Wouter Schutyser

List of Publications by Year
in descending order

133 papers	15,248 citations	26567 56 h-index	17546 121 g-index
141 all docs	141 docs citations	141 times ranked	11232 citing authors

#	Article	IF	Citations
1	Tree bark characterization envisioning an integrated use in a biorefinery. Biomass Conversion and Biorefinery, 2023, 13, 2029-2043.	2.9	17
2	Identification and quantification of lignin monomers and oligomers from reductive catalytic fractionation of pine wood with GC Ã— GC â€“ FID/MS. Green Chemistry, 2022, 24, 191-206.	4.6	41
3	Establishing the Reaction Pathways of the Catalytic Conversion of Erythrulose to Sulphides of Alphaâ€Hydroxy Thioesters and Esters. ChemCatChem, 2022, 14, .	1.8	1
4	Second-Sphere Lattice Effects in Copper and Iron Zeolite Catalysis. Chemical Reviews, 2022, 122, 12207-12243.	23.0	12
5	Ligninâ€First Monomers to Catechol: Rational Cleavage of Câ^'O and Câ^'C Bonds over Zeolites. ChemSusChem, 2022, 15, .	3.6	19
6	Preparation of Renewable Thiolâ€Yne â€œClickâ€•Networks Based on Fractionated Lignin for Anticorrosive Protective Film Applications. Macromolecular Chemistry and Physics, 2022, 223, .	1.1	2
7	Catalytic Hydroconversion of 5â€HMF to Valueâ€Added Chemicals: Insights into the Role of Catalyst Properties and Feedstock Purity. ChemSusChem, 2022, 15, .	3.6	22
8	Potassium-Modified ZSM-5 Catalysts for Methyl Acrylate Formation from Methyl Lactate: The Impact of the Intrinsic Properties on Their Stability and Selectivity. ACS Sustainable Chemistry and Engineering, 2022, 10, 6196-6204.	3.2	10
9	One-Pot Consecutive Reductive Amination Synthesis of Pharmaceuticals: From Biobased Glycolaldehyde to Hydroxychloroquine. ACS Sustainable Chemistry and Engineering, 2022, 10, 6503-6508.	3.2	7
10	Guidelines for performing lignin-first biorefining. Energy and Environmental Science, 2021, 14, 262-292.	15.6	416
11	Catalytic advancements in carboxylic acid ketonization and its perspectives on biomass valorisation. Applied Catalysis B: Environmental, 2021, 283, 119607.	10.8	52
12	Toward Replacing Ethylene Oxide in a Sustainable World: Glycolaldehyde as a Bioâ€Based C 2 Platform Molecule. Angewandte Chemie, 2021, 133, 12312-12331.	1.6	5
13	Toward Replacing Ethylene Oxide in a Sustainable World: Glycolaldehyde as a Bioâ€Based C₂ Platform Molecule. Angewandte Chemie - International Edition, 2021, 60, 12204-12223.	7.2	47
14	Techno-economic analysis and life cycle assessment of a biorefinery utilizing reductive catalytic fractionation. Energy and Environmental Science, 2021, 14, 4147-4168.	15.6	106
15	Reductive Catalytic Fractionation: From Waste Wood to Functional Phenolic Oligomers for Attractive, Value-Added Applications. ACS Symposium Series, 2021, , 37-60.	0.5	5
16	Boosting PLA melt strength by controlling the chirality of co-monomer incorporation. Chemical Science, 2021, 12, 5672-5681.	3.7	20
17	Assessment of the environmental sustainability of solvent-less fatty acid ketonization to bio-based ketones for wax emulsion applications. Green Chemistry, 2021, 23, 7137-7161.	4.6	9
18	Low molecular weight and highly functional RCF lignin products as a full bisphenol a replacer in bio-based epoxy resins. Chemical Communications, 2021, 57, 5642-5645.	2.2	28

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19	Efficient demethylation of aromatic methyl ethers with HCl in water. Green Chemistry, 2021, 23, 1995-2009.	4.6	28
20	Fast and Selective Solvent-Free Branching of Unsaturated Fatty Acids with Hierarchical ZSM-5. ACS Sustainable Chemistry and Engineering, 2021, 9, 4357-4362.	3.2	6
