

# Fernando LÃ³pez-gallego

## List of Publications by Year in descending order

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200  
papers

7,197  
citations

43741

48  
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70222

77  
g-index

216  
all docs

216  
docs citations

216  
times ranked

10891  
citing authors

#	ARTICLE	IF	CITATIONS
1	Different mechanisms of protein immobilization on glutaraldehyde activated supports: Effect of support activation and immobilization conditions. <i>Enzyme and Microbial Technology</i> , 2006, 39, 877-882.	3.3	366
2	Glyoxyl agarose: A fully inert and hydrophilic support for immobilization and high stabilization of proteins. <i>Enzyme and Microbial Technology</i> , 2006, 39, 274-280.	3.3	351
3	Enzyme stabilization by glutaraldehyde crosslinking of adsorbed proteins on aminated supports. <i>Journal of Biotechnology</i> , 2005, 119, 70-75.	3.9	261
4	Epoxy-Amino Groups: A New Tool for Improved Immobilization of Proteins by the Epoxy Method. <i>Biomacromolecules</i> , 2003, 4, 772-777.	5.6	235
5	Multi-enzymatic synthesis. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 174-183.	6.4	193
6	Co-immobilized Phosphorylated Cofactors and Enzymes as Self-sufficient Heterogeneous Biocatalysts for Chemical Processes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 771-775.	14.8	170
7	Diversity of sesquiterpene synthases in the basidiomycete <i>Coprinus cinereus</i> . <i>Molecular Microbiology</i> , 2009, 72, 1181-1195.	2.5	155
8	Draft Genome of <i>Omphalotus olearius</i> Provides a Predictive Framework for Sesquiterpenoid Natural Product Biosynthesis in Basidiomycota. <i>Chemistry and Biology</i> , 2012, 19, 772-783.	6.2	153
9	Identification of Sesquiterpene Synthases from <i>Nostoc punctiforme</i> PCC 73102 and <i>Nostoc</i> sp. Strain PCC 7120. <i>Journal of Bacteriology</i> , 2008, 190, 6084-6096.	2.4	140
10	Rational Co-immobilization of Bi-enzyme Cascades on Porous Supports and their Applications in Bio-Redox Reactions with In-situ Recycling of Soluble Cofactors. <i>ChemCatChem</i> , 2012, 4, 1279-1288.	3.8	129
11	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . <i>European Physical Journal C</i> , 2013, 73, 1.	4.0	125
12	A roadmap for biocatalysis – functional and spatial orchestration of enzyme cascades. <i>Microbial Biotechnology</i> , 2016, 9, 601-609.	4.3	117
13	Improved stabilization of chemically aminated enzymes via multipoint covalent attachment on glyoxyl supports. <i>Journal of Biotechnology</i> , 2005, 116, 1-10.	3.9	115
14	Dextran aldehyde coating of glucose oxidase immobilized on magnetic nanoparticles prevents its inactivation by gas bubbles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 32, 97-101.	1.7	107
15	Solid-Phase Chemical Amination of a Lipase from <i>Bacillus thermocatenuatus</i> To Improve Its Stabilization via Covalent Immobilization on Highly Activated Glyoxyl-Agarose. <i>Biomacromolecules</i> , 2008, 9, 2553-2561.	5.6	98
16	Co-aggregation of Enzymes and Polyethyleneimine: A Simple Method To Prepare Stable and Immobilized Derivatives of Glutaryl Acylase. <i>Biomacromolecules</i> , 2005, 6, 1839-1842.	5.6	97
17	Self-Sufficient Flow-Biocatalysis by Coimmobilization of Pyridoxal 5'-Phosphate and $\alpha$ -Transaminases onto Porous Carriers. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13151-13159.	6.9	83
18	Sesquiterpene Synthases Cop4 and Cop6 from <i>Coprinus cinereus</i> : Catalytic Promiscuity and Cyclization of Farnesyl Pyrophosphate Geometric Isomers. <i>ChemBioChem</i> , 2010, 11, 1093-1106.	2.8	81

