Walter Leitner

List of Publications by Year
in descending order

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436	27,940	6254 80	8396 147
papers	citations	h-index	g-index

563	563	563	17755
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sustainable Conversion of Carbon Dioxide: An Integrated Review of Catalysis and Life Cycle Assessment. Chemical Reviews, 2018, 118, 434-504.	47.7	1,571
2	Worldwide innovations in the development of carbon capture technologies and the utilization of CO2. Energy and Environmental Science, 2012, 5, 7281.	30.8	979
3	Carbon Dioxide as a Raw Material: The Synthesis of Formic Acid and Its Derivatives from CO2. Angewandte Chemie International Edition in English, 1995, 34, 2207-2221.	4.4	727
4	Selective Catalytic Synthesis Using the Combination of Carbon Dioxide and Hydrogen: Catalytic Chess at the Interface of Energy and Chemistry. Angewandte Chemie - International Edition, 2016, 55, 7296-7343.	13.8	686
5	Designing for a green chemistry future. Science, 2020, 367, 397-400.	12.6	645
6	Chemical Technologies for Exploiting and Recycling Carbon Dioxide into the Value Chain. ChemSusChem, 2011, 4, 1216-1240.	6.8	639
7	Supercritical Carbon Dioxide as a Green Reaction Medium for Catalysis. Accounts of Chemical Research, 2002, 35, 746-756.	15.6	548
8	Selective and Flexible Transformation of Biomassâ€Đerived Platform Chemicals by a Multifunctional Catalytic System. Angewandte Chemie - International Edition, 2010, 49, 5510-5514.	13.8	530
9	The coordination chemistry of carbon dioxide and its relevance for catalysis: a critical survey. Coordination Chemistry Reviews, 1996, 153, 257-284.	18.8	502
10	Hydrogenation of Carbon Dioxide to Methanol by Using a Homogeneous Rutheniumâ€“Phosphine Catalyst. Angewandte Chemie - International Edition, 2012, 51, 7499-7502.	13.8	466
11	Iridium-Catalyzed Enantioselective Hydrogenation of Imines in Supercritical Carbon Dioxide. Journal of the American Chemical Society, 1999, 121, 6421-6429.	13.7	317
12	Hydrogenation of carbon dioxide to methanol using a homogeneous rutheniumâ€“Triphos catalyst: from mechanistic investigations to multiphase catalysis. Chemical Science, 2015, 6, 693-704.	7.4	314
13	Carbon dioxide (CO₂) as sustainable feedstock for polyurethane production. Green Chemistry, 2014, 16, 1865-1870.	9.0	307
14	Rhodium-Catalyzed Hydroformylation in Supercritical Carbon Dioxide. Journal of the American Chemical Society, 1998, 120, 13398-13404.	13.7	269
15	Perfluoroalkyl-Substituted Arylphosphanes as Ligands for Homogenous Catalysis in Supercritical Carbon Dioxide. Angewandte Chemie International Edition in English, 1997, 36, 1628-1630.	4.4	254
16	Selective Homogeneous Hydrogenation of Biogenic Carboxylic Acids with [Ru(TriPhos)H]⁺: A Mechanistic Study. Journal of the American Chemical Society, 2011, 133, 14349-14358.	13.7	233
17	Enantioselective Hydrogenation of Imines in Ionic Liquid/Carbon Dioxide Media. Journal of the American Chemical Society, 2004, 126, 16142-16147.	13.7	232
18	Rutheniumâ€Catalyzed Direct Methylation of Primary and Secondary Aromatic Amines Using Carbon Dioxide and Molecular Hydrogen. Angewandte Chemie - International Edition, 2013, 52, 9554-9557.	13.8	228

