Matthias Beller

List of Publications by Year
in descending order

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616	71,580	355 136	1048 234
papers	citations	h-index	g-index

707	707	707	28543
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Using carbon dioxide as a building block in organic synthesis. Nature Communications, 2015, 6, 5933.	5.8	1,581
2	Metal-Initiated Amination of Alkenes and Alkynes. Chemical Reviews, 1998, 98, 675-704.	23.0	1,282
3	Palladiumâ€Catalyzed Carbonylation Reactions of Aryl Halides and Related Compounds. Angewandte Chemie - International Edition, 2009, 48, 4114-4133.	7.2	1,275
4	Recent Applications of Palladiumâ€Catalyzed Coupling Reactions in the Pharmaceutical, Agrochemical, and Fine Chemical Industries. Advanced Synthesis and Catalysis, 2009, 351, 3027-3043.	2.1	1,222
5	Synthesis of Heterocycles via Palladium-Catalyzed Carbonylations. Chemical Reviews, 2013, 113, 1-35.	23.0	1,105
6	Sustainable Metal Catalysis with Iron: From Rust to a Rising Star?. Angewandte Chemie - International Edition, 2008, 47, 3317-3321.	7.2	1,101
7	Catalytic Markovnikov and anti-Markovnikov Functionalization of Alkenes and Alkynes: Recent Developments and Trends. Angewandte Chemie - International Edition, 2004, 43, 3368-3398.	7.2	981
8	Nanoscale Fe ₂ O ₃ -Based Catalysts for Selective Hydrogenation of Nitroarenes to Anilines. Science, 2013, 342, 1073-1076.	6.0	868
9	Palladium-catalyzed carbonylative coupling reactions between Arâ€“X and carbon nucleophiles. Chemical Society Reviews, 2011, 40, 4986.	18.7	849
10	Progress in hydroformylation and carbonylation. Journal of Molecular Catalysis A, 1995, 104, 17-85.	4.8	826
11	Homogeneous Catalysis for Sustainable Hydrogen Storage in Formic Acid and Alcohols. Chemical Reviews, 2018, 118, 372-433.	23.0	805
12	Efficient Dehydrogenation of Formic Acid Using an Iron Catalyst. Science, 2011, 333, 1733-1736.	6.0	728
13	Bridging homogeneous and heterogeneous catalysis by heterogeneous single-metal-site catalysts. Nature Catalysis, 2018, 1, 385-397.	16.1	725
14	Low-temperature aqueous-phase methanol dehydrogenation to hydrogen and carbon dioxide. Nature, 2013, 495, 85-89.	13.7	680
15	Formic acid as a hydrogen storage material â€“ development of homogeneous catalysts for selective hydrogen release. Chemical Society Reviews, 2016, 45, 3954-3988.	18.7	660
16	The Catalytic Amination of Alcohols. ChemCatChem, 2011, 3, 1853-1864.	1.8	648
17	Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes. Nature Chemistry, 2013, 5, 537-543.	6.6	633
18	MOF-derived cobalt nanoparticles catalyze a general synthesis of amines. Science, 2017, 358, 326-332.	6.0	604

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19	Recent developments and perspectives in palladium-catalyzed cyanation of aryl halides: synthesis of benzonitriles. Chemical Society Reviews, 2011, 40, 5049.	18.7	597
20	Reduction of Nitro Compounds Using 3d-Non-Noble Metal Catalysts. Chemical Reviews, 2019, 119, 2611-2680.	23.0	525
21	Efficient and selective N-alkylation of amines with alcohols catalysed by manganese pincer complexes. Nature Communications, 2016, 7, 12641.	5.8	516
22	Synthesis, Characterization, and Application of Metal Nanoparticles Supported on Nitrogenâ€Doped Carbon: Catalysis beyond Electrochemistry. Angewandte Chemie - International Edition, 2016, 55, 12582-12594.	7.2	492
