

Isabel W C E Arends

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2881321/publications.pdf>

Version: 2024-02-01

177
papers

17,517
citations

17440

63
h-index

15732

125
g-index

231
all docs

231
docs citations

231
times ranked

14146
citing authors

#	ARTICLE	IF	CITATIONS
1	Photochemical regeneration of flavoenzymes – An Old Yellow Enzyme case-study. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140303.	2.3	11
2	Metals in Biotechnology: Cr-Driven Stereoselective Reduction of Conjugated C=C Double Bonds. <i>ChemBioChem</i> , 2020, 21, 1112-1115.	2.6	3
3	Chemoenzymatic Halocyclization of 4-Pentenoic Acid at Preparative Scale. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2602-2607.	6.7	14
4	Laccase Did It again: A Scalable and Clean Regeneration System for NAD ⁺ and Its Application in the Synthesis of 12-oxo-Hydroxysteroids. <i>Catalysts</i> , 2020, 10, 677.	3.5	10
5	FOx News: Towards Methanol-Driven Biocatalytic Oxyfunctionalisation Reactions. <i>ChemCatChem</i> , 2020, 12, 2713-2716.	3.7	15
6	Selective Oxyfunctionalisation Reactions Driven by Sulfite Oxidase-Catalysed <i>In Situ</i> Generation of H ₂ O ₂ . <i>ChemCatChem</i> , 2020, 12, 3186-3189.	3.7	10
7	Peroxygenase-Catalysed Epoxidation of Styrene Derivatives in Neat Reaction Media. <i>ChemCatChem</i> , 2019, 11, 4519-4523.	3.7	38
8	Cascading γ -C ₃ N ₄ and Peroxygenases for Selective Oxyfunctionalization Reactions. <i>ACS Catalysis</i> , 2019, 9, 7409-7417.	11.2	64
9	Photoenzymatic epoxidation of styrenes. <i>Chemical Communications</i> , 2019, 55, 1790-1792.	4.1	23
10	A Photo-Enzymatic Cascade to Transform Racemic Alcohols into Enantiomerically Pure Amines. <i>Catalysts</i> , 2019, 9, 305.	3.5	21
11	Clean Enzymatic Oxidation of 12 β -Hydroxysteroids to 12 α -Oxo-Derivatives Catalyzed by Hydroxysteroid Dehydrogenase. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2448-2455.	4.3	8
12	Expanding the Spectrum of Light-Driven Peroxygenase Reactions. <i>ACS Catalysis</i> , 2019, 9, 890-894.	11.2	62
13	Efficient Aerobic Oxidation of <i>trans</i> -2-Hexenal using the Aryl Alcohol Oxidase from <i>Pleurotus eryngii</i> . <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2668-2672.	4.3	23
14	NAD ⁺ -Dependent Enzymatic Route for the Epimerization of Hydroxysteroids. <i>ChemSusChem</i> , 2019, 12, 3192-3203.	6.8	32
15	Deazaflavins as photocatalysts for the direct reductive regeneration of flavoenzymes. <i>Molecular Catalysis</i> , 2018, 452, 277-283.	2.0	15
16	A Photoenzymatic NADH Regeneration System. <i>ChemBioChem</i> , 2018, 19, 2344-2347.	2.6	33
17	Latest development in the synthesis of ursodeoxycholic acid (UDCA): a critical review. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 470-483.	2.2	78
18	Biocatalytic synthesis of the Green Note <i>trans</i> -2-hexenal in a continuous-flow microreactor. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 697-703.	2.2	34

