Jian Dong Cui

List of Publications by Year in Descending Order

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	Efficient Immobilization of Enzymes on Amino Functionalized MIL-125-NH2 Metal Organic Framework. *Biotechnology and Bioprocess Engineering*, **2022**, 27, 135	3.1	3
75	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
74	Expanding the Biocatalytic Scope of Enzyme-Loaded Polymeric Hydrogels. *Gels*, **2021**, 7,	4.2	1
73	Hierarchical micro- and mesoporous ZIF-8 with core-shell superstructures using colloidal metal sulfates as soft templates for enzyme immobilization. *Journal of Colloid and Interface Science*, **2021**,	9.3	8
72	Metal-organic frameworks with different dimensionalities: An ideal host platform for enzyme@MOF composites. *Coordination Chemistry Reviews*, **2021**, 454, 214327	23.2	11
71	Three-dimensional ordered magnetic macroporous metal-organic frameworks for enzyme immobilization. *Journal of Colloid and Interface Science*, **2021**, 590, 436-445	9.3	25
70	Activated magnetic lipase-inorganic hybrid nanoflowers: A highly active and recyclable nanobiocatalyst for biodiesel production. *Renewable Energy*, **2021**, 171, 825-832	8.1	19
69	Metabolomic Analysis of Biosynthesis Mechanism of ε-Polylysine Produced by. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 698022	5.8	2
68	Paper-based biosensor based on phenylalnine ammonia lyase hybrid nanoflowers for urinary phenylalanine measurement. *International Journal of Biological Macromolecules*, **2021**, 166, 601-610	7.9	11
67	Biopolymers and nanostructured materials to develop pectinases-based immobilized nano-biocatalytic systems for biotechnological applications. *Food Research International*, **2021**, 140, 109979	7	18
66	Harnessing the biocatalytic attributes and applied perspectives of nanoengineered laccases-A review. *International Journal of Biological Macromolecules*, **2021**, 166, 352-373	7.9	21
65	Enhanced enzymatic performance of immobilized lipase on metal organic frameworks with superhydrophobic coating for biodiesel production. *Journal of Colloid and Interface Science*, **2021**, 602, 426-436	9.3	17
64	Improved biodegradation of polyvinyl alcohol by hybrid nanoflowers of degrading enzymes from Bacillus niacini. *Korean Journal of Chemical Engineering*, **2020**, 37, 1020-1028	2.8	4
63	Production and use of immobilized lipases in/on nanomaterials: A review from the waste to biodiesel production. *International Journal of Biological Macromolecules*, **2020**, 152, 207-222	7.9	135
62	Antifungal mechanisms of ε-poly-L-Lysine with different molecular weights on Saccharomyces cerevisiae. *Korean Journal of Chemical Engineering*, **2020**, 37, 482-492	2.8	2
61	Co-immobilization multienzyme nanoreactor with co-factor regeneration for conversion of CO. *International Journal of Biological Macromolecules*, **2020**, 155, 110-118	7.9	43
60	Environmental impact of lignocellulosic wastes and their effective exploitation as smart carriers - A drive towards greener and eco-friendlier biocatalytic systems. *Science of the Total Environment*, **2020**, 722, 137903	10.2	38