23	A Wellâ€Defined Iron Catalyst for the Reduction of Bicarbonates and Carbon Dioxide to Formates, Alkyl Formates, and Formamides. Angewandte Chemie - International Edition, 2010, 49, 9777-9780.	7.2	486
24	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
25	Controlled Generation of Hydrogen from Formic Acid Amine Adducts at Room Temperature and Application in H₂/O₂ Fuel Cells. Angewandte Chemie - International Edition, 2008, 47, 3962-3965.	7.2	469
26	A New Highly Efficient Catalyst System for the Coupling of Nonactivated and Deactivated Aryl Chlorides with Arylboronic Acids. Angewandte Chemie - International Edition, 2000, 39, 4153-4155.	7.2	464
27	Transition-Metal-Catalyzed Carbonylation Reactions of Olefins and Alkynes: A Personal Account. Accounts of Chemical Research, 2014, 47, 1041-1053.	7.6	453
28	Stateâ€ofâ€theâ€Art Catalysts for Hydrogenation of Carbon Dioxide. Angewandte Chemie - International Edition, 2010, 49, 6254-6257.	7.2	450
29	Homogeneous catalysis using iron complexes: recent developments in selective reductions. Chemical Communications, 2011, 47, 4849.	2.2	428
30	Palladacycles: Efficient New Catalysts for the Heck Vinylation of Aryl Halides. Chemistry - A European Journal, 1997, 3, 1357-1364.	1.7	427
31	Catalytic Generation of Hydrogen from Formic acid and its Derivatives: Useful Hydrogen Storage Materials. Topics in Catalysis, 2010, 53, 902-914.	1.3	387
32	Palladiumâ€Catalyzed Carbonylation Reactions of Alkenes and Alkynes. ChemCatChem, 2009, 1, 28-41.	1.8	384
33	Carbonylations of Alkenes with CO Surrogates. Angewandte Chemie - International Edition, 2014, 53, 6310-6320.	7.2	376
34	Zinc-Catalyzed Reduction of Amides: Unprecedented Selectivity and Functional Group Tolerance. Journal of the American Chemical Society, 2010, 132, 1770-1771.	6.6	345
35	Well-Defined Iron Catalyst for Improved Hydrogenation of Carbon Dioxide and Bicarbonate. Journal of the American Chemical Society, 2012, 134, 20701-20704.	6.6	345
36	Recent Developments on the Trifluoromethylation of (Hetero)Arenes. Chemistry - an Asian Journal, 2012, 7, 1744-1754.	1.7	337

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37	Catalytic Hydrogenation of Carboxylic Acid Esters, Amides, and Nitriles with Homogeneous Catalysts. Organic Process Research and Development, 2014, 18, 289-302.	1.3	336
38	An Efficient and General Iron-Catalyzed Arylation of Benzyl Alcohols and Benzyl Carboxylates. Angewandte Chemie - International Edition, 2005, 44, 3913-3917.	7.2	334
39	Selective Oxidation of Alcohols to Esters Using Heterogeneous Co₃O₄â€“N@C Catalysts under Mild Conditions. Journal of the American Chemical Society, 2013, 135, 10776-10782.	6.6	334
40	Iron-Catalyzed Hydrogen Production from Formic Acid. Journal of the American Chemical Society, 2010, 132, 8924-8934.	6.6	326
41	General and Selective Iron-Catalyzed Transfer Hydrogenation of Nitroarenes without Base. Journal of the American Chemical Society, 2011, 133, 12875-12879.	6.6	322
42	Selective Reduction of Carboxylic Acid Derivatives by Catalytic Hydrosilylation. Angewandte Chemie - International Edition, 2011, 50, 6004-6011.	7.2	321
43	Internal Olefins to Linear Amines. Science, 2002, 297, 1676-1678.	6.0	318
44	Potassium hexacyanoferrate(ii)â€”a new cyanating agent for the palladium-catalyzed cyanation of aryl halides. Chemical Communications, 2004, , 1388-1389.	2.2	315
45	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
46	Selective Hydrogen Production from Methanol with a Defined Iron Pincer Catalyst under Mild Conditions. Angewandte Chemie - International Edition, 2013, 52, 14162-14166.	7.2	308
