

# 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	Comparative evaluation of chemically and green synthesized zinc oxide nanoparticles: their in vitro antioxidant, antimicrobial, cytotoxic and anticancer potential towards HepG2 cell line. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 243-261.	5.3	11
2	Immobilized CotA Laccase for Efficient Recovery of HEAVY OIL. <i>Waste and Biomass Valorization</i> , 2023, 14, 127-144.	1.8	1
3	GaAs quantum dot/TiO <sub>2</sub> heterojunction for visible-light photocatalytic hydrogen evolution: promotion of oxygen vacancy. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 450-460.	9.9	28
4	Precise regulation of weakly negative permittivity in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> metacomposites by synergistic effects of carbon nanotubes and grapheme. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 419-430.	9.9	155
5	Steered polymorphic nanodomains in TiO <sub>2</sub> to boost visible-light photocatalytic oxidation. <i>RSC Advances</i> , 2022, 12, 9660-9670.	1.7	1
6	A Review of Microbial Mediated Iron Nanoparticles (IONPs) and Its Biomedical Applications. <i>Nanomaterials</i> , 2022, 12, 130.	1.9	23
7	Mechanical force-assisted modulation of TiO <sub>2</sub> nanowire-entangled hierarchical microstructures for photocatalysis application. <i>Materials Chemistry Frontiers</i> , 2022, 6, 1637-1646.	3.2	6
8	Recent advances in radio-frequency negative dielectric metamaterials by designing heterogeneous composites. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 679-695.	9.9	168
9	Flexible polystyrene/graphene composites with epsilon-near-zero properties. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1054-1066.	9.9	169
10	Surface-reconstructed formation of hierarchical TiO <sub>2</sub> mesoporous nanosheets with fast lithium-storage capability. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3216-3225.	3.2	16
11	An amino acid-based supramolecular nanozyme by coordination self-assembly for cascade catalysis and enhanced chemodynamic therapy towards biomedical applications. <i>Nanoscale Advances</i> , 2021, 3, 6482-6489.	2.2	10
12	Coproduction of hydrogen and volatile fatty acids via integrated two-step fermentation of sweet sorghum stalks by alkaline and enzymatic treatment. <i>Biomass and Bioenergy</i> , 2021, 145, 105923.	2.9	10
13	Hierarchically porous Co/C nanocomposites for ultralight high-performance microwave absorption. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 173-185.	9.9	356
14	Negative permittivity behavior in Ti <sub>3</sub> AlC <sub>2</sub> -polyimide composites and the regulation mechanism. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10388-10397.	1.1	31
15	Efficient phenol degradation by laccase immobilized on functional magnetic nanoparticles in fixed bed reactor under high gradient magnetic field. <i>Engineering in Life Sciences</i> , 2021, 21, 374-381.	2.0	15
16	Iron/epoxy random metamaterials with adjustable epsilon-near-zero and epsilon-negative property. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15995-16007.	1.1	19
17	The Transport Behavior of a Biflagellated Microswimmer before and after Cargo Loading. <i>Langmuir</i> , 2021, 37, 9192-9201.	1.6	3
18	Efficient microwave-assisted extraction of salidroside from <i>Rhodiola crenulata</i> . <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	1

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19	Lightweight Fe <sub>3</sub> C@Fe/C nanocomposites derived from wasted cornstalks with high-efficiency microwave absorption and ultrathin thickness. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 1226-1238.	9.9	215
20	Differential induction of antioxidant and anti-inflammatory phytochemicals in agitated micro-shoot cultures of <i>Ajuga integrifolia</i> Buch. Ham. ex D. Don with biotic elicitors. <i>AMB Express</i> , 2021, 11, 137.	1.4	6
