

Jian Dong Cui

List of Publications by Year in descending order

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77
papers

4,111
citations

101384

36
h-index

118652

62
g-index

82
all docs

82
docs citations

82
times ranked

3301
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in multienzymes co-immobilization and multienzyme system applications. <i>Chemical Engineering Journal</i> , 2019, 373, 1254-1278.	6.6	257
2	Production and use of immobilized lipases in/on nanomaterials: A review from the waste to biodiesel production. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 207-222.	3.6	226
3	Optimization protocols and improved strategies of cross-linked enzyme aggregates technology: current development and future challenges. <i>Critical Reviews in Biotechnology</i> , 2015, 35, 15-28.	5.1	212
4	Organic-inorganic hybrid nanoflowers: A novel host platform for immobilizing biomolecules. <i>Coordination Chemistry Reviews</i> , 2017, 352, 249-263.	9.5	194
5	Mesoporous Metal-Organic Framework with Well-Defined Cruciate Flower-Like Morphology for Enzyme Immobilization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10587-10594.	4.0	173
6	Optimization protocols and improved strategies for metal-organic frameworks for immobilizing enzymes: Current development and future challenges. <i>Coordination Chemistry Reviews</i> , 2018, 370, 22-41.	9.5	162
7	Smart chemistry and its application in peroxidase immobilization using different support materials. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 278-290.	3.6	150
8	Metal-organic frameworks with different dimensionalities: An ideal host platform for enzyme@MOF composites. <i>Coordination Chemistry Reviews</i> , 2022, 454, 214327.	9.5	124
9	Surfactant-activated lipase hybrid nanoflowers with enhanced enzymatic performance. <i>Scientific Reports</i> , 2016, 6, 27928.	1.6	103
10	A facile construction of bacterial cellulose/ZnO nanocomposite films and their photocatalytic and antibacterial properties. <i>International Journal of Biological Macromolecules</i> , 2019, 132, 692-700.	3.6	100
11	Shielding effects of Fe ³⁺ -tannic acid nanocoatings for immobilized enzyme on magnetic Fe ₃ O ₄ @silica core shell nanosphere. <i>Chemical Engineering Journal</i> , 2018, 343, 629-637.	6.6	93
12	Silica encapsulated catalase@metal-organic framework composite: A highly stable and recyclable biocatalyst. <i>Chemical Engineering Journal</i> , 2018, 351, 506-514.	6.6	93
13	Hybrid Cross-Linked Lipase Aggregates with Magnetic Nanoparticles: A Robust and Recyclable Biocatalysis for the Epoxidation of Oleic Acid. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 7179-7187.	2.4	89
14	Three-dimensional ordered magnetic macroporous metal-organic frameworks for enzyme immobilization. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 436-445.	5.0	89
15	Co-immobilization multienzyme nanoreactor with co-factor regeneration for conversion of CO ₂ . <i>International Journal of Biological Macromolecules</i> , 2020, 155, 110-118.	3.6	82
16	Biotechnological production and applications of <i>Cordyceps militaris</i> , a valued traditional Chinese medicine. <i>Critical Reviews in Biotechnology</i> , 2015, 35, 475-484.	5.1	78
17	The antimicrobial effects and mechanism of $\hat{\mu}$ -poly-lysine against <i>Staphylococcus aureus</i> . <i>Bioresources and Bioprocessing</i> , 2019, 6, .	2.0	78
18	Enhanced enzymatic performance of immobilized lipase on metal organic frameworks with superhydrophobic coating for biodiesel production. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 426-436.	5.0	78

