Yonghua Wang

List of Publications by Citations

115 papers	2,018 citations	21 h-index	40 g-index
127 ext. papers	2,489 ext. citations	4.7 avg, IF	5.22 L-index

#	Paper	IF	Citations
115	Biocatalytic Oxidation Reactions: A Chemist's Perspective. *Angewandte Chemie - International Edition*, **2018**, 57, 9238-9261	16.4	229
114	Peroxygenases en route to becoming dream catalysts. What are the opportunities and challenges?. *Current Opinion in Chemical Biology*, **2017**, 37, 1-9	9.7	155
113	The Lid Domain in Lipases: Structural and Functional Determinant of Enzymatic Properties. *Frontiers in Bioengineering and Biotechnology*, **2017**, 5, 16	5.8	150
112	Biokatalytische Oxidationsreaktionen aus der Sicht eines Chemikers. *Angewandte Chemie*, **2018**, 130, 9380-9404	3.6	79
111	One-step synthesis of high-yield biodiesel from waste cooking oils by a novel and highly methanol-tolerant immobilized lipase. *Bioresource Technology*, **2017**, 235, 18-24	11	78
110	A functional natural deep eutectic solvent based on trehalose: Structural and physicochemical properties. *Food Chemistry*, **2017**, 217, 560-567	8.5	64
109	Crystal structure of a mono- and diacylglycerol lipase from Malassezia globosa reveals a novel lid conformation and insights into the substrate specificity. *Journal of Structural Biology*, **2012**, 178, 363-9	3.4	52
108	Chemoenzymatic epoxidation of alkenes with Candida antarctica lipase B and hydrogen peroxide in deep eutectic solvents. *RSC Advances*, **2017**, 7, 12518-12523	3.7	51
107	Production of extremely pure diacylglycerol from soybean oil by lipase-catalyzed glycerolysis. *Enzyme and Microbial Technology*, **2011**, 49, 192-6	3.8	42
106	Identification and Evaluation of Inhibitors of Lipase from using Virtual High-Throughput Screening and Molecular Dynamics Studies. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	42
105	Screening and characterization of a thermostable lipase from marine Streptomyces sp. strain W007. *Biotechnology and Applied Biochemistry*, **2016**, 63, 41-50	2.8	35
104	Deep Eutectic Solvents Enable More Robust Chemoenzymatic Epoxidation Reactions. *ChemCatChem*, **2017**, 9, 934-936	5.2	34
103	A process for the synthesis of PUFA-enriched triglycerides from high-acid crude fish oil. *Journal of Food Engineering*, **2012**, 109, 366-371	6	32
102	Crystal structure of a lipase from Streptomyces sp. strain W007 - implications for thermostability and regiospecificity. *FEBS Journal*, **2017**, 284, 3506-3519	5.7	31
101	Hydrolysis of soybean oil to produce diacylglycerol by a lipase from Rhizopus oryzae. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 115, 43-50		31
100	Immobilized MAS1 lipase showed high esterification activity in the production of triacylglycerols with n-3 polyunsaturated fatty acids. *Food Chemistry*, **2017**, 216, 260-7	8.5	29
99	Site-directed mutagenesis studies of the aromatic residues at the active site of a lipase from Malassezia globosa. *Biochimie*, **2014**, 102, 29-36	4.6	29