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19	Highly Versatile Catalytic Hydrogenation of Carboxylic and Carbonic Acid Derivatives using a Ru-Triphos Complex: Molecular Control over Selectivity and Substrate Scope. Journal of the American Chemical Society, 2014, 136, 13217-13225.	13.7	227
20	Advanced Biofuels and Beyond: Chemistry Solutions for Propulsion and Production. Angewandte Chemie - International Edition, 2017, 56, 5412-5452.	13.8	224
21	Kohlendioxid als Rohstoff am Beispiel der Synthese von AmeisensÃure und ihren Derivaten. Angewandte Chemie, 1995, 107, 2391-2405.	2.0	219
22	Ruthenium Catalyzed Hydroboration of Terminal Alkynes to Z-Vinylboronates. Journal of the American Chemical Society, 2012, 134, 14349-14352.	13.7	214
23	Biphasic Aerobic Oxidation of Alcohols Catalyzed by Poly(ethylene glycol)-Stabilized Palladium Nanoparticles in Supercritical Carbon Dioxide. Angewandte Chemie - International Edition, 2005, 44, 1346-1349.	13.8	206
24	Activation, Tuning, and Immobilization of Homogeneous Catalysts in an Ionic Liquid/Compressed CO2 Continuous-Flow System. Angewandte Chemie - International Edition, 2001, 40, 2697-2699.	13.8	203
25	Mechanistic Aspects of the Rhodium-Catalyzed Hydrogenation of CO2to Formic AcidA Theoretical and Kinetic Studyâ€,â€–. Journal of the American Chemical Society, 1997, 119, 4432-4443.	13.7	198
26	Cleaner production of cleaner fuels: wind-to-wheel â€“ environmental assessment of CO₂-based oxymethylene ether as a drop-in fuel. Energy and Environmental Science, 2018, 11, 331-343.	30.8	195
27	Hydrogenation of carbon dioxide to formic acid using water-soluble rhodium catalyststs. Journal of the Chemical Society Chemical Communications, 1993, , 1465.	2.0	192
28	Carbon Dioxide as a C₁ Building Block for the Formation of Carboxylic Acids by Formal Catalytic Hydrocarboxylation. Angewandte Chemie - International Edition, 2013, 52, 12119-12123.	13.8	188
29	Olefin Metathesis in Supercritical Carbon Dioxide. Journal of the American Chemical Society, 2001, 123, 9000-9006.	13.7	186
30	From biomass to feedstock: one-step fractionation of lignocellulose components by the selective organic acid-catalyzed depolymerization of hemicellulose in a biphasic system. Green Chemistry, 2011, 13, 1772.	9.0	182
31	Biocatalysis in ionic liquids: batchwise and continuous flow processes using supercritical carbon dioxide as the mobile phase. Chemical Communications, 2002, , 992-993.	4.1	181
32	Continuousâ€Flow Hydrogenation of Carbon Dioxide to Pure Formic Acid using an Integrated scCO₂ Process with Immobilized Catalyst and Base. Angewandte Chemie - International Edition, 2012, 51, 8585-8588.	13.8	173
33	Highly Enantioselective Aza-Baylisâ€“Hillman Reaction in a Chiral Reaction Medium. Angewandte Chemie - International Edition, 2006, 45, 3689-3692.	13.8	169
34	Activation of carbon dioxide. Journal of Organometallic Chemistry, 1994, 475, 257-266.	1.8	167
35	Selektive katalytische Synthesen mit Kohlendioxid und Wasserstoff: Katalyseâ€Schach an der Nahtstelle zwischen Energie und Chemie. Angewandte Chemie, 2016, 128, 7416-7467.	2.0	160
36	Hydrogenation of CO₂ to Formic Acid with a Highly Active Ruthenium Acriphos Complex in DMSO and DMSO/Water. Angewandte Chemie - International Edition, 2016, 55, 8966-8969.	13.8	158

