Chun-Zhao Liu

List of Publications by Year
in descending order

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105 papers	5,959 citations	70961 41 h-index	74018 75 g-index
105 all docs	105 docs citations	105 times ranked	6608 citing authors

#	Article	IF	Citations
1	Hierarchically porous Co/C nanocomposites for ultralight high-performance microwave absorption. Advanced Composites and Hybrid Materials, 2021, 4, 173-185.	9.9	356
2	Supramolecular nanofibrillar hydrogels as highly stretchable, elastic and sensitive ionic sensors. Materials Horizons, 2019, 6, 326-333.	6.4	327
3	Microalgal bioreactors: Challenges and opportunities. Engineering in Life Sciences, 2009, 9, 178-189.	2.0	281
4	A simple and rapid harvesting method for microalgae by in situ magnetic separation. Bioresource Technology, 2011, 102, 10047-10051.	4.8	221
5	Lightweight Fe3C@Fe/C nanocomposites derived from wasted cornstalks with high-efficiency microwave absorption and ultrathin thickness. Advanced Composites and Hybrid Materials, 2021, 4, 1226-1238.	9.9	215
6	Ionic liquids for biofuel production: Opportunities and challenges. Applied Energy, 2012, 92, 406-414.	5.1	196
7	Magnetic mesoporous silica nanoparticles: Fabrication and their laccase immobilization performance. Bioresource Technology, 2010, 101, 8931-8935.	4.8	176
8	Tunneling-induced negative permittivity in Ni/MnO nanocomposites by a bio-gel derived strategy. Journal of Materials Chemistry C, 2020, 8, 3029-3039.	2.7	169
9	Flexible polystyrene/graphene composites with epsilon-near-zero properties. Advanced Composites and Hybrid Materials, 2022, 5, 1054-1066.	9.9	169
10	Recent advances in radio-frequency negative dielectric metamaterials by designing heterogeneous composites. Advanced Composites and Hybrid Materials, 2022, 5, 679-695.	9.9	168
11	Efficient harvesting of marine microalgae Nannochloropsis maritima using magnetic nanoparticles. Bioresource Technology, 2013, 138, 387-390.	4.8	161
12	Precise regulation of weakly negative permittivity in CaCu3Ti4O12 metacomposites by synergistic effects of carbon nanotubes and grapheme. Advanced Composites and Hybrid Materials, 2022, 5, 419-430.	9.9	155
13	Artemisinin: current state and perspectives for biotechnological production of an antimalarial drug. Applied Microbiology and Biotechnology, 2006, 72, 11-20.	1.7	153
14	Microwave-assisted extraction of chlorogenic acid from flower buds of Lonicera japonica Thunb.. Separation and Purification Technology, 2008, 62, 480-483.	3.9	150
15	Harvesting microalgae by magnetic separation: A review. Algal Research, 2015, 9, 178-185.	2.4	143
16	Microwave-assisted extraction of solanesol from tobacco leaves. Journal of Chromatography A, 2006, 1129, 135-139.	1.8	139
17	Improved performance of immobilized laccase on amine-functioned magnetic Fe 3 O 4 nanoparticles modified with polyethylenimine. Chemical Engineering Journal, 2016, 295, 201-206.	6.6	127
18	Magnetic Flocculant for High Efficiency Harvesting of Microalgal Cells. ACS Applied Materials & Interfaces, 2014, 6, 109-115.	4.0	121

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19	Ultrafast Fabrication of Gradient Nanoporous Allâ€Polysaccharide Films as Strong, Superfast, and Multiresponsive Actuators. Advanced Functional Materials, 2019, 29, 1807692.	7.8	106
20	Improvement of microalgae harvesting by magnetic nanocomposites coated with polyethylenimine. Chemical Engineering Journal, 2014, 242, 341-347.	6.6	99
21	Immobilization of Pycnoporus sanguineus laccase by metal affinity adsorption on magnetic chelator particles. Journal of Chemical Technology and Biotechnology, 2008, 83, 97-104.	1.6	92