21	Highly Dispersed Sn-beta Zeolites as Active Catalysts for Baeyerâ€"Villiger Oxidation: The Role of Mobile, <i>In Situ</i> Sn(II)O Species in Solid-State Stannation. ACS Catalysis, 2021, 11, 5984-5998.	5.5	35
22	Spectroscopic Definition of a Highly Reactive Site in Cu-CHA for Selective Methane Oxidation: Tuning a Mono-Î¼-Oxo Dicopper(II) Active Site for Reactivity. Journal of the American Chemical Society, 2021, 143, 7531-7540.	6.6	44
23	Metal Sulfide Photocatalysts for Lignocellulose Valorization. Advanced Materials, 2021, 33, e2007129.	11.1	106
24	How Trace Impurities Can Strongly Affect the Hydroconversion of Biobased 5-Hydroxymethylfurfural?. ACS Catalysis, 2021, 11, 9204-9209.	5.5	19
25	Cage effects control the mechanism of methane hydroxylation in zeolites. Science, 2021, 373, 327-331.	6.0	61
26	Lignin-Based Additives for Improved Thermo-Oxidative Stability of Biolubricants. ACS Sustainable Chemistry and Engineering, 2021, 9, 12548-12559.	3.2	41
27	Enhancing lignin depolymerization <i>via</i> a dithionite-assisted organosolv fractionation of birch sawdust. Green Chemistry, 2021, 23, 3268-3276.	4.6	13
28	Heterogeneous catalysts for CO₂hydrogenation to formic acid/formate: from nanoscale to single atom. Energy and Environmental Science, 2021, 14, 1247-1285.	15.6	152
29	Optical encoding of luminescent carbon nanodots in confined spaces. Chemical Communications, 2021, 57, 11952-11955.	2.2	1
30	Supported MoO_{<i>x</i>} and WO_{<i>x</i>} Solid Acids for Biomass Valorization: Interplay of Coordination Chemistry, Acidity, and Catalysis. ACS Catalysis, 2021, 11, 13603-13648.	5.5	38
31	Z-Scheme nanocomposite with high redox ability for efficient cleavage of lignin Câ€"C bonds under simulated solar light. Green Chemistry, 2021, 23, 10071-10078.	4.6	30
32	Tandem Reductionâ€"Reoxidation Augments the Catalytic Activity of Sn-Beta Zeolites by Redispersion and Respeciation of SnO₂ Clusters. Chemistry of Materials, 2021, 33, 9366-9381.	3.2	10
33	Pentanoic acid from Î³-valerolactone and formic acid using bifunctional catalysis. Green Chemistry, 2020, 22, 1171-1181.	4.6	33
34	BrÃ¸nsted Acid Catalyzed Tandem Defunctionalization of Biorenewable Ferulic acid and Derivates into Bioâ€Catechol. Angewandte Chemie - International Edition, 2020, 59, 3063-3068.	7.2	31
35	Synthesisâ€"Structureâ€"Activity Relations in Fe-CHA for Câ€"H Activation: Control of Al Distribution by Interzeolite Conversion. Chemistry of Materials, 2020, 32, 273-285.	3.2	51
36	Towards Lignin-Derived Chemicals Using Atom-Efficient Catalytic Routes. Trends in Chemistry, 2020, 2, 898-913.	4.4	22

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37	Perspective on Overcoming Scale-Up Hurdles for the Reductive Catalytic Fractionation of Lignocellulose Biomass. Industrial & Engineering Chemistry Research, 2020, 59, 17035-17045.	1.8	59
38	Catalytic Technologies for Renewable Biomass Conversion. Advanced Sustainable Systems, 2020, 4, 2000171.	2.7	4
39	State of the Art and Perspectives of Hierarchical Zeolites: Practical Overview of Synthesis Methods and Use in Catalysis. Advanced Materials, 2020, 32, e2004690.	11.1	168
40	Aromatics Production from Lignocellulosic Biomass: Shape Selective Dealkylation of Lignin-Derived Phenolics over Hierarchical ZSM-5. ACS Sustainable Chemistry and Engineering, 2020, 8, 8713-8722.	3.2	45
41	A sustainable wood biorefinery for lowâ€“carbon footprint chemicals production. Science, 2020, 367, 1385-1390.	6.0	631
42	Complementing Vanillin and Cellulose Production by Oxidation of Lignocellulose with Stirring Control. ACS Sustainable Chemistry and Engineering, 2020, 8, 2361-2374.	3.2	49
