

Wen-Yong Lou

List of Publications by Year in descending order

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180
papers

6,840
citations

71102

41
h-index

76900

74
g-index

186
all docs

186
docs citations

186
times ranked

6962
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Biocompatible Deep Eutectic Solvents Based on Choline Chloride: Characterization and Application to the Extraction of Rutin from <i>Sophora japonica</i> . ACS Sustainable Chemistry and Engineering, 2015, 3, 2746-2755. | 6.7 | 437 |
| 2 | Preparation of a sugar catalyst and its use for highly efficient production of biodiesel. Green Chemistry, 2007, 9, 434. | 9.0 | 335 |
| 3 | Efficient production of biodiesel from high free fatty acid-containing waste oils using various carbohydrate-derived solid acid catalysts. Bioresource Technology, 2008, 99, 8752-8758. | 9.6 | 335 |
| 4 | Metal-organic frameworks as novel matrices for efficient enzyme immobilization: An update review. Coordination Chemistry Reviews, 2020, 406, 213149. | 18.8 | 298 |
| 5 | Fabrication of electrospun polylactic acid nanofilm incorporating cinnamon essential oil/ β -cyclodextrin inclusion complex for antimicrobial packaging. Food Chemistry, 2016, 196, 996-1004. | 8.2 | 263 |
| 6 | Recent progress on deep eutectic solvents in biocatalysis. Bioresources and Bioprocessing, 2017, 4, 34. | 4.2 | 262 |
| 7 | Packaging and delivering enzymes by amorphous metal-organic frameworks. Nature Communications, 2019, 10, 5165. | 12.8 | 234 |
| 8 | Novel Nano-/Micro-Biocatalyst: Soybean Epoxide Hydrolase Immobilized on UiO-66-NH ₂ MOF for Efficient Biosynthesis of Enantiopure (R)-1, 2-Octanediol in Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2016, 4, 3586-3595. | 6.7 | 171 |
| 9 | A Highly Active Bagasse-Derived Solid Acid Catalyst with Properties Suitable for Production of Biodiesel. ChemSusChem, 2012, 5, 1533-1541. | 6.8 | 133 |
| 10 | [C4H8SO3Hmim]HSO4 as an efficient catalyst for direct liquefaction of bagasse lignin: Decomposition properties of the inner structural units. Chemical Engineering Science, 2015, 122, 24-33. | 3.8 | 93 |
| 11 | Biocatalytic Reduction of HMF to 2,5-Bis(hydroxymethyl)furan by HMF-Tolerant Whole Cells. ChemSusChem, 2017, 10, 372-378. | 6.8 | 92 |
| 12 | Papain@Magnetic Nanocrystalline Cellulose Nanobiocatalyst: A Highly Efficient Biocatalyst for Dipeptide Biosynthesis in Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2015, 3, 1589-1599. | 6.7 | 86 |
| 13 | Efficient enantioselective hydrolysis of d,l-phenylglycine methyl ester catalyzed by immobilized <i>Candida antarctica</i> lipase B in ionic liquid containing systems. Journal of Biotechnology, 2006, 125, 64-74. | 3.8 | 85 |
| 14 | Effect of organic acids on the growth and lipid accumulation of oleaginous yeast <i>Trichosporon fermentans</i> . Biotechnology for Biofuels, 2012, 5, 4. | 6.2 | 79 |
| 15 | Preparation and Characterization of Immobilized Lipase from <i>Pseudomonas Cepacia</i> onto Magnetic Cellulose Nanocrystals. Scientific Reports, 2016, 6, 20420. | 3.3 | 77 |
| 16 | Use of ionic liquids to improve whole-cell biocatalytic asymmetric reduction of acetyltrimethylsilane for efficient synthesis of enantiopure (S)-1-trimethylsilylethanol. Green Chemistry, 2006, 8, 147. | 9.0 | 76 |
| 17 | Preparation of Structurally Diverse Chiral Alcohols by Engineering Ketoreductase CgKR1. ACS Catalysis, 2017, 7, 7174-7181. | 11.2 | 74 |