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19	Preparation of a very stable immobilized biocatalyst of glucose oxidase from <i>Aspergillus niger</i> . <i>Journal of Biotechnology</i> , 2006, 121, 284-289.	3.9	78
20	Prevention of interfacial inactivation of enzymes by coating the enzyme surface with dextran-aldehyde. <i>Journal of Biotechnology</i> , 2004, 110, 201-207.	3.9	71
21	Cross-linked enzyme aggregates (CLEA) in enzyme improvement â€“ a review. <i>Biocatalysis</i> , 2016, 1, .	2.5	71
22	Characterization and evaluation of immobilized enzymes for applications in flow reactors. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 25, 100349.	6.3	70
23	Preparation of a robust biocatalyst of d-amino acid oxidase on sephabeads supports using the glutaraldehyde crosslinking method. <i>Enzyme and Microbial Technology</i> , 2005, 37, 750-756.	3.3	69
24	Bioorthogonal Catalytic Activation of Platinum and Ruthenium Anticancer Complexes by FAD and Flavoproteins. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3143-3147.	14.8	69
25	Oxidation of phenolic compounds catalyzed by immobilized multi-enzyme systems with integrated hydrogen peroxide production. <i>Green Chemistry</i> , 2014, 16, 303-311.	9.4	66
26	Advances and opportunities for the design of self-sufficient and spatially organized cell-free biocatalytic systems. <i>Current Opinion in Chemical Biology</i> , 2019, 49, 97-104.	6.4	66
27	Asymmetric Reduction of Prochiral Ketones by Using Selfâ€“sufficient Heterogeneous Biocatalysts Based on NADPHâ€“dependent Ketoreductases. <i>Chemistry - A European Journal</i> , 2017, 23, 16843-16852.	3.9	65
28	Modulation of the distribution of small proteins within porous matrixes by smart-control of the immobilization rate. <i>Journal of Biotechnology</i> , 2011, 155, 412-420.	3.9	64
29	Riboflavin as a bioorthogonal photocatalyst for the activation of a Pt<sup>IV</sup> prodrug. <i>Chemical Science</i> , 2017, 8, 4619-4625.	7.8	64
30	Use of Physicochemical Tools to Determine the Choice of Optimal Enzyme: Stabilization of -Amino Acid Oxidase. <i>Biotechnology Progress</i> , 2003, 19, 784-788.	2.6	63
31	Selective biomineralization of Co<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>-sponges triggered by His-tagged proteins: efficient heterogeneous biocatalysts for redox processes. <i>Chemical Communications</i> , 2015, 51, 8753-8756.	4.2	63
32	Temperature-modulated differential scanning calorimetry studies on the origin of double melting peaks in isothermally melt-crystallized poly(L-lactic acid). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 466-474.	2.4	62
33	Immobilization and stabilization of glutaryl acylase on aminated sephabeads supports by the glutaraldehyde crosslinking method. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 35, 57-61.	1.7	59
34	Glyoxyl agarose as a new chromatographic matrix. <i>Enzyme and Microbial Technology</i> , 2006, 38, 960-966.	3.3	58
35	Ecopipam, a D1 receptor antagonist, for treatment of tourette syndrome in children: A randomized, placeboâ€“controlled crossover study. <i>Movement Disorders</i> , 2018, 33, 1272-1280.	4.3	58
36	Optimized compatible set of BioBrickâ„¢ vectors for metabolic pathway engineering. <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 1275-1286.	3.7	57