43	The role of pretreatment in the catalytic valorization of cellulose. Molecular Catalysis, 2020, 487, 110883.	1.0	43
44	Perspective on Lignin Oxidation: Advances, Challenges, and Future Directions. Topics in Current Chemistry Collections, 2020, , 53-68.	0.2	10
45	Substrate-Specificity of <i>Candida rugosa</i> Lipase and Its Industrial Application. ACS Sustainable Chemistry and Engineering, 2019, 7, 15828-15844.	3.2	57
46	Aerosol Route to TiO₂â€“SiO₂Catalysts with Tailored Pore Architecture and High Epoxidation Activity. Chemistry of Materials, 2019, 31, 1610-1619.	3.2	50
47	Advances in porous and nanoscale catalysts for viable biomass conversion. Chemical Society Reviews, 2019, 48, 2366-2421.	18.7	457
48	Regioselective synthesis, isomerisation, <i>in vitro</i> oestrogenic activity, and copolymerisation of bisguaiacol F (BGF) isomers. Green Chemistry, 2019, 21, 6622-6633.	4.6	28
49	Bioâ€Acrylates Production: Recent Catalytic Advances and Perspectives of the Use of Lactic Acid and Their Derivates. ChemCatChem, 2019, 11, 180-201.	1.8	43
50	Supported Molecular Catalysts. ChemCatChem, 2018, 10, 1663-1665.	1.8	4
51	Branching-First: Synthesizing Câ€“C Skeletal Branched Biobased Chemicals from Sugars. ACS Sustainable Chemistry and Engineering, 2018, 6, 7940-7950.	3.2	5
52	Shape selectivity vapor-phase conversion of lignin-derived 4-ethylphenol to phenol and ethylene over acidic aluminosilicates: Impact of acid properties and pore constraint. Applied Catalysis B: Environmental, 2018, 234, 117-129.	10.8	75
53	Straightforward sustainability assessment of sugar-derived molecules from first-generation biomass. Current Opinion in Green and Sustainable Chemistry, 2018, 10, 11-20.	3.2	18
54	Catalytic Gasâ€Phase Production of Lactide from Renewable Alkyl Lactates. Angewandte Chemie - International Edition, 2018, 57, 3074-3078.	7.2	71

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55	Promising bulk production of a potentially benign bisphenol A replacement from a hardwood lignin platform. Green Chemistry, 2018, 20, 1050-1058.	4.6	66
56	Iron and Copper Active Sites in Zeolites and Their Correlation to Metalloenzymes. Chemical Reviews, 2018, 118, 2718-2768.	23.0	263
57	Chemicals from lignin: an interplay of lignocellulose fractionation, depolymerisation, and upgrading. Chemical Society Reviews, 2018, 47, 852-908.	18.7	1,708
58	Structural characterization of a non-heme iron active site in zeolites that hydroxylates methane. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4565-4570.	3.3	66
59	Catalytic Gasâ€Phase Production of Lactide from Renewable Alkyl Lactates. Angewandte Chemie, 2018, 130, 3128-3132.	1.6	18
60	Mechanism of selective benzene hydroxylation catalyzed by iron-containing zeolites. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12124-12129.	3.3	17
61	Direct upstream integration of biogasoline production into current light straight run naphtha petrorefinery processes. Nature Energy, 2018, 3, 969-977.	19.8	58
62	Catalytic Gasâ€Phase Cyclization of Glycolate Esters: A Novel Route Toward Glycolideâ€Based Bioplastics. ChemCatChem, 2018, 10, 5649-5655.	1.8	10
63	Functionalised heterogeneous catalysts for sustainable biomass valorisation. Chemical Society Reviews, 2018, 47, 8349-8402.	18.7	493
64	Spectroscopic Identification of the Î±-Fe/Î±-O Active Site in Fe-CHA Zeolite for the Low-Temperature Activation of the Methane Câ€"H Bond. Journal of the American Chemical Society, 2018, 140, 12021-12032.	6.6	83
65	Perspective on Lignin Oxidation: Advances, Challenges, and Future Directions. Topics in Current Chemistry, 2018, 376, 30.	3.0	66