#	ARTICLE	IF	CITATIONS
19	Selective Photooxidation Reactions using Water-Soluble Anthraquinone Photocatalysts. <i>ChemCatChem</i> , 2017, 9, 3821-3826.	3.7	59
20	Photobiocatalytic alcohol oxidation using LED light sources. <i>Green Chemistry</i> , 2017, 19, 376-379.	9.0	44
21	Ionic TEMPO in Ionic Liquids: Specific Promotion of the Aerobic Oxidation of Alcohols. <i>ChemCatChem</i> , 2016, 8, 2704-2709.	3.7	19
22	Nanoparticles of lanthanide oxysulfate/oxysulfide for improved oxygen storage/release. <i>Dalton Transactions</i> , 2016, 45, 14019-14022.	3.3	13
23	Identification of catalytically important residues of the carotenoid 1,2-hydratases from <i>Rubrivivax gelatinosus</i> and <i>Thiocapsa roseopersicina</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 1275-1284.	3.6	21
24	Increase of stability of oleate hydratase by appropriate immobilization technique and conditions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 119, 40-47.	1.8	17
25	Tetrahedral boronates as basic catalysts in the aldol reaction. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2015, 70, 587-595.	0.7	3
26	Optimizing the chloroperoxidase-glucose oxidase system: The effect of glucose oxidase on activity and enantioselectivity. <i>Process Biochemistry</i> , 2015, 50, 746-751.	3.7	20
27	Selectivity of lipases for estolides synthesis. <i>Pure and Applied Chemistry</i> , 2015, 87, 51-58.	1.9	16
28	New Cofactor-Independent Hydration Biocatalysts: Structural, Biochemical, and Biocatalytic Characteristics of Carotenoid and Oleate Hydratases. <i>ChemCatChem</i> , 2015, 7, 29-37.	3.7	37
29	Magnetic force microscopy. <i>Biomatter</i> , 2014, 4, e29507.	2.6	61
30	Hydrophobic Formic Acid Esters for Cofactor Regeneration in Aqueous/Organic Two-Liquid Phase Systems. <i>Topics in Catalysis</i> , 2014, 57, 385-391.	2.8	13
31	Enzymatic hydration activity assessed by selective spectrophotometric detection of alcohols: A novel screening assay using oleate hydratase as a model enzyme. <i>Biotechnology Journal</i> , 2014, 9, 814-821.	3.5	6
32	Photobiocatalytic chemistry of oxidoreductases using water as the electron donor. <i>Nature Communications</i> , 2014, 5, 3145.	12.8	135
33	A green and expedient synthesis of enantiopure diketopiperazines via enzymatic resolution of unnatural amino acids. <i>Tetrahedron Letters</i> , 2014, 55, 4991-4993.	1.4	8
34	Is Simpler Better? Synthetic Nicotinamide Cofactor Analogues for Redox Chemistry. <i>ACS Catalysis</i> , 2014, 4, 788-797.	11.2	127
35	Lipase-catalyzed transesterification of ethyl formate to octyl formate. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 105, 7-10.	1.8	13
36	The taming of oxygen: biocatalytic oxyfunctionalisations. <i>Chemical Communications</i> , 2014, 50, 13180-13200.	4.1	99

#	ARTICLE	IF	CITATIONS
37	Pyrococcus furiosus-mediated reduction of conjugated carboxylic acids: Towards using syngas as reductant. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 103, 52-55.	1.8	12
38	Bioreductions Catalyzed by an Alcohol Dehydrogenase in Non-aqueous Media. <i>ChemCatChem</i> , 2014, 6, 973-976.	3.7	45
39	Robust and straightforward chemo-enzymatic enantiopure dipeptide syntheses and diketopiperazines thereof. <i>Tetrahedron: Asymmetry</i> , 2014, 25, 825-832.	1.8	4
40	B-TUD-1: a versatile mesoporous catalyst. <i>RSC Advances</i> , 2013, 3, 21524.	3.6	20
41	Expanding the Scope of Laccase-Mediator Systems. <i>ChemCatChem</i> , 2013, 5, 3027-3032.	3.7	37
42	Mimicking Nature: Synthetic Nicotinamide Cofactors for C ₂ -C Bioreduction Using Enoate Reductases. <i>Organic Letters</i> , 2013, 15, 180-183.	4.6	155
43	Aldol reactions mediated by a tetrahedral boronate. <i>Chemical Communications</i> , 2013, 49, 361-363.	4.1	11
44	Access to Lactone Building Blocks via Horse Liver Alcohol Dehydrogenase-Catalyzed Oxidative Lactonization. <i>ACS Catalysis</i> , 2013, 3, 2436-2439.	11.2	71
45	5-Hydroxymethylfurfural Synthesis from Hexoses Is Autocatalytic. <i>ACS Catalysis</i> , 2013, 3, 760-763.	11.2	90
46	More efficient redox biocatalysis by utilising 1,4-butanediol as a "smart cosubstrate". <i>Green Chemistry</i> , 2013, 15, 330.	9.0	56
47	Increasing the Productivity of Peroxidase-Catalyzed Oxyfunctionalization: A Case Study on the Potential of Two-Phase Systems. <i>ChemCatChem</i> , 2013, 5, 565-568.	3.7	42
48	A biocatalytic redox isomerisation. <i>Chemical Communications</i> , 2012, 48, 6630.	4.1	49
49	A biocatalytic hydrogenation of carboxylic acids. <i>Chemical Communications</i> , 2012, 48, 12056.	4.1	65
50	Ferritin-supported palladium nanoclusters: selective catalysts for aerobic oxidations in water. <i>Chemical Communications</i> , 2012, 48, 5745.	4.1	53
51	Enantioselective Oxidation of Aldehydes Catalyzed by Alcohol Dehydrogenase. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9914-9917.	13.8	74
52	Enzyme Initiated Radical Polymerizations. <i>Polymers</i> , 2012, 4, 759-793.	4.5	185
53	Vanadium-catalyzed epoxidation reaction of cinnamyl alcohol in ionic liquids. <i>Green Processing and Synthesis</i> , 2012, 1, .	3.4	2
54	Towards Recyclable NAD(P)H Regeneration Catalysts. <i>Molecules</i> , 2012, 17, 9835-9841.	3.8	27