47	Palladiumâ€Catalyzed Oxidative Carbonylation Reactions. ChemSusChem, 2013, 6, 229-241.	3.6	301
48	Tuning Catalytic Activity between Homogeneous and Heterogeneous Catalysis: Improved Activity and Selectivity of Free Nanoâ€Fe₂O₃ in Selective Oxidations. Angewandte Chemie - International Edition, 2007, 46, 8866-8868.	7.2	299
49	Homogeneous Catalysis by Manganeseâ€Based Pincer Complexes. European Journal of Organic Chemistry, 2017, 2017, 4344-4362.	1.2	289
50	CO₂â€â€œNeutralâ€•Hydrogen Storage Based on Bicarbonates and Formates. Angewandte Chemie - International Edition, 2011, 50, 6411-6414.	7.2	276
51	Manganeseâ€Catalyzed Hydrogenâ€Autotransfer Câ€"C Bond Formation: Î±â€Alkylation of Ketones with Primary Alcohols. Angewandte Chemie - International Edition, 2016, 55, 14967-14971.	7.2	270
52	Hydrogenation of Esters to Alcohols with a Wellâ€Defined Iron Complex. Angewandte Chemie - International Edition, 2014, 53, 8722-8726.	7.2	269
53	General and Regioselective Synthesis of Pyrroles via Ruthenium-Catalyzed Multicomponent Reactions. Journal of the American Chemical Society, 2013, 135, 11384-11388.	6.6	268
54	Selective CO₂ Reduction to CO in Water using Earth-Abundant Metal and Nitrogen-Doped Carbon Electrocatalysts. ACS Catalysis, 2018, 8, 6255-6264.	5.5	267

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55	Synthesis and Characterization of Ironâ€“Nitrogen-Doped Graphene/Coreâ€“Shell Catalysts: Efficient Oxidative Dehydrogenation of N-Heterocycles. Journal of the American Chemical Society, 2015, 137, 10652-10658.	6.6	265
56	A Convenient and General Ironâ€Catalyzed Reduction of Amides to Amines. Angewandte Chemie - International Edition, 2009, 48, 9507-9510.	7.2	264
57	An Efficient and General Synthesis of Primary Amines by Rutheniumâ€Catalyzed Amination of Secondary Alcohols with Ammonia. Angewandte Chemie - International Edition, 2010, 49, 8126-8129.	7.2	263
58	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
59	Hydrogenation of Esters to Alcohols Catalyzed by Defined Manganese Pincer Complexes. Angewandte Chemie - International Edition, 2016, 55, 15364-15368.	7.2	259
60	A Convenient Procedure for the Palladium-Catalyzed Cyanation of Aryl Halides. Angewandte Chemie - International Edition, 2003, 42, 1661-1664.	7.2	256
61	Hydrogen Generation at Ambient Conditions: Application in Fuel Cells. ChemSusChem, 2008, 1, 751-758.	3.6	254
62	Selective Methylation of Amines with Carbon Dioxide and H₂. Angewandte Chemie - International Edition, 2013, 52, 12156-12160.	7.2	254
63	Towards a Green Process for Bulkâ€Scale Synthesis of Ethyl Acetate: Efficient Acceptorless Dehydrogenation of Ethanol. Angewandte Chemie - International Edition, 2012, 51, 5711-5713.	7.2	252
64	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
65	Catalytic Hydrogenation of Carbon Dioxide and Bicarbonates with a Wellâ€Defined Cobalt Dihydrogen Complex. Chemistry - A European Journal, 2012, 18, 72-75.	1.7	245
66	Photocatalytic Water Reduction with Copperâ€Based Photosensitizers: A Nobleâ€Metalâ€Free System. Angewandte Chemie - International Edition, 2013, 52, 419-423.	7.2	243
67	Efficient Hydrogen Production from Alcohols under Mild Reaction Conditions. Angewandte Chemie - International Edition, 2011, 50, 9593-9597.	7.2	240
68	Catalytic reductive aminations using molecular hydrogen for synthesis of different kinds of amines. Chemical Society Reviews, 2020, 49, 6273-6328.	18.7	240
