

Romas J Kazlauskas

List of Publications by Year in descending order

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126
papers

10,351
citations

41258
49
h-index

34900
98
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177
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177
docs citations

177
times ranked

7382
citing authors

#	ARTICLE	IF	CITATIONS
1	A rule to predict which enantiomer of a secondary alcohol reacts faster in reactions catalyzed by cholesterol esterase, lipase from <i>Pseudomonas cepacia</i> , and lipase from <i>Candida rugosa</i> . <i>Journal of Organic Chemistry</i> , 1991, 56, 2656-2665.	1.7	920
2	Biocatalysis in ionic liquids – advantages beyond green technology. <i>Current Opinion in Biotechnology</i> , 2003, 14, 432-437.	3.3	625
3	Improved Preparation and Use of Room-Temperature Ionic Liquids in Lipase-Catalyzed Enantio- and Regioselective Acylations. <i>Journal of Organic Chemistry</i> , 2001, 66, 8395-8401.	1.7	568
4	Catalytic Promiscuity in Biocatalysis: Using Old Enzymes to Form New Bonds and Follow New Pathways. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6032-6040.	7.2	525
5	Hydrolase-catalyzed biotransformations in deep eutectic solvents. <i>Chemical Communications</i> , 2008, , 1235.	2.2	435
6	Improving enzyme properties: when are closer mutations better?. <i>Trends in Biotechnology</i> , 2005, 23, 231-237.	4.9	392
7	A Structural Basis for the Chiral Preferences of Lipases. <i>Journal of the American Chemical Society</i> , 1994, 116, 3180-3186.	6.6	328
8	Analogues of Reaction Intermediates Identify a Unique Substrate Binding Site in <i>Candida rugosa</i> Lipase. <i>Biochemistry</i> , 1994, 33, 3494-3500.	1.2	262
9	Toward advanced ionic liquids. Polar, enzyme-friendly solvents for biocatalysis. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 40-53.	1.4	245
10	Enhancing catalytic promiscuity for biocatalysis. <i>Current Opinion in Chemical Biology</i> , 2005, 9, 195-201.	2.8	242
11	How the Same Core Catalytic Machinery Catalyzes 17 Different Reactions: the Serine-Histidine-Aspartate Catalytic Triad of α/β -Hydrolase Fold Enzymes. <i>ACS Catalysis</i> , 2015, 5, 6153-6176.	5.5	216
12	Finding better protein engineering strategies. <i>Nature Chemical Biology</i> , 2009, 5, 526-529.	3.9	202
13	Quantitative Screening of Hydrolase Libraries Using pH Indicators: Identifying Active and Enantioselective Hydrolases. <i>Chemistry - A European Journal</i> , 1998, 4, 2324-2331.	1.7	191
14	A 2-Propanol Treatment Increases the Enantioselectivity of <i>Candida rugosa</i> Lipase toward Esters of Chiral Carboxylic Acids. <i>Journal of Organic Chemistry</i> , 1995, 60, 212-217.	1.7	173
15	Enantiopreference of Lipase from <i>Pseudomonas cepacia</i> toward Primary Alcohols. <i>Journal of Organic Chemistry</i> , 1995, 60, 6959-6969.	1.7	172
16	Manganese-Substituted Carbonic Anhydrase as a New Peroxidase. <i>Chemistry - A European Journal</i> , 2006, 12, 1587-1596.	1.7	160
17	Quick E. A Fast Spectrophotometric Method To Measure the Enantioselectivity of Hydrolases. <i>Journal of Organic Chemistry</i> , 1997, 62, 4560-4561.	1.7	150
18	Resolution of binaphthols and spirobiindanols using cholesterol esterase. <i>Journal of the American Chemical Society</i> , 1989, 111, 4953-4959.	6.6	149