#	ARTICLE	IF	CITATIONS
55	Enhancement of the Substrate Scope of Transketolase. <i>ChemBioChem</i> , 2012, 13, 1921-1931.	2.6	40
56	Chemoenzymatic Reduction of Conjugated C=C Double Bonds. <i>ChemCatChem</i> , 2012, 4, 196-199.	3.7	33
57	A highly efficient, green and recoverable catalytic system for the epoxidation of fatty esters and biodiesel with H ₂ O ₂ . <i>Applied Catalysis A: General</i> , 2012, 425-426, 91-96.	4.3	25
58	Development of screening methods for transketolase activity and substrate scope. <i>Tetrahedron Letters</i> , 2012, 53, 790-793.	1.4	9
59	Are Natural Deep Eutectic Solvents the Missing Link in Understanding Cellular Metabolism and Physiology?. <i>Plant Physiology</i> , 2011, 156, 1701-1705.	4.8	887
60	Enzymatic reductions for the chemist. <i>Green Chemistry</i> , 2011, 13, 2285.	9.0	332
61	Epoxidation and Baeyer-Villiger oxidation using hydrogen peroxide and a lipase dissolved in ionic liquids. <i>Green Chemistry</i> , 2011, 13, 2154.	9.0	98
62	Enzyme-mediated oxidations for the chemist. <i>Green Chemistry</i> , 2011, 13, 226-265.	9.0	395
63	A Photoenzymatic System for Alcohol Oxidation. <i>ChemCatChem</i> , 2011, 3, 338-342.	3.7	53
64	Biochemical characterization of the carotenoid 1,2-hydratases (CrtC) from <i>Rubrivivax gelatinosus</i> and <i>Thiocapsa roseopersicina</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 1029-1036.	3.6	19
65	Studies on Substituted Aromatic Diselenides as Catalysts for Selective Alcohol Oxidation Using <i>tert</i> -Butyl Hydroperoxide. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 4345-4352.	2.4	15
66	Specific Photobiocatalytic Oxyfunctionalization Reactions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10716-10719.	13.8	124
67	Epoxidation of cyclooctene and cyclohexene with hydrogen peroxide catalyzed by bis[3,5-bis(trifluoromethyl)-diphenyl] diselenide: Recyclable catalyst-containing phases through the use of glycerol-derived solvents. <i>Journal of Molecular Catalysis A</i> , 2011, 334, 83-88.	4.8	17
68	Mechanism of Laccase-TEMPO-Catalyzed Oxidation of Benzyl Alcohol. <i>ChemCatChem</i> , 2010, 2, 827-833.	3.7	77
69	Biocatalytic Redox Reactions for Organic Synthesis: Nonconventional Regeneration Methods. <i>ChemCatChem</i> , 2010, 2, 762-782.	3.7	235
70	Preparation and use of cross-linked enzyme aggregates (CLEAs) of laccases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 62, 142-148.	1.8	178
71	Microbial-catalysed resolution of sterically demanding cyanohydrins. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 63, 87-92.	1.8	10
72	On the nature of mutual inactivation between [Cp*Rh(bpy)(H ₂ O)] ²⁺ and enzymes – analysis and potential remedies. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 63, 149-156.	1.8	96