21	Research advances of DNA aptasensors for foodborne pathogen detection. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, 60, 2353-2368.	5.4	58
22	Tunneling-induced negative permittivity in Ni/MnO nanocomposites by a bio-gel derived strategy. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3029-3039.	2.7	169
23	Accurate Control of All-Polymer Hollow Multishelled Spheres by One-Step Reaction—Diffusion. <i>Chemistry of Materials</i> , 2020, 32, 8442-8449.	3.2	13
24	Liver toxicity of macrolide antibiotics in zebrafish. <i>Toxicology</i> , 2020, 441, 152501.	2.0	23
25	Direct Current-Powered High-Performance Ionic Hydrogel Strain Sensor Based on Electrochemical Redox Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24289-24297.	4.0	21
26	Motion control of biohybrid microbots under low Reynolds number environment: Magnetotaxis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 141, 107530.	1.8	6
27	Ultrafast Fabrication of Gradient Nanoporous All-Polysaccharide Films as Strong, Superfast, and Multiresponsive Actuators. <i>Advanced Functional Materials</i> , 2019, 29, 1807692.	7.8	106
28	Ultrasensitive strips for the quadruple detection of nitrofurantoin metabolite residues. <i>RSC Advances</i> , 2019, 9, 2812-2815.	1.7	6
29	Supramolecular nanofibrillar hydrogels as highly stretchable, elastic and sensitive ionic sensors. <i>Materials Horizons</i> , 2019, 6, 326-333.	6.4	327
30	Effects of incident light intensity and light path length on cell growth and oil accumulation in <i>Botryococcus braunii</i> (Chlorophyta). <i>Engineering in Life Sciences</i> , 2019, 19, 104-111.	2.0	8
31	Synchronous enhancement and stabilization of graphene oxide liquid crystals: Inductive effect of sodium alginate in different concentration zones. <i>Polymer</i> , 2019, 160, 107-114.	1.8	19
32	Recent advances in screening aquatic products for <i>Vibrio</i> spp.. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 111, 239-251.	5.8	16
33	Efficient Catalytic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid by Magnetic Laccase Catalyst. <i>ChemBioChem</i> , 2018, 19, 654-659.	1.3	47
34	CotA laccase immobilized on functionalized magnetic graphene oxide nano-sheets for efficient biocatalysis. <i>Molecular Catalysis</i> , 2018, 445, 269-278.	1.0	33
35	Development of a Novel Micro-Aerobic Cultivation Strategy for High Potential CotA Laccase Production. <i>Waste and Biomass Valorization</i> , 2018, 9, 369-377.	1.8	11
36	Improving catalytic activity of laccase immobilized on the branched polymer chains of magnetic nanoparticles under alternating magnetic field. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 88-93.	1.6	13

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37	Enhanced hydrogen and volatile fatty acid production from sweet sorghum stalks by two-steps dark fermentation with dilute acid treatment in between. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 659-666.	3.8	35
38	Farnesol-induced hyperbranched morphology with short hyphae and bulbous tips of <i>Coriolus versicolor</i> . <i>Scientific Reports</i> , 2018, 8, 15213.	1.6	4
39	Artificial Magnetotaxis of Microbot: Magnetophoresis versus Self-Swimming. <i>Langmuir</i> , 2018, 34, 7971-7980.	1.6	25
40	A sensitive aptasensor for the detection of <i>Vibrio parahaemolyticus</i> . <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 550-558.	4.0	43
41	Laccase Production from <i>Trametes versicolor</i> in Solid-State Fermentation of Steam-Exploded Pretreated Cornstalk. <i>Waste and Biomass Valorization</i> , 2017, 8, 153-159.	1.8	47
42	Quorum sensing molecule-farnesol increased the production and biological activities of extracellular polysaccharide from <i>Trametes versicolor</i> . <i>International Journal of Biological Macromolecules</i> , 2017, 104, 377-383.	3.6	18
