

Bas de Bruin

List of Publications by Year in descending order

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298
papers

15,827
citations

17405

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108
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375
all docs

375
docs citations

375
times ranked

10051
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox Non-Innocent Ligands: Versatile New Tools to Control Catalytic Reactions. ACS Catalysis, 2012, 2, 270-279.	5.5	912
2	Transition metal catalysis in confined spaces. Chemical Society Reviews, 2015, 44, 433-448.	18.7	537
3	Synthesis of functional α -polyolefins TM : state of the art and remaining challenges. Chemical Society Reviews, 2013, 42, 5809.	18.7	365
4	Mechanism of Cobalt(II) Porphyrin-Catalyzed C-H Amination with Organic Azides: Radical Nature and H-Atom Abstraction Ability of the Key Cobalt(III)-Nitrene Intermediates. Journal of the American Chemical Society, 2011, 133, 12264-12273.	6.6	320
5	Molecular and Electronic Structures of Bis(pyridine-2,6-diimine)metal Complexes [ML ₂](PF ₆) _n (n = 0, 1). J. Am. Chem. Soc. 2011, 133, 12264-12273.	1.9	316
6	Hydrogenation of carboxylic acids with a homogeneous cobalt catalyst. Science, 2015, 350, 298-302.	6.0	314
7	α -Carbene Radicals TM in Co(II)-Catalyzed Olefin Cyclopropanation. Journal of the American Chemical Society, 2010, 132, 10891-10902.	6.6	301
8	Ligands that Store and Release Electrons during Catalysis. Angewandte Chemie - International Edition, 2011, 50, 3356-3358.	7.2	249
9	Complexes with Nitrogen-Centered Radical Ligands: Classification, Spectroscopic Features, Reactivity, and Catalytic Applications. Angewandte Chemie - International Edition, 2013, 52, 12510-12529.	7.2	243
10	Experimental Evidence for Cobalt(III)-Carbene Radicals: Key Intermediates in Cobalt(II)-Based Metalloradical Cyclopropanation. Journal of the American Chemical Society, 2011, 133, 8518-8521.	6.6	217
11	Closed-shell and open-shell square-planar iridium nitrido complexes. Nature Chemistry, 2012, 4, 552-558.	6.6	188
12	Characterization of Porphyrin-Co(III)-Nitrene Radical TM Species Relevant in Catalytic Nitrene Transfer Reactions. Journal of the American Chemical Society, 2015, 137, 5468-5479.	6.6	185
13	Redox Noninnocence of Carbene Ligands: Carbene Radicals in (Catalytic) C-C Bond Formation. Inorganic Chemistry, 2011, 50, 9896-9903.	1.9	179
14	Catalytic Synthesis of N-Heterocycles via Direct C(sp ³)-H Amination Using an Air-Stable Iron(III) Species with a Redox-Active Ligand. Journal of the American Chemical Society, 2017, 139, 5117-5124.	6.6	172
15	Nitrene Radical Intermediates in Catalytic Synthesis. Chemistry - A European Journal, 2017, 23, 13819-13829.	1.7	164
16	C1 polymerisation and related C-C bond forming α -carbeneinsertion TM reactions. Chemical Society Reviews, 2010, 39, 1706-1723.	18.7	155
17	Catalytic Synthesis of 2-H-Chromenes. ACS Catalysis, 2015, 5, 2329-2366.	5.5	153
18	Intramolecular Redox-Active Ligand-to-Substrate Single-Electron Transfer: Radical Reactivity with a Palladium(II) Complex. Journal of the American Chemical Society, 2014, 136, 11574-11577.	6.6	152