66	Second-Sphere Effects on Methane Hydroxylation in Cu-Zeolites. Journal of the American Chemical Society, 2018, 140, 9236-9243.	6.6	58
67	Propylphenol to Phenol and Propylene over Acidic Zeolites: Role of Shape Selectivity and Presence of Steam. ACS Catalysis, 2018, 8, 7861-7878.	5.5	59
68	Catalytic lignocellulose biorefining in <i>n</i>-butanol/water: a one-pot approach toward phenolics, polyols, and cellulose. Green Chemistry, 2018, 20, 4607-4619.	4.6	113
69	Revisiting alkaline aerobic lignin oxidation. Green Chemistry, 2018, 20, 3828-3844.	4.6	114
70	Titania-Silica Catalysts for Lactide Production from Renewable Alkyl Lactates: Structureâ€"Activity Relations. ACS Catalysis, 2018, 8, 8130-8139.	5.5	70
71	Catalytic Strategies Towards Lignin-Derived Chemicals. Topics in Current Chemistry, 2018, 376, 36.	3.0	75
72	Sustainable bisphenols from renewable softwood lignin feedstock for polycarbonates and cyanate ester resins. Green Chemistry, 2017, 19, 2561-2570.	4.6	102

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73	Lignin-first biomass fractionation: the advent of active stabilisation strategies. Energy and Environmental Science, 2017, 10, 1551-1557.	15.6	503
74	Integrating lignin valorization and bio-ethanol production: on the role of Ni-Al₂O₃catalyst pellets during lignin-first fractionation. Green Chemistry, 2017, 19, 3313-3326.	4.6	251
75	Zeolites as sustainable catalysts for the selective synthesis of renewable bisphenols from ligninâ€derived monomers. ChemSusChem, 2017, 10, 2249-2257.	3.6	31
76	Acidic mesostructured silica-carbon nanocomposite catalysts for biofuels and chemicals synthesis from sugars in alcoholic solutions. Applied Catalysis B: Environmental, 2017, 206, 74-88.	10.8	42
77	Identification of Î±-Fe in High-Silica Zeolites on the Basis of ab Initio Electronic Structure Calculations. Inorganic Chemistry, 2017, 56, 10681-10690.	1.9	24
78	Lowâ€Temperature Reductive Aminolysis of Carbohydrates to Diamines and Aminoalcohols by Heterogeneous Catalysis. Angewandte Chemie - International Edition, 2017, 56, 14540-14544.	7.2	47
79	Lowâ€Temperature Reductive Aminolysis of Carbohydrates to Diamines and Aminoalcohols by Heterogeneous Catalysis. Angewandte Chemie, 2017, 129, 14732-14736.	1.6	11
80	Fast catalytic conversion of recalcitrant cellulose into alkyl levulinates and levulinic acid in the presence of soluble and recoverable sulfonated hyperbranched poly(arylene oxindole)s. Green Chemistry, 2017, 19, 153-163.	4.6	53
81	SnÎ²-zeolite catalyzed oxido-reduction cascade chemistry with biomass-derived molecules. Chemical Communications, 2016, 52, 6712-6715.	2.2	35
82	Selective Conversion of Lignin-Derivable 4-Alkylguaiacols to 4-Alkylcyclohexanols over Noble and Non-Noble-Metal Catalysts. ACS Sustainable Chemistry and Engineering, 2016, 4, 5336-5346.	3.2	66
83	Synergetic Effects of Alcohol/Water Mixing on the Catalytic Reductive Fractionation of Poplar Wood. ACS Sustainable Chemistry and Engineering, 2016, 4, 6894-6904.	3.2	120
84	The active site of low-temperature methane hydroxylation in iron-containing zeolites. Nature, 2016, 536, 317-321.	13.7	331
85	Conversion of Biomass to Chemicals. , 2016, , 371-431.		7
86	Reductive splitting of hemicellulose with stable ruthenium-loaded USY zeolites. Green Chemistry, 2016, 18, 5295-5304.	4.6	26
87	Water-soluble sulfonated hyperbranched poly(arylene oxindole) catalysts as functional biomimics of cellulases. Chemical Communications, 2016, 52, 2756-2759.	2.2	9
88	The importance of pretreatment and feedstock purity in the reductive splitting of (ligno)cellulose by metal supported USY zeolite. Green Chemistry, 2016, 18, 2095-2105.	4.6	35
