Kathrin Junge

List of Publications by Year
in descending order

300 papers	26,939 citations	4120 87 h-index	8138 148 g-index
328 all docs	328 docs citations	328 times ranked	14354 citing authors

#	Article	IF	Citations
1	Sustainable Metal Catalysis with Iron: From Rust to a Rising Star?. Angewandte Chemie - International Edition, 2008, 47, 3317-3321.	7.2	1,101
2	Bridging homogeneous and heterogeneous catalysis by heterogeneous single-metal-site catalysts. Nature Catalysis, 2018, 1, 385-397.	16.1	725
3	Carbon dioxide and formic acidâ€"the couple for environmental-friendly hydrogen storage?. Energy and Environmental Science, 2010, 3, 1207.	15.6	657
4	Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes. Nature Chemistry, 2013, 5, 537-543.	6.6	633
5	Efficient and selective N-alkylation of amines with alcohols catalysed by manganese pincer complexes. Nature Communications, 2016, 7, 12641.	5.8	516
6	Selective Catalytic Hydrogenations of Nitriles, Ketones, and Aldehydes by Well-Defined Manganese Pincer Complexes. Journal of the American Chemical Society, 2016, 138, 8809-8814.	6.6	485
7	Homogeneous catalysis using iron complexes: recent developments in selective reductions. Chemical Communications, 2011, 47, 4849.	2.2	428
8	Palladium-catalysed hydroxylation and alkoxylation. Chemical Society Reviews, 2011, 40, 4912.	18.7	373
9	Zinc-Catalyzed Reduction of Amides: Unprecedented Selectivity and Functional Group Tolerance. Journal of the American Chemical Society, 2010, 132, 1770-1771.	6.6	345
10	Catalytic Hydrogenation of Carboxylic Acid Esters, Amides, and Nitriles with Homogeneous Catalysts. Organic Process Research and Development, 2014, 18, 289-302.	1.3	336
11	General and Selective Iron-Catalyzed Transfer Hydrogenation of Nitroarenes without Base. Journal of the American Chemical Society, 2011, 133, 12875-12879.	6.6	322
12	Selective Reduction of Carboxylic Acid Derivatives by Catalytic Hydrosilylation. Angewandte Chemie - International Edition, 2011, 50, 6004-6011.	7.2	321
13	Pincerâ€Type Complexes for Catalytic (De)Hydrogenation and Transfer (De)Hydrogenation Reactions: Recent Progress. Chemistry - A European Journal, 2015, 21, 12226-12250.	1.7	312
14	Homogeneous Catalysis by Manganeseâ€Based Pincer Complexes. European Journal of Organic Chemistry, 2017, 2017, 4344-4362.	1.2	289
15	Hydrogenation of Esters to Alcohols with a Wellâ€Defined Iron Complex. Angewandte Chemie - International Edition, 2014, 53, 8722-8726.	7.2	269
16	Synthesis and Characterization of Ironâ€"Nitrogen-Doped Graphene/Coreâ€"Shell Catalysts: Efficient Oxidative Dehydrogenation of <i>N</i>-Heterocycles. Journal of the American Chemical Society, 2015, 137, 10652-10658.	6.6	265
17	A Convenient and General Ironâ€Catalyzed Reduction of Amides to Amines. Angewandte Chemie - International Edition, 2009, 48, 9507-9510.	7.2	264
18	Mild and selective hydrogenation of aromatic and aliphatic (di)nitriles with a well-defined iron pincer complex. Nature Communications, 2014, 5, 4111.	5.8	260

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19	Hydrogenation of Esters to Alcohols Catalyzed by Defined Manganese Pincer Complexes. Angewandte Chemie - International Edition, 2016, 55, 15364-15368.	7.2	259
20	Ironâ€Catalyzed Enantioselective Hydrosilylation of Ketones. Angewandte Chemie - International Edition, 2008, 47, 2497-2501.	7.2	258
21	Selective Methylation of Amines with Carbon Dioxide and H₂. Angewandte Chemie - International Edition, 2013, 52, 12156-12160.	7.2	254
