

Matthias Beller

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

647
papers

57,662
citations

124
h-index

213
g-index

707
ext. papers

64,538
ext. citations

10
avg, IF

8.28
L-index

#	Paper	IF	Citations
647	Using carbon dioxide as a building block in organic synthesis. <i>Nature Communications</i> , 2015 , 6, 5933	17.4	1241
646	Metal-Initiated Amination of Alkenes and Alkynes. <i>Chemical Reviews</i> , 1998 , 98, 675-704	68.1	1138
645	Palladium-catalyzed carbonylation reactions of aryl halides and related compounds. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4114-33	16.4	1116
644	Recent Applications of Palladium-Catalyzed Coupling Reactions in the Pharmaceutical, Agrochemical, and Fine Chemical Industries. <i>Advanced Synthesis and Catalysis</i> , 2009 , 351, 3027-3043	5.6	1033
643	Sustainable metal catalysis with iron: from rust to a rising star?. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3317-21	16.4	1032
642	Synthesis of heterocycles via palladium-catalyzed carbonylations. <i>Chemical Reviews</i> , 2013 , 113, 1-35	68.1	945
641	Catalytic Markovnikov and anti-Markovnikov functionalization of alkenes and alkynes: recent developments and trends. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3368-98	16.4	851
640	Progress in hydroformylation and carbonylation. <i>Journal of Molecular Catalysis A</i> , 1995 , 104, 17-85		745
639	Palladium-catalyzed carbonylative coupling reactions between Ar-X and carbon nucleophiles. <i>Chemical Society Reviews</i> , 2011 , 40, 4986-5009	58.5	727
638	Nanoscale Fe ₂ O ₃ -based catalysts for selective hydrogenation of nitroarenes to anilines. <i>Science</i> , 2013 , 342, 1073-6	33.3	704
637	Efficient dehydrogenation of formic acid using an iron catalyst. <i>Science</i> , 2011 , 333, 1733-6	33.3	641
636	The Catalytic Amination of Alcohols. <i>ChemCatChem</i> , 2011 , 3, 1853-1864	5.2	564
635	Low-temperature aqueous-phase methanol dehydrogenation to hydrogen and carbon dioxide. <i>Nature</i> , 2013 , 495, 85-9	50.4	546
634	Homogeneous Catalysis for Sustainable Hydrogen Storage in Formic Acid and Alcohols. <i>Chemical Reviews</i> , 2018 , 118, 372-433	68.1	534
633	Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes. <i>Nature Chemistry</i> , 2013 , 5, 537-43	17.6	513
632	Recent developments and perspectives in palladium-catalyzed cyanation of aryl halides: synthesis of benzonitriles. <i>Chemical Society Reviews</i> , 2011 , 40, 5049-67	58.5	499
631	Formic acid as a hydrogen storage material - development of homogeneous catalysts for selective hydrogen release. <i>Chemical Society Reviews</i> , 2016 , 45, 3954-88	58.5	480