43	Coproduction of hydrogen and volatile fatty acid via thermophilic fermentation of sweet sorghum stalk from co-culture of <i>Clostridium thermocellum</i> and <i>Clostridium thermosaccharolyticum</i> . <i>International Journal of Hydrogen Energy</i> , 2017, 42, 830-837.	3.8	32
44	Improved production and antitumor activity of intracellular protein-polysaccharide from <i>Trametes versicolor</i> by the quorum sensing molecule-tyrosol. <i>Journal of Functional Foods</i> , 2017, 37, 90-96.	1.6	18
45	Lignin-Enhanced Laccase Production from <i>Trametes versicolor</i> . <i>Waste and Biomass Valorization</i> , 2017, 8, 1061-1066.	1.8	14
46	Scale-up laccase production from <i>Trametes versicolor</i> stimulated by vanillic acid. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 1041-1049.	1.7	17
47	Farnesol stimulates laccase production in <i>Trametes versicolor</i> . <i>Engineering in Life Sciences</i> , 2016, 16, 364-370.	2.0	6
48	Improved performance of immobilized laccase on amine-functionalized magnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticles modified with polyethylenimine. <i>Chemical Engineering Journal</i> , 2016, 295, 201-206.	6.6	127
49	Development of an efficient process intensification strategy for enhancing Pfu DNA polymerase production in recombinant <i>Escherichia coli</i> . <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 651-659.	1.7	13
50	Enhancing the resolution of (R,S)-2-octanol catalyzed by magnetic cross-linked lipase aggregates using an alternating magnetic field. <i>Chemical Engineering Journal</i> , 2015, 280, 36-40.	6.6	28
51	Harvesting microalgae by magnetic separation: A review. <i>Algal Research</i> , 2015, 9, 178-185.	2.4	143
52	Chitosan multiple addition enhances laccase production from <i>Trametes versicolor</i> . <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1973-1981.	1.7	6
53	Novel Magnetic Cross-Linked Lipase Aggregates for Improving the Resolution of (R,S)-2-octanol. <i>Chirality</i> , 2015, 27, 199-204.	1.3	7
54	Identification and Validation of Reference Genes for Quantitative Real-Time PCR Normalization and Its Applications in <i>Lycium</i> . <i>PLoS ONE</i> , 2014, 9, e97039.	1.1	36

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55	Botryococcus braunii cells: Ultrasound-intensified outdoor cultivation integrated with in situ magnetic separation. <i>Bioresource Technology</i> , 2014, 167, 376-382.	4.8	29
56	Development of a mixed solvent system for the efficient resolution of (R, S)-2-octanol catalyzed by magnetite-immobilized lipase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 101, 23-27.	1.8	7
57	Magnetic Flocculant for High Efficiency Harvesting of Microalgal Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 109-115.	4.0	121
58	A magnetic separator for efficient microalgae harvesting. <i>Bioresource Technology</i> , 2014, 158, 388-391.	4.8	42
59	Scale-up cultivation of <i>Chlorella ellipsoidea</i> from indoor to outdoor in bubble column bioreactors. <i>Bioresource Technology</i> , 2014, 156, 117-122.	4.8	48
60	Genotypic variation of cell wall composition and its conversion efficiency in <i>Miscanthus sinensis</i> , a potential biomass feedstock crop in China. <i>GCB Bioenergy</i> , 2014, 6, 768-776.	2.5	34
61	Improvement of microalgae harvesting by magnetic nanocomposites coated with polyethylenimine. <i>Chemical Engineering Journal</i> , 2014, 242, 341-347.	6.6	99
62	Efficient Kinetic Resolution of (R,S)-2-Octanol Catalyzed by Magnetite-Immobilized <i>Yarrowia lipolytica</i> Lipase in Mixed Ionic Liquids. <i>Catalysis Letters</i> , 2014, 144, 1552-1556.	1.4	5
63	Improved Biomass and Hydrocarbon Productivity of <i>Botryococcus braunii</i> by Periodic Ultrasound Stimulation. <i>Bioenergy Research</i> , 2014, 7, 986-992.	2.2	7