| 18 | Recent advances in immobilized enzymes on nanocarriers. Chinese Journal of Catalysis, 2016, 37, 1814-1823. | 14.0 | 71 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Palladium(II)-Catalyzed Enantioselective Arylation of $\hat{\pm}$ -Imino Esters. <i>Journal of Organic Chemistry</i> , 2012, 77, 8541-8548. | 3.2 | 70 |
| 20 | Changes in the Structure and the Thermal Properties of Kraft Lignin during Its Dissolution in Cholinium Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2951-2958. | 6.7 | 69 |
| 21 | Whole-Cell Biocatalytic Processes with Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 371-386. | 6.7 | 68 |
| 22 | Multi-functional magnetic hydrogels based on <i>Millettia speciosa</i> Champ residue cellulose and Chitosan: Highly efficient and reusable adsorbent for Congo red and Cu ²⁺ removal. <i>Chemical Engineering Journal</i> , 2021, 423, 130198. | 12.7 | 67 |
| 23 | Impact of ionic liquids on papain: an investigation of structure–function relationships. <i>Green Chemistry</i> , 2006, 8, 509-512. | 9.0 | 65 |
| 24 | Encapsulation of fish oil in a coaxial electrospun nanofibrous mat and its properties. <i>RSC Advances</i> , 2017, 7, 14939-14946. | 3.6 | 62 |
| 25 | Efficient Hydrolysis of Cellulose over a Novel Sucralose-Derived Solid Acid with Cellulose-Binding and Catalytic Sites. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 1905-1911. | 5.2 | 60 |
| 26 | Enhancing Asymmetric Reduction of 3-Chloropropiophenone with Immobilized <i>Acetobacter</i> sp. CCTCC M209061 Cells by Using Deep Eutectic Solvents as Cosolvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 718-724. | 6.7 | 58 |
| 27 | Use of an ionic liquid to improve asymmetric reduction of 4-methoxyacetophenone catalyzed by immobilized <i>Rhodotorula</i> sp. AS2.2241 cells. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 56, 70-76. | 1.8 | 57 |
| 28 | Cross-linked enzyme aggregates of Mung bean epoxide hydrolases: A highly active, stable and recyclable biocatalyst for asymmetric hydrolysis of epoxides. <i>Journal of Biotechnology</i> , 2013, 166, 12-19. | 3.8 | 57 |
| 29 | Preparation of a novel magnetic cellulose nanocrystal and its efficient use for enzyme immobilization. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5522-5530. | 5.8 | 57 |
| 30 | Acidic ionic liquid-catalyzed esterification of oleic acid for biodiesel synthesis. <i>Chinese Journal of Catalysis</i> , 2014, 35, 396-406. | 14.0 | 55 |
| 31 | Hepatic Arterial Complications in Liver Transplant Recipients Treated with Pretransplantation Chemoembolization for Hepatocellular Carcinoma. <i>Radiology</i> , 2000, 214, 775-779. | 7.3 | 54 |
| 32 | A novel polysaccharide from the roots of <i>Millettia Speciosa</i> Champ: preparation, structural characterization and immunomodulatory activity. <i>International Journal of Biological Macromolecules</i> , 2020, 145, 547-557. | 7.5 | 53 |
| 33 | Harnessing the biocatalytic attributes and applied perspectives of nanoengineered laccases—A review. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 352-373. | 7.5 | 52 |
| 34 | Biocatalytic Upgrading of 5-Hydroxymethylfurfural (HMF) with Levulinic Acid to HMF Levulinate in Biomass-Derived Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4050-4054. | 6.7 | 50 |
| 35 | Enhancing oxidative stability of encapsulated fish oil by incorporation of ferulic acid into electrospun zein mat. <i>LWT - Food Science and Technology</i> , 2017, 84, 82-90. | 5.2 | 50 |
| 36 | Immobilization of Alkaline Protease on Amino-Functionalized Magnetic Nanoparticles and Its Efficient Use for Preparation of Oat Polypeptides. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 4689-4698. | 3.7 | 48 |