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19	Metalloradical Approach to 2<i>H</i>-Chromenes. <i>Journal of the American Chemical Society</i> , 2014, 136, 1090-1096.	6.6	142
20	Formation of a Paramagnetic Al Complex and Extrusion of Fe during the Reaction of (Diiminepyridine)Fe with AlR ₃ (R = Me, Et). <i>Journal of the American Chemical Society</i> , 2005, 127, 17204-17206.	6.6	141
21	Remote Supramolecular Control of Catalyst Selectivity in the Hydroformylation of Alkenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 396-400.	7.2	139
22	Metal-to-Ligand Electron Transfer in Diiminopyridine Complexes of Mn ^{II} Zn. A Theoretical Study. <i>Inorganic Chemistry</i> , 2001, 40, 4649-4655.	1.9	138
23	Dioxazolones: Stable Substrates for the Catalytic Transfer of Acyl Nitrenes. <i>ACS Catalysis</i> , 2020, 10, 4751-4769.	5.5	135
24	Rhodium-Mediated Stereoselective Polymerization of α -Carbenes. <i>Journal of the American Chemical Society</i> , 2006, 128, 9746-9752.	6.6	132
25	Olefin hydrogenation using diimine pyridine complexes of Co and Rh. <i>Journal of Molecular Catalysis A</i> , 2005, 232, 151-159.	4.8	129
26	Cobalt α -Porphyrin α -Catalysed Intramolecular Ring α -Closing C α H Amination of Aliphatic Azides: A Nitrene α -Radical Approach to Saturated Heterocycles. <i>Chemistry - A European Journal</i> , 2017, 23, 7945-7952.	1.7	129
27	Functional Models for Rhodium-Mediated Olefin-Oxygenation Catalysis. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4142-4157.	7.2	125
28	The radical mechanism of cobalt(ii) porphyrin-catalyzed olefin aziridination and the importance of cooperative H-bonding. <i>Dalton Transactions</i> , 2011, 40, 5697.	1.6	124
29	Synthesis and Reactivity of a Transient, Terminal Nitrido Complex of Rhodium. <i>Journal of the American Chemical Society</i> , 2013, 135, 17719-17722.	6.6	120
30	Co ^{III} α -Carbene Radical Approach to Substituted 1<i>H</i>-Indenes. <i>Journal of the American Chemical Society</i> , 2016, 138, 8968-8975.	6.6	117
31	Reactivity of Dinitrogen Bound to Mid α -and Late α -Transition α -Metal Centers. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 567-598.	1.0	108
32	Non-innocent ligands. <i>Chemical Communications</i> , 2015, 51, 1553-1554.	2.2	106
33	Encapsulation of Metalloporphyrins in a Self α -Assembled Cubic M ₈ L ₆ Cage: A New Molecular Flask for Cobalt α -Porphyrin α -Catalysed Radical α -Type Reactions. <i>Chemistry - A European Journal</i> , 2013, 19, 10170-10178.	1.7	103
34	Amino olefin nickel(i) and nickel(0) complexes as dehydrogenation catalysts for amine boranes. <i>Chemical Science</i> , 2011, 2, 723.	3.7	100
35	Encapsulated Cobalt α -Porphyrin as a Catalyst for Size α -Selective Radical α -Type Cyclopropanation Reactions. <i>Chemistry - A European Journal</i> , 2014, 20, 4880-4884.	1.7	99
36	Exchange of Organic Radicals with Organo-Cobalt Complexes Formed in the Living Radical Polymerization of Vinyl Acetate. <i>Journal of the American Chemical Society</i> , 2008, 130, 13373-13381.	6.6	96