22	Dynamic microwave-assisted extraction of flavonoids from Saussurea medusa Maxim cultured cells. Biochemical Engineering Journal, 2006, 32, 79-83.	1.8	90
23	Co-culture of Clostridium thermocellum and Clostridium thermosaccharolyticum for enhancing hydrogen production via thermophilic fermentation of cornstalk waste. International Journal of Hydrogen Energy, 2012, 37, 10648-10654.	3.8	87
24	Ethanol fermentation in a magnetically fluidized bed reactor with immobilized Saccharomyces cerevisiae in magnetic particles. Bioresource Technology, 2009, 100, 878-882.	4.8	79
25	Caffeic Acid Derivatives Production by Hairy Root Cultures of Echinacea purpurea. Journal of Agricultural and Food Chemistry, 2006, 54, 8456-8460.	2.4	67
26	Enhanced laccase production by Trametes versicolor using corn steep liquor as both nitrogen source and inducer. Bioresource Technology, 2014, 166, 602-605.	4.8	67
27	An effective method for fast determination of artemisinin in Artemisia annua L. by high performance liquid chromatography with evaporative light scattering detection. Analytica Chimica Acta, 2007, 581, 298-302.	2.6	62
28	Research advances of DNA aptasensors for foodborne pathogen detection. Critical Reviews in Food Science and Nutrition, 2020, 60, 2353-2368.	5.4	58
29	Comparison of Techniques for the Extraction of Flavonoids from Cultured Cells of Saussurea medusa Maxim. World Journal of Microbiology and Biotechnology, 2005, 21, 1461-1463.	1.7	57
30	Ultrasound-intensified laccase production from Trametes versicolor. Ultrasonics Sonochemistry, 2013, 20, 118-124.	3.8	57
31	Echinacea biotechnology: Challenges and opportunities. In Vitro Cellular and Developmental Biology - Plant, 2007, 43, 481-492.	0.9	53
32	Hydrogen Production via Thermophilic Fermentation of Cornstalk by Clostridium thermocellum. Energy & Fuels, 2011, 25, 1714-1720.	2.5	53
33	Fingerprint analysis of Dioscorea nipponica by high-performance liquid chromatography with evaporative light scattering detection. Analytica Chimica Acta, 2007, 582, 61-68.	2.6	51
34	Algal oil extraction from wet biomass of Botryococcus braunii by 1,2-dimethoxyethane. Applied Energy, 2013, 102, 971-974.	5.1	51
35	Microalgal biodiesel in China: Opportunities and challenges. Applied Energy, 2011, 88, 3432-3437.	5.1	48
36	Scale-up cultivation of Chlorella ellipsoidea from indoor to outdoor in bubble column bioreactors. Bioresource Technology, 2014, 156, 117-122.	4.8	48

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37	Laccase Production from Trametes versicolor in Solid-State Fermentation of Steam-Exploded Pretreated Cornstalk. Waste and Biomass Valorization, 2017, 8, 153-159.	1.8	47
38	Efficient Catalytic Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid by Magnetic Laccase Catalyst. ChemBioChem, 2018, 19, 654-659.	1.3	47
39	A sensitive aptasensor for the detection of Vibrio parahaemolyticus. Sensors and Actuators B: Chemical, 2018, 272, 550-558.	4.0	43
40	Development of a draft-tube airlift bioreactor for Botryococcus braunii with an optimized inner structure using computational fluid dynamics. Bioresource Technology, 2012, 119, 300-305.	4.8	42
41	A magnetic separator for efficient microalgae harvesting. Bioresource Technology, 2014, 158, 388-391.	4.8	42
42	In vitro Culture and Temporary Immersion Bioreactor Production of Crescentia cujete. Plant Cell, Tissue and Organ Culture, 2004, 78, 63-68.	1.2	40
43	Identification and Validation of Reference Genes for Quantitative Real-Time PCR Normalization and Its Applications in Lycium. PLoS ONE, 2014, 9, e97039.	1.1	36