22	Cooperative Transitionâ€Metal and Chiral BrÃ¸nsted Acid Catalysis: Enantioselective Hydrogenation of Imines To Form Amines. Angewandte Chemie - International Edition, 2011, 50, 5120-5124.	7.2	245
23	A General Catalytic Methylation of Amines Using Carbon Dioxide. Angewandte Chemie - International Edition, 2013, 52, 9568-9571.	7.2	234
24	Carbon Dioxideâ€"The Hydrogenâ€Storage Material of the Future?. ChemSusChem, 2008, 1, 801-804.	3.6	230
25	Iron-catalyzed selective reduction of nitroarenes to anilines using organosilanes. Chemical Communications, 2010, 46, 1769.	2.2	230
26	Selective Catalytic Hydrogenation of Heteroarenes with <i>N</i>-Graphene-Modified Cobalt Nanoparticles (Co₃O₄â€"Co/NGr@Î±-Al₂O₃). Journal of the American Chemical Society, 2015, 137, 11718-11724.	6.6	223
27	Efficient and highly selective iron-catalyzed reduction of nitroarenes. Chemical Communications, 2011, 47, 10972.	2.2	200
28	Utilization of CO₂ as a C1 Building Block for Catalytic Methylation Reactions. ACS Catalysis, 2017, 7, 1077-1086.	5.5	200
29	Enantioselective Synthesis of Amines: General, Efficient Ironâ€Catalyzed Asymmetric Transfer Hydrogenation of Imines. Angewandte Chemie - International Edition, 2010, 49, 8121-8125.	7.2	194
30	Highly Chemoselective Metal-Free Reduction of Phosphine Oxides to Phosphines. Journal of the American Chemical Society, 2012, 134, 18325-18329.	6.6	193
31	Two Iron Catalysts are Better than One: A General and Convenient Reduction of Aromatic and Aliphatic Primary Amides. Angewandte Chemie - International Edition, 2012, 51, 1662-1666.	7.2	187
32	Recent Developments for the Deuterium and Tritium Labeling of Organic Molecules. Chemical Reviews, 2022, 122, 6634-6718.	23.0	186
33	Improved and General Manganeseâ€Catalyzed Nâ€Methylation of Aromatic Amines Using Methanol. Chemistry - A European Journal, 2017, 23, 5410-5413.	1.7	183
34	Efficient and selective hydrogenation of amides to alcohols and amines using a well-defined manganeseâ€"PNN pincer complex. Chemical Science, 2017, 8, 3576-3585.	3.7	181
35	Manganese(I)â€Catalyzed Enantioselective Hydrogenation of Ketones Using a Defined Chiral PNP Pincer Ligand. Angewandte Chemie - International Edition, 2017, 56, 11237-11241.	7.2	180
36	Highly selective hydrogenation of arenes using nanostructured ruthenium catalysts modified with a carbonâ€"nitrogen matrix. Nature Communications, 2016, 7, 11326.	5.8	179

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37	Rise of the Zinc Age in Homogeneous Catalysis?. ACS Catalysis, 2013, 3, 150-158.	5.5	178
38	A Convenient and General Iron-Catalyzed Hydrosilylation of Aldehydes. Organic Letters, 2007, 9, 5429-5432.	2.4	171
39	New catalytic properties of iron complexes: dehydration of amides to nitriles. Chemical Communications, 2009, , 4883.	2.2	170
40	Nonâ€Pincerâ€Type Manganese Complexes as Efficient Catalysts for the Hydrogenation of Esters. Angewandte Chemie - International Edition, 2017, 56, 7531-7534.	7.2	169
41	Recent Advances in Catalytic Hydrosilylations: Developments beyond Traditional Platinum Catalysts. Angewandte Chemie - International Edition, 2021, 60, 550-565.	7.2	165
42	Cobalt Complexes as an Emerging Class of Catalysts for Homogeneous Hydrogenations. Accounts of Chemical Research, 2018, 51, 1858-1869.	7.6	159
43	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. Angewandte Chemie - International Edition, 2017, 56, 559-562.	7.2	158
44	Molecularly Defined Manganese Pincer Complexes for Selective Transfer Hydrogenation of Ketones. ChemSusChem, 2017, 10, 83-86.	3.6	153