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37	Selective P ₄ activation by an organometallic nickel(<i>i</i>) radical: formation of a dinuclear nickel(<i>ii</i>) tetraphosphide and related di- and trichalcogenides. Chemical Communications, 2014, 50, 7014-7016.	2.2	96
38	Rh-Mediated Polymerization of Carbenes: Mechanism and Stereoregulation. Journal of the American Chemical Society, 2007, 129, 11631-11641.	6.6	95
39	Sulfonamido ⁺ Phosphoramidite Ligands in Cooperative Dinuclear Hydrogenation Catalysis. Journal of the American Chemical Society, 2009, 131, 6683-6685.	6.6	95
40	Highly Selective Asymmetric Rh-Catalyzed Hydroformylation of Heterocyclic Olefins. Journal of the American Chemical Society, 2012, 134, 6607-6616.	6.6	94
41	Homolytic N-H Activation of Ammonia: Hydrogen Transfer of Parent Iridium Ammine, Amide, Imide, and Nitride Species. Inorganic Chemistry, 2015, 54, 9290-9302.	1.9	94
42	Base-Free Production of H ₂ by Dehydrogenation of Formic Acid Using An Iridium ^{bis} METAMORPhos Complex. Chemistry - A European Journal, 2013, 19, 11507-11511.	1.7	87
43	Carbene insertion into transition metal-carbon bonds: a new tool for catalytic C-C bond formation. Catalysis Science and Technology, 2011, 1, 153.	2.1	86
44	A Self-Assembled Molecular Cage for Substrate-Selective Epoxidation Reactions in Aqueous Media. ACS Catalysis, 2016, 6, 3106-3112.	5.5	85
45	Redox-Active Ligand-Induced Homolytic Bond Activation. Angewandte Chemie - International Edition, 2015, 54, 1516-1520.	7.2	83
46	Catalytic Dibenzocyclooctene Synthesis via Cobalt(III)-Carbene Radical and <i>ortho</i> -Quinodimethane Intermediates. Angewandte Chemie - International Edition, 2018, 57, 140-145.	7.2	83
47	Metal-Catalysed Azidation of Organic Molecules. European Journal of Organic Chemistry, 2017, 2017, 1152-1176.	1.2	81
48	Carbene Radicals in Cobalt(II)-Porphyrin-Catalysed Carbene Carbonylation Reactions; A Catalytic Approach to Ketenes. Chemistry - A European Journal, 2013, 19, 12953-12958.	1.7	78
49	Selective Oxidation of [Rh(cod)] ⁺ by H ₂ O ₂ and O ₂ . Chemistry - A European Journal, 1999, 5, 2921-2936.	1.7	77
50	Cooperative & Redox Non-Innocent Ligands in Directing Organometallic Reactivity (Eur. J. Inorg.)	1.0	77
51	Ir(II)(ethene): A Metal or Carbon Radical?. Journal of the American Chemical Society, 2005, 127, 1895-1905.	6.6	76
52	Dehydrogenation of formic acid by Ir ^{bis} METAMORPhos complexes: experimental and computational insight into the role of a cooperative ligand. Chemical Science, 2015, 6, 1027-1034.	3.7	75
53	Dynamic Combinatorial Chemistry: The Unexpected Choice of Receptors by Guest Molecules. Angewandte Chemie - International Edition, 2006, 45, 2660-2663.	7.2	74
54	Convenient Transfer Semihydrogenation Methodology for Alkynes Using a Pd ^{II} -NHC Precatalyst. ACS Catalysis, 2014, 4, 1349-1357.	5.5	74