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|----|---|------|-----------|
| 37 | Electrospun core-shell structured nanofilm as a novel colon-specific delivery system for protein. <i>Carbohydrate Polymers</i> , 2017, 169, 157-166. | 10.2 | 48 |
| 38 | Efficient kinetic resolution of (R,S)-1-trimethylsilylethanol via lipase-mediated enantioselective acylation in ionic liquids. <i>Chirality</i> , 2006, 18, 814-821. | 2.6 | 47 |
| 39 | Catalytic Conversion of Carbohydrates to Levulinate Ester over Heteropolyanion-Based Ionic Liquids. <i>ChemSusChem</i> , 2016, 9, 3307-3316. | 6.8 | 46 |
| 40 | Improving the thermostability and activity of <i>Paenibacillus pasadenensis</i> chitinase through semi-rational design. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 9-15. | 7.5 | 46 |
| 41 | Immune enhancement activity of a novel polysaccharide produced by <i>Dendrobium officinale</i> endophytic fungus <i>Fusarium solani</i> DO7. <i>Journal of Functional Foods</i> , 2019, 53, 266-275. | 3.4 | 44 |
| 42 | Efficient enantioselective reduction of 4-methoxyacetophenone with immobilized <i>Rhodotorula</i> sp. AS2.2241 cells in a hydrophilic ionic liquid-containing co-solvent system. <i>Journal of Biotechnology</i> , 2009, 143, 190-197. | 3.8 | 43 |
| 43 | Markedly improving lipase-mediated asymmetric ammonolysis of d,l-p-hydroxyphenylglycine methyl ester by using an ionic liquid as the reaction medium. <i>Green Chemistry</i> , 2005, 7, 500. | 9.0 | 42 |
| 44 | Efficient regioselective acylation of 1- β -D-arabinofuranosylcytosine catalyzed by lipase in ionic liquid containing systems. <i>Green Chemistry</i> , 2006, 8, 538-544. | 9.0 | 42 |
| 45 | Microbial synthesis of functional odd-chain fatty acids: a review. <i>World Journal of Microbiology and Biotechnology</i> , 2020, 36, 35. | 3.6 | 42 |
| 46 | Ionic liquids for regulating biocatalytic process: Achievements and perspectives. <i>Biotechnology Advances</i> , 2021, 51, 107702. | 11.7 | 42 |
| 47 | Combination of deep eutectic solvent and ionic liquid to improve biocatalytic reduction of 2-octanone with <i>Acetobacter pasteurianus</i> GIM1.158 cell. <i>Scientific Reports</i> , 2016, 6, 26158. | 3.3 | 41 |
| 48 | Using a novel polysaccharide BM2 produced by <i>Bacillus megaterium</i> strain PL8 as an efficient bioflocculant for wastewater treatment. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 374-384. | 7.5 | 41 |
| 49 | Biocatalytic anti-Prelog stereoselective reduction of 4-methoxyacetophenone to (R)-1-(4-methoxyphenyl)ethanol with immobilized <i>Trigonopsis variabilis</i> AS2.1611 cells using an ionic liquid-containing medium. <i>Green Chemistry</i> , 2009, 11, 1377. | 9.0 | 40 |
| 50 | Efficient synthesis of optically active organosilyl alcohol via asymmetric reduction of acyl silane with immobilized yeast. <i>Enzyme and Microbial Technology</i> , 2004, 35, 190-196. | 3.2 | 38 |
| 51 | Immobilization of <i>Acetobacter</i> sp. CCTCC M209061 for efficient asymmetric reduction of ketones and biocatalyst recycling. <i>Microbial Cell Factories</i> , 2012, 11, 119. | 4.0 | 38 |
| 52 | Highly Efficient Enzymatic Acylation of Dihydromyricetin by the Immobilized Lipase with Deep Eutectic Solvents as Cosolvent. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 2084-2088. | 5.2 | 37 |
| 53 | Markedly improving Novozym 435-mediated regioselective acylation of 1- β -D-arabinofuranosylcytosine by using co-solvent mixtures as the reaction media. <i>Journal of Biotechnology</i> , 2006, 124, 552-560. | 3.8 | 36 |
| 54 | Magnetic ZIF-8/cellulose/Fe ₃ O ₄ nanocomposite: preparation, characterization, and enzyme immobilization. <i>Bioresources and Bioprocessing</i> , 2017, 4, . | 4.2 | 35 |