45	General and Highly Efficient Ironâ€Catalyzed Hydrogenation of Aldehydes, Ketones, and Î±,Î²â€Unsaturated Aldehydes. Angewandte Chemie - International Edition, 2013, 52, 5120-5124.	7.2	151
46	Chemoselective Transfer Hydrogenation to Nitroarenes Mediated by Cubaneâ€Type Mo₃S₄ Cluster Catalysts. Angewandte Chemie - International Edition, 2012, 51, 7794-7798.	7.2	149
47	General and Selective Copper-Catalyzed Reduction of Tertiary and Secondary Phosphine Oxides: Convenient Synthesis of Phosphines. Journal of the American Chemical Society, 2012, 134, 9727-9732.	6.6	143
48	Convenient and Mild Epoxidation of Alkenes Using Heterogeneous Cobalt Oxide Catalysts. Angewandte Chemie - International Edition, 2014, 53, 4359-4363.	7.2	143
49	Zincâ€Catalyzed Chemoselective Reduction of Tertiary and Secondary Amides to Amines. Chemistry - A European Journal, 2011, 17, 12186-12192.	1.7	142
50	A General and Convenient Catalytic Synthesis of Nitriles from Amides and Silanes. Organic Letters, 2009, 11, 2461-2464.	2.4	141
51	Cooperative Ironâ€“BrÃ¸nsted Acid Catalysis: Enantioselective Hydrogenation of Quinoxalines and 2â€‰<i>H</i>â€1,4â€Benzoxazines. Chemistry - A European Journal, 2013, 19, 4997-5003.	1.7	140
52	Cobaltâ€“Pincer Complexes in Catalysis. Chemistry - A European Journal, 2019, 25, 122-143.	1.7	140
53	A General and Highly Selective Cobaltâ€Catalyzed Hydrogenation of Nâ€Heteroarenes under Mild Reaction Conditions. Angewandte Chemie - International Edition, 2017, 56, 3216-3220.	7.2	139
54	An Environmentally Benign Process for the Hydrogenation of Ketones with Homogeneous Iron Catalysts. Chemistry - an Asian Journal, 2006, 1, 598-604.	1.7	134

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55	Hydrogenation using iron oxideâ€“based nanocatalysts for the synthesis of amines. Nature Protocols, 2015, 10, 548-557.	5.5	131
56	Synthesis of Single Atom Based Heterogeneous Platinum Catalysts: High Selectivity and Activity for Hydrosilylation Reactions. ACS Central Science, 2017, 3, 580-585.	5.3	130
57	Highly selective transfer hydrogenation of functionalised nitroarenes using cobalt-based nanocatalysts. Green Chemistry, 2015, 17, 898-902.	4.6	127
58	Direct Catalytic N-Alkylation of Amines with Carboxylic Acids. Journal of the American Chemical Society, 2014, 136, 14314-14319.	6.6	125
59	Selective Catalytic Monoreduction of Phthalimides and Imidazolidineâ€2,4â€diones. Angewandte Chemie - International Edition, 2011, 50, 9180-9184.	7.2	121
60	Development of a practical non-noble metal catalyst for hydrogenation of N-heteroarenes. Nature Catalysis, 2020, 3, 135-142.	16.1	120
61	A Biomimetic Iron Catalyst for the Epoxidation of Olefins with Molecular Oxygen at Room Temperature. Angewandte Chemie - International Edition, 2011, 50, 1425-1429.	7.2	118
62	Stable and Inert Cobalt Catalysts for Highly Selective and Practical Hydrogenation of Câ‰¡N and Câ•O Bonds. Journal of the American Chemical Society, 2016, 138, 8781-8788.	6.6	118
63	Intermetallic nickel silicide nanocatalystâ€”A non-noble metalâ€“based general hydrogenation catalyst. Science Advances, 2018, 4, eaat0761.	4.7	116
64	Cobalt-based nanocatalysts for green oxidation and hydrogenation processes. Nature Protocols, 2015, 10, 916-926.	5.5	115
65	Biomimetic transfer hydrogenation of ketones with iron porphyrin catalysts. Tetrahedron Letters, 2006, 47, 8095-8099.	0.7	110
66	Selective Semihydrogenation of Alkynes with N-Graphitic-Modified Cobalt Nanoparticles Supported on Silica. ACS Catalysis, 2017, 7, 1526-1532.	5.5	110