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37	Direct formation of formic acid from carbon dioxide and dihydrogen using the [{Rh(cod)Cl}2]â€“Ph2P(CH2)4PPh2catalyst system. Journal of the Chemical Society Chemical Communications, 1992, , 623-624.	2.0	156
38	Transition Metal Complexes as Catalysts for the Electroconversion of CO₂: An Organometallic Perspective. Angewandte Chemie - International Edition, 2021, 60, 11628-11686.	13.8	154
39	Homogeneous Catalytic Hydrogenation of Amides to Amines. Chemistry - A European Journal, 2013, 19, 11039-11050.	3.3	149
40	Continuous Flow Enzymatic Kinetic Resolution and Enantiomer Separation using Ionic Liquid/Supercritical Carbon Dioxide Media. Advanced Synthesis and Catalysis, 2003, 345, 1221-1228.	4.3	147
41	Highly efficient enantioselective catalysis in supercritical carbon dioxide using the perfluoroalkyl-substituted ligand (R,S)-3-H2F6-BINAPHOS. Journal of Organometallic Chemistry, 2001, 621, 130-142.	1.8	145
42	Rutheniumâ€Catalyzed Cï¿¿C Bond Cleavage in Lignin Model Substrates. Angewandte Chemie - International Edition, 2015, 54, 5859-5863.	13.8	141
43	An overview of the biphasic dehydration of sugars to 5-hydroxymethylfurfural and furfural: a rational selection of solvents using COSMO-RS and selection guides. Green Chemistry, 2020, 22, 2097-2128.	9.0	140
44	Complexes [(P₂)Rh(hfacac)] as Model Compounds for the Fragment [(P₂)Rh] and as Highly Active Catalysts for CO₂ Hydrogenation: The Accessible Molecular Surface (AMS) Model as an Approach to Quantifying the Intrinsic Steric Properties of Chelating Ligands in Homogeneous Catalysis. Chemistry - A European Journal, 1997, 3, 755-764.	3.3	138
45	Highly Enantioselective Nickel-Catalyzed Hydrovinylation with Chiral Phosphoramidite Ligands. Journal of the American Chemical Society, 2002, 124, 736-737.	13.7	137
46	Rutheniumâ€Catalyzed Reductive Methylation of Imines Using Carbon Dioxide and Molecular Hydrogen. Angewandte Chemie - International Edition, 2014, 53, 11010-11014.	13.8	134
47	H/D Exchange at Aromatic and Heteroaromatic Hydrocarbons Using D2O as the Deuterium Source and Ruthenium Dihydrogen Complexes as the Catalyst. Angewandte Chemie - International Edition, 2007, 46, 2269-2272.	13.8	129
48	Olefin Metathesis in Compressed Carbon Dioxide. Angewandte Chemie International Edition in English, 1997, 36, 2466-2469.	4.4	128
49	Asymmetric Catalysis with Chiral Phosphane/Phosphoramidite Ligands Derived from Quinoline (QUINAPHOS). Angewandte Chemie - International Edition, 2000, 39, 1428-1430.	13.8	128
50	Designed to dissolve. Nature, 2000, 405, 129-130.	27.8	127
51	Ionic liquid-stabilized nanoparticles as catalysts for the conversion of biomass. Green Chemistry, 2015, 17, 3195-3206.	9.0	126
52	Synthesis of 1â€Octanol and 1,1â€Dioctyl Ether from Biomassâ€Derived Platform Chemicals. Angewandte Chemie - International Edition, 2012, 51, 8615-8619.	13.8	125
53	Rutheniumâ€Catalyzed Synthesis of Dialkoxymethane Ethers Utilizing Carbon Dioxide and Molecular Hydrogen. Angewandte Chemie - International Edition, 2016, 55, 12266-12269.	13.8	120
54	Palladium nanoparticles stabilised on PEG-modified silica as catalysts for the aerobic alcohol oxidation in supercritical carbon dioxide. Green Chemistry, 2007, 9, 127-132.	9.0	119