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55	An Isolated Nitridyl Radicalâ€Bridged {Rh(N[.])} Complex. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6814-6818.	7.2	71
56	Reversible Redox Chemistry and Catalytic C(sp³)â€H Amination Reactivity of a Paramagnetic Pd Complex Bearing a Redox-Active <i>o</i>-Aminophenol-Derived NNO Pincer Ligand. <i>Inorganic Chemistry</i> , 2016, 55, 8603-8611.	1.9	70
57	A platinum(ii) metallonitrene with a triplet ground state. <i>Nature Chemistry</i> , 2020, 12, 1054-1059.	6.6	70
58	Water Splitting by Cooperative Catalysis. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8178-8181.	7.2	68
59	Carbonâ€Carbon Bond Activation of 2,2,6,6-Tetramethyl-piperidine-1-oxyl by a Rh^{II} Metalloradical:â€ A Combined Experimental and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2008, 130, 2051-2061.	6.6	67
60	Hydrogenâ€Atom Transfer in Reactions of Organic Radicals with [Co^{II}(por)][.] (por=Porphyrinato) and in Subsequent Addition of [Co(H)(por)] to Olefins. <i>Chemistry - A European Journal</i> , 2009, 15, 4312-4320.	1.7	66
61	Paramagnetic (Alkene)Rh and (Alkene)Ir Complexes: Metal or Ligand Radicals?. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 211-230.	1.0	65
62	Oxidation of RhI(olefin) Fragments to 2-Rhoda(III)oxetanes. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2064-2067.	4.4	64
63	Multitechnique Approach to Reveal the Mechanism of Copper(II)-Catalyzed Arylation Reactions. <i>Organometallics</i> , 2010, 29, 3085-3097.	1.1	64
64	Homogeneously catalysed conversion of aqueous formaldehyde to H2 and carbonate. <i>Nature Communications</i> , 2017, 8, 14990.	5.8	64
65	Lowâ€Valent Iron(I) Amido Olefin Complexes as Promoters for Dehydrogenation Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5766-5771.	7.2	63
66	Highly enantioselective hydroformylation of dihydrofurans catalyzed by hybrid phosphineâ€phosphonite rhodium complexes. <i>Chemical Communications</i> , 2010, 46, 1244.	2.2	62
67	Ligand Redox Noninnocence in [Co^{III}(TAML)]⁰â€ Complexes Affects Nitrene Formation. <i>Journal of the American Chemical Society</i> , 2020, 142, 552-563.	6.6	62
68	Beyond Classical Reactivity Patterns: Hydroformylation of Vinyl and Allyl Arenes to Valuable Î²- and Î³-Aldehyde Intermediates Using Supramolecular Catalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 8418-8429.	6.6	61
69	Ligandâ€Centred Reactivity of Bis(picoyl)amine Iridium: Sequential Deprotonation, Oxidation and Oxygenation of a â€Nonâ€Innocentâ€Ligand. <i>Chemistry - A European Journal</i> , 2009, 15, 11878-11889.	1.7	60
70	Transition Metal Catalysis Controlled by Hydrogen Bonding in the Second Coordination Sphere. <i>Chemical Reviews</i> , 2022, 122, 12308-12369.	23.0	60
71	Deprotonation Induced Ligand-to-Metal Electron Transfer: Synthesis of a Mixed-Valence Rh(â€I,I) Dinuclear Compound and Its Reaction with Dioxigen. <i>Journal of the American Chemical Society</i> , 2008, 130, 5844-5845.	6.6	58
72	Binuclear [(cod)(Cl)Ir(bpi)Ir(cod)]⁺ for Catalytic Water Oxidation. <i>Organometallics</i> , 2011, 30, 372-374.	1.1	58

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73	Efficient Copper-Catalyzed Multicomponent Synthesis of <i>N</i> -Acyl Amidines via Acyl Nitrenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 15240-15249.	6.6	58
74	Rhodium-Catalyzed Asymmetric Hydroformylation with Taddol-Based IndolPhos Ligands. <i>Organometallics</i> , 2010, 29, 2767-2776.	1.1	57
75	C ₂ H Activation of Benzene by a Photoactivated Ni ^{II} (azide): Formation of a Transient Nickel Nitrido Complex. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7055-7059.	7.2	57
76	2-Rhodaoxetanes: Their Formation of Oxidation of [Rh(ethene)] ⁺ and Their Reactivity upon Protonation. <i>Chemistry - A European Journal</i> , 2000, 6, 298-312.	1.7	56
77	Rhodium-Mediated Stereospecific Carbene Polymerization: From Homopolymers to Random and Block Copolymers. <i>Macromolecules</i> , 2010, 43, 8892-8903.	2.2	54
78	Electrochemical Aziridination of Internal Alkenes with Primary Amines. <i>CheM</i> , 2021, 7, 255-266.	5.8	54
79	Amplified Vibrational Circular Dichroism as a Probe of Local Biomolecular Structure. <i>Journal of the American Chemical Society</i> , 2014, 136, 3530-3535.	6.6	53
80	Catalytic 1,2-dihydronaphthalene and <i>E</i> -aryl-diene synthesis via Co ^{III} Carbene radical and <i>o</i> -quinodimethane intermediates. <i>Chemical Science</i> , 2017, 8, 8221-8230.	3.7	53
81	Dioxygen Activation by a Mononuclear Ir ^{III} Ethene Complex. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2135.	7.2	52
82	Pincer ligands with an all-phosphorus donor set: subtle differences between rhodium and palladium. <i>Dalton Transactions</i> , 2011, 40, 8822.	1.6	52
83	How Solvent Affects C-H Activation and Hydrogen Production Pathways in Homogeneous Ru-Catalyzed Methanol Dehydrogenation Reactions. <i>ACS Catalysis</i> , 2018, 8, 6908-6913.	5.5	51
84	Single-Electron Transfer in Frustrated Lewis Pair Chemistry. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22210-22216.	7.2	51
85	Hydrogen-Atom Transfer in Open-Shell Organometallic Chemistry: The Reactivity of Rh ^{II} (cod) and Ir ^{II} (cod) Radicals. <i>Chemistry - A European Journal</i> , 2007, 13, 3386-3405.	1.7	50
86	Ligand denticity controls enantiomeric preference in DNA-based asymmetric catalysis. <i>Chemical Communications</i> , 2012, 48, 2394.	2.2	50
87	Binuclear Cooperative Catalysts for the Hydrogenation and Hydroformylation of Olefins. <i>ChemCatChem</i> , 2013, 5, 2785-2793.	1.8	50
88	Selective P ₄ Activation by a Highly Reduced Cobaltate: Synthesis of Dicobalt Tetraphosphido Complexes. <i>Chemistry - A European Journal</i> , 2017, 23, 6094-6102.	1.7	50
89	Catalytic Synthesis of Indolines by Hydrogen Atom Transfer to Cobalt(III) Carbene Radicals. <i>Chemistry - A European Journal</i> , 2018, 24, 5253-5258.	1.7	50
90	Enhanced Reactivity of 2-Rhodaoxetanes through a Labile Acetonitrile Ligand. <i>Chemistry - A European Journal</i> , 2001, 7, 416-422.	1.7	49

