

Bin Zou

List of Publications by Year in descending order

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42
papers

1,128
citations

430874

18
h-index

395702

33
g-index

44
all docs

44
docs citations

44
times ranked

1461
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfated copper oxide: An efficient catalyst for dehydration of sorbitol to isosorbide. <i>Catalysis Communications</i> , 2011, 12, 544-547.	3.3	84
2	Immobilization of porcine pancreatic lipase onto ionic liquid modified mesoporous silica SBA-15. <i>Biochemical Engineering Journal</i> , 2010, 53, 150-153.	3.6	80
3	Ruthenium trichloride catalyzed conversion of cellulose into 5-hydroxymethylfurfural in biphasic system. <i>Bioresource Technology</i> , 2019, 279, 84-91.	9.6	74
4	Enhancing Catalytic Performance of Porcine Pancreatic Lipase by Covalent Modification Using Functional Ionic Liquids. <i>ACS Catalysis</i> , 2013, 3, 1976-1983.	11.2	69
5	Enhancing the catalytic properties of porcine pancreatic lipase by immobilization on SBA-15 modified by functionalized ionic liquid. <i>Biochemical Engineering Journal</i> , 2013, 70, 46-54.	3.6	58
6	Electrochemical sensing of 4-nitrochlorobenzene based on carbon nanohorns/graphene oxide nanohybrids. <i>Biosensors and Bioelectronics</i> , 2018, 106, 136-141.	10.1	56
7	Immobilization of Burkholderia cepacia lipase on functionalized ionic liquids modified mesoporous silica SBA-15. <i>Process Biochemistry</i> , 2012, 47, 2291-2299.	3.7	55
8	Effect of surface modification of low cost mesoporous SiO ₂ carriers on the properties of immobilized lipase. <i>Journal of Colloid and Interface Science</i> , 2014, 417, 210-216.	9.4	53
9	Mesoporous Material SBA-15 Modified by Amino Acid Ionic Liquid To Immobilize Lipase via Ionic Bonding and Cross-Linking Method. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 2844-2851.	3.7	47
10	Enhancing stabilities of lipase by enzyme aggregate coating immobilized onto ionic liquid modified mesoporous materials. <i>Applied Surface Science</i> , 2014, 311, 62-67.	6.1	46
11	Functionalized ionic liquid modified mesoporous silica SBA-15: A novel, designable and efficient carrier for porcine pancreas lipase. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 93-99.	5.0	45
12	Enzyme-Assisted Extraction of Oil from Wet Microalgae <i>Scenedesmus</i> sp. G4. <i>Energies</i> , 2015, 8, 8165-8174.	3.1	36
13	Filamentous microalgae <i>Tribonema</i> sp. cultivation in the anaerobic/oxic effluents of petrochemical wastewater for evaluating the efficiency of recycling and treatment. <i>Biochemical Engineering Journal</i> , 2019, 145, 27-32.	3.6	36
14	Production and characterization of a novel acidophilic and thermostable xylanase from <i>Thermoascus aurantiacus</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 109, 1270-1279.	7.5	34
15	Acetylcholinesterase biosensor based on functionalized surface of carbon nanotubes for monocrotophos detection. <i>Analytical Biochemistry</i> , 2018, 560, 12-18.	2.4	30
16	Bacterial intervention on the growth, nutrient removal and lipid production of filamentous oleaginous microalgae <i>Tribonema</i> sp.. <i>Algal Research</i> , 2020, 52, 102088.	4.6	27
17	A two-stage system coupling hydrolytic acidification with algal microcosms for treatment of wastewater from the manufacture of acrylonitrile butadiene styrene (ABS) resin. <i>Biotechnology Letters</i> , 2018, 40, 689-696.	2.2	23
18	Enhancing bio-catalytic activity and stability of lipase nanogel by functional ionic liquids modification. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 195, 111275.	5.0	20