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55	Salt-assisted organic-acid-catalyzed depolymerization of cellulose. Green Chemistry, 2010, 12, 1844.	9.0	119
56	Bifunctional Activation and Racemization in the Catalytic Asymmetric Aza-Baylisâ^'Hillman Reaction. Journal of the American Chemical Society, 2005, 127, 16762-16763.	13.7	118
57	Highly regio- and enantio-selective rhodium-catalysed asymmetric hydroformylation without organic solvents. Chemical Communications, 1999, , 1663-1664.	4.1	114
58	Fractionation of lignocellulosic biomass using the OrganoCat process. Green Chemistry, 2015, 17, 3533-3539.	9.0	113
59	Substrate dependent synergetic and antagonistic interaction of ammonium halide and polyoxometalate catalysts in the synthesis of cyclic carbonates from oleochemical epoxides and CO2. Green Chemistry, 2013, 15, 1173.	9.0	112
60	Catalytic Hydrogenation of Cyclic Carbonates using Manganese Complexes. Angewandte Chemie - International Edition, 2018, 57, 13449-13453.	13.8	105
61	Love at second sight for CO ₂ and H ₂ in organic synthesis. Science, 2015, 350, 629-630.	12.6	104
62	Manganese-catalyzed hydroboration of carbon dioxide and other challenging carbonyl groups. Nature Communications, 2018, 9, 4521.	12.8	104
63	Asymmetric catalysis. 80. Mechanistic aspects of the rhodium-catalyzed enantioselective transfer hydrogenation of .alpha.,.beta.-unsaturated carboxylic acids using formic acid/triethylamine (5:2) as the hydrogen source. Journal of the American Chemical Society, 1993, 115, 152-159.	13.7	103
64	Supercritical Carbon Dioxide as Solvent and Temporary Protecting Group for Rhodium-Catalyzed Hydroaminomethylation. Chemistry - A European Journal, 2001, 7, 4584-4589.	3.3	103
65	Ironâ€Catalyzed Furfural Production in Biobased Biphasic Systems: From Pure Sugars to Direct Use of Crude Xylose Effluents as Feedstock. ChemSusChem, 2011, 4, 1592-1594.	6.8	103
66	Highly Selective Decarbonylation of 5â€(Hydroxymethyl)furfural in the Presence of Compressed Carbon Dioxide. Angewandte Chemie - International Edition, 2011, 50, 6831-6834.	13.8	102
67	Continuous Enantioselective Hydrogenation with a Molecular Catalyst in Supported Ionic Liquid Phase under Supercritical CO₂ Flow. ChemCatChem, 2010, 2, 150-154.	3.7	101
68	Manganese(I)â€Catalyzed Î²â€Methylation of Alcohols Using Methanol as C₁ Source. Angewandte Chemie - International Edition, 2020, 59, 215-220.	13.8	95
69	Reduction of Nitriles to Amines with H2 Catalyzed by Nonclassical Ruthenium Hydrides - Water-Promoted Selectivity for Primary Amines and Mechanistic Investigations. European Journal of Inorganic Chemistry, 2011, 2011, 3381-3386.	2.0	94
70	Synergistic Interaction within Bifunctional Ruthenium Nanoparticle/SILP Catalysts for the Selective Hydrodeoxygenation of Phenols. Angewandte Chemie - International Edition, 2015, 54, 15750-15755.	13.8	93
71	Room Temperature Activation of Aromatic Cï£¿H Bonds by Non-Classical Ruthenium Hydride Complexes Containing Carbene Ligands. Advanced Synthesis and Catalysis, 2003, 345, 1139-1145.	4.3	91
72	Continuous flow organometallic catalysis: new wind in old sails. Chemical Communications, 2011, 47, 3691.	4.1	89