#	ARTICLE	IF	CITATIONS
73	Enzyme engineering for enantioselectivity: from trial-and-error to rational design?. Trends in Biotechnology, 2010, 28, 46-54.	9.3	115
74	Phosphite-driven, [Cp*Rh(bpy)(H ₂ O)] ²⁺ -catalyzed reduction of nicotinamide and flavin cofactors: characterization and application to promote chemoenzymatic reduction reactions. Applied Organometallic Chemistry, 2010, 24, 380-385.	3.5	25
75	Pd nanoparticles as catalysts for green and sustainable oxidation of functionalized alcohols in aqueous media. Tetrahedron, 2010, 66, 1040-1044.	1.9	78
76	A hydrogel-based enzyme-loaded polymersome reactor. Nanoscale, 2010, 2, 709.	5.6	34
77	On the Resolution of Secondary Phosphine Oxides via Diastereomeric Complex Formation: The Case of tert-Butylphenylphosphine Oxide. Synthesis, 2009, 2009, 2061-2065.	2.3	8
78	Probing the enantioselectivity of Bacillus subtilis esterase BS2 for tert. alcohols. Journal of Molecular Catalysis B: Enzymatic, 2009, 60, 82-86.	1.8	16
79	A New Regeneration System for Oxidized Nicotinamide Cofactors. Advanced Synthesis and Catalysis, 2009, 351, 1211-1216.	4.3	67
80	Photoenzymatic Reduction of C=C Double Bonds. Advanced Synthesis and Catalysis, 2009, 351, 3279-3286.	4.3	80
81	Diphenyldiselenide-Catalyzed Selective Oxidation of Activated Alcohols with <i>tert</i> -Butyl Hydroperoxide: New Mechanistic Insights. Journal of Organic Chemistry, 2009, 74, 3085-3089.	3.2	44
82	Vanadium-catalyzed, microwave-assisted oxidations with H ₂ O ₂ in ionic liquids. Pure and Applied Chemistry, 2009, 81, 1265-1277.	1.9	54
83	Glycerol-based solvents as green reaction media in epoxidations with hydrogen peroxide catalysed by bis[3,5-bis(trifluoromethyl)-diphenyl] diselenide. Green Chemistry, 2009, 11, 1605.	9.0	54
84	Self-assembly of star-shaped heteropoly-15-palladate(II). Dalton Transactions, 2009, , 9385.	3.3	64
85	Visible light-driven and chloroperoxidase-catalyzed oxygenation reactions. Chemical Communications, 2009, , 6848.	4.1	115
86	Biocatalytic oxidation by chloroperoxidase from Caldariomyces fumago in polymersome nanoreactors. Organic and Biomolecular Chemistry, 2009, 7, 4604.	2.8	39
87	Self-Assembly of a Heteropolyoxopalladate Nanocube: [Pd ^{II} ₁₃ As ^V ₈ O ₃₄ (OH) ₆] ⁸⁻ . Angewandte Chemie - International Edition, 2008, 47, 9542-9546.	13.8	140
88	Vanadate substituted phytase: Immobilization, structural characterization and performance for sulfoxidations. Journal of Inorganic Biochemistry, 2008, 102, 318-329.	3.5	35
89	Pre-steady state kinetic studies on the microsecond time scale of the laccase from Trametes versicolor. Inorganica Chimica Acta, 2008, 361, 1202-1206.	2.4	22
90	Enzyme-catalysed deprotection of N-acetyl and N-formyl amino acids. Journal of Molecular Catalysis B: Enzymatic, 2008, 54, 67-71.	1.8	23