98	Natural Deep Eutectic Solvents as Multifunctional Media for the Valorization of Agricultural Wastes. *ChemSusChem*, **2019**, 12, 1310-1315	8.3	27
97	Immobilization of SMG1-F278N lipase onto a novel epoxy resin: Characterization and its application in synthesis of partial glycerides. *Journal of Molecular Catalysis B: Enzymatic*, **2016**, 133, 154-160		27
96	New insights on unspecific peroxygenases: superfamily reclassification and evolution. *BMC Evolutionary Biology*, **2019**, 19, 76	3	22
95	Enhancing production of lipase MAS1 from marine Streptomyces sp. strain in Pichia pastoris by chaperones co-expression. *Electronic Journal of Biotechnology*, **2016**, 22, 62-67	3.1	22
94	Biochemical properties of a new cold-active mono- and diacylglycerol lipase from marine member Janibacter sp. strain HTCC2649. *International Journal of Molecular Sciences*, **2014**, 15, 10554-66	6.3	21
93	Molecular basis for substrate selectivity of a mono- and diacylglycerol lipase from Malassezia globosa. *Biochemical and Biophysical Research Communications*, **2012**, 424, 285-9	3.4	21
92	Simplified Enzymatic Upgrading of High-Acid Rice Bran Oil Using Ethanol as a Novel Acyl Acceptor. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 6730-7	5.7	20
91	Oryzanol nanoemulsions produced by a low-energy emulsification method: an evaluation of process parameters and physicochemical stability. *Food and Function*, **2017**, 8, 2202-2211	6.1	19
90	Production of Diacylglycerol-Mixture of Regioisomers with High Purity by Two-Step Enzymatic Reactions Combined with Molecular Distillation. *JAOCS, Journal of the American Oil Chemistsp Society*, **2014**, 91, 251-259	1.8	19
89	Deep eutectic solvents as performance additives in biphasic reactions. *RSC Advances*, **2017**, 7, 40367-40370	3.9	18
88	Chemoenzymatic Halocyclization of Unsaturated Carboxylic Acids and Alcohols. *ChemSusChem*, **2020**, 13, 97-101	8.3	18
87	Biocatalytic synthesis of lactones and lactams. *Chemistry - an Asian Journal*, **2018**, 13, 3601-3610	4.5	18
86	A Thermostable Monoacylglycerol Lipase from Marine sp. 12AMOR1: Biochemical Characterization and Mutagenesis Study. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	17
85	Evolution of the diacylglycerol lipases. *Progress in Lipid Research*, **2016**, 64, 85-97	14.3	17
84	A Novel Process for the Synthesis of Highly Pure n-3 Polyunsaturated Fatty Acid (PUFA)-Enriched Triglycerides by Combined Transesterification and Ethanolysis. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 6533-8	5.7	17
83	Immobilization of lipase SMG1 and its application in synthesis of partial glycerides. *European Journal of Lipid Science and Technology*, **2014**, 116, 1063-1069	3	17
82	Synthesis of structured lipids by lipase-catalyzed interesterification of triacetin with camellia oil methyl esters and preliminary evaluation of their plasma lipid-lowering effect in mice. *Molecules*, **2013**, 18, 3733-44	4.8	16
81	Lipase-Driven Epoxidation Is A Two-Stage Synergistic Process. *ChemistrySelect*, **2016**, 1, 836-839	1.8	16

80	Conversion of a Mono- and Diacylglycerol Lipase into a Triacylglycerol Lipase by Protein Engineering. *ChemBioChem*, **2015**, 16, 1431-4	3.8	15
79	Synthesis of DHA/EPA-rich phosphatidylcholine by immobilized phospholipase A1: effect of water addition and vacuum condition. *Bioprocess and Biosystems Engineering*, **2016**, 39, 1305-14	3.7	15
78	Enzymatic hydrolysis of palm stearin to produce diacylglycerol with a highly thermostable lipase. *European Journal of Lipid Science and Technology*, **2013**, 115, 564-570	3	15
77	How To Break the Janus Effect of H2O2 in Biocatalysis? Understanding Inactivation Mechanisms To Generate more Robust Enzymes. *ACS Catalysis*, **2019**, 9, 2916-2921	13.1	15
76	Residue Asn277 affects the stability and substrate specificity of the SMG1 lipase from Malassezia globosa. *International Journal of Molecular Sciences*, **2015**, 16, 7273-88	6.3	14
75	Biochemical properties and structure analysis of a DAG-Like lipase from Malassezia globosa. *International Journal of Molecular Sciences*, **2015**, 16, 4865-79	6.3	14
74	A novel and highly efficient approach for the production of biodiesel from high-acid content waste cooking oil. *Catalysis Communications*, **2017**, 102, 76-80	3.2	14
73	A highly efficient immobilized MAS1 lipase for the glycerolysis reaction of n-3 PUFA-rich ethyl esters. *Journal of Molecular Catalysis B: Enzymatic*, **2016**, 134, 25-31		14
72	Enantioselective Sulfoxidation of Thioanisole by Cascading a Choline Oxidase and a Peroxygenase in the Presence of Natural Deep Eutectic Solvents. *ChemPlusChem*, **2020**, 85, 254-257	2.8	13
71	Enzymatic synthesis of extremely pure triacylglycerols enriched in conjugated linoleic acids. *Molecules*, **2013**, 18, 9704-16	4.8	13
70	Structure of product-bound SMG1 lipase: active site gating implications. *FEBS Journal*, **2015**, 282, 4538-47	3.7	13
69	Enzymatic Synthesis of Diacylglycerols Enriched with Conjugated Linoleic Acid by a Novel Lipase from Malassezia globosa. *JAOCS, Journal of the American Oil ChemistspSociety*, **2012**, 89, 1259	1.8	13
68	Immobilized Talaromyces thermophilus lipase as an efficient catalyst for the production of LML-type structured lipids. *Bioprocess and Biosystems Engineering*, **2019**, 42, 321-329	3.7	13
67	High-level expression of thermophilic lipase in via combined strategies. *3 Biotech*, **2019**, 9, 62	2.8	12
66	A two-stage enzymatic process for synthesis of extremely pure high oleic glycerol monooleate. *Enzyme and Microbial Technology*, **2011**, 48, 143-7	3.8	12
65	Natural Deep Eutectic Solvents as Performance Additives for Peroxygenase Catalysis. *ChemCatChem*, **2020**, 12, 989-994	5.2	12
64	A mechanistic study into the epoxidation of carboxylic acid and alkene in a mono, di-acylglycerol lipase. *Biochemical and Biophysical Research Communications*, **2015**, 460, 392-6	3.4	11
63	An Innovative Deacidification Approach for Producing Partial Glycerides-Free Rice Bran Oil. *Food and Bioprocess Technology*, **2017**, 10, 1154-1161	5.1	10