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37	Understanding the functional properties of bio-inorganic nanoflowers as biocatalysts by deciphering the metal-binding sites of enzymes. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4478-4486.	5.9	57
38	Promotion of multipoint covalent immobilization through different regions of genetically modified penicillin G acylase from <i>E. coli</i> . <i>Process Biochemistry</i> , 2010, 45, 390-398.	3.8	55
39	Carrier-Free Immobilization of Lipase from <i>Candida rugosa</i> with Polyethyleneimines by Carboxyl-Activated Cross-Linking. <i>Biomacromolecules</i> , 2014, 15, 1896-1903.	5.6	55
40	Immobilization of Proteins on Highly Activated Glyoxyl Supports: Dramatic Increase of the Enzyme Stability & Multipoint Immobilization on Pre-existing Carriers. <i>Current Organic Chemistry</i> , 2015, 19, 1719-1731.	1.6	55
41	Selectivity of Fungal Sesquiterpene Synthases: Role of the Active Site's H-1 Loop in Catalysis. <i>Applied and Environmental Microbiology</i> , 2010, 76, 7723-7733.	3.2	54
42	Modulating the properties of the lipase from <i>Thermomyces lanuginosus</i> immobilized on octyl agarose beads by altering the immobilization conditions. <i>Enzyme and Microbial Technology</i> , 2020, 133, 109461.	3.3	54
43	One-Pot Conversion of Cephalosporin C to 7-Aminocephalosporanic Acid in the Absence of Hydrogen Peroxide. <i>Advanced Synthesis and Catalysis</i> , 2005, 347, 1804-1810.	4.5	52
44	Effect of high salt concentrations on the stability of immobilized lipases: Dramatic deleterious effects of phosphate anions. <i>Process Biochemistry</i> , 2017, 62, 128-134.	3.8	52
45	Design of an immobilized preparation of catalase from <i>Thermus thermophilus</i> to be used in a wide range of conditions. <i>Enzyme and Microbial Technology</i> , 2003, 33, 278-285.	3.3	51
46	Advantages of the Pre-Immobilization of Enzymes on Porous Supports for Their Entrapment in Sol-Gels. <i>Biomacromolecules</i> , 2005, 6, 1027-1030.	5.6	51
47	Selective oxidation of glycerol to 1,3-dihydroxyacetone by covalently immobilized glycerol dehydrogenases with higher stability and lower product inhibition. <i>Bioresource Technology</i> , 2014, 170, 445-453.	9.7	49
48	The presence of thiolated compounds allows the immobilization of enzymes on glyoxyl agarose at mild pH values: New strategies of stabilization by multipoint covalent attachment. <i>Enzyme and Microbial Technology</i> , 2009, 45, 477-483.	3.3	47
49	New biotechnological perspectives of a NADH oxidase variant from <i>Thermus thermophilus</i> HB27 as NAD <sup>+</sup> -recycling enzyme. <i>BMC Biotechnology</i> , 2011, 11, 101.	3.4	47
50	Chemical Modification of Protein Surfaces To Improve Their Reversible Enzyme Immobilization on Ionic Exchangers. <i>Biomacromolecules</i> , 2006, 7, 3052-3058.	5.6	46
51	Genetic Modification of the Penicillin G Acylase Surface To Improve Its Reversible Immobilization on Ionic Exchangers. <i>Applied and Environmental Microbiology</i> , 2007, 73, 312-319.	3.2	42
52	Glyoxyl-Disulfide Agarose: A Tailor-Made Support for Site-Directed Rigidification of Proteins. <i>Biomacromolecules</i> , 2011, 12, 1800-1809.	5.6	42
53	Heterogeneous Systems Biocatalysis: The Path to the Fabrication of Self-Sufficient Artificial Metabolic Cells. <i>Chemistry - A European Journal</i> , 2017, 23, 17841-17849.	3.9	42
54	Wiring step-wise reactions with immobilized multi-enzyme systems. <i>Biocatalysis and Biotransformation</i> , 2018, 36, 184-194.	2.1	42