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|----|---|------|-----------|
| 55 | Using deep eutectic solvents to improve the resolution of racemic 1-(4-methoxyphenyl)ethanol through <i>Acetobacter</i> sp. CCTCC M209061 cell-mediated asymmetric oxidation. <i>RSC Advances</i> , 2015, 5, 6357-6364. | 3.6 | 34 |
| 56 | Structure and immunomodulatory activity of polysaccharides from <i>Fusarium solani</i> DO7 by solid-state fermentation. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 568-575. | 7.5 | 34 |
| 57 | Using a water-immiscible ionic liquid to improve asymmetric reduction of 4-(trimethylsilyl)-3-butyn-2-one catalyzed by immobilized <i>Candida parapsilosis</i> CCTCC M203011 cells. <i>BMC Biotechnology</i> , 2009, 9, 90. | 3.3 | 33 |
| 58 | The application of deep eutectic solvent on the extraction and in vitro antioxidant activity of rutin from <i>Sophora japonica</i> bud. <i>Journal of Food Science and Technology</i> , 2018, 55, 2326-2333. | 2.8 | 33 |
| 59 | Purification of anthocyanins from saskatoon berries and their microencapsulation in deep eutectic solvents. <i>LWT - Food Science and Technology</i> , 2018, 95, 316-325. | 5.2 | 33 |
| 60 | Extraction, purification and antioxidant activity of novel polysaccharides from <i>Dendrobium officinale</i> by deep eutectic solvents. <i>Natural Product Research</i> , 2019, 33, 3248-3253. | 1.8 | 33 |
| 61 | Enhanced activity, enantioselectivity and stability of papain in asymmetric hydrolysis of d,l-p-hydroxyphenylglycine methyl ester with ionic liquid. <i>Biocatalysis and Biotransformation</i> , 2004, 22, 171-176. | 2.0 | 32 |
| 62 | Highly efficient and regioselective synthesis of dihydromyricetin esters by immobilized lipase. <i>Journal of Biotechnology</i> , 2015, 199, 31-37. | 3.8 | 32 |
| 63 | Using water-miscible ionic liquids to improve the biocatalytic anti-Prelog asymmetric reduction of prochiral ketones with whole cells of <i>Acetobacter</i> sp. CCTCC M209061. <i>Chemical Engineering Science</i> , 2012, 84, 695-705. | 3.8 | 30 |
| 64 | Biocatalytic anti-Prelog stereoselective reduction of ethyl acetoacetate catalyzed by whole cells of <i>Acetobacter</i> sp. CCTCC M209061. <i>Journal of Biotechnology</i> , 2013, 163, 292-300. | 3.8 | 29 |
| 65 | Engineering of a novel carbonyl reductase with coenzyme regeneration in <i>E. coli</i> for efficient biosynthesis of enantiopure chiral alcohols. <i>Journal of Biotechnology</i> , 2016, 230, 54-62. | 3.8 | 29 |
| 66 | Markedly improving asymmetric oxidation of 1-(4-methoxyphenyl) ethanol with <i>Acetobacter</i> sp. CCTCC M209061 cells by adding deep eutectic solvent in a two-phase system. <i>Microbial Cell Factories</i> , 2016, 15, 5. | 4.0 | 29 |
| 67 | Increased enantioselectivity in the enzymatic hydrolysis of amino acid esters in the ionic liquid 1-butyl-3-methyl-imidazolium tetrafluoroborate. <i>Biocatalysis and Biotransformation</i> , 2005, 23, 89-95. | 2.0 | 28 |
| 68 | Fungal polysaccharide similar with host <i>Dendrobium officinale</i> polysaccharide: Preparation, structure characteristics and biological activities. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 460-470. | 7.5 | 28 |
| 69 | Improving biocatalysis of cefaclor with penicillin acylase immobilized on magnetic nanocrystalline cellulose in deep eutectic solvent based co-solvent. <i>Bioresource Technology</i> , 2019, 288, 121548. | 9.6 | 28 |
| 70 | Investigation of hierarchically porous zeolitic imidazolate frameworks for highly efficient dye removal. <i>Journal of Hazardous Materials</i> , 2021, 417, 126011. | 12.4 | 28 |
| 71 | Effect of acetylation modification on the emulsifying and antioxidant properties of polysaccharide from <i>Millettia speciosa</i> Champ. <i>Food Hydrocolloids</i> , 2022, 124, 107217. | 10.7 | 28 |
| 72 | Use of Crude Glycerol as Sole Carbon Source for Microbial Lipid Production by Oleaginous Yeasts. <i>Applied Biochemistry and Biotechnology</i> , 2017, 182, 495-510. | 2.9 | 27 |