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73	Trimethylenemethaneâ€Ruthenium(II)â€Triphos Complexes as Highly Active Catalysts for Catalytic Cï£¿O Bond Cleavage Reactions of Lignin Model Compounds. ChemCatChem, 2013, 5, 439-441.	3.7	87
74	Gaining pH-control in water/carbon dioxide biphasic systems. Green Chemistry, 2007, 9, 455.	9.0	85
75	Complexes [(P2)Rh(hfacac)](P2= bidentate chelating phosphane, hfacac = hexafluoroacetylacetonate) as catalysts for CO2hydrogenation: correlations between solid state structures,103Rh NMR shifts and catalytic activities. Journal of the Chemical Society Chemical Communications, 1995, , 1479-1481.	2.0	84
76	A greener solution. Nature, 2003, 423, 930-931.	27.8	83
77	The Twelve Principles of CO₂ CHEMISTRY. Faraday Discussions, 2015, 183, 9-17.	3.2	83
78	[RhH] and[Rh][O2CH] Complexes as Models for the Catalytically Active Intermediates in the Rh-Catalyzed Hydrogenation of CO2 to HCOOH. Angewandte Chemie International Edition in English, 1993, 32, 739-741.	4.4	82
79	Expanding the useful range of ionic liquids: melting point depression of organic salts with carbon dioxide for biphasic catalytic reactions. Chemical Communications, 2006, , 3681.	4.1	82
80	Highly Efficient and Versatile Phosphine-Phosphoramidite Ligands for Asymmetric Hydrogenation. Advanced Synthesis and Catalysis, 2009, 351, 725-732.	4.3	81
81	Double Dehydrogenation of Primary Amines to Nitriles by a Ruthenium Complex Featuring Pyrazole Functionality. Journal of the American Chemical Society, 2018, 140, 8662-8666.	13.7	80
82	Concurrent Hydrogenation of Aromatic and Nitro Groups over Carbon-Supported Ruthenium Catalysts. ACS Catalysis, 2015, 5, 203-209.	11.2	78
83	Preparation of Rhodium Nanoparticles in Carbon Dioxide Induced Ionic Liquids and their Application to Selective Hydrogenation. Angewandte Chemie - International Edition, 2009, 48, 1085-1088.	13.8	76
84	A Fully Integrated Continuousâ€Flow System for Asymmetric Catalysis: Enantioselective Hydrogenation with Supported Ionic Liquid Phase Catalysts Using Supercritical CO₂ as the Mobile Phase. Chemistry - A European Journal, 2013, 19, 4538-4547.	3.3	75
85	Direct Synthesis of Cycloalkanes from Diols and Secondary Alcohols or Ketones Using a Homogeneous Manganese Catalyst. Journal of the American Chemical Society, 2019, 141, 17487-17492.	13.7	75
86	Unprecedented Carbonato Intermediates in Cyclic Carbonate Synthesis Catalysed by Bimetallic Aluminium(Salen) Complexes. ChemSusChem, 2016, 9, 791-794.	6.8	74
87	Synthesis of Perfluoroalkyl-Substituted Aryl Bromides and Their Purification Over Fluorous Reverse Phase Silica. Synthesis, 1998, 1998, 1425-1427.	2.3	73
88	Enantioselective Hydrogenation with Racemic and Enantiopure Binap in the Presence of a Chiral Ionic Liquid. Angewandte Chemie - International Edition, 2008, 47, 7339-7341.	13.8	73
89	Chemo-enzymatic cascade oxidation in supercritical carbon dioxide/water biphasic media. Green Chemistry, 2009, 11, 1052.	9.0	71
90	Practical separation of alcoholâ€“ester mixtures using Deep-Eutectic-Solvents. Tetrahedron Letters, 2012, 53, 6968-6971.	1.4	71

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91	Nickel-catalysed enantioselective hydrovinylation of styrenes in liquid or supercritical carbon dioxide. Chemical Communications, 1999, , 1583-1584.	4.1	70