67	Chemoâ€•and Stereoselective Ironâ€Catalyzed Hydrosilylation of Ketones. Chemistry - an Asian Journal, 2010, 5, 1687-1691.	1.7	109
68	Selective Reduction of Amides to Amines by Boronic Acid Catalyzed Hydrosilylation. Angewandte Chemie - International Edition, 2013, 52, 11577-11580.	7.2	109
69	Catalytic Methylation of Cï£¿H Bonds Using CO₂ and H₂. Angewandte Chemie - International Edition, 2014, 53, 10476-10480.	7.2	108
70	Selective Catalytic Reductions of Amides and Nitriles to Amines. Topics in Catalysis, 2010, 53, 979-984.	1.3	107
71	General Catalytic Methylation of Amines with Formic Acid under Mild Reaction Conditions. Chemistry - A European Journal, 2014, 20, 7878-7883.	1.7	107
72	Synthesis and application of chiral monodentate phosphines in asymmetric hydrogenation. Coordination Chemistry Reviews, 2008, 252, 471-491.	9.5	106

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73	A General and Environmentally Benign Catalytic Reduction of Nitriles to Primary Amines. Chemistry - A European Journal, 2008, 14, 9491-9494.	1.7	105
74	Exploring the Reactivity of Nickel Pincer Complexes in the Decomposition of Formic Acid to CO₂/H₂ and the Hydrogenation of NaHCO₃ to HCOONa. ChemCatChem, 2015, 7, 65-69.	1.8	105
75	Improved Second Generation Iron Pincer Complexes for Effective Ester Hydrogenation. Advanced Synthesis and Catalysis, 2016, 358, 820-825.	2.1	104
76	Selective iron-catalyzed transfer hydrogenation of terminal alkynes. Chemical Communications, 2012, 48, 4827.	2.2	103
77	A Practical and Benign Synthesis of Primary Amines through Rutheniumâ€Catalyzed Reduction of Nitriles. ChemSusChem, 2008, 1, 1006-1010.	3.6	100
78	Direct Rutheniumâ€Catalyzed Hydrogenation of Carboxylic Acids to Alcohols. Angewandte Chemie - International Edition, 2015, 54, 10596-10599.	7.2	100
79	Towards a general ruthenium-catalyzed hydrogenation of secondary and tertiary amides to amines. Chemical Science, 2016, 7, 3432-3442.	3.7	100
80	Synthesis of new chiral monodentate phosphines and their use in asymmetric hydrogenation. Tetrahedron Letters, 2002, 43, 4977-4980.	0.7	96
81	Relay Iron/Chiral BrÃ¸nsted Acid Catalysis: Enantioselective Hydrogenation of Benzoxazinones. Journal of the American Chemical Society, 2015, 137, 2763-2768.	6.6	96
82	Lewis Acid Promoted Ruthenium(II)â€Catalyzed Etherifications by Selective Hydrogenation of Carboxylic Acids/Esters. Angewandte Chemie - International Edition, 2015, 54, 5196-5200.	7.2	94
83	A general and selective copper-catalyzed reduction of secondary amides. Chemical Communications, 2012, 48, 2683.	2.2	93
84	Cooperative Catalysis with Iron and a Chiral BrÃ¸nsted Acid for Asymmetric Reductive Amination of Ketones. Advanced Synthesis and Catalysis, 2014, 356, 3451-3455.	2.1	93
85	General and selective reductive amination of carbonyl compounds using a coreâ€"shell structured Co₃O₄/NGr@C catalyst. Green Chemistry, 2014, 16, 4535-4540.	4.6	93
86	Hydrogenation of nitroarenes using defined ironâ€"phosphine catalysts. Chemical Communications, 2013, 49, 9089.	2.2	90
87	Selective Hydrogenation of Nitriles to Primary Amines by using a Cobalt Phosphine Catalyst. ChemSusChem, 2017, 10, 842-846.	3.6	90
88	The use of ultrasmall iron(0) nanoparticles as catalysts for the selective hydrogenation of unsaturated Câ€"C bonds. Chemical Communications, 2013, 49, 3416.	2.2	89
89	Cooperative Catalysis by Palladium and a Chiral Phosphoric Acid: Enantioselective Amination of Racemic Allylic Alcohols. Angewandte Chemie - International Edition, 2014, 53, 13049-13053.	7.2	89
90	New Ruthenium Catalysts for Asymmetric Transfer Hydrogenation of Prochiral Ketones. Advanced Synthesis and Catalysis, 2007, 349, 853-860.	2.1	88