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|----|--|------|-----------|
| 73 | Efficient Bioconversion of Sucrose to High-Value-Added Glucaric Acid by In-Vitro Metabolic Engineering. <i>ChemSusChem</i> , 2019, 12, 2278-2285. | 6.8 | 27 |
| 74 | Novel and highly regioselective route for synthesis of 5-fluorouridine lipophilic ester derivatives by lipozyme TL IM. <i>Journal of Biotechnology</i> , 2007, 129, 689-695. | 3.8 | 26 |
| 75 | Biocatalytic anti-Prelog reduction of prochiral ketones with whole cells of <i>Acetobacter pasteurianus</i> GIM1.158. <i>Microbial Cell Factories</i> , 2014, 13, 84. | 4.0 | 25 |
| 76 | Preparation of a Nanobiocatalyst by Efficiently Immobilizing <i>Aspergillus niger</i> Lipase onto Magnetic Metal-Biomolecule Frameworks (BioMOF). <i>ChemCatChem</i> , 2017, 9, 1794-1800. | 3.7 | 25 |
| 77 | Purification and characterization of alkaline chitinase from <i>Paenibacillus pasadenensis</i> CS0611. <i>Chinese Journal of Catalysis</i> , 2017, 38, 665-672. | 14.0 | 25 |
| 78 | Efficient microbial oil production on crude glycerol by <i>Lipomyces starkeyi</i> AS 2.1560 and its kinetics. <i>Process Biochemistry</i> , 2017, 58, 230-238. | 3.7 | 25 |
| 79 | Co-immobilization of multiple enzymes by self-assembly and chemical crosslinking for cofactor regeneration and robust biocatalysis. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 445-453. | 7.5 | 25 |
| 80 | Optimization of culture conditions to produce high yields of active <i>Acetobacter</i> sp. CCTCC M209061 cells for anti-Prelog reduction of prochiral ketones. <i>BMC Biotechnology</i> , 2011, 11, 110. | 3.3 | 24 |
| 81 | Efficient separation and purification of anthocyanins from saskatoon berry by using low transition temperature mixtures. <i>RSC Advances</i> , 2016, 6, 104582-104590. | 3.6 | 24 |
| 82 | Antimicrobial activity and action mechanism of triglycerol monolaurate on common foodborne pathogens. <i>Food Control</i> , 2019, 98, 113-119. | 5.5 | 24 |
| 83 | Nanostructured materials as a host matrix to develop robust peroxidases-based nanobiocatalytic systems. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1906-1923. | 7.5 | 24 |
| 84 | Preparation and antioxidant activity of selenium nanoparticles decorated by polysaccharides from <i>Sargassum fusiforme</i> . <i>Journal of Food Science</i> , 2021, 86, 977-986. | 3.1 | 24 |
| 85 | Zn-triazole coordination polymers: Bioinspired carbonic anhydrase mimics for hydration and sequestration of CO ₂ . <i>Chemical Engineering Journal</i> , 2020, 398, 125530. | 12.7 | 24 |
| 86 | Enzymic asymmetric hydrolysis of D,L-p-hydroxyphenylglycine methyl ester in aqueous ionic liquid co-solvent mixtures. <i>Biotechnology and Applied Biochemistry</i> , 2005, 41, 151. | 3.1 | 23 |
| 87 | In vivo detoxification of furfural during lipid production by the oleaginous yeast <i>Trichosporon fermentans</i> . <i>Biotechnology Letters</i> , 2012, 34, 1637-1642. | 2.2 | 23 |
| 88 | Use of hydrophilic ionic liquids in a two-phase system to improve Mung bean epoxide hydrolases-mediated asymmetric hydrolysis of styrene oxide. <i>Journal of Biotechnology</i> , 2012, 162, 183-190. | 3.8 | 23 |
| 89 | A magnetic biocatalyst based on mussel-inspired polydopamine and its acylation of dihydromyricetin. <i>Chinese Journal of Catalysis</i> , 2016, 37, 584-595. | 14.0 | 23 |
| 90 | Preparation of a novel nanobiocatalyst by immobilizing penicillin acylase onto magnetic nanocrystalline cellulose and its use for efficient synthesis of cefaclor. <i>Chemical Engineering Journal</i> , 2018, 346, 361-368. | 12.7 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 91 | Use of Ionic Liquid To Significantly Improve Asymmetric Reduction of Ethyl Acetoacetate Catalyzed by <i>Acetobacter</i> sp. CCTCC M209061 Cells. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 12550-12558. | 3.7 | 22 |