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19	Tailoring enzyme microenvironment: State-of-the-art strategy to fulfill the quest for efficient bio-catalysis. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 186-196.	3.6	76
20	Cross-Linked Enzyme Aggregates of Phenylalanine Ammonia Lyase: Novel Biocatalysts for Synthesis of L-Phenylalanine. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 835-844.	1.4	69
21	Self-assembly of activated lipase hybrid nanoflowers with superior activity and enhanced stability. <i>Biochemical Engineering Journal</i> , 2020, 158, 107582.	1.8	67
22	Activated magnetic lipase-inorganic hybrid nanoflowers: A highly active and recyclable nanobiocatalyst for biodiesel production. <i>Renewable Energy</i> , 2021, 171, 825-832.	4.3	67
23	Hierarchical micro- and mesoporous ZIF-8 with core-shell superstructures using colloidal metal sulfates as soft templates for enzyme immobilization. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 709-718.	5.0	64
24	Environmental impact of lignocellulosic wastes and their effective exploitation as smart carriers drive towards greener and eco-friendlier biocatalytic systems. <i>Science of the Total Environment</i> , 2020, 722, 137903.	3.9	62
25	Immobilized carbonic anhydrase on mesoporous cruciate flower-like metal organic framework for promoting CO ₂ sequestration. <i>International Journal of Biological Macromolecules</i> , 2018, 117, 189-198.	3.6	61
26	Biodegradation of polyvinyl alcohol using cross-linked enzyme aggregates of degrading enzymes from <i>Bacillus niacini</i> . <i>International Journal of Biological Macromolecules</i> , 2019, 124, 10-16.	3.6	58
27	Carbonic Anhydrase@ZIF-8 Hydrogel Composite Membrane with Improved Recycling and Stability for Efficient CO ₂ Capture. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 3372-3379.	2.4	54
28	Enzymes@ZIF-8 Nanocomposites with Protection Nanocoating: Stability and Acid-Resistant Evaluation. <i>Polymers</i> , 2019, 11, 27.	2.0	52
29	Harnessing the biocatalytic attributes and applied perspectives of nanoengineered laccases: A review. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 352-373.	3.6	52
30	Biotechnological production and applications of microbial phenylalanine ammonia lyase: a recent review. <i>Critical Reviews in Biotechnology</i> , 2014, 34, 258-268.	5.1	49
31	Hybrid Magnetic Cross-Linked Enzyme Aggregates of Phenylalanine Ammonia Lyase from <i>Rhodotorula glutinis</i> . <i>PLoS ONE</i> , 2014, 9, e97221.	1.1	49
32	A Simple Technique of Preparing Stable CLEAs of Phenylalanine Ammonia Lyase Using Co-aggregation with Starch and Bovine Serum Albumin. <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 1827-1837.	1.4	47
33	Bimetal based inorganic-carbonic anhydrase hybrid hydrogel membrane for CO ₂ capture. <i>Journal of CO₂ Utilization</i> , 2020, 39, 101171.	3.3	42
34	Enzyme shielding by mesoporous organosilica shell on Fe ₃ O ₄ @silica yolk-shell nanospheres. <i>International Journal of Biological Macromolecules</i> , 2018, 117, 673-682.	3.6	41
35	Encapsulation of Spherical Cross-Linked Phenylalanine Ammonia Lyase Aggregates in Mesoporous Biosilica. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 618-625.	2.4	40
36	Biopolymers and nanostructured materials to develop pectinases-based immobilized nano-biocatalytic systems for biotechnological applications. <i>Food Research International</i> , 2021, 140, 109979.	2.9	38

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37	Effects of $\hat{\mu}$ -Poly-L-lysine on the cell wall of <i>Saccharomyces cerevisiae</i> and its involved antimicrobial mechanism. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 2230-2236.	3.6	37
38	Design and bio-applications of biological metal-organic frameworks. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1949-1964.	1.2	36
39	Preparation of spherical cross-linked lipase aggregates with improved activity, stability and reusability characteristic in water-in-ionic liquid microemulsion. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 1785-1793.	1.6	35
40	Combination of multi-enzyme expression fine-tuning and co-substrates addition improves phenyllactic acid production with an <i>Escherichia coli</i> whole-cell biocatalyst. <i>Bioresource Technology</i> , 2019, 287, 121423.	4.8	32
41	A facile technique to prepare cross-linked enzyme aggregates of bovine pancreatic lipase using bovine serum albumin as an additive. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 610-615.	1.2	30
42	Acid-resistant enzyme@MOF nanocomposites with mesoporous silica shells for enzymatic applications in acidic environments. <i>Journal of Biotechnology</i> , 2019, 306, 54-61.	1.9	30
43	Mesoporous phenylalanine ammonia lyase microspheres with improved stability through calcium carbonate templating. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 887-896.	3.6	29
44	Efficient Immobilization of Enzymes on Amino Functionalized MIL-125-NH ₂ Metal Organic Framework. <i>Biotechnology and Bioprocess Engineering</i> , 2022, 27, 135-144.	1.4	29
45	Production of L-phenylalanine from trans-cinnamic acids by high-level expression of phenylalanine ammonia lyase gene from <i>Rhodospiridium toruloides</i> in <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , 2008, 42, 193-197.	1.8	28
46	Comparison of culture methods on exopolysaccharide production in the submerged culture of <i>Cordyceps militaris</i> and process optimization. <i>Letters in Applied Microbiology</i> , 2011, 52, 123-128.	1.0	28
47	Mesoporous CLEAs-silica composite microparticles with high activity and enhanced stability. <i>Scientific Reports</i> , 2015, 5, 14203.	1.6	26
48	Paper-based biosensor based on phenylalanine ammonia lyase hybrid nanoflowers for urinary phenylalanine measurement. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 601-610.	3.6	26
49	Evaluation of Metal Ions and Surfactants Effect on Cell Growth and Exopolysaccharide Production in Two-Stage Submerged Culture of <i>Cordyceps militaris</i> . <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 1394-1404.	1.4	25
50	Immobilization of Cross-Linked Phenylalanine Ammonia Lyase Aggregates in Microporous Silica Gel. <i>PLoS ONE</i> , 2013, 8, e80581.	1.1	25
51	Simple Technique for Preparing Stable and Recyclable Cross-Linked Enzyme Aggregates with Crude-Pored Microspherical Silica Core. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16176-16182.	1.8	24
52	Nanostructured materials as a host matrix to develop robust peroxidases-based nanobiocatalytic systems. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1906-1923.	3.6	24
53	Glutamate Oxidase-Integrated Biomimetic Metal-Organic Framework Hybrids as Cascade Nanozymes for Ultrasensitive Glutamate Detection. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 3785-3794.	2.4	22
54	Production of Extracellular Water-Insoluble Polysaccharide from <i>Pseudomonas sp.</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 4865-4871.	2.4	21