64	Enhanced laccase production by <i>Trametes versicolor</i> using corn steep liquor as both nitrogen source and inducer. <i>Bioresource Technology</i> , 2014, 166, 602-605.	4.8	67
65	Low-temperature preincubation enhances survival and regeneration of cryopreserved <i>Saussurea involucreta</i> callus. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2013, 49, 320-325.	0.9	6
66	Ultrasound-intensified laccase production from <i>Trametes versicolor</i> . <i>Ultrasonics Sonochemistry</i> , 2013, 20, 118-124.	3.8	57
67	Changes in endogenous hormones and oxidative burst as the biochemical basis for enhanced shoot organogenesis in cold-treated <i>Saussurea involucreta</i> explants. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 283-287.	1.0	8
68	Efficient harvesting of marine microalgae <i>Nannochloropsis maritima</i> using magnetic nanoparticles. <i>Bioresource Technology</i> , 2013, 138, 387-390.	4.8	161
69	Improved performance of <i>Yarrowia lipolytica</i> lipase-catalyzed kinetic resolution of (R,S)-2-octanol by an integrated strategy of interfacial activation, bioimprinting and immobilization. <i>Bioresource Technology</i> , 2013, 142, 415-419.	4.8	16
70	Algal oil extraction from wet biomass of <i>Botryococcus braunii</i> by 1,2-dimethoxyethane. <i>Applied Energy</i> , 2013, 102, 971-974.	5.1	51
71	Co-culture of <i>Clostridium thermocellum</i> and <i>Clostridium thermosaccharolyticum</i> for enhancing hydrogen production via thermophilic fermentation of cornstalk waste. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10648-10654.	3.8	87
72	Development of a draft-tube airlift bioreactor for <i>Botryococcus braunii</i> with an optimized inner structure using computational fluid dynamics. <i>Bioresource Technology</i> , 2012, 119, 300-305.	4.8	42

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73	Functionalized magnetic mesoporous silica nanoparticles: Fabrication, laccase adsorption performance and direct laccase capture from <i>Trametes versicolor</i> fermentation broth. <i>Bioresource Technology</i> , 2012, 126, 117-122.	4.8	18
74	Thidiazuron enhances shoot organogenesis from leaf explants of <i>Saussurea involucreta</i> Kar. et Kir. In <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2012, 48, 609-612.	0.9	14
75	Heat Shock Treatment Improves <i>Trametes versicolor</i> Laccase Production. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 256-265.	1.4	22
76	Improved algal oil production from <i>Botryococcus braunii</i> by feeding nitrate and phosphate in an airlift bioreactor. <i>Engineering in Life Sciences</i> , 2012, 12, 171-177.	2.0	19
77	Lipase immobilization on ionic liquid-modified magnetic nanoparticles: Ionic liquids controlled esters hydrolysis at oil-water interface. <i>AIChE Journal</i> , 2012, 58, 1203-1211.	1.8	24
78	Ionic liquids for biofuel production: Opportunities and challenges. <i>Applied Energy</i> , 2012, 92, 406-414.	5.1	196
79	Hydrogen Production via Thermophilic Fermentation of Cornstalk by <i>Clostridium thermocellum</i> . <i>Energy &amp; Fuels</i> , 2011, 25, 1714-1720.	2.5	53
80	A simple and rapid harvesting method for microalgae by in situ magnetic separation. <i>Bioresource Technology</i> , 2011, 102, 10047-10051.	4.8	221
81	Microalgal biodiesel in China: Opportunities and challenges. <i>Applied Energy</i> , 2011, 88, 3432-3437.	5.1	48
82	Magnetic mesoporous silica nanoparticles: Fabrication and their laccase immobilization performance. <i>Bioresource Technology</i> , 2010, 101, 8931-8935.	4.8	176
83	Development of an efficient electroflocculation technology integrated with dispersed air flotation for harvesting microalgae. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 1504-1507.	1.6	26