| 92 | Novel Antioxidative Wall Materials for <i>Lactobacillus casei</i> Microencapsulation via the Maillard Reaction between the Soy Protein Isolate and Prebiotic Oligosaccharides. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 13744-13753. | 5.2 | 22 |
| 93 | Efficient synthesis of enantiopure (S)-4-(trimethylsilyl)-3-butyn-2-ol via asymmetric reduction of 4-(trimethylsilyl)-3-butyn-2-one with immobilized <i>Candida parapsilosis</i> CCTCC M203011 cells. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 54, 122-129. | 1.8 | 21 |
| 94 | Efficient asymmetric hydrolysis of styrene oxide catalyzed by Mung bean epoxide hydrolases in ionic liquid-based biphasic systems. <i>Bioresource Technology</i> , 2012, 115, 58-62. | 9.6 | 21 |
| 95 | Highly enantioselective reduction of 4-(trimethylsilyl)-3-butyn-2-one to enantiopure (R)-4-(trimethylsilyl)-3-butyn-2-ol using a novel strain <i>Acetobacter</i> sp. CCTCC M209061. <i>Bioresource Technology</i> , 2009, 100, 5560-5565. | 9.6 | 20 |
| 96 | Using 1-propanol to significantly enhance the production of valuable odd-chain fatty acids by <i>Rhodococcus opacus</i> PD630. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 164. | 3.6 | 20 |
| 97 | Oxidized high-amylose starch macrogel as a novel delivery vehicle for probiotic and bioactive substances. <i>Food Hydrocolloids</i> , 2021, 114, 106578. | 10.7 | 20 |
| 98 | Hydroxynitrile Lyase Catalysis in Ionic Liquid-containing Systems. <i>Biotechnology Letters</i> , 2005, 27, 1387-1390. | 2.2 | 19 |
| 99 | Efficient anti-Prelog enantioselective reduction of acetyltrimethylsilane to (R)-1-trimethylsilylethanol by immobilized <i>Candida parapsilosis</i> CCTCC M203011 cells in ionic liquid-based biphasic systems. <i>Microbial Cell Factories</i> , 2012, 11, 108. | 4.0 | 19 |
| 100 | A Novel Carbonyl Reductase with Anti-Prelog Stereospecificity from <i>Acetobacter</i> sp. CCTCC M209061: Purification and Characterization. <i>PLoS ONE</i> , 2014, 9, e94543. | 2.5 | 19 |
| 101 | Using Ionic Liquid in a Biphasic System to Improve Asymmetric Hydrolysis of Styrene Oxide Catalyzed by Cross-Linked Enzyme Aggregates (CLEAs) of Mung Bean Epoxide Hydrolases. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 7923-7930. | 3.7 | 19 |
| 102 | Double-Chitinase Hydrolysis of Crab Shell Chitin Pretreated by Ionic Liquid to Generate Chito-Oligosaccharide. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1683-1691. | 6.7 | 19 |
| 103 | Cloning, overexpression, and characterization of a novel organic solvent-tolerant lipase from <i>Paenibacillus pasadenensis</i> CS0611. <i>Chinese Journal of Catalysis</i> , 2018, 39, 937-945. | 14.0 | 17 |
| 104 | Bioprospecting of a novel endophytic <i>Bacillus velezensis</i> FZ06 from leaves of <i>Camellia assamica</i> : Production of three groups of lipopeptides and the inhibition against food spoilage microorganisms. <i>Journal of Biotechnology</i> , 2020, 323, 42-53. | 3.8 | 17 |
| 105 | A Versatile Competitive Coordination Strategy for Tailoring Bioactive Zeolitic Imidazolate Framework Composites. <i>Small</i> , 2021, 17, e2007586. | 10.0 | 17 |
| 106 | Kinetics and Mechanism Analysis on Microbial Oil Production by <i>Trichosporon fermentans</i> in Rice Straw Hydrolysate. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 19034-19043. | 3.7 | 16 |
| 107 | Recruiting a Phosphite Dehydrogenase/Formamidase-Driven Antimicrobial Contamination System in <i>Bacillus subtilis</i> for Nonsterilized Fermentation of Acetoin. <i>ACS Synthetic Biology</i> , 2020, 9, 2537-2545. | 3.8 | 16 |
| 108 | Carbon source modify lipids composition of <i>Rhodococcus opacus</i> intended for infant formula. <i>Journal of Biotechnology</i> , 2020, 319, 8-14. | 3.8 | 16 |