62	Enhancing HO resistance of an esterase from Pyrobaculum calidifontis by structure-guided engineering of the substrate binding site. *Applied Microbiology and Biotechnology*, **2017**, 101, 5689-5697	5.7	10
61	Mechanical Insight into Resistance of Betaine to Urea-Induced Protein Denaturation. *Journal of Physical Chemistry B*, **2016**, 120, 12327-12333	3.4	10
60	Novel inhibitor against Malassezia globosa LIP1 (SMG1), a potential anti-dandruff target. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 3464-7	2.9	9
59	Recombinant Lipase from Gibberella zeae Exhibits Broad Substrate Specificity: A Comparative Study on Emulsified and Monomolecular Substrate. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	9
58	Production and immobilization of lipase PCL and its application in synthesis of γ-linolenic acid-rich diacylglycerol. *Journal of Food Biochemistry*, **2018**, 42, e12574	3.3	9
57	Site-directed mutagenesis studies of hydrophobic residues in the lid region of T1 lipase. *European Journal of Lipid Science and Technology*, **2017**, 119, 1600107	3	8
56	Sequence-based proline incorporation improves the thermostability of Candida albicans lipase Lip5. *European Journal of Lipid Science and Technology*, **2016**, 118, 821-826	3	8
55	Effects of shortening and baking temperature on quality, MCPD ester and glycidyl ester content of conventional baked cake. *LWT - Food Science and Technology*, **2019**, 116, 108553	5.4	8
54	A β-bridge-like structure responsible for the substrate selectivity of mono- and diacylglycerol lipase from Aspergillus oryzae. *Journal of Molecular Catalysis B: Enzymatic*, **2013**, 97, 144-149		8
53	Optimal production and biochemical properties of a lipase from Candida albicans. *International Journal of Molecular Sciences*, **2011**, 12, 7216-37	6.3	8
52	Malassezia globosa MgMDL2 lipase: Crystal structure and rational modification of substrate specificity. *Biochemical and Biophysical Research Communications*, **2017**, 488, 259-265	3.4	7
51	An efficient upgrading approach to produce n -3 polyunsaturated fatty acids-rich edible grade oil from high-acid squid visceral oil. *Biochemical Engineering Journal*, **2017**, 127, 167-174	4.2	7
50	Immobilization of Candida antarctica Lipase B Onto ECR1030 Resin and its Application in the Synthesis of n-3 PUFA-Rich Triacylglycerols. *European Journal of Lipid Science and Technology*, **2017**, 119, 1700266	3	7
49	Efficient purification of native recombinant proteins using proteases immobilized on cellulose. *Journal of Bioscience and Bioengineering*, **2012**, 113, 542-4	3.3	7
48	Control of sticky deposits in wastepaper recycling with thermophilic esterase. *Cellulose*, **2017**, 24, 311-321	5.5	7
47	A comparative study on kinetics and substrate specificities of Phospholipase A with Thermomyces lanuginosus lipase. *Journal of Colloid and Interface Science*, **2017**, 488, 149-154	9.3	7
46	Choline-Chloride-Based Eutectic Solvent for the Efficient Production of Docosahexaenoyl and Eicosapentaenoyl Ethanolamides via an Enzymatic Process. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 12361-12367	5.7	7
45	Preparation of Highly Pure n-3 PUFA-Enriched Triacylglycerols by Two-Step Enzymatic Reactions Combined with Molecular Distillation. *JAOCS, Journal of the American Oil ChemistspSociety*, **2017**, 94, 225-233	1.8	6