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91	Hydrogenation of Esters to Alcohols Catalyzed by Defined Manganese Pincer Complexes. Angewandte Chemie, 2016, 128, 15590-15594.	1.6	88
92	Formamidines â€“ Versatile Ligands for Zincâ€Catalyzed Hydrosilylation and Ironâ€Catalyzed Epoxidation Reactions. European Journal of Organic Chemistry, 2010, 2010, 4893-4901.	1.2	85
93	Ironâ€Catalyzed Hydrogenation for the In Situ Regeneration of an NAD(P)H Model: Biomimetic Reduction of Î±â€Ketoâ€/Î±â€Iminoesters. Angewandte Chemie - International Edition, 2013, 52, 8382-8386.	7.2	85
94	Selective catalytic transfer hydrogenation of nitriles to primary amines using Pd/C. Catalysis Science and Technology, 2014, 4, 629.	2.1	85
95	Synthesis of ethers from esters via Fe-catalyzed hydrosilylation. Chemical Communications, 2012, 48, 10742.	2.2	83
96	Consecutive Intermolecular Reductive Hydroamination: Cooperative Transitionâ€Metal and Chiral BrÃ¸nsted Acid Catalysis. Chemistry - A European Journal, 2012, 18, 9005-9010.	1.7	83
97	A Biomassâ€Derived Nonâ€Noble Cobalt Catalyst for Selective Hydrodehalogenation of Alkyl and (Hetero)Aryl Halides. Angewandte Chemie - International Edition, 2017, 56, 11242-11247.	7.2	83
98	Selective cobalt nanoparticles for catalytic transfer hydrogenation of N-heteroarenes. Chemical Science, 2017, 8, 6239-6246.	3.7	83
99	Ruthenium N-heterocyclic carbene catalysts for selective reduction of nitriles to primary amines. Tetrahedron Letters, 2009, 50, 3654-3656.	0.7	81
100	A Molecularly Defined Ironâ€Catalyst for the Selective Hydrogenation of Î±,Î²â€Unsaturated Aldehydes. Chemistry - A European Journal, 2013, 19, 7701-7707.	1.7	81
101	Highly Selective Ironâ€Catalyzed Synthesis of Alkenes by the Reduction of Alkynes. Chemistry - an Asian Journal, 2011, 6, 1613-1623.	1.7	80
102	Efficient Base-Free Hydrogenation of Amides to Alcohols and Amines Catalyzed by Well-Defined Pincer Imidazolylâ€“Ruthenium Complexes. ACS Catalysis, 2016, 6, 47-54.	5.5	79
103	Copperâ€Catalyzed Enantioselective Hydrogenation of Ketones. Chemistry - A European Journal, 2011, 17, 101-105.	1.7	78
104	Zincâ€Catalyzed Chemoselective Reduction of Esters to Alcohols. Chemistry - A European Journal, 2011, 17, 7414-7417.	1.7	76
105	A Convenient and General Rutheniumâ€Catalyzed Transfer Hydrogenation of Nitroâ€•and Azobenzenes. Chemistry - A European Journal, 2011, 17, 14375-14379.	1.7	75
106	Ironâ€Catalyzed Synthesis of Secondary Amines: On the Way to Green Reductive Aminations. ChemSusChem, 2014, 7, 3012-3016.	3.6	75
107	Catalytic N-Alkylation of Amines Using Carboxylic Acids and Molecular Hydrogen. Journal of the American Chemical Society, 2015, 137, 13580-13587.	6.6	72
108	Copperâ€Catalyzed Enantioselective Hydrosilylation of Ketones by Using Monodentate Binaphthophosphepine Ligands. Chemistry - A European Journal, 2010, 16, 68-73.	1.7	71

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109	A polymer analogous reaction for the formation of imidazolium and NHC based porous polymer networks. Polymer Chemistry, 2013, 4, 1848.	1.9	70
110	Efficient transfer hydrogenation of ketones in the presence of ruthenium N-heterocyclic carbene catalysts. Journal of Organometallic Chemistry, 2006, 691, 4652-4659.	0.8	69
111	Synthesis of Secondary Amines by Ironâ€Catalyzed Reductive Amination. ChemCatChem, 2010, 2, 1411-1415.	1.8	69
112	Selective Ironâ€Catalyzed Oxidation of Phenols and Arenes with Hydrogen Peroxide: Synthesis of Vitamin E Intermediates and Vitamin K₃. Chemistry - A European Journal, 2010, 16, 10300-10303.	1.7	69