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19	Lipase-Catalyzed Ring-Opening Polymerization of Lactones: A Novel Route to Poly(hydroxyalkanoate)s. <i>Macromolecules</i> , 1996, 29, 4829-4833.	2.2	149
20	Elucidating structure-mechanism relationships in lipases: Prospects for predicting and engineering catalytic properties. <i>Trends in Biotechnology</i> , 1994, 12, 464-472.	4.9	137
21	Focusing Mutations into the <i>P. fluorescens</i> Esterase Binding Site Increases Enantioselectivity More Effectively than Distant Mutations. <i>Chemistry and Biology</i> , 2005, 12, 45-54.	6.2	115
22	Engineering more stable proteins. <i>Chemical Society Reviews</i> , 2018, 47, 9026-9045.	18.7	113
23	Magnetic separations in biotechnology. <i>Trends in Biotechnology</i> , 1983, 1, 144-148.	4.9	105
24	Molecular Basis for Enantioselectivity of Lipase from <i>Pseudomonas cepacia</i> toward Primary Alcohols. Modeling, Kinetics, and Chemical Modification of Tyr29 to Increase or Decrease Enantioselectivity. <i>Journal of Organic Chemistry</i> , 1999, 64, 2638-2647.	1.7	102
25	Enantiocomplementary Enzymes: Classification, Molecular Basis for Their Enantioselectivity, and Prospects for Mirror-Image Biotransformations. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8782-8793.	7.2	101
26	Mutations in Distant Residues Moderately Increase the Enantioselectivity of <i>Pseudomonas fluorescens</i> Esterase towards Methyl 3Bromo-2-methylpropanoate and Ethyl 3Phenylbutyrate. <i>Chemistry - A European Journal</i> , 2003, 9, 1933-1939.	1.7	96
27	Stereoselective Hydrogenation of Olefins Using Rhodium-Substituted Carbonic Anhydrase A New Reductase. <i>Chemistry - A European Journal</i> , 2009, 15, 1370-1376.	1.7	93
28	Protein Engineering of α -Hydrolase Fold Enzymes. <i>ChemBioChem</i> , 2011, 12, 1508-1517.	1.3	92
29	Catalytic Promiscuity of Ancestral Esterases and Hydroxynitrile Lyases. <i>Journal of the American Chemical Society</i> , 2016, 138, 1046-1056.	6.6	91
30	Mapping the substrate selectivity of new hydrolases using colorimetric screening: lipases from <i>Bacillus thermocatenulatus</i> and <i>Ophiostoma piliferum</i> , esterases from <i>Pseudomonas fluorescens</i> and <i>Streptomyces diastatochromogenes</i> . <i>Tetrahedron: Asymmetry</i> , 2001, 12, 545-556.	1.8	85
31	Receptor-Assisted Combinatorial Chemistry: Thermodynamics and Kinetics in Drug Discovery. <i>Chemistry - A European Journal</i> , 2005, 11, 1708-1716.	1.7	82
32	Regioselective Hydroformylation of Styrene Using Rhodium-Substituted Carbonic Anhydrase. <i>ChemCatChem</i> , 2010, 2, 953-957.	1.8	81
33	Enantioselectivity of <i>Candida rugosa</i> Lipase Toward Carboxylic Acids: A Predictive Rule from Substrate Mapping and X-Ray Crystallography. <i>Biocatalysis</i> , 1994, 9, 209-225.	0.9	77
34	A structure-based rationalization of the enantioselectivity of subtilisin toward secondary alcohols and isosteric primary amines. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1997, 3, 65-72.	1.8	72
35	Enzymatic synthesis of poly(hydroxyalkanoates) in ionic liquids. <i>Journal of Biotechnology</i> , 2007, 132, 306-313.	1.9	70
36	Molecular Basis of Perhydrolase Activity in Serine Hydrolases. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2742-2746.	7.2	67