#	ARTICLE	IF	CITATIONS
91	Hydrolase-Catalysed Preparation of Chiral $\hat{1}\pm, \hat{1}\pm$ -Disubstituted Cyanohydrin Acetates. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1341-1344.	4.3	24
92	Study of the Efficiency of Amino-Functionalized Ruthenium and Ruthenacycle Complexes as Racemization Catalysts in the Dynamic Kinetic Resolution of 1-Phenylethanol. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 2603-2609.	4.3	26
93	Stabilizing Factors for Vanadium(IV) in Amavadin. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 2413-2422.	2.4	11
94	Relationship between structure, fluxionality and racemization activity in organometallic derivatives of polyoxometalates. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 367-371.	1.8	17
95	Study on the isomerism in meso-amavadin and an amavadin analogue. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 900-908.	3.5	13
96	Green oxidation of alcohols using biomimetic Cu complexes and Cu enzymes as catalysts. <i>Advances in Inorganic Chemistry</i> , 2006, , 235-279.	1.0	31
97	Stabilities and rates in the laccase/TEMPO-catalyzed oxidation of alcohols. <i>Biocatalysis and Biotransformation</i> , 2006, 24, 443-448.	2.0	45
98	Catalytic oxidations mediated by metal ions and nitroxyl radicals. <i>Journal of Molecular Catalysis A</i> , 2006, 251, 200-214.	4.8	226
99	Comparison of TEMPO and its derivatives as mediators in laccase catalysed oxidation of alcohols. <i>Tetrahedron</i> , 2006, 62, 6659-6665.	1.9	120
100	Towards catalytic cascade reactions: asymmetric synthesis using combined chemo-enzymatic catalysts. <i>Topics in Catalysis</i> , 2006, 40, 35-44.	2.8	72
101	Palladium-neocuproine catalyzed aerobic oxidation of alcohols in aqueous solvents. <i>Journal of Molecular Catalysis A</i> , 2006, 251, 246-254.	4.8	70
102	Comparison of supports for the electrostatic immobilisation of asymmetric homogeneous catalysts. <i>Journal of Catalysis</i> , 2006, 239, 212-219.	6.2	40
103	Metal-Catalyzed Asymmetric Epoxidations of Terminal Olefins Using Hydrogen Peroxide as the Oxidant. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6250-6252.	13.8	65
104	A One-Pot Enantioselective Chemo-Enzymatic Synthesis of Amino Acids in Water. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 471-475.	4.3	22
105	A One-Pot Enantioselective Chemo-Enzymatic Synthesis of Amino Acids in Water. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 792-792.	4.3	2
106	The first enantioselective synthesis of the amavadin ligand and its complexation to vanadium. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 1264-1267.	3.5	19
107	Reactivity of generated oxygen species from nitrous oxide over [Fe,Al]MFI catalysts for the direct oxidation of benzene to phenol. <i>Catalysis Today</i> , 2005, 110, 221-227.	4.4	24
108	Following the evolution of iron from framework to extra-framework positions in isomorphously substituted [Fe,Al]MFI with Fe Mössbauer spectroscopy. <i>Journal of Catalysis</i> , 2005, 231, 56-66.	6.2	40