84	Cichoric acid production from hairy root cultures of <i>Echinacea purpurea</i> grown in a modified airlift bioreactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 1697-1701.	1.6	23
85	Biofuels in China: opportunities and challenges. In <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2009, 45, 342-349.	0.9	28
86	Ethanol fermentation in a magnetically fluidized bed reactor with immobilized <i>Saccharomyces cerevisiae</i> in magnetic particles. <i>Bioresource Technology</i> , 2009, 100, 878-882.	4.8	79
87	Microalgal bioreactors: Challenges and opportunities. <i>Engineering in Life Sciences</i> , 2009, 9, 178-189.	2.0	281
88	<i>Saussurea medusa</i> Cell Suspension Cultures for Flavonoid Production. <i>Methods in Molecular Biology</i> , 2009, 547, 53-59.	0.4	11
89	Enhancement of phenylethanoid glycosides biosynthesis in cell cultures of <i>Cistanche deserticola</i> by osmotic stress. <i>Plant Cell Reports</i> , 2008, 27, 357-362.	2.8	35
90	Immobilization of <i>Pycnoporus sanguineus</i> laccase by metal affinity adsorption on magnetic chelator particles. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 97-104.	1.6	92

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91	Microwave-assisted extraction of chlorogenic acid from flower buds of <i>Lonicera japonica</i> Thunb.. Separation and Purification Technology, 2008, 62, 480-483.	3.9	150
92	An effective method for fast determination of artemisinin in <i>Artemisia annua</i> L. by high performance liquid chromatography with evaporative light scattering detection. <i>Analytica Chimica Acta</i> , 2007, 581, 298-302.	2.6	62
93	Fingerprint analysis of <i>Dioscorea nipponica</i> by high-performance liquid chromatography with evaporative light scattering detection. <i>Analytica Chimica Acta</i> , 2007, 582, 61-68.	2.6	51
94	Plant regeneration of <i>Erigeron breviscapus</i> (vant.) Hand. Mazz. and its chromatographic fingerprint analysis for quality control. <i>Plant Cell Reports</i> , 2007, 27, 39-45.	2.8	16
95	Spectral composition of irradiation regulates the cell growth and flavonoids biosynthesis in callus cultures of <i>Saussurea medusa</i> Maxim. <i>Plant Growth Regulation</i> , 2007, 52, 259-263.	1.8	17
96	Echinacea biotechnology: Challenges and opportunities. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2007, 43, 481-492.	0.9	53
97	Caffeic Acid Derivatives Production by Hairy Root Cultures of <i>Echinacea purpurea</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 8456-8460.	2.4	67
98	Dynamic microwave-assisted extraction of flavonoids from <i>Saussurea medusa</i> Maxim cultured cells. <i>Biochemical Engineering Journal</i> , 2006, 32, 79-83.	1.8	90
99	Microwave-assisted extraction of solanesol from tobacco leaves. <i>Journal of Chromatography A</i> , 2006, 1129, 135-139.	1.8	139
100	Plant regeneration from leaf explants of <i>Rhodiola fastigiata</i> . <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2006, 42, 345-347.	0.9	13
101	Artemisinin: current state and perspectives for biotechnological production of an antimalarial drug. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 11-20.	1.7	153
102	Comparison of Techniques for the Extraction of Flavonoids from Cultured Cells of <i>Saussurea medusa</i> Maxim. <i>World Journal of Microbiology and Biotechnology</i> , 2005, 21, 1461-1463.	1.7	57
103	In vitro Culture and Temporary Immersion Bioreactor Production of <i>Crescentia cujete</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2004, 78, 63-68.	1.2	40
104	Factors influencing artemisinin production from shoot cultures of <i>Artemisia annua</i> L.. <i>World Journal of Microbiology and Biotechnology</i> , 2003, 19, 535-538.	1.7	33
105	Development of chitosan-magnetite aggregates containing <i>Nitrosomonas europaea</i> cells for nitrification enhancement. <i>Journal of Bioscience and Bioengineering</i> , 2000, 89, 420-425.	1.1	26