44	Enhancement of phenylethanoid glycosides biosynthesis in cell cultures of Cistanche deserticola by osmotic stress. Plant Cell Reports, 2008, 27, 357-362.	2.8	35
45	Enhanced hydrogen and volatile fatty acid production from sweet sorghum stalks by two-steps dark fermentation with dilute acid treatment in between. International Journal of Hydrogen Energy, 2018, 43, 659-666.	3.8	35
46	Genotypic variation of cell wall composition and its conversion efficiency in Miscanthus sinensis, a potential biomass feedstock crop in China. GCB Bioenergy, 2014, 6, 768-776.	2.5	34
47	Factors influencing artemisinin production from shoot cultures of Artemisia annua L.. World Journal of Microbiology and Biotechnology, 2003, 19, 535-538.	1.7	33
48	CotA laccase immobilized on functionalized magnetic graphene oxide nano-sheets for efficient biocatalysis. Molecular Catalysis, 2018, 445, 269-278.	1.0	33
49	Coproduction of hydrogen and volatile fatty acid via thermophilic fermentation of sweet sorghum stalk from co-culture of Clostridium thermocellum and Clostridium thermosaccharolyticum. International Journal of Hydrogen Energy, 2017, 42, 830-837.	3.8	32
50	Negative permittivity behavior in Ti3AlC2-polyimide composites and the regulation mechanism. Journal of Materials Science: Materials in Electronics, 2021, 32, 10388-10397.	1.1	31
51	Botryococcus braunii cells: Ultrasound-intensified outdoor cultivation integrated with in situ magnetic separation. Bioresource Technology, 2014, 167, 376-382.	4.8	29
52	Biofuels in China: opportunities and challenges. In Vitro Cellular and Developmental Biology - Plant, 2009, 45, 342-349.	0.9	28
53	Enhancing the resolution of (R,S)-2-octanol catalyzed by magnetic cross-linked lipase aggregates using an alternating magnetic field. Chemical Engineering Journal, 2015, 280, 36-40.	6.6	28
54	GaAs quantum dot/TiO2 heterojunction for visible-light photocatalytic hydrogen evolution: promotion of oxygen vacancy. Advanced Composites and Hybrid Materials, 2022, 5, 450-460.	9.9	28

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55	Development of chitosan-magnetite aggregates containing Nitrosomonas europaea cells for nitrification enhancement. Journal of Bioscience and Bioengineering, 2000, 89, 420-425.	1.1	26
56	Development of an efficient electroflocculation technology integrated with dispersedâ€air flotation for harvesting microalgae. Journal of Chemical Technology and Biotechnology, 2010, 85, 1504-1507.	1.6	26
57	Artificial Magnetotaxis of Microbot: Magnetophoresis versus Self-Swimming. Langmuir, 2018, 34, 7971-7980.	1.6	25
58	Lipase immobilization on ionic liquidâ€modified magnetic nanoparticles: Ionic liquids controlled esters hydrolysis at oilâ€“water interface. AICHE Journal, 2012, 58, 1203-1211.	1.8	24
59	Cichoric acid production from hairy root cultures of Echinacea purpurea grown in a modified airlift bioreactor. Journal of Chemical Technology and Biotechnology, 2009, 84, 1697-1701.	1.6	23
60	Liver toxicity of macrolide antibiotics in zebrafish. Toxicology, 2020, 441, 152501.	2.0	23
61	A Review of Microbial Mediated Iron Nanoparticles (IONPs) and Its Biomedical Applications. Nanomaterials, 2022, 12, 130.	1.9	23
62	Heat Shock Treatment Improves Trametes versicolor Laccase Production. Applied Biochemistry and Biotechnology, 2012, 168, 256-265.	1.4	22
63	Direct Current-Powered High-Performance Ionic Hydrogel Strain Sensor Based on Electrochemical Redox Reaction. ACS Applied Materials & Interfaces, 2019, 11, 24289-24297.	4.0	21
64	Improved algal oil production from Botryococcus braunii by feeding nitrate and phosphate in an airlift bioreactor. Engineering in Life Sciences, 2012, 12, 171-177.	2.0	19