#	ARTICLE	IF	CITATIONS
109	Efficient Immobilization of Rh-MonoPhos on the Aluminosilicate ALTUD-1.. ChemInform, 2005, 36, no.	0.0	0
110	Probing the Redox States of Iron in Steam-Treated Isomorphously Substituted [Fe,Al]MFI Catalyst. AIP Conference Proceedings, 2005, . .	0.4	0
111	Room Temperature Aerobic Copper-Catalysed Selective Oxidation of Primary Alcohols to Aldehydes. Advanced Synthesis and Catalysis, 2004, 346, 805-811.	4.3	331
112	Copper(II)-Catalyzed Aerobic Oxidation to Primary Alcohols to Aldehydes.. ChemInform, 2004, 35, no.	0.0	0
113	Noncovalent Anchoring of Asymmetric Hydrogenation Catalysts on a New Mesoporous Aluminosilicate: Application and Solvent Effects. Chemistry - A European Journal, 2004, 10, 5829-5835.	3.3	87
114	Remarkable N ₂ affinity of a steam-activated FeZSM-5 catalyst: a ⁵⁷ Fe Mössbauer study. Journal of Catalysis, 2004, 223, 262-270.	6.2	28
115	Systematic variation of ⁵⁷ Fe and Al content in isomorphously substituted ⁵⁷ FeZSM-5 zeolites: preparation and characterization. Microporous and Mesoporous Materials, 2004, 75, 237-246.	4.4	18
116	Efficient immobilisation of Rh-MonoPhos on the aluminosilicate ALTUD-1. Chemical Communications, 2004, , 2830.	4.1	42
117	The Baeyer-Villiger Reaction: New Developments toward Greener Procedures. Chemical Reviews, 2004, 104, 4105-4124.	47.7	628
118	Chiral catalysts confined in porous hosts. Journal of Catalysis, 2003, 217, 264-274.	6.2	47
119	Chiral catalysts confined in porous hosts. Journal of Catalysis, 2003, 217, 275-283.	6.2	28
120	The Effect of pH Control on the Selective Ruthenium-Catalyzed Oxidation of Ethers and Alcohols with Sodium Hypochlorite. Advanced Synthesis and Catalysis, 2003, 345, 1321-1328.	4.3	35
121	Catalytic Conversions in Water. Part 23: Steric Effects and Increased Substrate Scope in the Palladium-Neocuproine Catalyzed Aerobic Oxidation of Alcohols in Aqueous Solvents#. Advanced Synthesis and Catalysis, 2003, 345, 1341-1352.	4.3	94
122	Catalytic Conversions in Water. Part 22: Electronic Effects in the (Diimine)palladium(II)-Catalysed Aerobic Oxidation of Alcohols. Advanced Synthesis and Catalysis, 2003, 345, 497-505.	4.3	101
123	Cu(II)-nitroxyl radicals as catalytic galactose oxidase mimics. Organic and Biomolecular Chemistry, 2003, 1, 3232.	2.8	192
124	The Surprisingly Facile Thermal Dehalogenation of Chlorinated Aromatics by a Hydroaromatic Donor Solvent. Tautomerization of Chlorinated Phenols and Anilines. Journal of Organic Chemistry, 2003, 68, 4247-4257.	3.2	13
125	A New Catalytic System for the Selective Aerobic Oxidation of Large Ring Cycloalkanes to Ketones. Organic Process Research and Development, 2003, 7, 426-428.	2.7	18
126	Copper(II)-catalysed aerobic oxidation of primary alcohols to aldehydes. Chemical Communications, 2003, , 2414.	4.1	458

#	ARTICLE	IF	CITATIONS
127	Selective Ruthenium-Catalyzed Oxidation of 1,2:4,5-Di-O-isopropylidene- β -D-fructopyranose and Other Alcohols with NaOCl. <i>Organic Letters</i> , 2002, 4, 1659-1661.	4.6	42
128	Synthesis of a Racemic Ester and Its Lipase-Catalyzed Kinetic Resolution. <i>Journal of Chemical Education</i> , 2002, 79, 1351.	2.3	9
129	Green, Catalytic Oxidations of Alcohols. <i>Accounts of Chemical Research</i> , 2002, 35, 774-781.	15.6	1,092
130	Highly efficient use of NaOCl in the Ru-catalysed oxidation of aliphatic ethers to esters. <i>Chemical Communications</i> , 2002, , 202-203.	4.1	26
131	Catalytic Conversions in Water. Part 21: Mechanistic Investigations on the Palladium-Catalysed Aerobic Oxidation of Alcohols in Water. <i>Advanced Synthesis and Catalysis</i> , 2002, 344, 355-369.	4.3	205
132	Selective Ruthenium-Catalyzed Oxidation of 1,2:4,5-Di-O-isopropylidene- β -D-fructopyranose and Other Alcohols with NaOCl. <i>ChemInform</i> , 2002, 33, 49-49.	0.0	1
133	Efficient ruthenium-catalyzed racemization of secondary alcohols: application to dynamic kinetic resolution. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 879-884.	1.8	89
134	Selenium catalysed oxidations with aqueous hydrogen peroxide. Part 3: Oxidation of carbonyl compounds under mono/bi/triphasic conditions. <i>Tetrahedron</i> , 2002, 58, 3977-3983.	1.9	88
135	Selective catalytic oxidation of cyclohexylbenzene to cyclohexylbenzene-1-hydroperoxide: a coproduct-free route to phenol. <i>Tetrahedron</i> , 2002, 58, 9055-9061.	1.9	72
136	Electrochemical characterization of iron sites in ex-framework FeZSM-5. <i>Journal of Electroanalytical Chemistry</i> , 2002, 519, 72-84.	3.8	28
137	Physicochemical Characterization of Isomorphously Substituted FeZSM-5 during Activation. <i>Journal of Catalysis</i> , 2002, 207, 113-126.	6.2	197
138	Recent Developments in Selective Catalytic Epoxidations with H ₂ O ₂ . <i>Topics in Catalysis</i> , 2002, 19, 133-141.	2.8	145
139	The Characterization of FeZSM-5 by ⁵⁷ Fe Mössbauer Spectroscopy: Sensitivity Towards Nitrogen. <i>Hyperfine Interactions</i> , 2002, 141/142, 391-395.	0.5	2
140	Selenium Catalyzed Oxidations with Aqueous Hydrogen Peroxide. Part 3. Oxidation of Carbonyl Compounds under Mono/Bi/Triphasic Conditions.. <i>ChemInform</i> , 2002, 33, 51-51.	0.0	0
141	Alumina: a cheap, active and selective catalyst for epoxidations with (aqueous) hydrogen peroxide. <i>Green Chemistry</i> , 2001, 3, 243-246.	9.0	68
142	Selenium catalysed oxidations with aqueous hydrogen peroxide. Part I: epoxidation reactions in homogeneous solution. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, , 224-228.	1.3	96
143	Efficient and Selective Aerobic Oxidation of Alcohols into Aldehydes and Ketones Using Ruthenium/TEMPO as the Catalytic System. <i>Journal of the American Chemical Society</i> , 2001, 123, 6826-6833.	13.7	500
144	Selenium-Catalyzed Oxidations with Aqueous Hydrogen Peroxide. 2. Baeyer-Villiger Reactions in Homogeneous Solution. <i>Journal of Organic Chemistry</i> , 2001, 66, 2429-2433.	3.2	165