59	Self-assembly of activated lipase hybrid nanoflowers with superior activity and enhanced stability. *Biochemical Engineering Journal*, **2020**, 158, 107582	4.2	31
58	Nanostructured materials as a host matrix to develop robust peroxidases-based nanobiocatalytic systems. *International Journal of Biological Macromolecules*, **2020**, 162, 1906-1923	7.9	16
57	Bimetal based inorganic-carbonic anhydrase hybrid hydrogel membrane for CO2 capture. *Journal of CO2 Utilization*, **2020**, 39, 101171	7.6	20
56	The antimicrobial effects and mechanism of ε-poly-lysine against Staphylococcus aureus. *Bioresources and Bioprocessing*, **2019**, 6,	5.2	36
55	Acid-resistant enzyme@MOF nanocomposites with mesoporous silica shells for enzymatic applications in acidic environments. *Journal of Biotechnology*, **2019**, 306, 54-61	3.7	16
54	Recent progress in multienzymes co-immobilization and multienzyme system applications. *Chemical Engineering Journal*, **2019**, 373, 1254-1278	14.7	163
53	Combination of multi-enzyme expression fine-tuning and co-substrates addition improves phenyllactic acid production with an Escherichia coli whole-cell biocatalyst. *Bioresource Technology*, **2019**, 287, 121423	11	20
52	A facile construction of bacterial cellulose/ZnO nanocomposite films and their photocatalytic and antibacterial properties. *International Journal of Biological Macromolecules*, **2019**, 132, 692-700	7.9	62
51	Tailoring enzyme microenvironment: State-of-the-art strategy to fulfill the quest for efficient bio-catalysis. *International Journal of Biological Macromolecules*, **2019**, 130, 186-196	7.9	51
50	Carbonic Anhydrase@ZIF-8 Hydrogel Composite Membrane with Improved Recycling and Stability for Efficient CO Capture. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 3372-3379	5.7	31
49	Design and bio-applications of biological metal-organic frameworks. *Korean Journal of Chemical Engineering*, **2019**, 36, 1949-1964	2.8	19
48	Biodegradation of polyvinyl alcohol using cross-linked enzyme aggregates of degrading enzymes from Bacillus niacini. *International Journal of Biological Macromolecules*, **2019**, 124, 10-16	7.9	35
47	Shielding effects of Fe3+-tannic acid nanocoatings for immobilized enzyme on magnetic Fe3O4@silica core shell nanosphere. *Chemical Engineering Journal*, **2018**, 343, 629-637	14.7	53
46	Silica encapsulated catalase@metal-organic framework composite: A highly stable and recyclable biocatalyst. *Chemical Engineering Journal*, **2018**, 351, 506-514	14.7	54
45	Bienzyme Magnetic Nanobiocatalyst with Fe-Tannic Acid Film for One-Pot Starch Hydrolysis. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 8753-8760	5.7	9
44	Effects of ε-Poly-l-lysine on the cell wall of Saccharomyces cerevisiae and its involved antimicrobial mechanism. *International Journal of Biological Macromolecules*, **2018**, 118, 2230-2236	7.9	23
43	"Smart" chemistry and its application in peroxidase immobilization using different support materials. *International Journal of Biological Macromolecules*, **2018**, 119, 278-290	7.9	111
42	Enzymes@ZIF-8 Nanocomposites with Protection Nanocoating: Stability and Acid-Resistant Evaluation. *Polymers*, **2018**, 11,	4.5	29

41	Optimization protocols and improved strategies for metal-organic frameworks for immobilizing enzymes: Current development and future challenges. *Coordination Chemistry Reviews*, **2018**, 370, 22-41	23.2	110
40	Immobilized carbonic anhydrase on mesoporous cruciate flower-like metal organic framework for promoting CO sequestration. *International Journal of Biological Macromolecules*, **2018**, 117, 189-198	7.9	41
39	Enzyme shielding by mesoporous organosilica shell on FeO@silica yolk-shell nanospheres. *International Journal of Biological Macromolecules*, **2018**, 117, 673-682	7.9	31
38	Mesoporous phenylalanine ammonia lyase microspheres with improved stability through calcium carbonate templating. *International Journal of Biological Macromolecules*, **2017**, 98, 887-896	7.9	22
37	Mesoporous Metal-Organic Framework with Well-Defined Cruciate Flower-Like Morphology for Enzyme Immobilization. *ACS Applied Materials & Interfaces*, **2017**, 9, 10587-10594	9.5	122
36	Enzyme Shielding in a Large Mesoporous Hollow Silica Shell for Improved Recycling and Stability Based on CaCO Microtemplates and Biomimetic Silicification. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 3883-3890	5.7	14
35	Preparation of spherical cross-linked lipase aggregates with improved activity, stability and reusability characteristic in water-in-ionic liquid microemulsion. *Journal of Chemical Technology and Biotechnology*, **2017**, 92, 1785-1793	3.5	27
34	Encapsulation of Spherical Cross-Linked Phenylalanine Ammonia Lyase Aggregates in Mesoporous Biosilica. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 618-625	5.7	26
33	Organic□inorganic hybrid nanoflowers: A novel host platform for immobilizing biomolecules. *Coordination Chemistry Reviews*, **2017**, 352, 249-263	23.2	121
32	One step separation of Aureobasidium pullulans from □poly(L-malic acid) fermentation broth by membranes technology. *Journal of Chemical Technology and Biotechnology*, **2017**, 92, 845-853	3.5	2
31	Surfactant-activated lipase hybrid nanoflowers with enhanced enzymatic performance. *Scientific Reports*, **2016**, 6, 27928	4.9	69
30	A facile technique to prepare cross-linked enzyme aggregates of bovine pancreatic lipase using bovine serum albumin as an additive. *Korean Journal of Chemical Engineering*, **2016**, 33, 610-615	2.8	24
29	Magnetic mesoporous enzyme□silica composites with high activity and enhanced stability. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 1905-1913	3.5	17
28	Hybrid Cross-Linked Lipase Aggregates with Magnetic Nanoparticles: A Robust and Recyclable Biocatalysis for the Epoxidation of Oleic Acid. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 7179-87	5.7	59
27	Stabilization of Phenylalanine Ammonia Lyase from Rhodotorula glutinis by Encapsulation in Polyethyleneimine-Mediated Biomimetic Silica. *Applied Biochemistry and Biotechnology*, **2015**, 176, 999-1011	3.2	14
26	Optimization protocols and improved strategies of cross-linked enzyme aggregates technology: current development and future challenges. *Critical Reviews in Biotechnology*, **2015**, 35, 15-28	9.4	168
25	Biotechnological production and applications of Cordyceps militaris, a valued traditional Chinese medicine. *Critical Reviews in Biotechnology*, **2015**, 35, 475-84	9.4	50
24	Mesoporous CLEAs-silica composite microparticles with high activity and enhanced stability. *Scientific Reports*, **2015**, 5, 14203	4.9	19