65	Synchronous enhancement and stabilization of graphene oxide liquid crystals: Inductive effect of sodium alginates in different concentration zones. Polymer, 2019, 160, 107-114.	1.8	19
66	Iron/epoxy random metamaterials with adjustable epsilon-near-zero and epsilon-negative property. Journal of Materials Science: Materials in Electronics, 2021, 32, 15995-16007.	1.1	19
67	Functionalized magnetic mesoporous silica nanoparticles: Fabrication, laccase adsorption performance and direct laccase capture from Trametes versicolor fermentation broth. Bioresource Technology, 2012, 126, 117-122.	4.8	18
68	Quorum sensing molecule-farnesol increased the production and biological activities of extracellular polysaccharide from Trametes versicolor. International Journal of Biological Macromolecules, 2017, 104, 377-383.	3.6	18
69	Improved production and antitumor activity of intracellular protein-polysaccharide from Trametes versicolor by the quorum sensing molecule-tyrosol. Journal of Functional Foods, 2017, 37, 90-96.	1.6	18
70	Spectral composition of irradiation regulates the cell growth and flavonoids biosynthesis in callus cultures of Saussurea medusa Maxim. Plant Growth Regulation, 2007, 52, 259-263.	1.8	17
71	Scale-up laccase production from Trametes versicolor stimulated by vanillic acid. Bioprocess and Biosystems Engineering, 2016, 39, 1041-1049.	1.7	17
72	Plant regeneration of Erigeron breviscapus (vant.) Hand. Mazz. and its chromatographic fingerprint analysis for quality control. Plant Cell Reports, 2007, 27, 39-45.	2.8	16

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73	Improved performance of Yarrowia lipolytica lipase-catalyzed kinetic resolution of (R,S)-2-octanol by an integrated strategy of interfacial activation, bioimprinting and immobilization. Bioresource Technology, 2013, 142, 415-419.	4.8	16
74	Recent advances in screening aquatic products for Vibrio spp.. TrAC - Trends in Analytical Chemistry, 2019, 111, 239-251.	5.8	16
75	Surface-reconstructed formation of hierarchical TiO₂ mesoporous nanosheets with fast lithium-storage capability. Materials Chemistry Frontiers, 2021, 5, 3216-3225.	3.2	16
76	Efficient phenol degradation by laccase immobilized on functional magnetic nanoparticles in fixed bed reactor under highâ€gradient magnetic field. Engineering in Life Sciences, 2021, 21, 374-381.	2.0	15
77	Thidiazuron enhances shoot organogenesis from leaf explants of Saussurea involucrata Kar. et Kir. In Vitro Cellular and Developmental Biology - Plant, 2012, 48, 609-612.	0.9	14
78	Lignin-Enhanced Laccase Production from Trametes versicolor. Waste and Biomass Valorization, 2017, 8, 1061-1066.	1.8	14
79	Plant regeneration from leaf explants of Rhodiola fastigiata. In Vitro Cellular and Developmental Biology - Plant, 2006, 42, 345-347.	0.9	13
80	Development of an efficient process intensification strategy for enhancing Pfu DNA polymerase production in recombinant Escherichia coli. Bioprocess and Biosystems Engineering, 2015, 38, 651-659.	1.7	13
81	Improving catalytic activity of laccase immobilized on the branched polymer chains of magnetic nanoparticles under alternating magnetic field. Journal of Chemical Technology and Biotechnology, 2018, 93, 88-93.	1.6	13
82	Accurate Control of All-Polymer Hollow Multishelled Spheres by One-Step Reactionâ€“Diffusion. Chemistry of Materials, 2020, 32, 8442-8449.	3.2	13
83	Saussurea medusa Cell Suspension Cultures for Flavonoid Production. Methods in Molecular Biology, 2009, 547, 53-59.	0.4	11
84	Development of a Novel Micro-Aerobic Cultivation Strategy for High Potential CotA Laccase Production. Waste and Biomass Valorization, 2018, 9, 369-377.	1.8	11
