

Xian-Fu Lin

List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Stereodivergent Protein Engineering of a Lipase To Access All Possible Stereoisomers of Chiral Esters with Two Stereocenters. <i>Journal of the American Chemical Society</i> , 2019, 141, 7934-7945.	13.7	106
2	Light-Driven Kinetic Resolution of β -Functionalized Carboxylic Acids Enabled by an Engineered Fatty Acid Photodecarboxylase. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8474-8478.	13.8	77
3	Promiscuous Acylases-Catalyzed Markovnikov Addition of N-Heterocycles to Vinyl Esters in Organic Media. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 487-492.	4.3	73
4	<i>Candida antarctica</i> Lipase B (CALB)-Catalyzed Carbon-Sulfur Bond Addition and Controllable Selectivity in Organic Media. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 1959-1962.	4.3	70
5	A Basic Ionic Liquid as Catalyst and Reaction Medium: A Rapid and Simple Procedure for Aza-Michael Addition Reactions. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 1798-1802.	2.4	61
6	Light-driven decarboxylative deuteration enabled by a divergently engineered photodecarboxylase. <i>Nature Communications</i> , 2021, 12, 3983.	12.8	53
7	A green protocol for synthesis of benzo-fused N,S-, N,O- and N,N-heterocycles in water. <i>Green Chemistry</i> , 2008, 10, 972.	9.0	52
8	Enzymatic synthesis of optical pure β -nitroalcohols by combining d-aminoacylase-catalyzed nitroaldol reaction and immobilized lipase PS-catalyzed kinetic resolution. <i>Green Chemistry</i> , 2011, 13, 2359.	9.0	39
9	One-Pot Synthesis of Spirooxazino Derivatives via Enzyme-Initiated Multicomponent Reactions. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 999-1005.	4.3	35
10	A novel immunosensor based on an alternate strategy of electrodeposition and self-assembly. <i>Biosensors and Bioelectronics</i> , 2012, 35, 277-283.	10.1	34
11	Enantiocomplementary decarboxylative hydroxylation combining photocatalysis and whole-cell biocatalysis in a one-pot cascade process. <i>Green Chemistry</i> , 2019, 21, 1907-1911.	9.0	31
12	Enzymatic enantioselective aldol reactions of isatin derivatives with cyclic ketones under solvent-free conditions. <i>Biochimie</i> , 2014, 101, 156-160.	2.6	30
13	Stereoselectivity-Tailored, Metal-Free Hydrolytic Dynamic Kinetic Resolution of Morita-Baylis-Hillman Acetates Using an Engineered Lipase Organic Base Cocatalyst. <i>ACS Catalysis</i> , 2017, 7, 4542-4549.	11.2	29
14	Exploiting Cofactor Versatility to Convert a FAD-Dependent Baeyer-Villiger Monooxygenase into a Ketoreductase. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14499-14503.	13.8	26
15	Novel hepatoma-targeting micelles based on chemoenzymatic synthesis and self-assembly of galactose-functionalized ribavirin-containing amphiphilic random copolymer. <i>Journal of Polymer Science Part A</i> , 2008, 46, 2734-2744.	2.3	24
16	Lipase/Acetamide-Catalyzed Carbon-Carbon Bond Formations: A Mechanistic View. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 864-868.	4.3	24
17	Amperometric sensor for ascorbic acid based on a glassy carbon electrode modified with gold-silver bimetallic nanotubes in a chitosan matrix. <i>Mikrochimica Acta</i> , 2014, 181, 231-238.	5.0	23
18	Promiscuous Zinc-Dependent Acylase-Mediated One-Pot Synthesis of Monosaccharide-Containing Pyrimidine Derivatives in Organic Medium. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1833-1841.	4.3	22