44	Cascade Synthesis from Cyclohexane to ?-Caprolactone by Visible-Light-Driven Photocatalysis Combined with Whole-Cell Biological Oxidation. *ChemBioChem*, **2020**, 21, 1852-1855	3.8	6
43	A Feasible Industrialized Process for Producing High Purity Diacylglycerols with No Contaminants. *European Journal of Lipid Science and Technology*, **2019**, 121, 1900039	3	6
42	Evaluation of Glycidyl Fatty Acid Ester Levels in Camellia Oil with Different Refining Degrees. *International Journal of Food Properties*, **2015**, 18, 978-985	3	6
41	Biochemical properties and potential applications of recombinant leucine aminopeptidase from Bacillus kaustophilus CCRC 11223. *International Journal of Molecular Sciences*, **2011**, 12, 7609-25	6.3	6
40	An Efficient Strategy for the Production of Epoxidized Oils: Natural Deep Eutectic Solvent-Based Enzymatic Epoxidation. *JAOCS, Journal of the American Oil ChemistspSociety*, **2019**, 96, 671-679	1.8	5
39	Structure and characterization of Aspergillus fumigatus lipase B with a unique, oversized regulatory subdomain. *FEBS Journal*, **2019**, 286, 2366-2380	5.7	5
38	Highly Efficient and Enzyme-Recoverable Method for Enzymatic Concentrating Omega-3 Fatty Acids Generated by Hydrolysis of Fish Oil in a Substrate-Constituted Three-Liquid-Phase System. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 2570-2580	5.7	5
37	Highly Efficient Deacidification of High-Acid Rice Bran Oil Using Methanol as a Novel Acyl Acceptor. *Applied Biochemistry and Biotechnology*, **2018**, 184, 1061-1072	3.2	5
36	Lid mobility in lipase SMG1 validated using a thiol/disulfide redox potential probe. *FEBS Open Bio*, **2016**, 6, 477-83	2.7	5
35	Synthesis of conjugated linoleic acid-rich triacylglycerols by immobilized mutant lipase with excellent capability and recyclability. *Enzyme and Microbial Technology*, **2018**, 117, 56-63	3.8	5
34	Deep Eutectic Solvents Enable the Enhanced Production of n-3 PUFA-Enriched Triacylglycerols. *European Journal of Lipid Science and Technology*, **2017**, 119, 1700300	3	5
33	A mutant T1 lipase homology modeling, and its molecular docking and molecular dynamics simulation with fatty acids. *Journal of Biotechnology*, **2021**, 337, 24-34	3.7	5
32	Hydrolysis of lysophosphatidylcholines by a lipase from Malassezia globosa. *European Journal of Lipid Science and Technology*, **2015**, 117, 1655-1658	3	4
31	Changes in 3-, 2-Monochloropropandiol and Glycidyl Esters during a Conventional Baking System with Addition of Antioxidants. *Foods*, **2020**, 9,	4.9	4
30	Improving the Catalytic Activity and Thermostability of MAS1 Lipase by Alanine Substitution. *Molecular Biotechnology*, **2018**, 60, 319-328	3	4
29	Synthesis of CLA-Rich Lysophosphatidylcholine by Immobilized MAS1-H108A-Catalyzed Esterification: Effects of the Parameters and Monitoring of the Reaction Process. *European Journal of Lipid Science and Technology*, **2018**, 120, 1700529	3	4
28	PRODUCTION AND OXIDATIVE STABILITY OF A SOYBEAN OIL CONTAINING CONJUGATED LINOLEIC ACID PRODUCED BY LIPASE CATALYSIS. *Journal of Food Biochemistry*, **2011**, 35, 1612-1618	3.3	4
27	An Efficient Synthesis of Lysophosphatidylcholine Enriched with n-3 Polyunsaturated Fatty Acids by Immobilized MAS1 Lipase. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 242-249	5.7	4