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55	Selective Magnetic Nanoheating: Combining Iron Oxide Nanoparticles for Multi-Hot-Spot Induction and Sequential Regulation. <i>Nano Letters</i> , 2021, 21, 7213-7220.	9.5	42
56	Characterization and further stabilization of a new anti-prelog specific alcohol dehydrogenase from <i>Thermus thermophilus</i> HB27 for asymmetric reduction of carbonyl compounds. <i>Bioresource Technology</i> , 2012, 103, 343-350.	9.7	41
57	The Science of Enzyme Immobilization. <i>Methods in Molecular Biology</i> , 2020, 2100, 1-26.	0.0	41
58	Improved Stabilization of Genetically Modified Penicillin G Acylase in the Presence of Organic Cosolvents by Co- Immobilization of the Enzyme with Polyethyleneimine. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 459-464.	4.5	39
59	Sociodemographic determinants of intraurban variations in COVID-19 incidence: the case of Barcelona. <i>Journal of Epidemiology and Community Health</i> , 2022, 76, 1-7.	3.9	39
60	Stabilization of Enzymes by Multipoint Covalent Immobilization on Supports Activated with Glyoxyl Groups. <i>Methods in Molecular Biology</i> , 2013, 1051, 59-71.	0.0	38
61	Expanding One-Pot Cell-Free Protein Synthesis and Immobilization for On-Demand Manufacturing of Biomaterials. <i>ACS Synthetic Biology</i> , 2018, 7, 875-884.	4.0	38
62	Increasing the binding strength of proteins to PEI coated supports by immobilizing at high ionic strength. <i>Enzyme and Microbial Technology</i> , 2005, 37, 295-299.	3.3	37
63	Co-immobilization and Colocalization of Multi-Enzyme Systems for the Cell-Free Biosynthesis of Aminoalcohols. <i>ChemCatChem</i> , 2020, 12, 3030-3041.	3.8	35
64	Enzyme-support interactions and inactivation conditions determine <i>Thermomyces lanuginosus</i> lipase inactivation pathways: Functional and fluorescence studies. <i>International Journal of Biological Macromolecules</i> , 2021, 191, 79-91.	7.7	34
65	Intraparticle Kinetics Unveil Crowding and Enzyme Distribution Effects on the Performance of Cofactor-Dependent Heterogeneous Biocatalysts. <i>ACS Catalysis</i> , 2021, 11, 15051-15067.	11.7	34
66	Oriented covalent immobilization of antibodies onto heterofunctional agarose supports: A highly efficient immuno-affinity chromatography platform. <i>Journal of Chromatography A</i> , 2012, 1262, 56-63.	3.8	29
67	Glutaraldehyde-Mediated Protein Immobilization. <i>Methods in Molecular Biology</i> , 2013, 1051, 33-41.	0.0	29
68	Design of the Enzyme-Carrier Interface to Overcome the O <sub>2</sub> and NADH Mass Transfer Limitations of an Immobilized Flavin Oxidase. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 56027-56038.	8.3	28
69	The Heart Failure Association Atlas: rationale, objectives, and methods. <i>European Journal of Heart Failure</i> , 2020, 22, 638-645.	7.5	28
70	DESIGN of Sustainable One-Pot Chemoenzymatic Organic Transformations in Deep Eutectic Solvents for the Synthesis of 1,2-Disubstituted Aromatic Olefins. <i>Frontiers in Chemistry</i> , 2020, 8, 139.	3.7	27
71	Heterobimetallic Cooperation Mediates the Transformation of White Phosphorus into Zwitterionic <i>catena</i> -Phosphonium(+)diphosphenide(âˆ”) Ligands. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3766-3768.	14.8	26
72	Tailor-made design of penicillin G acylase surface enables its site-directed immobilization and stabilization onto commercial mono-functional epoxy supports. <i>Process Biochemistry</i> , 2012, 47, 2538-2541.	3.8	26