630	Bridging homogeneous and heterogeneous catalysis by heterogeneous single-metal-site catalysts. <i>Nature Catalysis</i> , 2018 , 1, 385-397	36.5	461
629	A well-defined iron catalyst for the reduction of bicarbonates and carbon dioxide to formates, alkyl formates, and formamides. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9777-80	16.4	457
628	Controlled generation of hydrogen from formic acid amine adducts at room temperature and application in H ₂ /O ₂ fuel cells. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3962-5	16.4	421
627	MOF-derived cobalt nanoparticles catalyze a general synthesis of amines. <i>Science</i> , 2017 , 358, 326-332	33.3	416
626	State-of-the-art catalysts for hydrogenation of carbon dioxide. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6254-7	16.4	409
625	A New Highly Efficient Catalyst System for the Coupling of Nonactivated and Deactivated Aryl Chlorides with Arylboronic Acids Palladium-Catalyzed Reactions for Fine Chemical Synthesis, Part 17. The authors thank C. Fuhrmann for the excellent support in the laboratory, Dipl.-Chem. W. Merten for ligand synthesis of 2-(diethylbenzylphosphoryl)toluene and similar ligands as well as DMG(2)	16.4	409
624	Homogeneous catalysis using iron complexes: recent developments in selective reductions. <i>Chemical Communications</i> , 2011 , 47, 4849-59 <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 4153-4155	5.8	400
623	Efficient and selective N-alkylation of amines with alcohols catalysed by manganese pincer complexes. <i>Nature Communications</i> , 2016 , 7, 12641	17.4	397
622	Synthesis, Characterization, and Application of Metal Nanoparticles Supported on Nitrogen-Doped Carbon: Catalysis beyond Electrochemistry. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12582-94	16.4	385
621	Selective Catalytic Hydrogenations of Nitriles, Ketones, and Aldehydes by Well-Defined Manganese Pincer Complexes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8809-14	16.4	375
620	Eisenkatalyse Ein nachhaltiges Prinzip mit Perspektive?. <i>Angewandte Chemie</i> , 2008 , 120, 3363-3367	3.6	370
619	Palladacycles: Efficient New Catalysts for the Heck Vinylation of Aryl Halides. <i>Chemistry - A European Journal</i> , 1997 , 3, 1357-1364	4.8	367
618	Transition-metal-catalyzed carbonylation reactions of olefins and alkynes: a personal account. <i>Accounts of Chemical Research</i> , 2014 , 47, 1041-53	24.3	351
617	Catalytic Generation of Hydrogen from Formic acid and its Derivatives: Useful Hydrogen Storage Materials. <i>Topics in Catalysis</i> , 2010 , 53, 902-914	2.3	347
616	Palladium-Catalyzed Carbonylation Reactions of Alkenes and Alkynes. <i>ChemCatChem</i> , 2009 , 1, 28-41	5.2	327
615	Well-defined iron catalyst for improved hydrogenation of carbon dioxide and bicarbonate. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20701-4	16.4	316
614	Recent developments on the trifluoromethylation of (hetero)arenes. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 1744-54	4.5	313
613	An efficient and general iron-catalyzed arylation of benzyl alcohols and benzyl carboxylates. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3913-7	16.4	311

612	Zinc-catalyzed reduction of amides: unprecedented selectivity and functional group tolerance. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1770-1	16.4	307
611	Carbonylations of alkenes with CO surrogates. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6310-11	16.4	301
610	Iron-catalyzed hydrogen production from formic acid. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8924-34	16.4	297
609	Potassium hexacyanoferrate(II)--a new cyanating agent for the palladium-catalyzed cyanation of aryl halides. <i>Chemical Communications</i> , 2004 , 1388-9	5.8	296
608	Selective oxidation of alcohols to esters using heterogeneous Co ₃ O ₄ -N@C catalysts under mild conditions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10776-82	16.4	286
607	Tuning catalytic activity between homogeneous and heterogeneous catalysis: improved activity and selectivity of free nano-Fe ₂ O ₃ in selective oxidations. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8866-8	16.4	284
606	Catalytic Hydrogenation of Carboxylic Acid Esters, Amides, and Nitriles with Homogeneous Catalysts. <i>Organic Process Research and Development</i> , 2014 , 18, 289-302	3.9	281
605	Reduction of Nitro Compounds Using 3d-Non-Noble Metal Catalysts. <i>Chemical Reviews</i> , 2019 , 119, 2611-2880	16.4	280
604	Selective reduction of carboxylic acid derivatives by catalytic hydrosilylation. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6004-11	16.4	278
603	General and selective iron-catalyzed transfer hydrogenation of nitroarenes without base. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12875-9	16.4	277
602	Selective hydrogen production from methanol with a defined iron pincer catalyst under mild conditions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 14162-6	16.4	271
601	Palladium-catalyzed oxidative carbonylation reactions. <i>ChemSusChem</i> , 2013 , 6, 229-41	8.3	271
600	Internal olefins to linear amines. <i>Science</i> , 2002 , 297, 1676-8	33.3	270
599	Pincer-Type Complexes for Catalytic (De)Hydrogenation and Transfer (De)Hydrogenation Reactions: Recent Progress. <i>Chemistry - A European Journal</i> , 2015 , 21, 12226-50	4.8	259
598	CO ₂ -"neutral" hydrogen storage based on bicarbonates and formates. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6411-4	16.4	246
597	Katalytische Markownikow- und Anti-Markownikow-Funktionalisierung von Alkenen und Alkinen. <i>Angewandte Chemie</i> , 2004 , 116, 3448-3479	3.6	246
596	A convenient and general iron-catalyzed reduction of amides to amines. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9507-10	16.4	245
595	A convenient procedure for the palladium-catalyzed cyanation of aryl halides. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1661-4	16.4	240