23	Imprinted Cross-Linked Enzyme Aggregate (iCLEA) of Phenylalanine Ammonia Lyase: A New Stable Biocatalyst. *Lecture Notes in Electrical Engineering*, **2015**, 223-231	0.2	
22	Simple Technique for Preparing Stable and Recyclable Cross-Linked Enzyme Aggregates with Crude-Pored Microspherical Silica Core. *Industrial & Engineering Chemistry Research*, **2014**, 53, 16176-16182	3.9	22
21	Biotechnological production and applications of microbial phenylalanine ammonia lyase: a recent review. *Critical Reviews in Biotechnology*, **2014**, 34, 258-68	9.4	39
20	Hybrid magnetic cross-linked enzyme aggregates of phenylalanine ammonia lyase from Rhodotorula glutinis. *PLoS ONE*, **2014**, 9, e97221	3.7	40
19	Preparation and Characterization of Cross-Linked Enzyme Aggregates of Amyloglucosidase. *Lecture Notes in Electrical Engineering*, **2014**, 1399-1406	0.2	1
18	A simple technique of preparing stable CLEAs of phenylalanine ammonia lyase using co-aggregation with starch and bovine serum albumin. *Applied Biochemistry and Biotechnology*, **2013**, 170, 1827-37	3.2	40
17	Immobilization of cross-linked phenylalanine ammonia lyase aggregates in microporous silica gel. *PLoS ONE*, **2013**, 8, e80581	3.7	20
16	Production of extracellular water-insoluble polysaccharide from Pseudomonas sp. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 4865-71	5.7	19
15	Evaluation of metal ions and surfactants effect on cell growth and exopolysaccharide production in two-stage submerged culture of Cordyceps militaris. *Applied Biochemistry and Biotechnology*, **2012**, 168, 1394-404	3.2	19
14	Cross-linked enzyme aggregates of phenylalanine ammonia lyase: novel biocatalysts for synthesis of L-phenylalanine. *Applied Biochemistry and Biotechnology*, **2012**, 167, 835-44	3.2	59
13	Enhancement of Phenylalanine Ammonia Lyase Production from Rhodotorula Mucilaginosa by Optimization of Culture Conditions in Batch and Fed-Batch. *Biotechnology and Biotechnological Equipment*, **2012**, 26, 3418-3423	1.6	6
12	Comparison of culture methods on exopolysaccharide production in the submerged culture of Cordyceps militaris and process optimization. *Letters in Applied Microbiology*, **2011**, 52, 123-8	2.9	24
11	Optimization of Culture Conditions on Mycelial Grown in Submerged Culture of Cordyceps militaris. *International Journal of Food Engineering*, **2011**, 7,	1.9	2
10	Production of hydrocortisone by Absidia coerulea in moderate pressure bioconversion system **2011** , 26, 1084		
9	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. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 2795-800	5.7	16
8	Isolation and preliminary identification of a novel microorganism producing aspartame from soil samples. *Food Science and Biotechnology*, **2010**, 19, 367-371	3	1
7	Optimization of medium on exopolysaccharides production in submerged culture of Cordyceps militaris. *Food Science and Biotechnology*, **2010**, 19, 1567-1571	3	15
6	Optimization of medium for phenylalanine ammonia lyase production in E. coli using response surface methodology. *Korean Journal of Chemical Engineering*, **2010**, 27, 174-178	2.8	19

5	Optimal culture condition for the production of phenyalanine ammonia lyase from E. coli. *Korean Journal of Chemical Engineering*, **2009**, 26, 444-448	2.8	8
4	Effects of moderate pressure on premeability and viability of Saccharomyces cerevisiae cells. *Korean Journal of Chemical Engineering*, **2009**, 26, 731-735	2.8	
3	Production of hydrocortisone by Absidia coerulea in moderate pressure bioconversion system. *Korean Journal of Chemical Engineering*, **2009**, 26, 1084-1089	2.8	1
2	Influence of amino acids, organic solvents and surfactants for phenylalanine ammonia lyase activity in recombinant Escherichia coli. *Letters in Applied Microbiology*, **2008**, 46, 631-5	2.9	15
1	Production of l-phenylalanine from trans-cinnamic acids by high-level expression of phenylalanine ammonia lyase gene from Rhodosporidium toruloides in Escherichia coli. *Biochemical Engineering Journal*, **2008**, 42, 193-197	4.2	28