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37	Converting an Esterase into an Epoxide Hydrolase. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3532-3535.	7.2	67
38	Structure of an aryl esterase from <i>Pseudomonas fluorescens</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1237-1243.	2.5	63
39	Mirror-Image Packing in Enantiomer Discrimination. <i>Chemistry and Biology</i> , 2005, 12, 427-437.	6.2	62
40	Bioconversion of p-coumaric acid to p-hydroxystyrene using phenolic acid decarboxylase from <i>B. amyloliquefaciens</i> in biphasic reaction system. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1501-1511.	1.7	62
41	Determination of absolute configuration of secondary alcohols using lipase-catalyzed kinetic resolutions. <i>Chirality</i> , 2008, 20, 724-735.	1.3	59
42	Photochemistry of metal carbonyl alkyls. Study of thermal β -hydrogen transfer in photogenerated, 16-valence-electron alkylidicarbonylcyclopentadienylmolybdenum and -tungsten complexes. <i>Journal of the American Chemical Society</i> , 1982, 104, 6005-6015.	6.6	56
43	Comparison of Five Protein Engineering Strategies for Stabilizing an α/β -Hydrolase. <i>Biochemistry</i> , 2017, 56, 6521-6532.	1.2	56
44	Switching Catalysis from Hydrolysis to Perhydrolysis in <i>Pseudomonas fluorescens</i> Esterase. <i>Biochemistry</i> , 2010, 49, 1931-1942.	1.2	54
45	Substrate modification to increase the enantioselectivity of hydrolases. A route to optically-active cyclic allylic alcohols. <i>Tetrahedron: Asymmetry</i> , 1993, 4, 879-888.	1.8	53
46	[25] Enzymatic regeneration of adenosine 5'-triphosphate: Acetyl phosphate, phosphoenolpyruvate, methoxycarbonyl phosphate, dihydroxyacetone phosphate, 5-phospho- β -D-ribose pyrophosphate, uridine-5'-diphosphoglucose. <i>Methods in Enzymology</i> , 1987, 136, 263-280.	0.4	52
47	Vacuum-driven lipase-catalysed direct condensation of L-ascorbic acid and fatty acids in ionic liquids: synthesis of a natural surface active antioxidant. <i>Green Chemistry</i> , 2003, 5, 715.	4.6	52
48	An Inverse Substrate Orientation for the Regioselective Acylation of 3',5'-Diaminonucleosides Catalyzed by <i>Candida antarctica</i> lipase B?. <i>ChemBioChem</i> , 2005, 6, 1381-1390.	1.3	52
49	Kinetic Resolution of Pipecolic Acid Using Partially-Purified Lipase from <i>Aspergillus niger</i> . <i>Journal of Organic Chemistry</i> , 1994, 59, 2075-2081.	1.7	51
50	'Watching' lipase-catalyzed acylations using ^1H NMR: competing hydrolysis of vinyl acetate in dry organic solvents. <i>Tetrahedron: Asymmetry</i> , 1999, 10, 2635-2638.	1.8	50
51	Switching from an Esterase to a Hydroxynitrile Lyase Mechanism Requires Only Two Amino Acid Substitutions. <i>Chemistry and Biology</i> , 2010, 17, 863-871.	6.2	48
52	Photochemistry of alkylidicarbonyl(η^5 -cyclopentadienyl)iron and -ruthenium. Ligand substitution and alkene elimination via photogenerated sixteen-valence-electron intermediates. <i>Organometallics</i> , 1982, 1, 602-611.	1.1	47
53	Amplification of Screening Sensitivity through Selective Destruction: A Theory and Screening of a Library of Carbonic Anhydrase Inhibitors. <i>Journal of the American Chemical Society</i> , 2002, 124, 5692-5701.	6.6	47
54	Improved pretreatment of lignocellulosic biomass using enzymatically-generated peracetic acid. <i>Bioresource Technology</i> , 2011, 102, 5183-5192.	4.8	47