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91	EPR Spectroscopy as a Tool in Homogeneous Catalysis Research. <i>Topics in Catalysis</i> , 2015, 58, 719-750.	1.3	49
92	Photolytic N ₂ Splitting: A Road to Sustainable NH ₃ Production?. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 42-44.	7.2	49
93	A Phosphorus Analogue of Bis(η ⁴ -cyclobutadiene)iron(0). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3104-3107.	7.2	48
94	Low-Valent Iron Mono-Diazadiene Compounds: Electronic Structure and Catalytic Application. <i>ACS Catalysis</i> , 2015, 5, 6230-6240.	5.5	48
95	Ligand Oxidation of a Deprotonated Bis(picoyl)amine Ir ^I (cod) Complex. <i>Chemistry - A European Journal</i> , 2008, 14, 10932-10936.	1.7	47
96	Ligand Design in Rh(diene)-Mediated σ -Carbene Polymerization; Efficient Synthesis of High-Mass, Highly Stereoregular, and Fully Functionalized Carbon-Chain Polymers. <i>Organometallics</i> , 2010, 29, 2823-2826.	1.1	47
97	Stereospecific Carbene Polymerization with Oxygenated Rh(diene) Species. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5157-5161.	7.2	47
98	Deprotonation Induced Ligand Oxidation in a Ni ^{II} Complex of a Redox Noninnocent <i>N</i> -(2-Aminophenyl)benzene-1,2-diamine and Its Use in Catalytic Alcohol Oxidation. <i>Inorganic Chemistry</i> , 2016, 55, 6114-6123.	1.9	47
99	Diastereoselective Radical-Type Cyclopropanation of Electron-Deficient Alkenes Mediated by the Highly Active Cobalt(II) Tetramethyltetraaza[14]annulene Catalyst. <i>ChemCatChem</i> , 2017, 9, 1413-1421.	1.8	47
100	Structure and Reactivity of a Unique Y-Shaped Tricoordinate Bis(silyl)platinum(II)-NHC Complex. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3161-3164.	7.2	46
101	Redox-Active Bis(phenolate) N-Heterocyclic Carbene [OCO] Pincer Ligands Support Cobalt Electron Transfer Series Spanning Four Oxidation States. <i>Inorganic Chemistry</i> , 2017, 56, 12421-12435.	1.9	46
102	Transition-Metal-Free Cleavage of CO. <i>Chemistry - A European Journal</i> , 2017, 23, 13628-13632.	1.7	46
103	Cobalt-Catalyzed Hydrogenations via Olefin Cobaltate and Hydride Intermediates. <i>ACS Catalysis</i> , 2019, 9, 7596-7606.	5.5	46
104	Selective C-C Coupling of Ir-Ethene and Ir-Carbenoid Radicals. <i>Chemistry - A European Journal</i> , 2008, 14, 7594-7599.	1.7	45
105	Reactivity of a Mononuclear Iridium(I) Species Bearing a Terminal Phosphido Fragment Embedded in a Triphosphorus Ligand. <i>Inorganic Chemistry</i> , 2013, 52, 1682-1684.	1.9	45
106	Etching AlAs with HF for Epitaxial Lift-Off Applications. <i>Journal of the Electrochemical Society</i> , 2004, 151, G347.	1.3	44
107	An iridium(III/IV/V) redox series featuring a terminal imido complex with triplet ground state. <i>Chemical Science</i> , 2018, 9, 4325-4332.	3.7	44
108	Homoleptic Diphosphacyclobutadiene Complexes [M(η ⁴ -P ₂ C ₂ R ₂) ₂] ^{x+} (M=Fe, Co; x=0, 1). <i>Chemistry - A European Journal</i> , 2010, 16, 14322-14334.	1.7	43