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73	Sustainable and Continuous Synthesis of Enantiopure $\alpha$ -Amino Acids by Using a Versatile Immobilised Multienzyme System. <i>ChemBioChem</i> , 2018, 19, 395-403.	2.8	26
74	Bioorthogonal Catalytic Activation of Platinum and Ruthenium Anticancer Complexes by FAD and Flavoproteins. <i>Angewandte Chemie</i> , 2018, 130, 3197-3201.	2.1	25
75	Evaluation of Different Glutaryl Acylase Mutants to Improve the Hydrolysis of Cephalosporin C in the Absence of Hydrogen Peroxide. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 343-348.	4.5	24
76	Reversible Immobilization of Glutaryl Acylase on Sepabeads Coated with Polyethyleneimine. <i>Biotechnology Progress</i> , 2008, 20, 533-536.	2.6	24
77	Efficient nitrogen-13 radiochemistry catalyzed by a highly stable immobilized biocatalyst. <i>Catalysis Science and Technology</i> , 2015, 5, 2705-2713.	4.2	24
78	Immobilizing Systems Biocatalysis for the Selective Oxidation of Glycerol Coupled to In Situ Cofactor Recycling and Hydrogen Peroxide Elimination. <i>ChemCatChem</i> , 2015, 7, 1939-1947.	3.8	24
79	Chemoenzymatic Approaches to the Synthesis of the Calcimimetic Agent Cinacalcet Employing Transaminases and Ketoreductases. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 2157-2165.	4.5	24
80	Immobilization Screening and Characterization of an Alcohol Dehydrogenase and its Application to the Multi-Enzymatic Selective Oxidation of 1, $\omega$ -Diols. <i>Frontiers in Catalysis</i> , 2021, 1, .	4.0	24
81	Tangent space RRT: A randomized planning algorithm on constraint manifolds. , 2011, , .		23
82	Single-Particle Studies to Advance the Characterization of Heterogeneous Biocatalysts. <i>ChemCatChem</i> , 2018, 10, 654-665.	3.8	23
83	Mechanistic studies of a lipase unveil effect of pH on hydrolysis products of small PET modules. <i>Nature Communications</i> , 2023, 14, .	13.2	23
84	Optical Control of Enzyme Enantioselectivity in Solid Phase. <i>ACS Catalysis</i> , 2014, 4, 1004-1009.	11.7	22
85	One-Step Synthesis of $\alpha$ -Keto Acids from Racemic Amino Acids by A Versatile Immobilized Multienzyme Cell-free System. <i>ChemCatChem</i> , 2018, 10, 3002-3011.	3.8	22
86	Altering the Interfacial Activation Mechanism of a Lipase by Solid-Phase Selective Chemical Modification. <i>Biochemistry</i> , 2012, 51, 7028-7036.	2.6	21
87	Improving enantioselectivity of lipase from <i>Candida rugosa</i> by carrier-bound and carrier-free immobilization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 130, 32-39.	1.7	21
88	Imidazole-Grafted Nanogels for the Fabrication of Organic-Inorganic Protein Hybrids. <i>Advanced Functional Materials</i> , 2018, 28, 1803115.	16.5	21
89	Mechanistic Insights into the Light-Driven Catalysis of an Immobilized Lipase on Plasmonic Nanomaterials. <i>ACS Catalysis</i> , 2021, 11, 414-423.	11.7	21
90	Self-sufficient asymmetric reduction of $\beta$ -ketoesters catalysed by a novel and robust thermophilic alcohol dehydrogenase co-immobilised with NADH. <i>Catalysis Science and Technology</i> , 2021, 11, 3217-3230.	4.2	21

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91	Directed, Strong, and Reversible Immobilization of Proteins Tagged with a $\hat{I}^2$ -Trefoil Lectin Domain: A Simple Method to Immobilize Biomolecules on Plain Agarose Matrixes. <i>Bioconjugate Chemistry</i> , 2012, 23, 565-573.	3.8	20
92	Carrier-bound and carrier-free immobilization of type A feruloyl esterase from <i>Aspergillus niger</i> : Searching for an operationally stable heterogeneous biocatalyst for the synthesis of butyl hydroxycinnamates. <i>Journal of Biotechnology</i> , 2020, 316, 6-16.	3.9	20
93	Functionalization of Porous Cellulose with Glyoxyl Groups as a Carrier for Enzyme Immobilization and Stabilization. <i>Biomacromolecules</i> , 2021, 22, 927-937.	5.6	20
94	Engineered repeat proteins as scaffolds to assemble multi-enzyme systems for efficient cell-free biosynthesis. <i>Nature Communications</i> , 2023, 14, .	13.2	20
95	Implications for the origins of Eoarchean ultramafic rocks of the North Atlantic Craton: a study of the Tussaap Ultramafic complex, Itsaq Gneiss complex, southern West Greenland. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	19
96	Enhancing PLP-Binding Capacity of Class-III $\hat{I}^{\circ}$ -Transaminase by Single Residue Substitution. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 282.	4.2	19
97	Understanding the Formation and Evolution of Oxide Inclusions in Si-Deoxidized Spring Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 1862-1877.	2.2	19
98	Glutaraldehyde in Protein Immobilization. <i>Methods in Biotechnology</i> , 2006, , 57-64.	0.0	18
99	Stabilization by multipoint covalent attachment of a biocatalyst with polygalacturonase activity used for juice clarification. <i>Food Chemistry</i> , 2016, 208, 252-257.	8.4	18
100	Two-Photon Fluorescence Anisotropy Imaging to Elucidate the Dynamics and the Stability of Immobilized Proteins. <i>Journal of Physical Chemistry B</i> , 2016, 120, 485-491.	2.7	18
101	Co $\hat{I}$ -immobilized Phosphorylated Cofactors and Enzymes as Self $\hat{I}$ -sufficient Heterogeneous Biocatalysts for Chemical Processes. <i>Angewandte Chemie</i> , 2017, 129, 789-793.	2.1	17
102	Influence of nano-silica and sodium silicate on the strength characteristics of clay soil. <i>Nanotechnology for Environmental Engineering</i> , 2021, 6, 1.	3.5	17
103	Efficient Enzymatic Preparation of $\langle \sup \rangle 13 \langle /sup \rangle$ $\hat{I}$ -labelled Amino Acids: Towards Multipurpose Synthetic Systems. <i>Chemistry - A European Journal</i> , 2016, 22, 13619-13626.	3.9	16
104	Survival of <i>Campylobacter jejuni</i> in Selected Gaseous Environments. <i>Journal of Food Science</i> , 1986, 51, 652-654.	3.2	15
105	Preparation of an immobilized $\hat{I}$ -stabilized catalase derivative from <i>Aspergillus niger</i> having its multimeric structure stabilized: The effect of $Zn^{2+}$ on enzyme stability. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 55, 142-145.	1.7	15
106	Reactivation of a thermostable lipase by solid phase unfolding/refolding. <i>Enzyme and Microbial Technology</i> , 2011, 49, 388-394.	3.3	15
107	Stabilization of $\hat{I}^{\circ}$ -transaminase from <i>Pseudomonas fluorescens</i> by immobilization techniques. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 4318-4328.	7.7	14
108	Solid-Phase Assembly of Multienzyme Systems into Artificial Cellulosomes. <i>Bioconjugate Chemistry</i> , 2021, 32, 1966-1972.	3.8	14