594	Hydrogenation of esters to alcohols with a well-defined iron complex. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8722-6	16.4	239
593	An efficient and general synthesis of primary amines by ruthenium-catalyzed amination of secondary alcohols with ammonia. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8126-9	16.4	237
592	General and regioselective synthesis of pyrroles via ruthenium-catalyzed multicomponent reactions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11384-8	16.4	233
591	Homogeneous Catalysis by Manganese-Based Pincer Complexes. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 4344-4362	3.2	233
590	Mild and selective hydrogenation of aromatic and aliphatic (di)nitriles with a well-defined iron pincer complex. <i>Nature Communications</i> , 2014 , 5, 4111	17.4	229
589	Catalytic hydrogenation of carbon dioxide and bicarbonates with a well-defined cobalt dihydrogen complex. <i>Chemistry - A European Journal</i> , 2012 , 18, 72-5	4.8	229
588	Hydrogen generation at ambient conditions: application in fuel cells. <i>ChemSusChem</i> , 2008 , 1, 751-8	8.3	229
587	Selective methylation of amines with carbon dioxide and H ₂ . <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12156-60	16.4	228
586	Cooperative transition-metal and chiral Brønsted acid catalysis: enantioselective hydrogenation of imines to form amines. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5120-4	16.4	225
585	Synthesis and Characterization of Iron-Nitrogen-Doped Graphene/Core-Shell Catalysts: Efficient Oxidative Dehydrogenation of N-Heterocycles. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10652-8	16.4	223
584	Hydrogenation of Esters to Alcohols Catalyzed by Defined Manganese Pincer Complexes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15364-15368	16.4	220
583	Towards a green process for bulk-scale synthesis of ethyl acetate: efficient acceptorless dehydrogenation of ethanol. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5711-3	16.4	219
582	Practical synthesis of new and highly efficient ligands for the Suzuki reaction of aryl chlorides. <i>Chemical Communications</i> , 2004 , 38-9	5.8	217
581	Efficient hydrogen production from alcohols under mild reaction conditions. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9593-7	16.4	214
580	Manganese-Catalyzed Hydrogen-Autotransfer C-C Bond Formation: α -Alkylation of Ketones with Primary Alcohols. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14967-14971	16.4	212
579	Photocatalytic water reduction with copper-based photosensitizers: a noble-metal-free system. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 419-23	16.4	208
578	Selective ruthenium-catalyzed three-component synthesis of pyrroles. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 597-601	16.4	203
577	Iron-catalyzed selective reduction of nitroarenes to anilines using organosilanes. <i>Chemical Communications</i> , 2010 , 46, 1769-71	5.8	203