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109	Direct Probing of Photoinduced Electron Transfer in a Self-Assembled Biomimetic [2Fe2S]-Hydrogenase Complex Using Ultrafast Vibrational Spectroscopy. <i>Inorganic Chemistry</i> , 2014, 53, 5373-5383.	1.9	43
110	Germanium(π -corrole) complex: reactivity and mechanistic studies of visible-light promoted N-H bond activations. <i>Chemical Science</i> , 2014, 5, 916-921.	3.7	43
111	Hydrogen-Bond-Assisted Activation of Allylic Alcohols for Palladium-Catalyzed Coupling Reactions. <i>ChemSusChem</i> , 2014, 7, 890-896.	3.6	41
112	[Ni(cod) ₂][Al(OR _F) ₄], a Source for Naked Nickel(I) Chemistry. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14706-14709.	7.2	41
113	Ir(ethene): Metal or carbon radical? Part II: Oxygenation via iridium or direct oxygenation at ethene?. <i>Dalton Transactions</i> , 2005, , 979.	1.6	40
114	Rh-Mediated C1-Polymerization: Copolymers from Diazoesters and Sulfoxonium Ylides. <i>ACS Catalysis</i> , 2012, 2, 2046-2059.	5.5	40
115	Reversible cyclometalation at Rh ^I as a motif for metal-ligand bifunctional bond activation and base-free formic acid dehydrogenation. <i>Catalysis Science and Technology</i> , 2016, 6, 1320-1327.	2.1	40
116	Difluorocarbene transfer from a cobalt complex to an electron-deficient alkene. <i>Chemical Communications</i> , 2017, 53, 4382-4385.	2.2	40
117	Rh-Mediated Carbene Polymerization: from Multistep Catalyst Activation to Alcohol-Mediated Chain-Transfer. <i>ACS Catalysis</i> , 2012, 2, 246-260.	5.5	39
118	Terminal Phosphanido Rhodium Complexes Mediating Catalytic π -P and π -C Bond Formation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 472-475.	7.2	39
119	Application of [Co(Corrole)] ⁺ Complexes in Ring-Closing C-H Amination of Aliphatic Azides via Nitrene Radical Intermediates. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 617-626.	1.0	39
120	Photoinduced and Thermal Single-Electron Transfer to Generate Radicals from Frustrated Lewis Pairs. <i>Chemistry - A European Journal</i> , 2020, 26, 9005-9011.	1.7	39
121	Selective Co-Encapsulation Inside an M ₆ L ₄ Cage. <i>Chemistry - A European Journal</i> , 2016, 22, 15468-15474.	1.7	38
122	Catalytic Synthesis of 8-Membered Ring Compounds via Cobalt(III)-Carbene Radicals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11073-11079.	7.2	38
123	[Co(TPP)]-Catalyzed Formation of Substituted Piperidines. <i>Chemistry - A European Journal</i> , 2019, 25, 5658-5663.	1.7	37
124	Comparison of the Full Catalytic Cycle of Hydroformylation Mediated by Mono- and Bis-Ligated Triphenylphosphine-Rhodium Complexes by Using DFT Calculations. <i>ChemCatChem</i> , 2015, 7, 1708-1718.	1.8	35
125	Dynamic Ligand Reactivity in a Rhodium Pincer Complex. <i>Chemistry - A European Journal</i> , 2015, 21, 12683-12693.	1.7	35
126	Phosphinoureas: Cooperative Ligands in Rhodium-Catalyzed Hydroformylation? On the Possibility of a Ligand-Assisted Reductive Elimination of the Aldehyde. <i>Organometallics</i> , 2010, 29, 2413-2421.	1.1	34