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19	Monocrotophos detection with a bienzyme biosensor based on ionic-liquid-modified carbon nanotubes. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2905-2914.	3.7	19
20	Synthesis of methyl (R)-3-(4-fluorophenyl)glutarate via enzymatic desymmetrization of a prochiral diester. <i>Process Biochemistry</i> , 2012, 47, 1037-1041.	3.7	18
21	Quick separation and enzymatic performance improvement of lipase by ionic liquid-modified Fe ₃ O ₄ carrier immobilization. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 739-748.	3.4	18
22	Immobilization of Lipase by Ionic Liquid-Modified Mesoporous SiO ₂ Adsorption and Calcium Alginate-Embedding Method. <i>Applied Biochemistry and Biotechnology</i> , 2018, 185, 606-618.	2.9	16
23	Acetylcholinesterase biosensors based on ionic liquid functionalized carbon nanotubes and horseradish peroxidase for monocrotophos determination. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 293-301.	3.4	15
24	A glassy carbon electrode modified with a multiwalled carbon nanotube@reduced graphene oxide nanoribbon core-shell structure for electrochemical sensing of p-dihydroxybenzene. <i>Mikrochimica Acta</i> , 2015, 182, 871-877.	5.0	13
25	Rapid screening of flonicamid residues in environmental and agricultural samples by a sensitive enzyme immunoassay. <i>Science of the Total Environment</i> , 2016, 551-552, 484-488.	8.0	13
26	Mixotrophic <i>Chlorella</i> sp. UJ-3 cultivation in the typical anaerobic fermentation effluents. <i>Bioresource Technology</i> , 2018, 249, 219-225.	9.6	13
27	Metal-Organic Frameworks Conjugated Lipase with Enhanced Bio-catalytic Activity and Stability. <i>Applied Biochemistry and Biotechnology</i> , 2020, 192, 132-145.	2.9	13
28	Optimization of Alkaline Flocculation for Harvesting of <i>Scenedesmus quadricauda</i> #507 and <i>Chaetoceros muelleri</i> #862. <i>Energies</i> , 2014, 7, 6186-6195.	3.1	11
29	Lipase nanogel catalyzed synthesis of vitamin E succinate in non-aqueous phase. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 3186-3192.	3.5	11
30	Enhancing electrochemical sensing for catechol by biomimetic oxidase covalently functionalized graphene oxide. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 343-353.	3.4	11
31	Enzyme Biosensors Systems Based on Co-Modification of Carbon Nanotubes and Enzyme for Detection of Glucose in Food. <i>Journal of the Electrochemical Society</i> , 2021, 168, 065501.	2.9	11
32	Sensitive glucose biosensor based on cyclodextrin modified carbon nanotubes for detecting glucose in honey. <i>Journal of Food Composition and Analysis</i> , 2022, 105, 104221.	3.9	11
33	Optimization of enzymatic synthesis of L-ascorbyl palmitate by solvent engineering and statistical experimental designs. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 350-357.	2.6	10
34	Biomimetic oxidase sensor based on functionalized surface of carbon nanotubes and iron porphyrins for catechol detection. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 279-290.	3.4	10
35	Process Analysis of Alkaline Flocculation Harvesting for <i>Chaetoceros muelleri</i> and <i>Scenedesmus quadricauda</i> . <i>Bioenergy Research</i> , 2016, 9, 682-690.	3.9	8
36	Microalgae in Human Health and Medicine. , 2020, , 149-174.		8

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37	Highly efficient and low cost synthesis of 5-Hydroxymethylfurfural from monosaccharides catalyzed by surface treated biomass. Canadian Journal of Chemical Engineering, 2018, 96, 1337-1344.	1.7	7
38	Alkaline Ionic Liquid Modified Pd/C Catalyst as an Efficient Catalyst for Oxidation of 5-Hydroxymethylfurfural. Journal of Chemistry, 2018, 2018, 1-9.	1.9	7
39	Biomimetic metalloporphyrin oxidase modified carbon nanotubes for highly sensitive and stable quantification of anti-oxidants tert-butylhydroquinone in plant oil. Food Chemistry, 2022, 388, 132898.	8.2	6
40	Improved catalytic performance of carrier-free immobilized lipase by advanced cross-linked enzyme aggregates technology. Bioprocess and Biosystems Engineering, 2022, 45, 147-158.	3.4	5
41	Tailoring Glucose Oxidase As Versatile Biocatalyst for High-Efficiency Electrochemical Sensing of Glucose in Honey. ACS Food Science & Technology, 2021, 1, 1805-1813.	2.7	1
42	Immobilization of Burkholderia Cepacia Lipase on Functionalized Ionic Liquids Modified Mesoporous Silica SBA-15. Chinese Journal of Catalysis, 2013, 33, 1565-1571.	14.0	0