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55	Subtilisin-Catalyzed Resolution of N-Acyl Arylsulfonamides. <i>Journal of the American Chemical Society</i> , 2005, 127, 2104-2113.	6.6	45
56	How Substrate Solvation Contributes to the Enantioselectivity of Subtilisin toward Secondary Alcohols. <i>Journal of the American Chemical Society</i> , 2005, 127, 12228-12229.	6.6	44
57	Different Active-Site Loop Orientation in Serine Hydrolases versus Acyltransferases. <i>ChemBioChem</i> , 2011, 12, 768-776.	1.3	42
58	Highly enantioselective kinetic resolution of primary alcohols of the type Ph-X-CH(CH ₃)-CH ₂ OH by <i>Pseudomonas cepacia</i> lipase: effect of acyl chain length and solvent. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 3917-3924.	1.8	39
59	Sequential kinetic resolution of (±)-2,3-butanediol in organic solvent using lipase from <i>Pseudomonas cepacia</i> . <i>Tetrahedron: Asymmetry</i> , 1993, 4, 1995-2000.	1.8	38
60	Kinetic Resolution of Phosphines and Phosphine Oxides with Phosphorus Stereocenters by Hydrolases. <i>Journal of Organic Chemistry</i> , 1994, 59, 7609-7615.	1.7	38
61	Production of <i>p</i> -hydroxybenzoic acid from <i>p</i> -coumaric acid by <i>Burkholderia glumae</i> BCR1. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1493-1503.	1.7	38
62	An optimized sequential kinetic resolution of trans-1,2-cyclohexanediol. <i>Journal of Organic Chemistry</i> , 1991, 56, 7251-7256.	1.7	37
63	Photogeneration of intermediates involved in catalytic cycles. β -Hydride elimination from the 16-electron alkyl species generated by irradiation of tricarbonyl(eta ⁵ -cyclopentadienyl)(n-pentyl)tungsten(II). <i>Journal of the American Chemical Society</i> , 1980, 102, 1727-1730.	6.6	36
64	Consensus Finder web tool to predict stabilizing substitutions in proteins. <i>Methods in Enzymology</i> , 2020, 643, 129-148.	0.4	33
65	Synthesis of methoxycarbonyl phosphate, new reagent having high phosphoryl donor potential for use in ATP cofactor regeneration. <i>Journal of Organic Chemistry</i> , 1985, 50, 1069-1076.	1.7	32
66	Remote Interactions Explain the Unusual Regioselectivity of Lipase from <i>Pseudomonas cepacia</i> toward the Secondary Hydroxyl of 2'-Deoxynucleosides. <i>ChemBioChem</i> , 2006, 7, 693-698.	1.3	32
67	Biosynthesis of (±)-5-Hydroxy-equol and 5-Hydroxy-dehydroequol from Soy Isoflavone, Genistein Using Microbial Whole Cell Bioconversion. <i>ACS Chemical Biology</i> , 2017, 12, 2883-2890.	1.6	31
68	Empirical rules for the enantiopreference of lipase from <i>Aspergillus niger</i> toward secondary alcohols and carboxylic acids, especially 1°-amino acids. <i>Tetrahedron: Asymmetry</i> , 1997, 8, 3719-3733.	1.8	30
69	Pseudodynamic Combinatorial Libraries: A Receptor-Assisted Approach for Drug Discovery. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2432-2436.	7.2	30
70	Increased Saccharification Yields from Aspen Biomass Upon Treatment with Enzymatically Generated Peracetic Acid. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 1637-1652.	1.4	30
71	Deep Eutectic Solvents for <i>Candida antarctica</i> Lipase B-Catalyzed Reactions. <i>ACS Symposium Series</i> , 2010, , 169-180.	0.5	29
72	Protease-Mediated Separation of Cis and Trans Diastereomers of 2(R,S)-benzyloxymethyl-4(S)-carboxylic Acid 1,3-Dioxolane Methyl Ester: Intermediates for the Synthesis of Dioxolane Nucleosides. <i>Journal of Organic Chemistry</i> , 1999, 64, 9019-9029.	1.7	28