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127	Unraveling the Electronic Structures of Low-Valent Naphthalene and Anthracene Iron Complexes: X-ray, Spectroscopic, and Density Functional Theory Studies. <i>Inorganic Chemistry</i> , 2012, 51, 6719-6730.	1.9	34
128	Supramolecular NHC ligands: on the influence of ZnII-templates on the activity of RhI(cod) complexes in π -carbene polymerization TM . <i>Dalton Transactions</i> , 2009, , 8970.	1.6	33
129	Electromeric Rhodium Radical Complexes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 385-389.	7.2	33
130	Dinuclear Palladium Complexes with Two Ligand-Centered Radicals and a Single Bridging Ligand: Subtle Tuning of Magnetic Properties. <i>Chemistry - A European Journal</i> , 2015, 21, 5879-5886.	1.7	33
131	Disproportionation of RhII(cod) to RhI(cod) and RhIII(cycloocta-2,5-dien-1-yl): π Hydrogen Atom Transfer vs Electron and Proton Transfer. <i>Organometallics</i> , 2003, 22, 3022-3024.	1.1	32
132	Ligand Effects on the Hydrogenation of Biomass-Inspired Substrates with Bifunctional Ru, Ir, and Rh Complexes. <i>ChemSusChem</i> , 2013, 6, 1737-1744.	3.6	32
133	Strong Binding of Paraquat and Polymeric Paraquat Derivatives by Basket-Shaped Hosts. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 2132-2134.	4.4	31
134	Pd-mediated carbenepolymerisation: activity of palladium(π) versus low-valent palladium. <i>Polymer Chemistry</i> , 2011, 2, 422-431.	1.9	31
135	Rhodium catalysed conversion of carbenes into ketenes and ketene imines using PNN pincer complexes. <i>Organic Chemistry Frontiers</i> , 2015, 2, 1561-1577.	2.3	31
136	Accessing the Cp ^{Ar} Ni(I) Synthons: Reactions with N-Heterocyclic Carbenes, TEMPO, Sulfur, and Selenium. <i>Organometallics</i> , 2016, 35, 1624-1631.	1.1	31
137	Catalytic Dibenzocyclooctene Synthesis via Cobalt(III) π -Carbene Radical and π -Quinodimethane Intermediates. <i>Angewandte Chemie</i> , 2018, 130, 146-151.	1.6	31
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#	ARTICLE	IF	CITATIONS
271	Synthesis, electronic structure and redox properties of the diruthenium sandwich complexes [Cp* ₂ Ru(1/4-C ₁₀ H ₈)RuCp*] _x (x = 0, 1+; Cp* =) Tj ETQq1 1 0.784314 156 /Overlock 10	1.9	5
272	Phosphorus Analogues of [Ni(bpy) ₂]: Synthesis and Application in Carbon-Halogen Bond Activation. <i>Inorganic Chemistry</i> , 2020, 59, 9951-9961.	1.9	5
273	Aufbau- und Abbaureaktionen von weichen Phosphor induziert durch heterocyclische Carbenkomplexe von Nickel(0). <i>Angewandte Chemie</i> , 2020, 132, 14252-14257.	1.6	5
274	Tellur(II)/Tellur(III)-katalysierte dehydrierende C-C-Bindungsbildung. <i>Angewandte Chemie</i> , 2021, 133, 6525-6530.	1.6	5
275	New routes toward metallated methanofullerene terdentate bisaminoaryl ligands. <i>Inorganica Chimica Acta</i> , 2002, 327, 31-40.	1.2	4
276	Copper-catalyzed oxidative dehydrogenative functionalization of alkanes to allylic esters. <i>Inorganica Chimica Acta</i> , 2020, 500, 119190.	1.2	4
277	Controlling the Activity of a Caged Cobalt-Porphyrin Catalyst in Cyclopropanation Reactions with Peripheral Cage Substituents. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 2890-2898.	1.0	4
278	Computational mechanistic studies of ruthenium catalysed methanol dehydrogenation. <i>Dalton Transactions</i> , 2022, 51, 3019-3026.	1.6	4
279	Chiral-at-Ruthenium Catalyst Does the Job: Access to Enantioenriched 2-Imidazolidinones. <i>Chem</i> , 2020, 6, 1851-1853.	5.8	3
280	Visible-light-induced addition of carboxymethanide to styrene from monochloroacetic acid. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 398-408.	1.3	3
281	New Tetracobalt Cluster Compounds for Electrocatalytic Proton Reduction: Syntheses, Structures, and Reactivity. <i>Chemistry - A European Journal</i> , 2015, 21, 4027-4038.	1.7	2
282	Photoactive Fe Catalyst for Light-Triggered Alkyd Paint Curing. <i>Jacs Au</i> , 2022, 2, 531-540.	3.6	2
283	Antiferromagnetic interactions in a distorted cubane-type tetranuclear manganese cluster. <i>Journal of Physics: Conference Series</i> , 2010, 200, 022022.	0.3	1
284	Ligand- and Metal-Based Reactivity of a Neutral Ruthenium Diolefin Diazadiene Complex: The Innocent, the Guilty and the Suspicious. <i>Chemistry - A European Journal</i> , 2018, 24, 5400-5400.	1.7	1
285	Frontispiece: Catalytic Dibenzocyclooctene Synthesis via Cobalt(III)-Carbene Radical and ortho-Quinodimethane Intermediates. <i>Angewandte Chemie - International Edition</i> , 2018, 57, .	7.2	1
286	Reactivity of Rhodium(II) amido/Rhodium(I) aminyl complexes. <i>Inorganica Chimica Acta</i> , 2018, 482, 709-716.	1.2	1
287	Mono- and Dinuclear Carbonyl Complexes of (1,4,7-Trimethyl-1,4,7-triazacyclononane)rhodium(I): Facile Migration of a C(OMe) Ligand at a Dinuclear Rh(1/4-CO) ₂ Rh Core. , 1998, 1998, 401.		1
288	Dioxygen activation by a mononuclear Ir(III)-ethene complex. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2135-8.	7.2	1