92	Benign coupling of reactions and separations with reversible ionic liquids. Tetrahedron, 2010, 66, 1082-1090.	1.9	70
93	Steel-Promoted Oxidation of Olefins in Supercritical Carbon Dioxide Using Dioxygen in the Presence of Aldehydes. Chemistry - A European Journal, 2000, 6, 2011-2015.	3.3	69
94	Melting Point Depression of Ionic Liquids with CO₂:â€‰ Phase Equilibria. Industrial & Engineering Chemistry Research, 2008, 47, 493-501.	3.7	69
95	Tailorâ€Made Rutheniumâ€Triphos Catalysts for the Selective Homogeneous Hydrogenation of Lactams. Angewandte Chemie - International Edition, 2016, 55, 1392-1395.	13.8	69
96	Catalytic asymmetric hydroformylation in the presence of compressed carbon dioxide. Catalysis Letters, 1998, 55, 223-225.	2.6	67
97	A Cartridge System for Organometallic Catalysis: Sequential Catalysis and Separation Using Supercritical Carbon Dioxide to Switch Phases. Angewandte Chemie - International Edition, 2005, 44, 2291-2295.	13.8	67
98	Supported palladium nanoparticles on hybrid mesoporous silica: Structure/activity-relationship in the aerobic alcohol oxidation using supercritical carbon dioxide. Journal of Catalysis, 2008, 258, 315-323.	6.2	67
99	Selective hydrogenation of biomass derived substrates using ionic liquid-stabilized ruthenium nanoparticles. Green Chemistry, 2010, 12, 1634.	9.0	67
100	Cellulose solubilities in carboxylate-based ionic liquids. RSC Advances, 2012, 2, 2476.	3.6	65
101	Synthesis and Characterisation of Nonclassical Ruthenium Hydride Complexes Containing Chelating Bidentate and Tridentate Phosphine Ligands. Chemistry - A European Journal, 2007, 13, 1539-1546.	3.3	64
102	Screening of new solvents for artemisininextraction process using ab initio methodology. Green Chemistry, 2010, 12, 241-251.	9.0	64
103	Chymotrypsinâ€Catalyzed Peptide Synthesis in Deep Eutectic Solvents. European Journal of Organic Chemistry, 2013, 2013, 4223-4228.	2.4	64
104	Enabling the Scale-Up of a Key Asymmetric Hydrogenation Step in the Synthesis of an API Using Continuous Flow Solid-Supported Catalysis. Organic Process Research and Development, 2016, 20, 1321-1327.	2.7	64
105	Reactions in Supercritical Carbon Dioxide (scCO2). Topics in Current Chemistry, 1999, , 107-132.	4.0	63
106	Rhodium-Catalyzed Phenylacetylene Polymerization in Compressed Carbon Dioxide. Macromolecules, 1999, 32, 3178-3182.	4.8	63
107	Aqueous Biphasic Systems for the Synthesis of Formates by Catalytic CO₂ Hydrogenation: Integrated Reaction and Catalyst Separation for CO₂â€Scrubbing Solutions. ChemSusChem, 2017, 10, 1085-1093.	6.8	63
108	Enhancing the Catalytic Properties of Ruthenium Nanoparticle-SILP Catalysts by Dilution with Iron. ACS Catalysis, 2016, 6, 3719-3726.	11.2	62

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109	Ïƒ Metathesis as a Critical Step for the Transition Metal Catalyzed Formation of Formic Acid from CO2 and H2? An Ab Initio Investigation. Angewandte Chemie International Edition in English, 1995, 34, 1742-1745.	4.4	61
110	Palladium(0)-catalyzed substitution of allylic substrates in perfluorinated solvents. Tetrahedron Letters, 1998, 39, 9439-9442.	1.4	61
111	Carbon Dioxide as a C₁ Building Block for the Formation of Carboxylic Acids by Formal Catalytic Hydrocarboxylation. Angewandte Chemie, 2013, 125, 12341-12345.	2.0	61