89	Immobilized Grubbs catalysts on mesoporous silica materials: insight into support characteristics and their impact on catalytic activity and product selectivity. Catalysis Science and Technology, 2016, 6, 2580-2597.	2.1	30
90	Influence of Acidic (H₃PO₄) and Alkaline (NaOH) Additives on the Catalytic Reductive Fractionation of Lignocellulose. ACS Catalysis, 2016, 6, 2055-2066.	5.5	191

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91	Potential and challenges of zeolite chemistry in the catalytic conversion of biomass. Chemical Society Reviews, 2016, 45, 584-611.	18.7	619
92	An Inner-/Outer-Sphere Stabilized Sn Active Site in Î²-Zeolite: Spectroscopic Evidence and Kinetic Consequences. ACS Catalysis, 2016, 6, 31-46.	5.5	89
93	Molecular design of sulfonated hyperbranched poly(arylene oxindole)s for efficient cellulose conversion to levulinic acid. Green Chemistry, 2016, 18, 1694-1705.	4.6	53
94	Alkylphenols to phenol and olefins by zeolite catalysis: a pathway to valorize raw and fossilized lignocellulose. Green Chemistry, 2016, 18, 297-306.	4.6	105
95	Catalyst Design by NH₄OH Treatment of USY Zeolite. Advanced Functional Materials, 2015, 25, 7130-7144.	7.8	76
96	Hierarchical Zeolite: Catalyst Design by NH₄OH Treatment of USY Zeolite (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	7.8	3
97	Tuning the lignin oil OH-content with Ru and Pd catalysts during lignin hydrogenolysis on birch wood. Chemical Communications, 2015, 51, 13158-13161.	2.2	298
98	Shape-selective zeolite catalysis for bioplastics production. Science, 2015, 349, 78-80.	6.0	289
99	Spectroscopic Definition of the Copper Active Sites in Mordenite: Selective Methane Oxidation. Journal of the American Chemical Society, 2015, 137, 6383-6392.	6.6	243
100	Reductive lignocellulose fractionation into soluble lignin-derived phenolic monomers and dimers and processable carbohydrate pulps. Energy and Environmental Science, 2015, 8, 1748-1763.	15.6	688
101	Selective Nickelâ€Catalyzed Conversion of Model and Ligninâ€Derived Phenolic Compounds to Cyclohexanoneâ€Based Polymer Building Blocks. ChemSusChem, 2015, 8, 1805-1818.	3.6	137
102	Influence of bio-based solvents on the catalytic reductive fractionation of birch wood. Green Chemistry, 2015, 17, 5035-5045.	4.6	214
103	Alkane production from biomass: chemo-, bio- and integrated catalytic approaches. Current Opinion in Chemical Biology, 2015, 29, 40-48.	2.8	74
104	Direct catalytic conversion of cellulose to liquid straight-chain alkanes. Energy and Environmental Science, 2015, 8, 230-240.	15.6	202
105	Regioselective synthesis of renewable bisphenols from 2,3-pentanedione and their application as plasticizers. Green Chemistry, 2014, 16, 1999-2007.	4.6	28
106	Induced Chirality in a Metalâ€“Organic Framework by Postsynthetic Modification for Highly Selective Asymmetric Aldol Reactions. ChemCatChem, 2014, 6, 2211-2214.	1.8	25
107	A versatile A2+ B3approach to hyperbranched polyacenaphthenequinones. Journal of Polymer Science Part A, 2014, 52, 2596-2603.	2.5	5
108	Bridging racemic lactate esters with stereoselective polylactic acid using commercial lipase catalysis. Green Chemistry, 2013, 15, 2817.	4.6	26

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109	Productive sugar isomerization with highly active Sn in dealuminated Î² zeolites. Green Chemistry, 2013, 15, 2777.	4.6	232
110	CO2reverse selective mixed matrix membranes for H2purification by incorporation of carbonâ€“silica fillers. Journal of Materials Chemistry A, 2013, 1, 945-953.	5.2	31