113	An Easy and General Ironâ€catalyzed Reductive Amination of Aldehydes and Ketones with Anilines. Chemistry - an Asian Journal, 2011, 6, 2240-2245.	1.7	69
114	Synthesis of Nickel Nanoparticles with Nâ€Doped Graphene Shells for Catalytic Reduction Reactions. ChemCatChem, 2016, 8, 129-134.	1.8	66
115	Biomassâ€Derived Catalysts for Selective Hydrogenation of Nitroarenes. ChemSusChem, 2017, 10, 3035-3039.	3.6	66
116	Iridiumâ€Catalyzed Hydrogenation of Carboxylic Acid Esters. ChemCatChem, 2014, 6, 2810-2814.	1.8	65
117	Co-based heterogeneous catalysts from well-defined Î±-diimine complexes: Discussing the role of nitrogen. Journal of Catalysis, 2017, 351, 79-89.	3.1	65
118	Biomimetic transfer hydrogenation of 2-alkoxy- and 2-aryloxyketones with ironâ€"porphyrin catalysts. Tetrahedron, 2008, 64, 3867-3876.	1.0	64
119	Development of New Hydrogenations of Imines and Benign Reductive Hydroaminations: Zinc Triflate as a Catalyst. ChemSusChem, 2012, 5, 777-782.	3.6	64
120	Manganese(I)â€Catalyzed Enantioselective Hydrogenation of Ketones Using a Defined Chiral PNP Pincer Ligand. Angewandte Chemie, 2017, 129, 11389-11393.	1.6	64
121	Design of and Mechanistic Studies on a Biomimetic Ironâ€"Imidazole Catalyst System for Epoxidation of Olefins with Hydrogen Peroxide. Chemistry - A European Journal, 2009, 15, 5471-5481.	1.7	63
122	Practical One-Pot Synthesis of Secondary Amines by Zinc-Catalyzed Reductive Amination. Catalysis Letters, 2011, 141, 55-61.	1.4	63
123	Fe-Catalyzed Oxidation Reactions of Olefins, Alkanes, and Alcohols: Involvement of Oxo- and Peroxo Complexes. Topics in Organometallic Chemistry, 2011, , 83-109.	0.7	63
124	An Efficient Zincâ€Catalyzed Dehydration of Primary Amides to Nitriles. Chemistry - an Asian Journal, 2012, 7, 169-175.	1.7	63
125	Cobalt Pincer Complexes for Catalytic Reduction of Carboxylic Acid Esters. Chemistry - A European Journal, 2018, 24, 1046-1052.	1.7	63
126	A robust iron catalyst for the selective hydrogenation of substituted (iso)quinolones. Chemical Science, 2018, 9, 8134-8141.	3.7	63

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127	Ironâ€Catalyzed Epoxidation of Aromatic Olefins and 1,3â€Dienes. Advanced Synthesis and Catalysis, 2010, 352, 1771-1778.	2.1	62
128	Selective Ironâ€Catalyzed Oxidation of Benzylic and Allylic Alcohols. Advanced Synthesis and Catalysis, 2011, 353, 3023-3030.	2.1	62
129	Efficient and Convenient Palladiumâ€Catalyzed Amination of Allylic Alcohols with Nâ€Heterocycles. Angewandte Chemie - International Edition, 2012, 51, 11556-11560.	7.2	62
130	Copper-catalyzed reductive amination of aromatic and aliphatic ketones with anilines using environmental-friendly molecular hydrogen. Green Chemistry, 2012, 14, 2371.	4.6	62
131	Molecularly Defined Manganese Catalyst for Low-Temperature Hydrogenation of Carbon Monoxide to Methanol. Journal of the American Chemical Society, 2019, 141, 16923-16929.	6.6	62
132	BINEPINES: chiral binaphthalene-core monophosphepine ligands for multipurpose asymmetric catalysis. Chemical Society Reviews, 2011, 40, 3744.	18.7	61
133	TBAF-catalyzed hydrosilylation for the reduction of aromatic nitriles. New Journal of Chemistry, 2013, 37, 2061.	1.4	61
134	Fe₂O₃/NGr@C- and Coâ€"Co₃O₄/NGr@C-catalysed hydrogenation of nitroarenes under mild conditions. Catalysis Science and Technology, 2016, 6, 4473-4477.	2.1	61
135	Straightforward Uraniumâ€Catalyzed Dehydration of Primary Amides to Nitriles. Chemistry - A European Journal, 2011, 17, 9316-9319.	1.7	60