26	Expression and Characterization of a Novel Glycerophosphodiester Phosphodiesterase from Pyrococcus furiosus DSM 3638 That Possesses Lysophospholipase D Activity. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	4
25	The Role of Residues 103, 104, and 278 in the Activity of SMG1 Lipase from Malassezia globosa: A Site-Directed Mutagenesis Study. *Journal of Microbiology and Biotechnology*, **2015**, 25, 1827-34	3.3	3
24	Structure-Guided Rational Design of a Mono- and Diacylglycerol Lipase from : A Single Residue Mutant Increases the Hydrolysis Ability. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 5344-5352	5.7	3
23	Integrated Utilization Strategy for Soybean Oil Deodorizer Distillate: Synergically Synthesizing Biodiesel and Recovering Bioactive Compounds by a Combined Enzymatic Process and Molecular Distillation. *ACS Omega*, **2021**, 6, 9141-9152	3.9	3
22	Open and closed states of Mrlip1 DAG lipase revealed by molecular dynamics simulation. *Molecular Simulation*, **2018**, 44, 1520-1528	2	3
21	Improving phospholipase activity of PLA1 by protein engineering and its effects on oil degumming. *European Journal of Lipid Science and Technology*, **2017**, 119, 1600110	3	2
20	Substrate selectivity and optimization of immobilized SMG1-F278N lipase in synthesis of propylene glycol monooleate. *European Journal of Lipid Science and Technology*, **2017**, 119, 1600423	3	2
19	A novel strategy to improve the thermostability of Penicillium camembertii mono- and di-acylglycerol lipase. *Biochemical and Biophysical Research Communications*, **2018**, 500, 639-644	3.4	2
18	Diacylglycerol production by genetically modified lipase from Malassezia globosa. *Journal of Molecular Catalysis B: Enzymatic*, **2016**, 133, S204-S212		2
17	UPObase: an online database of unspecific peroxygenases. *Database: the Journal of Biological Databases and Curation*, **2019**, 2019,	5	2
16	Two-step enzymatic synthesis of Ⅎinolenic acid-enriched diacylglycerols with high purities from silkworm pupae oil. *Bioprocess and Biosystems Engineering*, **2021**, 44, 627-634	3.7	2
15	Enhancing the thermostability of a mono- and diacylglycerol lipase from Malassizia globose by stabilizing a flexible loop in the catalytic pocket. *Enzyme and Microbial Technology*, **2021**, 149, 109849	3.8	2
14	Insight into the Modification of Phosphatidylcholine with n-3 Polyunsaturated Fatty Acids-Rich Ethyl Esters by Immobilized MAS1 Lipase. *Molecules*, **2019**, 24,	4.8	1
13	Function of C-terminal peptides on enzymatic and interfacial adsorption properties of lipase from Gibberella zeae. *Biochimica Et Biophysica Acta - General Subjects*, **2018**, 1862, 2623-2631	4	1
12	Biochemical and conformational characterization of a leucine aminopeptidase from Geobacillus thermodenitrificans NG80-2. *World Journal of Microbiology and Biotechnology*, **2012**, 28, 3227-37	4.4	1
11	Properties of immobilized MAS1-H108A lipase and its application in the efficient synthesis of n-3 PUFA-rich triacylglycerols. *Bioprocess and Biosystems Engineering*, **2021**, 44, 575-584	3.7	1
10	A novel sn-1,3 specific lipase from Janibacter sp. as catalysts for the high-yield synthesis of long-medium-long type structured triacylglycerols. *Food Chemistry*, **2022**, 366, 130523	8.5	1
9	Exploring the influence of phospholipid monolayer conformation and environmental conditions on the interfacial binding of Gibberella Zeae lipase. *International Journal of Biological Macromolecules*, **2019**, 132, 1051-1056	7.9	0

8	Simultaneous preparation of edible quality medium and high purity diacylglycerol by a novel combined approach. *LWT - Food Science and Technology*, **2021**, 150, 111949	5.4	0
7	The enhancement of rice bran oil quality through a novel moderate biorefining process. *LWT - Food Science and Technology*, **2021**, 151, 112118	5.4	0
6	Production of Cocoa Butter Substitute via Enzymatic Interesterification of Fully Hydrogenated Palm Kernel Oil, Coconut Oil and Fully Hydrogenated Palm Stearin Blends.. *Journal of Oleo Science*, **2022**, 71, 343-351	1.6	0
5	Host-guest interactions between oleic acid and Ecyclodextrin: A combined experimental and theoretical study.. *Food Chemistry*, **2022**, 387, 132910	8.5	0
4	Water-in-oil emulsions enriched with alpha-linolenic acid in diacylglycerol form: Stability, formation mechanism and in vitro digestion analysis. *Food Chemistry*, **2022**, 133201	8.5	0
3	Structural Basis for the Regiospecificity of a Lipase from Streptomyces sp. W007. *International Journal of Molecular Sciences*, **2022**, 23, 5822	6.3	0
2	Enzymatic Synthesis of an Isopropyl Ester by Alcoholysis of Camellia Oil. *JAOCS, Journal of the American Oil ChemistspSociety*, **2012**, 89, 1277	1.8	
1	Sequence and structure-based method to predict diacylglycerol lipases in protein sequence. *International Journal of Biological Macromolecules*, **2021**, 182, 455-463	7.9	