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19	Multifunctional poly(amine-ester)-type hyperbranched polymers: lipase-catalyzed green synthesis, characterization, biocompatibility, drug loading and anticancer activity. <i>Polymer Chemistry</i> , 2013, 4, 3480.	3.9	22
20	Light-Driven Kinetic Resolution of β -Functionalized Carboxylic Acids Enabled by an Engineered Fatty Acid Photodecarboxylase. <i>Angewandte Chemie</i> , 2019, 131, 8562-8566.	2.0	21
21	Graft copolymerization of water-soluble monomers containing quaternary ammonium group on poly(vinyl alcohol) using ceric ions. <i>Journal of Applied Polymer Science</i> , 2005, 97, 2186-2191.	2.6	19
22	Highly Focused Library-Based Engineering of <i>Candida antarctica</i> Lipase B with Selectivity Towards α -Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 126-134.	4.3	19
23	Enantiocomplementary C-H Bond Hydroxylation Combining Photocatalysis and Whole-Cell Biocatalysis in a One-Pot Cascade Process. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 821-825.	2.4	19
24	A Simple Layer-by-Layer Assembly Strategy for a Reagentless Biosensor Based on a Nanocomposite of Methylene Blue-Multiwalled Carbon Nanotubes. <i>Electroanalysis</i> , 2010, 22, 277-285.	2.9	18
25	A Single Lipase-Catalysed One-Pot Protocol Combining Aminolysis Resolution and Azide-Michael Addition: An Easy and Efficient Way to Synthesize β -Amino Acid Esters. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 5393-5401.	2.4	18
26	Novel designed polymer-acyclovir conjugates with linker-controlled drug release and hepatoma cell targeting. <i>Journal of Polymer Science Part A</i> , 2008, 46, 117-126.	2.3	17
27	Chemoenzymatic dynamic kinetic resolution of β -trifluoromethylated amines: influence of substitutions on the reversed stereoselectivity. <i>RSC Advances</i> , 2013, 3, 9820.	3.6	17
28	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 1981-1985.	2.2	15
29	Basic Law Controlling the Growth Regime of Layer-by-Layer Assembled Polyelectrolyte Multilayers. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 175-183.	2.2	15
30	One-pot bienzymatic cascade combining decarboxylative aldol reaction and kinetic resolution to synthesize chiral β -hydroxy ketone derivatives. <i>RSC Advances</i> , 2016, 6, 76829-76837.	3.6	15
31	Effect of Additives on the Selectivity and Reactivity of Enzymes. <i>Chemical Record</i> , 2017, 17, 90-121.	5.8	15
32	Dynamic Double Kinetic Resolution of Amines and Alcohols under the Cocatalysis of Raney Nickel/ <i>Candida antarctica</i> Lipase B: From Concept to Application. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 2917-2923.	2.4	14
33	<i>Candida antarctica</i> lipase B-catalyzed synthesis of polyesters: starting from ketones via a tandem BVO/ROP process. <i>RSC Advances</i> , 2014, 4, 8533.	3.6	14
34	Stereoselective Transformations of β -Trifluoromethylated Ketoximes to Optically Active Amines by Enzyme-Nanometal Cocatalysis: Synthesis of β -Inhibitor of Phenylethanolamine N-Methyltransferase. <i>ChemCatChem</i> , 2014, 6, 2129-2133.	3.7	14
35	Catalyst-free Multicomponent Synthesis of β -Mercapto Diketones in Water. <i>Chinese Journal of Chemistry</i> , 2011, 29, 1856-1862.	4.9	13
36	Solvent-Free Lipase-Catalyzed Synthesis: Unique Properties of Enantiopure α - and β -Polyaspartates and Their Complexation. <i>Biomacromolecules</i> , 2016, 17, 362-370.	5.4	13