69	Synthesis of Primary Amines:â€‰ First Homogeneously Catalyzed Reductive Amination with Ammonia. Organic Letters, 2002, 4, 2055-2058.	2.4	238
70	A General Catalytic Methylation of Amines Using Carbon Dioxide. Angewandte Chemie - International Edition, 2013, 52, 9568-9571.	7.2	234
71	Lowâ€Temperature Hydrogenation of Carbon Dioxide to Methanol with a Homogeneous Cobalt Catalyst. Angewandte Chemie - International Edition, 2017, 56, 1890-1893.	7.2	232
72	Practical synthesis of new and highly efficient ligands for the Suzuki reaction of aryl chlorides. Chemical Communications, 2004, , 38.	2.2	231

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73	Iron-catalyzed selective reduction of nitroarenes to anilines using organosilanes. Chemical Communications, 2010, 46, 1769.	2.2	230
74	Ironâ€Catalyzed Î±â€Alkylation of Ketones with Alcohols. Angewandte Chemie - International Edition, 2015, 54, 14483-14486.	7.2	230
75	Selective Rutheniumâ€Catalyzed Threeâ€Component Synthesis of Pyrroles. Angewandte Chemie - International Edition, 2013, 52, 597-601.	7.2	228
76	Transitionâ€Metalâ€Catalyzed Utilization of Methanol as a C₁â€...Source in Organic Synthesis. Angewandte Chemie - International Edition, 2017, 56, 6384-6394.	7.2	227
77	Alternative Metals for Homogeneous Catalyzed Hydroformylation Reactions. Angewandte Chemie - International Edition, 2013, 52, 2852-2872.	7.2	224
78	Selective Catalytic Hydrogenation of Heteroarenes with N-Graphene-Modified Cobalt Nanoparticles (Co₃O₄â€“Co/NGr@Î±-Al₂O₃). Journal of the American Chemical Society, 2015, 137, 11718-11724.	6.6	223
79	Multicomponent Coupling Reactions for Organic Synthesis: Chemoselective Reactions with Amideâ€“Aldehyde Mixtures. Chemistry - A European Journal, 2003, 9, 4286-4294.	1.7	219
80	Practical Imidazoleâ€Based Phosphine Ligands for Selective Palladiumâ€Catalyzed Hydroxylation of Aryl Halides. Angewandte Chemie - International Edition, 2009, 48, 918-921.	7.2	219
81	Amines Made Easily:Â A Highly Selective Hydroaminomethylation of Olefins. Journal of the American Chemical Society, 2003, 125, 10311-10318.	6.6	217
82	Development of a General Palladium-Catalyzed Carbonylative Heck Reaction of Aryl Halides. Journal of the American Chemical Society, 2010, 132, 14596-14602.	6.6	213
83	Improved Rutheniumâ€Catalyzed Amination of Alcohols with Ammonia: Synthesis of Diamines and Amino Esters. Angewandte Chemie - International Edition, 2011, 50, 7599-7603.	7.2	211
84	Green synthesis of nitriles using non-noble metal oxides-based nanocatalysts. Nature Communications, 2014, 5, 4123.	5.8	205
85	A General and Efficient Method for the Formylation of Aryl and Heteroaryl Bromides. Angewandte Chemie - International Edition, 2006, 45, 154-158.	7.2	200
86	Efficient and highly selective iron-catalyzed reduction of nitroarenes. Chemical Communications, 2011, 47, 10972.	2.2	200
87	Utilization of CO₂ as a C1 Building Block for Catalytic Methylation Reactions. ACS Catalysis, 2017, 7, 1077-1086.	5.5	200
88	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
89	The First Efficient Hydroaminomethylation with Ammonia: With Dual Metal Catalysts and Two-Phase Catalysis to Primary Amines. Angewandte Chemie - International Edition, 1999, 38, 2372-2375.	7.2	186
90	Recent Developments for the Deuterium and Tritium Labeling of Organic Molecules. Chemical Reviews, 2022, 122, 6634-6718.	23.0	186