576	Synthesis of primary amines: first homogeneously catalyzed reductive amination with ammonia. <i>Organic Letters</i> , 2002 , 4, 2055-8	6.2	203
575	Practical imidazole-based phosphine ligands for selective palladium-catalyzed hydroxylation of aryl halides. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 918-21	16.4	202
574	Multicomponent coupling reactions for organic synthesis: chemoselective reactions with amide-aldehyde mixtures. <i>Chemistry - A European Journal</i> , 2003 , 9, 4286-94	4.8	200
573	A general catalytic methylation of amines using carbon dioxide. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9568-71	16.4	199
572	Amines made easily: a highly selective hydroaminomethylation of olefins. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10311-8	16.4	191
571	Development of a general palladium-catalyzed carbonylative Heck reaction of aryl halides. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14596-602	16.4	189
570	Improved ruthenium-catalyzed amination of alcohols with ammonia: synthesis of diamines and amino esters. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7599-603	16.4	185
569	Iron-Catalyzed α -Alkylation of Ketones with Alcohols. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14483-6	16.4	182
568	Low-Temperature Hydrogenation of Carbon Dioxide to Methanol with a Homogeneous Cobalt Catalyst. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1890-1893	16.4	179
567	Efficient and highly selective iron-catalyzed reduction of nitroarenes. <i>Chemical Communications</i> , 2011 , 47, 10972-4	5.8	179
566	Selective Catalytic Hydrogenation of Heteroarenes with N-Graphene-Modified Cobalt Nanoparticles (Co ₃ O ₄ -Co/NGr@Al ₂ O ₃). <i>Journal of the American Chemical Society</i> , 2015 , 137, 11718-24	16.4	176
565	A general and efficient method for the formylation of aryl and heteroaryl bromides. <i>Angewandte Chemie - International Edition</i> , 2005 , 45, 154-8	16.4	176
564	Selective CO ₂ Reduction to CO in Water using Earth-Abundant Metal and Nitrogen-Doped Carbon Electrocatalysts. <i>ACS Catalysis</i> , 2018 , 8, 6255-6264	13.1	171
563	Alternative metals for homogeneous catalyzed hydroformylation reactions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2852-72	16.4	171
562	Light-driven hydrogen generation: efficient iron-based water reduction catalysts. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9962-5	16.4	169
561	Utilization of CO ₂ as a C1 Building Block for Catalytic Methylation Reactions. <i>ACS Catalysis</i> , 2017 , 7, 1077-1086	13.1	168
560	The First Efficient Hydroaminomethylation with Ammonia: With Dual Metal Catalysts and Two-Phase Catalysis to Primary Amines. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2372-2375	16.4	165
559	Ruthenium-catalysed alkoxycarbonylation of alkenes with carbon dioxide. <i>Nature Communications</i> , 2014 , 5, 3091	17.4	161

558	Two iron catalysts are better than one: a general and convenient reduction of aromatic and aliphatic primary amides. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1662-6	16.4	161
557	Transition-Metal-Catalyzed Utilization of Methanol as a C Source in Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6384-6394	16.4	159
556	Copper-catalyzed trifluoromethylation of aryl- and vinylboronic acids with generation of CF ₃ -radicals. <i>Chemical Communications</i> , 2013 , 49, 2628-30	5.8	159
555	A general ruthenium-catalyzed synthesis of aromatic amines. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8291-4	16.4	154
554	A convenient and efficient procedure for the palladium-catalyzed cyanation of aryl halides using trimethylsilylcyanide. <i>Journal of Organometallic Chemistry</i> , 2003 , 684, 50-55	2.3	154
553	Continuous Hydrogen Generation from Formic Acid: Highly Active and Stable Ruthenium Catalysts. <i>Advanced Synthesis and Catalysis</i> , 2009 , 351, 2517-2520	5.6	153
552	Green synthesis of nitriles using non-noble metal oxides-based nanocatalysts. <i>Nature Communications</i> , 2014 , 5, 4123	17.4	152
551	A highly efficient catalyst for the telomerization of 1,3-dienes with alcohols: first synthesis of a monocarbene-palladium(0)-olefin complex. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 986-9	16.4	149
550	Improved and General Manganese-Catalyzed N-Methylation of Aromatic Amines Using Methanol. <i>Chemistry - A European Journal</i> , 2017 , 23, 5410-5413	4.8	147
549	Efficient copper(II)-catalyzed transamidation of non-activated primary carboxamides and ureas with amines. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3905-9	16.4	146
548	A general palladium-catalyzed amination of aryl halides with ammonia. <i>Chemistry - A European Journal</i> , 2009 , 15, 4528-33	4.8	144
547	Selective palladium-catalyzed aminocarbonylation of aryl halides with CO and ammonia. <i>Chemistry - A European Journal</i> , 2010 , 16, 9750-3	4.8	142
546	Efficient and selective hydrogenation of amides to alcohols and amines using a well-defined manganese-PNN pincer complex. <i>Chemical Science</i> , 2017 , 8, 3576-3585	9.4	140
545	Palladium-catalyzed coupling reactions: carbonylative Heck reactions to give chalcones. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5284-8	16.4	139
544	Ein neues hocheffizientes Katalysatorsystem für die Kupplung von nichtaktivierten und deaktivierten Arylchloriden mit Arylboronsäuren. <i>Angewandte Chemie</i> , 2000 , 112, 4315-4317	3.6	139
543	Ein wohldefinierter Eisenkatalysator für die Reduktion von Bicarbonaten und Kohlendioxid zu Formiaten, Alkylformiaten und Formamiden. <i>Angewandte Chemie</i> , 2010 , 122, 9971-9974	3.6	138
542	Palladium-catalyzed formylation of aryl bromides: elucidation of the catalytic cycle of an industrially applied coupling reaction. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15549-63	16.4	136
541	Development of a ruthenium-catalyzed asymmetric epoxidation procedure with hydrogen peroxide as the oxidant. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5255-60	16.4	136