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37	Imidazole-catalyzed Three-component Cascade Reaction for the Facile Synthesis of Highly Substituted 3,4-Dihydropyridin-2-one Derivatives. Chinese Journal of Chemistry, 2012, 30, 2343-2348.	4.9	12
38	A Combination of Computational and Experimental Approaches to Investigate the Binding Behavior of <i>B.sub</i> Lipase A Mutants with Substrate <i>p</i> NPP. Molecular Informatics, 2011, 30, 359-367.	2.5	11
39	A Nonenzymatic Hydrogen Peroxide Sensor Based on Silver Nanowires and Chitosan Film. Electroanalysis, 2012, 24, 1771-1777.	2.9	11
40	Tandem dynamic kinetic resolution and enzymatic polycondensation to synthesize mPEG-functionalized poly(amine-co-ester)-type chiral prodrugs. Journal of Polymer Science Part A, 2013, 51, 2049-2057.	2.3	10
41	Electronic Effect-Guided Rational Design of <i>Candida antarctica</i> Lipase B for Kinetic Resolution Towards Diarylmethanols. Advanced Synthesis and Catalysis, 2021, 363, 1867-1872.	4.3	10
42	Design and <i>in vitro</i> Biodegradation of Novel Hepatocyte-Targetable (Galactose) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (P 2009, 210, 1052-1060.	2.2	9
43	Lipase-catalyzed synthesis of polymeric prodrugs of nonsteroidal anti-inflammatory drugs. Journal of Applied Polymer Science, 2013, 128, 3271-3279.	2.6	9
44	Antitumor gemcitabine conjugated micelles from amphiphilic comb-like random copolymers. Colloids and Surfaces B: Biointerfaces, 2016, 146, 707-715.	5.0	9
45	Lipase-catalyzed synthesis of chiral poly(ester amide)s with an alternating sequence of hydroxy acid and <i>l</i> -aspartate units. Polymer Chemistry, 2018, 9, 1412-1420.	3.9	9
46	Substrate Engineering in Lipase-Catalyzed Selective Polymerization of <i>l</i> -Aspartates and Diols to Prepare Helical Chiral Polyester. Biomacromolecules, 2021, 22, 918-926.	5.4	9
47	<i>L</i> -Lysine/imidazole-catalyzed Multicomponent Cascade Reaction: Facile Synthesis of C5-substituted 3-Methylcyclohex-2-enones. Chinese Journal of Chemistry, 2013, 31, 997-1002.	4.9	8
48	Lipase-Catalyzed Doubly Enantioselective Ring-Opening Resolution between Alcohols and Lactones: Synthesis of Chiral Hydroxyl Esters with Two Stereogenic Centers. ChemCatChem, 2014, 6, 3448-3454.	3.7	8
49	Novel supramolecular assemblies of repulsive DNA-anionic porphyrin complexes based on covalently modified multi-walled carbon nanotubes and cyclodextrins. RSC Advances, 2015, 5, 21153-21160.	3.6	8
50	Mapping inhibitor response to the in-frame deletions, insertions and duplications of epidermal growth factor receptor (EGFR) in non-small cell lung cancer. Journal of Receptor and Signal Transduction Research, 2016, 36, 37-44.	2.5	8
51	Enzymatic Synthesis and Stereocomplex Formation of Chiral Polyester Containing Long-Chain Aliphatic Alcohol Backbone. Biomacromolecules, 2019, 20, 3584-3591.	5.4	8
52	Enantiocomplementary Chiral Polyhydroxyenoate: Chemoenzymatic Synthesis and Helical Structure Control. ACS Macro Letters, 2019, 8, 1188-1193.	4.8	8
53	Double Enzyme-Catalyzed One-Pot Synthesis of Enantiocomplementary Vicinal Fluoro Alcohols. Organic Letters, 2020, 22, 5446-5450.	4.6	8
54	Immobilization of penicillin G acylase on a composite carrier with a biocompatible microenvironment of chitosan. Journal of Chemical Technology and Biotechnology, 2008, 83, 1710-1716.	3.2	7

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55	A Facile Method for Preparation of Polymerizable, Optically Active Ketoprofen Prodrug by Irreversible Lipase-catalysed Resolution. <i>World Journal of Microbiology and Biotechnology</i> , 2006, 22, 723-727.	3.6	6
56	Chemoenzymatic synthesis, characterization, and controlled release of functional polymeric prodrugs with acyclovir as pendant. <i>Journal of Applied Polymer Science</i> , 2008, 108, 431-437.	2.6	6
57	Dual-Enzyme-Catalyzed Synthesis of Enantiocomplementary Polyesters. <i>ACS Macro Letters</i> , 2019, 8, 1432-1436.	4.8	6
58	Synthesis and characterization of saccharide- α -functionalized polymer- α -gemcitabine conjugates based on chemoenzymatic selective strategy. <i>Journal of Applied Polymer Science</i> , 2012, 124, 1840-1847.	2.6	5
59	Fabrication of size-controllable mPEG-decorated microparticles conjugating optically active ketoprofen based on self-assembly of amphiphilic random copolymers. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3242-3248.	2.6	4
60	Synthesis and Biological Evaluation of 1-(2-(6-Methoxynaphthalen-2-yl)-6-methylnicotinoyl)-4-Substituted Semicarbazides/Thiosemicarbazides as Anti-Tumor Nur77 Modulators. <i>Molecules</i> , 2022, 27, 1698.	3.8	2
61	Customizing the Enantioselectivity of a Cyclohexanone Monooxygenase by a Strategy Combining α -Size-Probes with in silico Study. <i>ChemCatChem</i> , 2019, 11, 5085-5092.	3.7	1
62	Synthesis and Characterization of Optically Active Macromolecular Prodrugs with Chemo-Enzymatic Protocol. , 2009, , .		0
63	One pot cascade synthesis of substituted 1,2,4-triazol-3-ones. <i>Science Bulletin</i> , 2010, 55, 2879-2884.	1.7	0
64	Insight into molecular mechanism underlying the transesterification catalysed by penicillin G amidase (PGA) using a combination protocol of experimental assay and theoretical analysis. <i>Molecular Simulation</i> , 2014, 40, 1125-1130.	2.0	0