112	Bimetallic Nanoparticles in Supported Ionic Liquid Phases as Multifunctional Catalysts for the Selective Hydrodeoxygenation of Aromatic Substrates. Angewandte Chemie - International Edition, 2018, 57, 12721-12726.	13.8	61
113	Enantioselective catalytic transfer hydrogenation of Î±,Î²-unsaturated carboxylic acids with formates catalyzed by novel ruthenium phosphine complexes. Tetrahedron: Asymmetry, 1991, 2, 331-334.	1.8	60
114	103Rh Chemical Shifts in Complexes Bearing Chelating Bidentate Phosphine Ligands. Organometallics, 1999, 18, 1196-1206.	2.3	60
115	Carboxylation of Arene Cï£¿H Bonds with CO₂: A DFTâ€Based Approach to Catalyst Design. Chemistry - A European Journal, 2012, 18, 170-177.	3.3	60
116	Origin of Enantioselectivity in Asymmetric Hydrovinylations Catalyzed by Phosphoramidite Nickel Catalysts:â€‰ An Experimentally Supported Density Functional Study. Organometallics, 2004, 23, 5606-5617.	2.3	59
117	Enantioselective catalysis with tropos ligands in chiral ionic liquids. Chemical Communications, 2007, , 4012.	4.1	59
118	Acrylate dimerisation under ionic liquidâ€“supercritical carbon dioxide conditionsThis work was presented at the Green Solvents for Catalysis Meeting held in Bruchsal, Germany, 13â€“16th October 2002. Green Chemistry, 2003, 5, 232-235.	9.0	58
119	Genetic and biochemical insights into the itaconate pathway of Ustilago maydis enable enhanced production. Metabolic Engineering, 2016, 38, 427-435.	7.0	58
120	Nanoparticle catalysed oxidation of sulfides to sulfones by in situ generated H2O2 in supercritical carbon dioxide/water biphasic medium. Chemical Communications, 2010, 46, 6705.	4.1	57
121	Distinct Reactivity of Mono- and Bis-NHC Silver Complexes: Carbene Donors versus Carbeneâ€“Halide Exchange Reagents. Organometallics, 2011, 30, 3726-3731.	2.3	57
122	Bifunctional nanoparticleâ€“SILP catalysts (NPs@SILP) for the selective deoxygenation of biomass substrates. Chemical Science, 2014, 5, 4895-4905.	7.4	57
123	Inter- and Intramolecular Thermal Activation of sp3 Câ^'H Bonds with Ruthenium Bisallyl Complexes. Organometallics, 1999, 18, 3316-3326.	2.3	56
124	Mechanistic aspects of dihydrogen activation and transfer during asymmetric hydrogenation in supercritical carbon dioxide. , 2000, 12, 450-457.		56
125	Highly active Cr(<scp>iii</scp>) catalysts for the reaction of CO₂ with epoxides. Catalysis Science and Technology, 2014, 4, 1652-1657.	4.1	56
126	Catalysis in inverted supercritical CO2/aqueous biphasic media. Green Chemistry, 2002, 4, 501-504.	9.0	55

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127	Highly Regio- and Enantioselective Hydroformylation of Vinyl Esters Using Bidentate Phosphine,P-Chiral Phosphorodiamidite Ligands. ACS Catalysis, 2016, 6, 1584-1589.	11.2	55
128	Cationic Nickel Complexes with Weakly Coordinating Counterions and Their Application in the Asymmetric Cycloisomerisation of 1,6-Dienes. Advanced Synthesis and Catalysis, 2005, 347, 1537-1541.	4.3	54
129	A New Class of 3â€²â€Sulfonyl BINAPHOS Ligands: Modulation of Activity and Selectivity in Asymmetric Palladiumâ€Catalysed Hydrophosphorylation of Styrene. Advanced Synthesis and Catalysis, 2008, 350, 2013-2023.	4.3	54