540	Highly Selective Catalyst Systems for the Hydroformylation of Internal Olefins to Linear Aldehydes This work was supported by Oxeno Olefinchemie GmbH and the State of Mecklenburg-West Pommern. Dr. C. Fischer and Mrs. S. Buchholz are thanked for their excellent technical support.. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 3408-3411	16.4	136
539	Kontrollierte Wasserstoffherzeugung aus Ameisensäure-Amin-Addukten bei Raumtemperatur und direkte Nutzung in H ₂ /O ₂ -Brennstoffzellen. <i>Angewandte Chemie</i> , 2008 , 120, 4026-4029	3.6	134
538	Selective ruthenium-catalyzed N-alkylation of indoles by using alcohols. <i>Chemistry - A European Journal</i> , 2010 , 16, 3590-3	4.8	133
537	Non-Pincer-Type Manganese Complexes as Efficient Catalysts for the Hydrogenation of Esters. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7531-7534	16.4	132
536	Towards the development of a hydrogen battery. <i>Energy and Environmental Science</i> , 2012 , 5, 8907	35.4	132
535	A More Efficient Catalyst for the Carbonylation of Chloroarenes. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2856-2859	16.4	132
534	A noble-metal-free system for photocatalytic hydrogen production from water. <i>Chemistry - A European Journal</i> , 2013 , 19, 15972-8	4.8	131
533	Manganese(I)-Catalyzed Enantioselective Hydrogenation of Ketones Using a Defined Chiral PNP Pincer Ligand. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11237-11241	16.4	131
532	Chemoselective transfer hydrogenation to nitroarenes mediated by cubane-type Mo ₃ S ₄ cluster catalysts. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7794-8	16.4	131
531	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 559-562	16.4	129
530	Moderne Katalysatoren zur Hydrierung von Kohlendioxid. <i>Angewandte Chemie</i> , 2010 , 122, 6392-6395	3.6	129
529	Ruthenium-catalyzed selective β -deuteration of bioactive amines. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12239-44	16.4	127
528	Nitrogen-Doped Graphene-Activated Iron-Oxide-Based Nanocatalysts for Selective Transfer Hydrogenation of Nitroarenes. <i>ACS Catalysis</i> , 2015 , 5, 1526-1529	13.1	126
527	Molecularly Defined Manganese Pincer Complexes for Selective Transfer Hydrogenation of Ketones. <i>ChemSusChem</i> , 2017 , 10, 83-86	8.3	126
526	Highly selective hydrogenation of arenes using nanostructured ruthenium catalysts modified with a carbon-nitrogen matrix. <i>Nature Communications</i> , 2016 , 7, 11326	17.4	124
525	Transition Metal Catalyzed Carbonylation Reactions 2013 ,		124
524	Synthesis of β -amino acid amides: ruthenium-catalyzed amination of β -hydroxy amides. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11197-201	16.4	124
523	Zinc-catalyzed chemoselective reduction of tertiary and secondary amides to amines. <i>Chemistry - A European Journal</i> , 2011 , 17, 12186-92	4.8	123