136	Ironâ€Catalyzed Reduction of Carboxylic Esters to Alcohols. European Journal of Organic Chemistry, 2013, 2013, 2061-2065.	1.2	60
137	Synthesis of Amines by Reductive Amination of Aldehydes and Ketones using Co₃O₄/NGr@C Catalyst. ChemCatChem, 2015, 7, 62-64.	1.8	60
138	A general protocol for the reductive N-methylation of amines using dimethyl carbonate and molecular hydrogen: mechanistic insights and kinetic studies. Catalysis Science and Technology, 2016, 6, 7956-7966.	2.1	60
139	Synthesis of chiral monodentate binaphthophosphepine ligands and their application in asymmetric hydrogenations. Tetrahedron: Asymmetry, 2004, 15, 2621-2631.	1.8	59
140	Selective Rutheniumâ€Catalyzed Transfer Hydrogenations of Nitriles to Amines with 2â€Butanol. Chemistry - A European Journal, 2013, 19, 4437-4440.	1.7	59
141	Iron-catalysed regioselective hydrogenation of terminal epoxides to alcohols under mild conditions. Nature Catalysis, 2019, 2, 523-528.	16.1	59
142	Enantioselective Hydrogenation ofÎ²-Ketoesters with Monodentate Ligands. Angewandte Chemie - International Edition, 2004, 43, 5066-5069.	7.2	57
143	Facile and Efficient Reduction of Ketones in the Presence of Zinc Catalysts Modified by Phenol Ligands. Chemistry - an Asian Journal, 2010, 5, 2027-2035.	1.7	57
144	Fast and selective iron-catalyzed transfer hydrogenations of aldehydes. Journal of Organometallic Chemistry, 2013, 744, 156-159.	0.8	56

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145	Selective Rhodiumâ€Catalyzed Reduction of Tertiary Amides in Amino Acid Esters and Peptides. Angewandte Chemie - International Edition, 2015, 54, 12389-12393.	7.2	56
146	General and Chemoselective Copper Oxide Catalysts for Hydrogenation Reactions. ACS Catalysis, 2019, 9, 4302-4307.	5.5	56
147	Scalable and selective deuteration of (hetero)arenes. Nature Chemistry, 2022, 14, 334-341.	6.6	56
148	High Efficiency in Catalytic Hydrosilylation of Ketones with Zincâ€Based Precatalysts Featuring Hard and Soft Tridentate O,S,Oâ€Ligands. ChemCatChem, 2010, 2, 846-853.	1.8	55
149	A Facile and Efficient Ironâ€Catalyzed Reduction of Sulfoxides to Sulfides. ChemCatChem, 2011, 3, 666-670.	1.8	55
150	A General Catalytic Hydroamidation of 1,3â€Dienes: Atomâ€Efficient Synthesis of <i>N</i>â€Allyl Heterocycles, Amides, and Sulfonamides. Angewandte Chemie - International Edition, 2014, 53, 1630-1635.	7.2	55
151	A General and Highly Selective Cobaltâ€Catalyzed Hydrogenation of Nâ€Heteroarenes under Mild Reaction Conditions. Angewandte Chemie, 2017, 129, 3264-3268.	1.6	54
152	Cobaltâ€Catalyzed Aqueous Dehydrogenation of Formic Acid. Chemistry - A European Journal, 2019, 25, 8459-8464.	1.7	54
153	Synthesis of new chiral monodentate aminophosphinites and their use in catalytic asymmetric hydrogenations. Journal of Organometallic Chemistry, 2003, 675, 91-96.	0.8	53
154	Phosphineâ€"Imidazolyl Ligands for the Efficient Rutheniumâ€Catalyzed Hydrogenation of Carboxylic Esters. Chemistry - A European Journal, 2012, 18, 9011-9018.	1.7	52
155	Palladium-catalysed regioselective hydroamination of 1,3-dienes: synthesis of allylic amines. Organic Chemistry Frontiers, 2014, 1, 368.	2.3	51
156	Hydrogenation of Aliphatic and Aromatic Nitriles Using a Defined Ruthenium PNP Pincer Catalyst. European Journal of Organic Chemistry, 2015, 2015, 5944-5948.	1.2	51
157	A straightforward zinc-catalysed reduction of sulfoxides to sulfides. Catalysis Science and Technology, 2011, 1, 104.	2.1	50
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