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91	Ruthenium-catalysed alkoxycarbonylation of alkenes with carbon dioxide. Nature Communications, 2014, 5, 3091.	5.8	185
92	Improved and General Manganeseâ€Catalyzed Nâ€Methylation of Aromatic Amines Using Methanol. Chemistry - A European Journal, 2017, 23, 5410-5413.	1.7	183
93	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
94	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
95	Highly selective hydrogenation of arenes using nanostructured ruthenium catalysts modified with a carbonâ€“nitrogen matrix. Nature Communications, 2016, 7, 11326.	5.8	179
96	Efficient Copper(II)â€Catalyzed Transamidation of Nonâ€Activated Primary Carboxamides and Ureas with Amines. Angewandte Chemie - International Edition, 2012, 51, 3905-3909.	7.2	178
97	Lightâ€Driven Hydrogen Generation: Efficient Ironâ€Based Water Reduction Catalysts. Angewandte Chemie - International Edition, 2009, 48, 9962-9965.	7.2	176
98	Recent progress for reversible homogeneous catalytic hydrogen storage in formic acid and in methanol. Coordination Chemistry Reviews, 2018, 373, 317-332.	9.5	173
99	Copper-catalyzed trifluoromethylation of aryl- and vinylboronic acids with generation of CF3-radicals. Chemical Communications, 2013, 49, 2628.	2.2	170
100	Nonâ€Pincerâ€Type Manganese Complexes as Efficient Catalysts for the Hydrogenation of Esters. Angewandte Chemie - International Edition, 2017, 56, 7531-7534.	7.2	169
101	A Highly Efficient Catalyst for the Telomerization of 1,3-Dienes with Alcohols: First Synthesis of a Monocarbenepalladium(0)-Olefin Complex. Angewandte Chemie - International Edition, 2002, 41, 986-989.	7.2	168
102	Selective Palladiumâ€Catalyzed Aminocarbonylation of Olefins with Aromatic Amines and Nitroarenes. Angewandte Chemie - International Edition, 2013, 52, 14089-14093.	7.2	168
103	Homogeneous and heterogeneous catalysts for hydrogenation of CO₂ to methanol under mild conditions. Chemical Society Reviews, 2021, 50, 4259-4298.	18.7	167
104	Recent Advances in Catalytic Hydrosilylations: Developments beyond Traditional Platinum Catalysts. Angewandte Chemie - International Edition, 2021, 60, 550-565.	7.2	165
105	A General Rutheniumâ€Catalyzed Synthesis of Aromatic Amines. Angewandte Chemie - International Edition, 2007, 46, 8291-8294.	7.2	164
106	Continuous Hydrogen Generation from Formic Acid: Highly Active and Stable Ruthenium Catalysts. Advanced Synthesis and Catalysis, 2009, 351, 2517-2520.	2.1	163
107	A convenient and efficient procedure for the palladium-catalyzed cyanation of aryl halides using trimethylsilylcyanide. Journal of Organometallic Chemistry, 2003, 684, 50-55.	0.8	162
108	Transition Metal Catalyzed Carbonylation Reactions. , 2013, , .		161

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109	Highly Selective Catalyst Systems for the Hydroformylation of Internal Olefins to Linear Aldehydes. Angewandte Chemie - International Edition, 2001, 40, 3408-3411.	7.2	160
110	Selective Palladiumâ€Catalyzed Aminocarbonylation of Aryl Halides with CO and Ammonia. Chemistry - A European Journal, 2010, 16, 9750-9753.	1.7	159
111	Cobalt Complexes as an Emerging Class of Catalysts for Homogeneous Hydrogenations. Accounts of Chemical Research, 2018, 51, 1858-1869.	7.6	159
112	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. Angewandte Chemie - International Edition, 2017, 56, 559-562.	7.2	158