85	Comparative evaluation of chemically and green synthesized zinc oxide nanoparticles: their in vitro antioxidant, antimicrobial, cytotoxic and anticancer potential towards HepG2 cell line. Journal of Nanostructure in Chemistry, 2023, 13, 243-261.	5.3	11
86	An amino acid-based supramolecular nanozyme by coordination self-assembly for cascade catalysis and enhanced chemodynamic therapy towards biomedical applications. Nanoscale Advances, 2021, 3, 6482-6489.	2.2	10
87	Coproduction of hydrogen and volatile fatty acids via integrated two-step fermentation of sweet sorghum stalks by alkaline and enzymatic treatment. Biomass and Bioenergy, 2021, 145, 105923.	2.9	10
88	Changes in endogenous hormones and oxidative burst as the biochemical basis for enhanced shoot organogenesis in cold-treated Saussurea involucrata explants. Acta Physiologiae Plantarum, 2013, 35, 283-287.	1.0	8
89	Effects of incident light intensity and light path length on cell growth and oil accumulation in Botryococcus braunii (Chlorophyta). Engineering in Life Sciences, 2019, 19, 104-111.	2.0	8
90	Development of a mixed solvent system for the efficient resolution of (R, S)-2-octanol catalyzed by magnetite-immobilized lipase. Journal of Molecular Catalysis B: Enzymatic, 2014, 101, 23-27.	1.8	7

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91	Improved Biomass and Hydrocarbon Productivity of Botryococcus braunii by Periodic Ultrasound Stimulation. Bioenergy Research, 2014, 7, 986-992.	2.2	7
92	Novel Magnetic Crossâ€Linked Lipase Aggregates for Improving the Resolution of (R, S)â€2â€octanol. Chirality, 2015, 27, 199-204.	1.3	7
93	Low-temperature preincubation enhances survival and regeneration of cryopreserved Saussurea involucrata callus. In Vitro Cellular and Developmental Biology - Plant, 2013, 49, 320-325.	0.9	6
94	Chitosan multiple addition enhances laccase production from Trametes versicolor. Bioprocess and Biosystems Engineering, 2015, 38, 1973-1981.	1.7	6
95	Farnesol stimulates laccase production inTrametes versicolor. Engineering in Life Sciences, 2016, 16, 364-370.	2.0	6
96	Motion control of biohybrid microbots under low Reynolds number environment: Magnetotaxis. Chemical Engineering and Processing: Process Intensification, 2019, 141, 107530.	1.8	6
97	Ultrasensitive strips for the quadruple detection of nitrofuran metabolite residues. RSC Advances, 2019, 9, 2812-2815.	1.7	6
98	Differential induction of antioxidant and anti-inflammatory phytochemicals in agitated micro-shoot cultures of Ajuga integrifolia Buch. Ham. ex D.Don with biotic elicitors. AMB Express, 2021, 11, 137.	1.4	6
99	Mechanical force-assisted modulation of TiO₂ nanowire-entangled hierarchical microstructures for photocatalysis application. Materials Chemistry Frontiers, 2022, 6, 1637-1646.	3.2	6
100	Efficient Kinetic Resolution of (R,S)-2-Octanol Catalyzed by Magnetite-Immobilized Yarrowia lipolytica Lipase in Mixed Ionic Liquids. Catalysis Letters, 2014, 144, 1552-1556.	1.4	5
101	Farnesol-induced hyperbranched morphology with short hyphae and bulbous tips of Coriolus versicolor. Scientific Reports, 2018, 8, 15213.	1.6	4
102	The Transport Behavior of a Biflagellated Microswimmer before and after Cargo Loading. Langmuir, 2021, 37, 9192-9201.	1.6	3
103	Efficient microwave-assisted extraction of salidroside from Rhodiola crenulata. SN Applied Sciences, 2021, 3, 1.	1.5	1
104	Steered polymorphic nanodomains in TiO₂ to boost visible-light photocatalytic oxidation. RSC Advances, 2022, 12, 9660-9670.	1.7	1
105	Immobilized CotA Laccase for Efficient Recovery of HEAVY OIL. Waste and Biomass Valorization, 2023, 14, 127-144.	1.8	1