522	Convenient and mild epoxidation of alkenes using heterogeneous cobalt oxide catalysts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4359-63	16.4	122
521	Selective palladium-catalyzed aminocarbonylation of olefins with aromatic amines and nitroarenes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 14089-93	16.4	121
520	Palladium-Catalyzed Carbonylative Transformation of C(sp ³) σ Bonds. <i>ACS Catalysis</i> , 2014 , 4, 2977-2989	13.1	119
519	Cooperative iron-Brønsted acid catalysis: enantioselective hydrogenation of quinoxalines and 2H-1,4-benzoxazines. <i>Chemistry - A European Journal</i> , 2013 , 19, 4997-5003	4.8	117
518	Recent progress for reversible homogeneous catalytic hydrogen storage in formic acid and in methanol. <i>Coordination Chemistry Reviews</i> , 2018 , 373, 317-332	23.2	117
517	Unravelling the Mechanism of Basic Aqueous Methanol Dehydrogenation Catalyzed by Ru-PNP Pincer Complexes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14890-14904	16.4	115
516	Synthesis, characterisation and application of iridium(III) photosensitisers for catalytic water reduction. <i>Chemistry - A European Journal</i> , 2011 , 17, 6998-7006	4.8	113
515	Improved hydrogen generation from formic acid. <i>Tetrahedron Letters</i> , 2009 , 50, 1603-1606	2	112
514	Eine effiziente und allgemein anwendbare Fe-katalysierte Arylierung von Benzylalkoholen und Benzylcarboxylaten. <i>Angewandte Chemie</i> , 2005 , 117, 3981-3985	3.6	112
513	A General and Highly Selective Cobalt-Catalyzed Hydrogenation of N-Heteroarenes under Mild Reaction Conditions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3216-3220	16.4	111
512	Highly active and efficient catalysts for alkoxy carbonylation of alkenes. <i>Nature Communications</i> , 2017 , 8, 14117	17.4	110
511	Highly selective transfer hydrogenation of functionalised nitroarenes using cobalt-based nanocatalysts. <i>Green Chemistry</i> , 2015 , 17, 898-902	10	109
510	Palladium-catalyzed carbonylations of aryl bromides using paraformaldehyde: synthesis of aldehydes and esters. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10090-4	16.4	109
509	A novel and convenient synthesis of benzonitriles: electrophilic cyanation of aryl and heteroaryl bromides. <i>Chemistry - A European Journal</i> , 2011 , 17, 4217-22	4.8	109
508	Ruthenium-catalyzed hydrogenation of bicarbonate in water. <i>ChemSusChem</i> , 2010 , 3, 1048-50	8.3	109
507	An industrially viable catalyst system for palladium-catalyzed telomerizations of 1,3-butadiene with alcohols. <i>Chemistry - A European Journal</i> , 2004 , 10, 3891-900	4.8	108
506	Amidocarbonylation-An Efficient Route to Amino Acid Derivatives. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 1010-1027	16.4	108
505	Iron-catalyzed carbonylation: selective and efficient synthesis of succinimides. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6041-4	16.4	107

504	Salt-Free Synthesis of Tertiary Amines by Ruthenium-Catalyzed Amination of Alcohols. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 4745-4750	3.2	107
503	Hydrogenation using iron oxide-based nanocatalysts for the synthesis of amines. <i>Nature Protocols</i> , 2015 , 10, 548-57	18.8	106
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