130	Room Temperature Highly Enantioselective Nickelâ€Catalyzed Hydrovinylation. Advanced Synthesis and Catalysis, 2009, 351, 3133-3138.	4.3	54
131	Quinaphos and Dihydroâ€Quinaphos Phosphineâ€“Phosphoramidite Ligands for Asymmetric Hydrogenation. Chemistry - A European Journal, 2010, 16, 7517-7526.	3.3	54
132	Hybrid solâ€“gel double metal cyanide catalysts for the copolymerisation of styrene oxide and CO2. Green Chemistry, 2012, 14, 1168.	9.0	54
133	Highly Flexible Fibre-Optic ATR-IR Probe for Inline Reaction Monitoring. Organic Process Research and Development, 2007, 11, 94-97.	2.7	53
134	Harnessing renewable energy with CO ₂ for the chemical value chain: challenges and opportunities for catalysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150315.	3.4	53
135	New insights into the palladium-catalysed synthesis of ?-lactones from 1,3-dienes and carbon dioxide. Applied Organometallic Chemistry, 1995, 9, 43-50.	3.5	52
136	Recent advances in catalyst immobilization using supercritical carbon dioxide. Pure and Applied Chemistry, 2004, 76, 635-644.	1.9	52
137	Dried chitosan-gels as organocatalysts for the production of biomass-derived platform chemicals. Applied Catalysis A: General, 2012, 445-446, 180-186.	4.3	52
138	From beech wood to itaconic acid: case study on biorefinery process integration. Biotechnology for Biofuels, 2018, 11, 279.	6.2	52
139	Green Solventsâ€“Progress in science and application. Green Chemistry, 2009, 11, 603.	9.0	51
140	15 years of Green Chemistry. Green Chemistry, 2014, 16, 18-23.	9.0	51
141	Multi-step biocatalytic depolymerization of lignin. Applied Microbiology and Biotechnology, 2017, 101, 6277-6287.	3.6	51
142	CO2 Activation. 7. Formation of the Catalytically Active Intermediate in the Hydrogenation of Carbon Dioxide to Formic Acid Using the [{(COD)Rh(Î¼-H)}4]/Ph2P(CH2)4PPh2 Catalyst:â€‰ First Direct Observation of Hydride Migration from Rhodium to Coordinated 1,5-Cyclooctadiene. Organometallics, 1996, 15, 2078-2082.	2.3	50
143	Perfluoralkylsubstituierte Arylphosphane als Liganden fÃ¼r die homogene Katalyse in Ã¼berkritischem Kohlendioxid. Angewandte Chemie, 1997, 109, 1699-1701.	2.0	50
144	Direct coupling of alcohols to form esters and amides with evolution of H2 using in situ formed ruthenium catalysts. Catalysis Science and Technology, 2012, 2, 2039.	4.1	50

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145	Aminotriazole Mn(I) Complexes as Effective Catalysts for Transfer Hydrogenation of Ketones. ChemCatChem, 2018, 10, 4514-4518.	3.7	50
146	Intensified reactors for gas-liquid-liquid multiphase catalysis: From chemistry to engineering. Chemical Engineering Journal, 2019, 372, 917-939.	12.7	50
147	Modular Synthesis of Novel Chiral Phosphorous Triamides Based on (Sâ€Nâ€(Pyrrolidinâ€2â€ylmethyl)aniline and Their Application in Asymmetric Catalysis. European Journal of Organic Chemistry, 2009, 2009, 4102-4116.	2.4	49
148	Ligand Effects in Novel Ruthenium-Based ROMP Catalysts Bearing Bidentate Phosphines. Organometallics, 2000, 19, 4639-4642.	2.3	48
149	Selective aerobic oxidation in supercritical carbon dioxide catalyzed by the H5PV2Mo10O40 polyoxometalate. Chemical Communications, 2006, , 2230.	4.1	48
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