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|-----|---|-----|-----------|
| 109 | The Effect of Different Factors on Microbial Oil Production by <i>Trichosporon Fermentans</i> on Rice Straw Acid Hydrolysate. <i>International Journal of Green Energy</i> , 2014, 11, 787-795. | 3.8 | 15 |
| 110 | Recombinant expression and characterization of a novel cold-adapted type I pullulanase for efficient amylopectin hydrolysis. <i>Journal of Biotechnology</i> , 2020, 313, 39-47. | 3.8 | 15 |
| 111 | Biotechnology and bioengineering of pullulanase: state of the art and perspectives. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 43. | 3.6 | 15 |
| 112 | Enzymatic enantioselective transcyanation of silicon-containing aliphatic ketone with (S)-hydroxynitrile lyase from <i>Manihot esculenta</i> . <i>Applied Microbiology and Biotechnology</i> , 2004, 66, 27-33. | 3.6 | 14 |
| 113 | Easily measurable pH as an indicator of the effectiveness of the aqueous cholinium ionic liquid-based pretreatment of lignocellulose. <i>RSC Advances</i> , 2014, 4, 55635-55639. | 3.6 | 14 |
| 114 | Mechanistic insights into the effect of imidazolium ionic liquid on lipid production by <i>Geotrichum fermentans</i> . <i>Biotechnology for Biofuels</i> , 2016, 9, 266. | 6.2 | 14 |
| 115 | The effect of deep eutectic solvents on the asymmetric hydrolysis of styrene oxide by mung bean epoxide hydrolases. <i>Bioresources and Bioprocessing</i> , 2018, 5, . | 4.2 | 14 |
| 116 | Using deep eutectic solvents to improve the biocatalytic reduction of 2-hydroxyacetophenone to (R)-1-phenyl-1,2-ethanediol by <i>Kurthia gibsonii</i> SC0312. <i>Molecular Catalysis</i> , 2020, 484, 110773. | 2.0 | 14 |
| 117 | Effects of Alcohol Compounds on the Growth and Lipid Accumulation of Oleaginous Yeast <i>Trichosporon fermentans</i> . <i>PLoS ONE</i> , 2012, 7, e46975. | 2.5 | 14 |
| 118 | Effects of stocking density and decreased carbon supply on the growth and photosynthesis in the farmed seaweed, <i>Pyropia haitanensis</i> (Bangiales, Rhodophyta). <i>Journal of Applied Phycology</i> , 2017, 29, 3057-3065. | 2.8 | 13 |
| 119 | Metabolic engineering of a robust <i>Escherichia coli</i> strain with a dual protection system. <i>Biotechnology and Bioengineering</i> , 2019, 116, 3333-3348. | 3.3 | 13 |
| 120 | Novel antibacterial polysaccharides produced by endophyte <i>Fusarium solani</i> DO7. <i>Bioresource Technology</i> , 2019, 288, 121596. | 9.6 | 13 |
| 121 | Effect of Ionic Liquids on Catalytic Characteristics of Horse Liver Alcohol Dehydrogenase. <i>Chinese Journal of Chemistry</i> , 2006, 24, 1643-1647. | 4.9 | 12 |
| 122 | Enzymatic characterization of a recombinant carbonyl reductase from <i>Acetobacter</i> sp. CCTCC M209061. <i>Bioresources and Bioprocessing</i> , 2017, 4, 39. | 4.2 | 12 |
| 123 | Effects of seawater acidification and alkalization on the farmed seaweed, <i>Pyropia haitanensis</i> (Bangiales, Rhodophyta), grown under different irradiance conditions. <i>Algal Research</i> , 2018, 31, 413-420. | 4.6 | 12 |
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