#	ARTICLE	IF	CITATIONS
145	Activities and stabilities of heterogeneous catalysts in selective liquid phase oxidations: recent developments. <i>Applied Catalysis A: General</i> , 2001, 212, 175-187.	4.3	410
146	A Comparison of the Activity of Polymer Immobilised TEMPO (PIPO) with MCM-41 and Silica Supported TEMPO as Heterogeneous Catalysts for the Oxidation of Alcohols. <i>Synlett</i> , 2001, 2001, 0102-0104.	1.8	62
147	Hexafluoroacetone in Hexafluoro-2-propanol: A Highly Active Medium for Epoxidation with Aqueous Hydrogen Peroxide. <i>Synlett</i> , 2001, 2001, 1305-1307.	1.8	24
148	Fluorinated Alcohols: Effective Solvents for Uncatalysed Epoxidations with Aqueous Hydrogen Peroxide. <i>Synlett</i> , 2001, 2001, 0248-0250.	1.8	51
149	Catalytic conversions in water. <i>Applied Catalysis A: General</i> , 2000, 194-195, 435-442.	4.3	50
150	Biocatalytic and biomimetic oxidations with vanadium. <i>Journal of Inorganic Biochemistry</i> , 2000, 80, 81-89.	3.5	113
151	The occurrence and reactivity of phenoxyl linkages in lignin and low rank coal. <i>Journal of Analytical and Applied Pyrolysis</i> , 2000, 54, 153-192.	5.5	373
152	Title is missing!. <i>Topics in Catalysis</i> , 2000, 13, 259-265.	2.8	40
153	Preparation, Characterization, and Performance of FeZSM-5 for the Selective Oxidation of Benzene to Phenol with N ₂ O. <i>Journal of Catalysis</i> , 2000, 195, 287-297.	6.2	211
154	Rhenium catalysed epoxidations with hydrogen peroxide: tertiary arsines as effective cocatalysts. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 377-380.	1.3	16
155	Green, Catalytic Oxidation of Alcohols in Water. <i>Science</i> , 2000, 287, 1636-1639.	12.6	1,109
156	Polymer immobilised TEMPO (PIPO): an efficient catalyst for the chlorinated hydrocarbon solvent-free and bromide-free oxidation of alcohols with hypochlorite. <i>Chemical Communications</i> , 2000, , 271-272.	4.1	117
157	Tertiary arsine oxides: active and selective catalysts for epoxidation with hydrogen peroxide. <i>Tetrahedron Letters</i> , 1999, 40, 5239-5242.	1.4	39
158	Methyltrioxorhenium-catalysed epoxidation of alkenes in trifluoroethanol. <i>Chemical Communications</i> , 1999, , 821-822.	4.1	60
159	Perfluoroheptadecan-9-one: a selective and reusable catalyst for epoxidations with hydrogen peroxide. <i>Chemical Communications</i> , 1999, , 263-264.	4.1	45
160	Efficient ruthenium-TEMPO-catalysed aerobic oxidation of aliphatic alcohols into aldehydes and ketones. <i>Chemical Communications</i> , 1999, , 1591-1592.	4.1	143
161	Liquid phase oxidation at metal ions and complexes in constrained environments. <i>Catalysis Today</i> , 1998, 41, 387-407.	4.4	172
162	Catalytic conversions in water. Part 10. Aerobic oxidation of terminal olefins to methyl ketones catalysed by water soluble palladium complexes. <i>Chemical Communications</i> , 1998, , 2359-2360.	4.1	88