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73	Application of rapid-scan Fourier transform infrared spectroscopy to characterize the monodentate intermediate in the photochemical formation of tetracarbonyl(4,4'-dialkyl-2,2'-bipyridine)metal from hexacarbonylmetal. Journal of the American Chemical Society, 1982, 104, 5784-5786.	6.6	27
74	One-step pretreatment of yellow poplar biomass using peracetic acid to enhance enzymatic digestibility. Scientific Reports, 2017, 7, 12216.	1.6	25
75	Photochemistry of solution and surface-confined alkyl- and benzyltricarbonylcyclopentadienyltungsten complexes. Organometallics, 1982, 1, 1338-1350.	1.1	24
76	Isolation of racemic 2,4-pentanediol and 2,5-hexanediol from commercial mixtures of racemic and meso isomers by way of cyclic sulfites.. Tetrahedron: Asymmetry, 1994, 5, 657-664.	1.8	24
77	Improving hydrolases for organic synthesis. Current Opinion in Chemical Biology, 1998, 2, 121-126.	2.8	24
78	Molecular Basis of Chiral Acid Recognition by <i>Candida rugosa</i> Lipase: X-Ray Structure of Transition State Analog and Modeling of the Hydrolysis of Methyl 2-Methoxy-2-phenylacetate. Advanced Synthesis and Catalysis, 2011, 353, 2529-2544.	2.1	23
79	Kinetic resolution of sulfoxides with pendant acetoxo groups using cholesterol esterase: substrate mapping and an empirical rule for chiral phenols. Canadian Journal of Chemistry, 1995, 73, 1357-1367.	0.6	21
80	Mapping the substrate selectivity and enantioselectivity of esterases from thermophiles. Tetrahedron: Asymmetry, 2004, 15, 2991-3004.	1.8	20
81	Revised Molecular Basis of the Promiscuous Carboxylic Acid Perhydrolase Activity in Serine Hydrolases. Chemistry - A European Journal, 2012, 18, 8130-8139.	1.7	20
82	Ionic Liquids Create New Opportunities for Nonaqueous Biocatalysis with Polar Substrates: Acylation of Glucose and Ascorbic Acid. ACS Symposium Series, 2003, , 225-238.	0.5	19
83	Evolution of a Catalytic Mechanism. Molecular Biology and Evolution, 2016, 33, 971-979.	3.5	19
84	Changing coenzymes improves oxidations catalyzed by alcohol dehydrogenase. Journal of Organic Chemistry, 1988, 53, 4633-4635.	1.7	18
85	Kinetic resolutions concentrate the minor enantiomer and aid measurement of high enantiomeric purity.. Tetrahedron: Asymmetry, 1994, 5, 83-92.	1.8	18
86	Molecular Basis for Enantioselectivity of Lipase from <i>Chromobacterium viscosum</i> toward the Diesters of 2,3-Dihydro-3-(4-hydroxyphenyl)-1,1,3-trimethyl-1H-inden-5-ol. Journal of Organic Chemistry, 2001, 66, 3041-3048.	1.7	18
87	Molecular Basis for the Stereoselective Ammoniolysis of <i>N</i> -Alkyl Aziridine-2-Carboxylates Catalyzed by <i>Candida antarctica</i> Lipase B. ChemBioChem, 2009, 10, 2213-2222.	1.3	18
88	Survey of Protein Engineering Strategies. Current Protocols in Protein Science, 2011, 66, Unit26.7.	2.8	17
89	Stabilization of an α/β -Hydrolase by Introducing Proline Residues: Salicylic Acid Binding Protein 2 from Tobacco. Biochemistry, 2015, 54, 4330-4341.	1.2	17
90	First Preparation of Enantiopure Indane Monomer, (S)-(-)- and (R)-(+)-2,3-dihydro-3-(4-hydroxyphenyl)-1,1,3-trimethyl-1H-inden-5-ol, via a Unique Enantio- and Regioselective Enzymatic Kinetic Resolution. Journal of Organic Chemistry, 1999, 64, 7498-7503.	1.7	16

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91	Uncovering divergent evolution of α/β -hydrolases: a surprising residue substitution needed to convert <i>Hevea brasiliensis</i> hydroxynitrile lyase into an esterase. <i>Chemical Science</i> , 2014, 5, 4265-4277.	3.7	16
92	Improved pretreatment of yellow poplar biomass using hot compressed water and enzymatically-generated peracetic acid. <i>Biomass and Bioenergy</i> , 2017, 105, 190-196.	2.9	15
93	Increasing the Reaction Rate of Hydroxynitrile Lyase from <i>Hevea brasiliensis</i> toward Mandelonitrile by Copying Active Site Residues from an Esterase that Accepts Aromatic Esters. <i>ChemBioChem</i> , 2014, 15, 1931-1938.	1.3	14
94	Mild pretreatment of yellow poplar biomass using sequential dilute acid and enzymatically-generated peracetic acid to enhance cellulase accessibility. <i>Biotechnology and Bioprocess Engineering</i> , 2017, 22, 405-412.	1.4	14
95	Enantiocomplementary Enzymatic Resolution of the Chiral Auxiliary: cis,cis-6-(2,2-Dimethylpropanamido)spiro[4.4]nonan-1-ol and the Molecular Basis for the High Enantioselectivity of Subtilisin Carlsberg. <i>ChemBioChem</i> , 2004, 5, 980-987.	1.3	13
96	Larger active site in an ancestral hydroxynitrile lyase increases catalytically promiscuous esterase activity. <i>PLoS ONE</i> , 2020, 15, e0235341.	1.1	13
97	The 3-(3-Pyridine)propionyl Anchor Group for Protease-Catalyzed Resolutions: p-Toluenesulfonamide and Sterically Hindered Secondary Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 1183-1192.	2.1	10
98	Plasmid hypermutation using a targeted artificial DNA replisome. <i>Science Advances</i> , 2021, 7, .	4.7	10
99	Manganese-Substituted α -Carbonic Anhydrase as an Enantioselective Peroxidase. <i>Topics in Organometallic Chemistry</i> , 2009, , 45-61.	0.7	10
100	Identical Active Sites in Hydroxynitrile Lyases Show Opposite Enantioselectivity and Reveal Possible Ancestral Mechanism. <i>ACS Catalysis</i> , 2017, 7, 4221-4229.	5.5	9
101	Calibration plots to aid determination of high enantiomeric purity using chiral lanthanide shift reagents. <i>Tetrahedron: Asymmetry</i> , 1992, 3, 243-246.	1.8	8
102	High-Level Production of Lysine in the Yeast <i>Saccharomyces cerevisiae</i> by Rational Design of Homocitrate Synthase. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0060021.	1.4	8
103	Parallel synthesis of an ester library for substrate mapping of esterases and lipases. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 3005-3009.	1.8	7
104	Quantitative Assay of Hydrolases for Activity and Selectivity Using Color Changes. , 2006, , 15-39.		7
105	Ten years of green chemistry at the Gordon Research Conferences: frontiers of science. <i>Green Chemistry</i> , 2006, 8, 677.	4.6	6
106	New Structural Motif for Carboxylic Acid Perhydrolases. <i>Chemistry - A European Journal</i> , 2013, 19, 3037-3046.	1.7	5
107	The road to L. <i>Nature Chemistry</i> , 2015, 7, 11-12.	6.6	4
108	Developmental evolution facilitates rapid adaptation. <i>Scientific Reports</i> , 2017, 7, 15891.	1.6	4