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289	Functional Models for Rhodium-Mediated Olefin-Oxygenation Catalysis. <i>ChemInform</i> , 2004, 35, no.	0.1	0
290	Dynamic Ligand Reactivity in a Rhodium Pincer Complex. <i>Chemistry - A European Journal</i> , 2015, 21, 12533-12533.	1.7	0
291	Diastereoselective Radical-Type Cyclopropanation of Electron-Deficient Alkenes Mediated by the Highly Active Cobalt(II) Tetramethyltetraaza[14]annulene Catalyst. <i>ChemCatChem</i> , 2017, 9, 1358-1358.	1.8	0
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293	Frontispiz: Catalytic Dibenzocyclooctene Synthesis via Cobalt(III)-Carbene Radical and <i>ortho</i> -Quinodimethane Intermediates. <i>Angewandte Chemie</i> , 2018, 130, .	1.6	0
294	Frontispiece: Mechanism of the Dehydrogenative Phenothiazination of Phenols. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	0
295	Appreciating Reviewers. <i>Inorganic Chemistry</i> , 2020, 59, 13803-13804.	1.9	0
296	Carbene or C1 Polymerization. , 2017, , 117-136.		0
297	Cheap and Diastereoselective α -Lactam Formation. <i>ChemistryViews</i> , 0, , .	0.0	0
298	Peptide cyclisation promoted by supramolecular complex formation. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 575-578.	1.5	0