111	Miniaturized Layer-by-Layer Deposition of Metalâ€“Organic Framework Coatings through Digital Microfluidics. Chemistry of Materials, 2013, 25, 1021-1023.	3.2	28
112	Tailoring nanohybrids and nanocomposites for catalytic applications. Green Chemistry, 2013, 15, 1398.	4.6	82
113	Highly-efficient conversion of glycerol to solketal over heterogeneous Lewis acid catalysts. Green Chemistry, 2012, 14, 1611.	4.6	177
114	Tuning the Acid/Metal Balance of Carbon Nanofiberâ€Supported Nickel Catalysts for Hydrolytic Hydrogenation of Cellulose. ChemSusChem, 2012, 5, 1549-1558.	3.6	131
115	Selective conversion of trioses to lactates over Lewis acid heterogeneous catalysts. Green Chemistry, 2011, 13, 1175.	4.6	152
116	Chemocatalytic conversion of cellulose: opportunities, advances and pitfalls. Catalysis Science and Technology, 2011, 1, 714.	2.1	220
117	Catalytic production of levulinic acid from cellulose and other biomass-derived carbohydrates with sulfonated hyperbranched poly(arylene oxindole)s. Energy and Environmental Science, 2011, 4, 3601.	15.6	208
118	Recent Advances in the Catalytic Conversion of Cellulose. ChemCatChem, 2011, 3, 82-94.	1.8	517
119	Solid Acids as Heterogeneous Support for Primary Amino Acidâ€Derived Diamines in Direct Asymmetric Aldol Reactions. Advanced Synthesis and Catalysis, 2011, 353, 725-732.	2.1	43
120	A High-Throughput Experimentation Study of the Synthesis of Lactates with Solid Acid Catalysts. Topics in Catalysis, 2010, 53, 77-85.	1.3	21
121	Silicaâ€“MOF Composites as a Stationary Phase in Liquid Chromatography. European Journal of Inorganic Chemistry, 2010, 2010, 3735-3738.	1.0	120
122	Direct Asymmetric <i>syn</i>â€Aldol Reactions of Linear Aliphatic Ketones with Primary Amino Acidâ€Derived Diamines. Advanced Synthesis and Catalysis, 2010, 352, 2421-2426.	2.1	26
123	Preparation of Pt on NaY zeolite catalysts for conversion of glycerol into 1,2-propanediol. Studies in Surface Science and Catalysis, 2010, 175, 771-774.	1.5	12
124	Zeolite-catalysed conversion of C3 sugars to alkyl lactates. Green Chemistry, 2010, 12, 1083.	4.6	170
125	Sulfonated silica/carbon nanocomposites as novel catalysts for hydrolysis of cellulose to glucose. Green Chemistry, 2010, 12, 1560.	4.6	286
126	Protein Immobilization Using Atmosphericâ€Pressure Dielectricâ€Barrier Discharges: A Route to a Straightforward Manufacture of Bioactive Films. Plasma Processes and Polymers, 2008, 5, 186-191.	1.6	49

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127	Kinetics of the Oxygenation of Unsaturated Organics with Singlet Oxygen Generated from H2O2by a Heterogeneous Molybdenum Catalyst. Journal of the American Chemical Society, 2007, 129, 6916-6926.	6.6	54
128	Dielectric Barrier Discharge at Atmospheric Pressure as a Tool to Deposit Versatile Organic Coatings at Moderate Power Input. Plasma Processes and Polymers, 2007, 4, 145-157.	1.6	105
129	Heterogeneous Enzyme Mimics Based on Zeolites and Layered Hydroxides. Cattech, 2002, 6, 14-29.	2.6	36
130	Hydrotalcite-like anionic clays in catalytic organic reactions. Catalysis Reviews - Science and Engineering, 2001, 43, 443-488.	5.7	449
131	Selective Alkene Oxidation with H2O2 and a Heterogenized Mn Catalyst: Epoxidation and a New Entry to Vicinalcis-Diols. Angewandte Chemie - International Edition, 1999, 38, 980-983.	7.2	139
132	A Heterogeneous Tungsten Catalyst for Epoxidation of Terpenes and Tungsten-Catalyzed Synthesis of Acid-Sensitive Terpene Epoxides. Journal of Organic Chemistry, 1999, 64, 7267-7270.	1.7	99
133	Branched Fatty Acids: The Potential of Zeolite Catalysis. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	1