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109	The Fungus <i>Trichoderma</i> Regulates Submerged Conidiation Using the Steroid Pregnenolone. ACS Chemical Biology, 2016, 11, 2568-2575.	1.6	3
110	Improving <i>Pseudomonas fluorescens</i> esterase for hydrolysis of lactones. Catalysis Science and Technology, 2017, 7, 4756-4765.	2.1	3
111	Evolutionary innovation using EDGE, a system for localized elevated mutagenesis. PLoS ONE, 2020, 15, e0232330.	1.1	3
112	Experimental Evolution of <i>Trichoderma citrinoviride</i> for Faster Deconstruction of Cellulose. PLoS ONE, 2016, 11, e0147024.	1.1	3
113	Enzymatic Enantioselective anti-Markovnikov Hydration of Aryl Alkenes. Angewandte Chemie - International Edition, 0, , .	7.2	3
114	Enzymatic Enantioselective anti-Markovnikov Hydration of Aryl Alkenes. Angewandte Chemie, 2022, 134, .	1.6	3
115	Molecular Basis for the Enantio- and Diastereoselectivity of <i>Burkholderia cepacia</i> Lipase toward β -Butyrolactone Primary Alcohols. Advanced Synthesis and Catalysis, 2014, 356, 3585-3599.	2.1	2
116	Hydrolysis and Formation of Carboxylic Acid and Alcohol Derivatives. , 2016, , 127-148.		2
117	Synthesis of an acylphosphate driven by a proton gradient. A model for H ⁺ -ATPase. Journal of Organic Chemistry, 1992, 57, 7005-7006.	1.7	1
118	Dicarboxylic Acids Link Proton Transfer Across a Liquid Membrane to the Synthesis of Acyl Phosphates. A Model for P-Type H ⁺ -ATPases. Journal of Organic Chemistry, 1994, 59, 3626-3635.	1.7	1
119	Choosing Hydrolases for Enantioselective Reactions Involving Alcohols Using Empirical Rules. , 2001, , 243-259.		1
120	Biology Evolves to Fight Chemistry. Chemistry and Biology, 2012, 19, 435-437.	6.2	1
121	Catalytic Promiscuity in Biocatalysis: Using Old Enzymes to Form New Bonds and Follow New Pathways. ChemInform, 2005, 36, no.	0.1	0
122	Inside Cover: Molecular Basis for the Stereoselective Ammoniolysis of N-Alkyl Aziridine-2-Carboxylates Catalyzed by <i>Candida antarctica</i> Lipase B (ChemBioChem 13/2009). ChemBioChem, 2009, 10, 2122-2122.	1.3	0
123	Inside Cover: Different Active-Site Loop Orientation in Serine Hydrolases versus Acyltransferases (ChemBioChem 5/2011). ChemBioChem, 2011, 12, 654-654.	1.3	0
124	Enzymes working in reverse. Nature Catalysis, 2018, 1, 172-173.	16.1	0
125	Molecular Basis for Empirical Rules that Predict the Stereoselectivity of Hydrolases. NATO Science Series Partnership Sub-series 1, Disarmament Technologies, 2000, , 43-69.	0.1	0
126	Resolution of Binaphthols and Spirobiindanols Using Pancreas Extracts. , 1990, , 195-216.		0