

Jian Dong Cui

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

2,474
citations

28
h-index

47
g-index

82
ext. papers

3,210
ext. citations

6.3
avg, IF

5.92
L-index

#	Paper	IF	Citations
76	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	9.4	168
75	Recent progress in multienzymes co-immobilization and multienzyme system applications. <i>Chemical Engineering Journal</i> , 2019 , 373, 1254-1278	14.7	163
74	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	7.9	135
73	Mesoporous Metal-Organic Framework with Well-Defined Cruciate Flower-Like Morphology for Enzyme Immobilization. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10587-10594	9.5	122
72	Organic-Inorganic hybrid nanoflowers: A novel host platform for immobilizing biomolecules. <i>Coordination Chemistry Reviews</i> , 2017 , 352, 249-263	23.2	121
71	"Smart" chemistry and its application in peroxidase immobilization using different support materials. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 278-290	7.9	111
70	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	23.2	110
69	Surfactant-activated lipase hybrid nanoflowers with enhanced enzymatic performance. <i>Scientific Reports</i> , 2016 , 6, 27928	4.9	69
68	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	7.9	62
67	Cross-linked enzyme aggregates of phenylalanine ammonia lyase: novel biocatalysts for synthesis of L-phenylalanine. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 167, 835-44	3.2	59
66	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, 7179-87	5.7	59
65	Silica encapsulated catalase@metal-organic framework composite: A highly stable and recyclable biocatalyst. <i>Chemical Engineering Journal</i> , 2018 , 351, 506-514	14.7	54
64	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	14.7	53
63	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	7.9	51
62	Biotechnological production and applications of <i>Cordyceps militaris</i> , a valued traditional Chinese medicine. <i>Critical Reviews in Biotechnology</i> , 2015 , 35, 475-84	9.4	50
61	Co-immobilization multienzyme nanoreactor with co-factor regeneration for conversion of CO. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 110-118	7.9	43
60	Immobilized carbonic anhydrase on mesoporous cruciate flower-like metal organic framework for promoting CO sequestration. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 189-198	7.9	41

59	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, 1827-37	3.2	40
58	Hybrid magnetic cross-linked enzyme aggregates of phenylalanine ammonia lyase from <i>Rhodotorula glutinis</i> . <i>PLoS ONE</i> , 2014 , 9, e97221	3.7	40
57	Biotechnological production and applications of microbial phenylalanine ammonia lyase: a recent review. <i>Critical Reviews in Biotechnology</i> , 2014 , 34, 258-68	9.4	39
56	Environmental impact of lignocellulosic wastes and their effective exploitation as smart carriers - A drive towards greener and eco-friendlier biocatalytic systems. <i>Science of the Total Environment</i> , 2020 , 722, 137903	10.2	38
55	The antimicrobial effects and mechanism of ϵ -poly-lysine against <i>Staphylococcus aureus</i> . <i>Bioresources and Bioprocessing</i> , 2019 , 6,	5.2	36
54	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	7.9	35
53	Self-assembly of activated lipase hybrid nanoflowers with superior activity and enhanced stability. <i>Biochemical Engineering Journal</i> , 2020 , 158, 107582	4.2	31
52	Carbonic Anhydrase@ZIF-8 Hydrogel Composite Membrane with Improved Recycling and Stability for Efficient CO Capture. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 3372-3379	5.7	31
51	Enzyme shielding by mesoporous organosilica shell on FeO@silica yolk-shell nanospheres. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 673-682	7.9	31
50	Enzymes@ZIF-8 Nanocomposites with Protection Nanocoating: Stability and Acid-Resistant Evaluation. <i>Polymers</i> , 2018 , 11,	4.5	29
49	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	4.2	28
48	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	3.5	27
47	Encapsulation of Spherical Cross-Linked Phenylalanine Ammonia Lyase Aggregates in Mesoporous Biosilica. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 618-625	5.7	26
46	Three-dimensional ordered magnetic macroporous metal-organic frameworks for enzyme immobilization. <i>Journal of Colloid and Interface Science</i> , 2021 , 590, 436-445	9.3	25
45	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	2.8	24
44	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, 123-8	2.9	24
43	Effects of ϵ -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	7.9	23
42	Mesoporous phenylalanine ammonia lyase microspheres with improved stability through calcium carbonate templating. <i>International Journal of Biological Macromolecules</i> , 2017 , 98, 887-896	7.9	22