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55	Enzyme Shielding in a Large Mesoporous Hollow Silica Shell for Improved Recycling and Stability Based on CaCO ₃ Microtemplates and Biomimetic Silicification. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 3883-3890.	2.4	21
56	Optimization of medium for phenylalanine ammonia lyase production in <i>E. coli</i> using response surface methodology. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 174-178.	1.2	20
57	Bienzyme Magnetic Nanobiocatalyst with Fe ³⁺ Tannic Acid Film for One-Pot Starch Hydrolysis. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 8753-8760.	2.4	20
58	Optimization of medium on exopolysaccharides production in submerged culture of <i>Cordyceps militaris</i> . <i>Food Science and Biotechnology</i> , 2010, 19, 1567-1571.	1.2	19
59	Magnetic mesoporous enzyme-silica composites with high activity and enhanced stability. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1905-1913.	1.6	19
60	Modeling and Optimization of Phenylalanine Ammonia Lyase Stabilization in Recombinant <i>Escherichia coli</i> for the Continuous Synthesis of L-Phenylalanine on the Statistical-Based Experimental Designs. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 2795-2800.	2.4	17
61	Stabilization of Phenylalanine Ammonia Lyase from <i>Rhodotorula glutinis</i> by Encapsulation in Polyethyleneimine-Mediated Biomimetic Silica. <i>Applied Biochemistry and Biotechnology</i> , 2015, 176, 999-1011.	1.4	17
62	Influence of amino acids, organic solvents and surfactants for phenylalanine ammonia lyase activity in recombinant <i>Escherichia coli</i> . <i>Letters in Applied Microbiology</i> , 2008, 46, 631-635.	1.0	16
63	Expanding the Biocatalytic Scope of Enzyme-Loaded Polymeric Hydrogels. <i>Gels</i> , 2021, 7, 194.	2.1	15
64	Enhancement of Phenylalanine Ammonia Lyase Production from <i>Rhodotorula Mucilaginosa</i> by Optimization of Culture Conditions in Batch and Fed-Batch. <i>Biotechnology and Biotechnological Equipment</i> , 2012, 26, 3418-3423.	0.5	10
65	Improved biodegradation of polyvinyl alcohol by hybrid nanoflowers of degrading enzymes from <i>Bacillus niacini</i> . <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1020-1028.	1.2	10
66	Antifungal mechanisms of $\hat{\mu}$ -poly-L-Lysine with different molecular weights on <i>Saccharomyces cerevisiae</i> . <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 482-492.	1.2	9
67	Optimal culture condition for the production of phenylalanine ammonia lyase from <i>E. coli</i> . <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 444-448.	1.2	8
68	Silica@lipase hybrid biocatalysts with superior activity by mimetic biomineralization in oil/water two-phase system for hydrolysis of soybean oil. <i>LWT - Food Science and Technology</i> , 2022, 160, 113333.	2.5	6
69	Biodegradable packaging films with $\hat{\mu}$ -polylysine/ZIF-L composites. <i>LWT - Food Science and Technology</i> , 2022, 166, 113776.	2.5	5
70	One step separation of <i>Aureobasidium pullulans</i> from $\hat{\mu}$ -poly(L-malic acid) fermentation broth by membranes technology. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 845-853.	1.6	4
71	Metabolomic Analysis of Biosynthesis Mechanism of $\hat{\mu}$ -Polylysine Produced by <i>Streptomyces diastatochromogenes</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 698022.	2.0	4
72	Production of hydrocortisone by <i>Absidia coerulea</i> in moderate pressure bioconversion system. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 1084-1089.	1.2	2

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73	Isolation and preliminary identification of a novel microorganism producing aspartame from soil samples. <i>Food Science and Biotechnology</i> , 2010, 19, 367-371.	1.2	2
74	Optimization of Culture Conditions on Mycelial Grown in Submerged Culture of <i>Cordyceps militaris</i> . <i>International Journal of Food Engineering</i> , 2011, 7, .	0.7	2
75	Effects of moderate pressure on permeability and viability of <i>Saccharomyces cerevisiae</i> cells. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 731-735.	1.2	0
76	10.2478/s11814-009-0180-0. , 2011, 26, 1084.		0
77	Editorial: Enzyme Biocatalysts: Design and Application. <i>Frontiers in Chemistry</i> , 2022, 10, 851857.	1.8	0