113	A General Palladiumâ€Catalyzed Amination of Aryl Halides with Ammonia. Chemistry - A European Journal, 2009, 15, 4528-4533.	1.7	156
114	Cobalt Singleâ€Atom Catalysts with High Stability for Selective Dehydrogenation of Formic Acid. Angewandte Chemie - International Edition, 2020, 59, 15849-15854.	7.2	156
115	Ruthenium-Catalyzed Selective Î±,Î²-Deuteration of Bioactive Amines. Journal of the American Chemical Society, 2012, 134, 12239-12244.	6.6	155
116	A Nobleâ€Metalâ€Free System for Photocatalytic Hydrogen Production from Water. Chemistry - A European Journal, 2013, 19, 15972-15978.	1.7	155
117	Unravelling the Mechanism of Basic Aqueous Methanol Dehydrogenation Catalyzed by Ruâ€“PNP Pincer Complexes. Journal of the American Chemical Society, 2016, 138, 14890-14904.	6.6	155
118	Palladiumâ€Catalyzed Coupling Reactions: Carbonylative Heck Reactions To Give Chalcones. Angewandte Chemie - International Edition, 2010, 49, 5284-5288.	7.2	154
119	Palladium-Catalyzed Carbonylative Transformation of C(sp³)â€“X Bonds. ACS Catalysis, 2014, 4, 2977-2989.	5.5	154
120	Molecularly Defined Manganese Pincer Complexes for Selective Transfer Hydrogenation of Ketones. ChemSusChem, 2017, 10, 83-86.	3.6	153
121	A More Efficient Catalyst for the Carbonylation of Chloroarenes. Angewandte Chemie - International Edition, 2001, 40, 2856-2859.	7.2	152
122	Development of a Ruthenium-Catalyzed Asymmetric Epoxidation Procedure with Hydrogen Peroxide as the Oxidant. Angewandte Chemie - International Edition, 2004, 43, 5255-5260.	7.2	151
123	Towards the development of a hydrogen battery. Energy and Environmental Science, 2012, 5, 8907.	15.6	151
124	Direct synthesis of adipic acid esters via palladium-catalyzed carbonylation of 1,3-dienes. Science, 2019, 366, 1514-1517.	6.0	151
125	Synthesis of Î±,Î²-unsaturated carbonyl compounds by carbonylation reactions. Chemical Society Reviews, 2020, 49, 3187-3210.	18.7	151
126	Chemoselective Transfer Hydrogenation to Nitroarenes Mediated by Cubaneâ€Type Mo₃S₄ Cluster Catalysts. Angewandte Chemie - International Edition, 2012, 51, 7794-7798.	7.2	149

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127	Palladium-Catalyzed Formylation of Aryl Bromides: Elucidation of the Catalytic Cycle of an Industrially Applied Coupling Reaction. Journal of the American Chemical Society, 2008, 130, 15549-15563.	6.6	146
128	Selective Rutheniumâ€Catalyzed Nâ€Alkylation of Indoles by Using Alcohols. Chemistry - A European Journal, 2010, 16, 3590-3593.	1.7	146
129	Nitrogen-Doped Graphene-Activated Iron-Oxide-Based Nanocatalysts for Selective Transfer Hydrogenation of Nitroarenes. ACS Catalysis, 2015, 5, 1526-1529.	5.5	146
130	Convenient and Mild Epoxidation of Alkenes Using Heterogeneous Cobalt Oxide Catalysts. Angewandte Chemie - International Edition, 2014, 53, 4359-4363.	7.2	143
131	Highly active and efficient catalysts for alkoxycarbonylation of alkenes. Nature Communications, 2017, 8, 14117.	5.8	143
132	Zincâ€Catalyzed Chemoselective Reduction of Tertiary and Secondary Amides to Amines. Chemistry - A European Journal, 2011, 17, 12186-12192.	1.7	142
133	Cooperative Ironâ€“BrÃ¸nsted Acid Catalysis: Enantioselective Hydrogenation of Quinoxalines and 2â€‰Hâ€1,4â€Benzoxazines. Chemistry - A European Journal, 2013, 19, 4997-5003.	1.7	140
134	Cobaltâ€“Pincer Complexes in Catalysis. Chemistry - A European Journal, 2019, 25, 122-143.	1.7	140
135	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
