocenes: Protonation and Metal Extrusion. <i>Inorganic Chemistry</i> , 2013, 52, 1432-1442.	4.0	5
90	Inter-ligand electronic coupling mediated through a dimetal bridge: dependence on metal ions and ancillary ligands. <i>Dalton Transactions</i> , 2017, 46, 5660-5669.	3.3	5

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91	Base-Controlled Directed Synthesis of Metal–Methyleneimidazoline (MIz) and Metal–Mesoionic Carbene (MIC) Compounds. <i>Organometallics</i> , 2020, 39, 189-200.	2.3	5
92	Naphthyridine–imidazole hybrid ligands for the construction of multinuclear architecture. <i>Inorganica Chimica Acta</i> , 2011, 374, 320-326.	2.4	4
93	Cyclometalated Ir–Sn Construct for Cyanosilylation. <i>Journal of Cluster Science</i> , 2012, 23, 839-851.	3.3	4
94	Synthesis of (Poly)halo–Substituted Diarylsulfones through Palladium–Catalyzed C–H Bond Sulfonation Using (Poly)Halobenzenesulfonyl Chlorides. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6114-6120.	2.4	4
95	Reactivity of antipyrine and haloantipyrines in Pd-catalyzed C–H bond arylations. <i>Tetrahedron Letters</i> , 2020, 61, 151798.	1.4	4
96	Reactivity and Catalysis at Sites Trans to the [Ru–Ru] Bond. <i>Topics in Organometallic Chemistry</i> , 2015, , 59-101.	0.7	3
97	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.	1.2	2
98	Redox-active TTF carboxylate as an axial bridging ligand for dirhenium metal–metal bonded complexes. <i>Inorganica Chimica Acta</i> , 2015, 425, 233-238.	2.4	2
99	Switchable activity of a Ru catalyst bearing an annulated mesoionic carbene ligand for oxidation of primary amines. <i>Applied Organometallic Chemistry</i> , 0, , .	3.5	2
100	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.	3.3	1