41	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	3.9	22
40	Harnessing the biocatalytic attributes and applied perspectives of nanoengineered laccases-A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 166, 352-373	7.9	21
39	Combination of multi-enzyme expression fine-tuning and co-substrates addition improves phenyllactic acid production with an Escherichia coli whole-cell biocatalyst. <i>Bioresource Technology</i> , 2019 , 287, 121423	11	20
38	Immobilization of cross-linked phenylalanine ammonia lyase aggregates in microporous silica gel. <i>PLoS ONE</i> , 2013 , 8, e80581	3.7	20
37	Bimetal based inorganic-carbonic anhydrase hybrid hydrogel membrane for CO2 capture. <i>Journal of CO2 Utilization</i> , 2020 , 39, 101171	7.6	20
36	Mesoporous CLEAs-silica composite microparticles with high activity and enhanced stability. <i>Scientific Reports</i> , 2015 , 5, 14203	4.9	19
35	Production of extracellular water-insoluble polysaccharide from Pseudomonas sp. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 4865-71	5.7	19
34	Evaluation of metal ions and surfactants effect on cell growth and exopolysaccharide production in two-stage submerged culture of Cordyceps militaris. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 168, 1394-404	3.2	19
33	Optimization of medium for phenylalanine ammonia lyase production in E. coli using response surface methodology. <i>Korean Journal of Chemical Engineering</i> , 2010 , 27, 174-178	2.8	19
32	Activated magnetic lipase-inorganic hybrid nanoflowers: A highly active and recyclable nanobiocatalyst for biodiesel production. <i>Renewable Energy</i> , 2021 , 171, 825-832	8.1	19
31	Design and bio-applications of biological metal-organic frameworks. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 1949-1964	2.8	19
30	Biopolymers and nanostructured materials to develop pectinases-based immobilized nano-biocatalytic systems for biotechnological applications. <i>Food Research International</i> , 2021 , 140, 109979	7.7	18
29	Magnetic mesoporous enzyme@silica composites with high activity and enhanced stability. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 1905-1913	3.5	17
28	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	9.3	17
27	Acid-resistant enzyme@MOF nanocomposites with mesoporous silica shells for enzymatic applications in acidic environments. <i>Journal of Biotechnology</i> , 2019 , 306, 54-61	3.7	16
26	Modeling and optimization of phenylalanine ammonia lyase stabilization in recombinant Escherichia coli for the continuous synthesis of l-phenylalanine on the statistical-based experimental designs. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 2795-800	5.7	16
25	Nanostructured materials as a host matrix to develop robust peroxidases-based nanobiocatalytic systems. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 1906-1923	7.9	16
24	Optimization of medium on exopolysaccharides production in submerged culture of Cordyceps militaris. <i>Food Science and Biotechnology</i> , 2010 , 19, 1567-1571	3	15

23	Influence of amino acids, organic solvents and surfactants for phenylalanine ammonia lyase activity in recombinant Escherichia coli. <i>Letters in Applied Microbiology</i> , 2008 , 46, 631-5	2.9	15
22	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	5.7	14
21	Stabilization of Phenylalanine Ammonia Lyase from Rhodotorula glutinis by Encapsulation in Polyethyleneimine-Mediated Biomimetic Silica. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 176, 999-1011	3.2	14
20	Metal-organic frameworks with different dimensionalities: An ideal host platform for enzyme@MOF composites. <i>Coordination Chemistry Reviews</i> , 2021 , 454, 214327	23.2	11
19	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	7.9	11
18	Bienzyme Magnetic Nanobiocatalyst with Fe-Tannic Acid Film for One-Pot Starch Hydrolysis. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 8753-8760	5.7	9
17	Optimal culture condition for the production of phenylalanine ammonia lyase from E. coli. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 444-448	2.8	8
16	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> , 2021 ,	9.3	8
15	Enhancement of Phenylalanine Ammonia Lyase Production from Rhodotorula Mucilaginosa by Optimization of Culture Conditions in Batch and Fed-Batch. <i>Biotechnology and Biotechnological Equipment</i> , 2012 , 26, 3418-3423	1.6	6
14	Improved biodegradation of polyvinyl alcohol by hybrid nanoflowers of degrading enzymes from Bacillus niacini. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 1020-1028	2.8	4
13	Efficient Immobilization of Enzymes on Amino Functionalized MIL-125-NH ₂ Metal Organic Framework. <i>Biotechnology and Bioprocess Engineering</i> , 2022 , 27, 135	3.1	3
12	Antifungal mechanisms of Poly-L-Lysine with different molecular weights on Saccharomyces cerevisiae. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 482-492	2.8	2
11	One step separation of Aureobasidium pullulans from Poly(L-malic acid) fermentation broth by membranes technology. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 845-853	3.5	2
10	Optimization of Culture Conditions on Mycelial Grown in Submerged Culture of Cordyceps militaris. <i>International Journal of Food Engineering</i> , 2011 , 7,	1.9	2
9	Metabolomic Analysis of Biosynthesis Mechanism of Polylysine Produced by. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 698022	5.8	2
8	Production of hydrocortisone by Absidia coerulea in moderate pressure bioconversion system. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 1084-1089	2.8	1
7	Isolation and preliminary identification of a novel microorganism producing aspartame from soil samples. <i>Food Science and Biotechnology</i> , 2010 , 19, 367-371	3	1
6	Expanding the Biocatalytic Scope of Enzyme-Loaded Polymeric Hydrogels. <i>Gels</i> , 2021 , 7,	4.2	1

- 5 Preparation and Characterization of Cross-Linked Enzyme Aggregates of Amyloglucosidase. *Lecture Notes in Electrical Engineering*, **2014**, 1399-1406 0.2 1
- 4 Silica@lipase hybrid biocatalysts with superior activity by mimetic biomineralization in oil/water two-phase system for hydrolysis of soybean oil. *LWT - Food Science and Technology*, **2022**, 160, 113333 5.4 1
- 3 Effects of moderate pressure on permeability and viability of *Saccharomyces cerevisiae* cells. *Korean Journal of Chemical Engineering*, **2009**, 26, 731-735 2.8
- 2 Imprinted Cross-Linked Enzyme Aggregate (iCLEA) of Phenylalanine Ammonia Lyase: A New Stable Biocatalyst. *Lecture Notes in Electrical Engineering*, **2015**, 223-231 0.2
- 1 Production of hydrocortisone by *Absidia coerulea* in moderate pressure bioconversion system **2011**, 26, 1084