136	Photo- and Electrochemical Valorization of Carbon Dioxide Using Earth-Abundant Molecular Catalysts. Topics in Current Chemistry, 2018, 376, 1.	3.0	137
137	Single-Atom (Iron-Based) Catalysts: Synthesis and Applications. Chemical Reviews, 2021, 121, 13620-13697.	23.0	136
138	Synthesis of Î±â€Amino Acid Amides: Rutheniumâ€Catalyzed Amination of Î±â€Hydroxy Amides. Angewandte Chemie - International Edition, 2011, 50, 11197-11201.	7.2	135
139	A Stable Nanocobalt Catalyst with Highly Dispersed CoN_x Active Sites for the Selective Dehydrogenation of Formic Acid. Angewandte Chemie - International Edition, 2017, 56, 16616-16620.	7.2	135
140	Amidocarbonylationâ€”An Efficient Route to Amino Acid Derivatives. Angewandte Chemie - International Edition, 2000, 39, 1010-1027.	7.2	133
141	Palladiumâ€Catalyzed Carbonylations of Aryl Bromides using Paraformaldehyde: Synthesis of Aldehydes and Esters. Angewandte Chemie - International Edition, 2014, 53, 10090-10094.	7.2	133
142	Simple ruthenium-catalyzed reductive amination enables the synthesis of a broad range of primary amines. Nature Communications, 2018, 9, 4123.	5.8	132
143	Hydrogenation using iron oxideâ€“based nanocatalysts for the synthesis of amines. Nature Protocols, 2015, 10, 548-557.	5.5	131
144	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

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145	Homogeneous and heterogeneous catalytic reduction of amides and related compounds using molecular hydrogen. Nature Communications, 2020, 11, 3893.	5.8	130
146	Ruthenium-Catalyzed Hydroformylation/Reduction of Olefins to Alcohols: Extending the Scope to Internal Alkenes. Journal of the American Chemical Society, 2013, 135, 14306-14312.	6.6	128
147	Highly selective transfer hydrogenation of functionalised nitroarenes using cobalt-based nanocatalysts. Green Chemistry, 2015, 17, 898-902.	4.6	127
148	An Industrially Viable Catalyst System for Palladium-Catalyzed Telomerizations of 1,3-Butadiene with Alcohols. Chemistry - A European Journal, 2004, 10, 3891-3900.	1.7	125
149	Direct Catalytic N-Alkylation of Amines with Carboxylic Acids. Journal of the American Chemical Society, 2014, 136, 14314-14319.	6.6	125
150	Ironâ€Catalyzed Carbonylation: Selective and Efficient Synthesis of Succinimides. Angewandte Chemie - International Edition, 2009, 48, 6041-6044.	7.2	123
151	Rutheniumâ€Catalyzed Hydrogenation of Bicarbonate in Water. ChemSusChem, 2010, 3, 1048-1050.	3.6	123
152	Base-free hydrogen generation from methanol using a bi-catalytic system. Chemical Communications, 2014, 50, 707-709.	2.2	122
153	Selective Catalytic Monoreduction of Phthalimides and Imidazolidineâ€2,4â€diones. Angewandte Chemie - International Edition, 2011, 50, 9180-9184.	7.2	121
154	Development of a practical non-noble metal catalyst for hydrogenation of N-heteroarenes. Nature Catalysis, 2020, 3, 135-142.	16.1	120
155	A Novel and Convenient Synthesis of Benzonitriles: Electrophilic Cyanation of Aryl and Heteroaryl Bromides. Chemistry - A European Journal, 2011, 17, 4217-4222.	1.7	119
156	Palladiumâ€Catalyzed Trifluoromethylation of (Hetero)Arenes with CF₃Br. Angewandte Chemie - International Edition, 2016, 55, 2782-2786.	7.2	119
157	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
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614	Tetracarbonyl[4,4-dimethyl-2-(pyridin-2-yl)-2-oxazoline-Î² N,Nâ€²]molybdenum(0). IUCrData, 2019, 4, .	0.1	0
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