#	ARTICLE	IF	CITATIONS
163	Heterogeneous Catalysts for Liquid-Phase Oxidations:â€‰ Philosophers' Stones or Trojan Horses?. Accounts of Chemical Research, 1998, 31, 485-493.	15.6	922
164	Activities and Stabilities of Redox Molecular Sieve Catalysts in Liquid Phase Oxidations. A Review. Collection of Czechoslovak Chemical Communications, 1998, 63, 1724-1742.	1.0	27
165	Substituent effects on the benzylic bond dissociation enthalpy in benzyl bromides (Câ€‰Br) and tert-butylbenzenes (Câ€‰CH ₃): a gas phase thermolysis and liquid phase photoacoustic study. Journal of the Chemical Society Perkin Transactions II, 1997, , 2307-2312.	0.9	25
166	Carbonâ€‰Oxygen Bond Strength in Diphenyl Ether and Phenyl Vinyl Ether:Â An Experimental and Computational Study. Journal of Physical Chemistry A, 1997, 101, 5404-5411.	2.5	58
167	Oxidative Transformations of Organic Compounds Mediated by Redox Molecular Sieves. Angewandte Chemie International Edition in English, 1997, 36, 1144-1163.	4.4	363
168	Study of Hydrogen Shuttling Reactions in Anthracene/9,10-Dihydroanthraceneâ€‰Naphthyl-X Mixtures. Energy & Fuels, 1996, 10, 235-242.	5.1	14
169	Gas phase hydrogenolysis mediated by activated carbon: Monosubstituted benzenes. Carbon, 1996, 34, 581-588.	10.3	11
170	Gas-phase hydrogenolysis mediated by activated carbon: Deuterated benzenes. Recueil Des Travaux Chimiques Des Pays-Bas, 1996, 115, 271-274.	0.0	1
171	Rate Constants for Termination and TEMPO Trapping of Some Resonance Stabilized Hydroaromatic Radicals in the Liquid Phase. The Journal of Physical Chemistry, 1995, 99, 8182-8189.	2.9	74
172	A Mechanistic Probe for Oxygen Activation by Metal Complexes and Hydroperoxides and Its Application to Alkane Functionalization by [FeIIICl ₂ tris(2-pyridinylmethyl)amine]+ BF ₄ ⁻ . Journal of the American Chemical Society, 1995, 117, 4710-4711.	13.7	134
173	Thermal decomposition of 2,3-dihydro-1,4-benzodioxin and 1,2-dimethoxybenzene. Journal of the Chemical Society Perkin Transactions II, 1994, , 189.	0.9	11
174	Kinetic study of the thermolysis of anisole in a hydrogen atmosphere. The Journal of Physical Chemistry, 1993, 97, 7914-7925.	2.9	94
175	Gasâ€‰phase pyrolysis of coumaran and 2,3â€‰dimethylcoumaran. Recueil Des Travaux Chimiques Des Pays-Bas, 1991, 110, 475-476.	0.0	2
176	Formation of chloroarenes upon gas-phase pyrolysis and slow combustion of benzene-HCl mixtures. Chemosphere, 1989, 18, 1965-1970.	8.2	4
177	Basics of Oxidations. , 0, , 200-213.		1