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109	Selective Coimmobilization of His-Tagged Enzymes on Yttrium-Stabilized Zirconia-Based Membranes for Continuous Asymmetric Bioreductions. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 4285-4296.	8.3	14
110	Some properties of Civil cheese: a type of traditional Turkish cheese. <i>International Journal of Dairy Technology</i> , 2010, 63, 575-580.	2.7	13
111	Development of a high efficient biocatalyst by oriented covalent immobilization of a novel recombinant 22- N -deoxyribosyltransferase from <i>Lactobacillus animalis</i> . <i>Journal of Biotechnology</i> , 2018, 270, 39-43.	3.9	13
112	Chitosan-based CLEAs from <i>Aspergillus niger</i> type A feruloyl esterase: high-productivity biocatalyst for alkyl ferulate synthesis. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 10033-10045.	3.7	13
113	Multi-Point Covalent Immobilization of Enzymes on Glyoxyl Agarose with Minimal Physico-Chemical Modification: Stabilization of Industrial Enzymes. <i>Methods in Molecular Biology</i> , 2020, 2100, 93-107.	0.0	13
114	A versatile photoactivatable probe designed to label the diphosphate binding site of farnesyl diphosphate utilizing enzymes. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 4797-4805.	3.1	12
115	Engineering the Substrate Specificity of a Thermophilic Penicillin Acylase from <i>Thermus thermophilus</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 1555-1562.	3.2	12
116	Gastrointestinal endoscopy in patients aged 75years and older: risks, complications, and findingsa retrospective study. <i>International Journal of Colorectal Disease</i> , 2015, 30, 363-366.	2.3	12
117	One-pot biotransformation of glycerol into serinol catalysed by biocatalytic composites made of whole cells and immobilised enzymes. <i>Green Chemistry</i> , 2021, 23, 1140-1146.	9.4	12
118	Deconvoluting the Directed Evolution Pathway of Engineered Acyltransferase LovD. <i>ChemCatChem</i> , 2022, 14, e202101349.	3.8	12
119	Structural, kinetic and operational characterization of an immobilized l -aminoacid dehydrogenase. <i>Process Biochemistry</i> , 2017, 57, 80-86.	3.8	11
120	Endocrine regulation of migratory departure from stopover: Evidence from a longitudinal migratory restlessness study on northern wheatears. <i>Hormones and Behavior</i> , 2018, 99, 9-13.	2.1	11
121	Biocatalytic ProteinBased Materials for Integration into Energy Devices. <i>ChemBioChem</i> , 2019, 20, 1977-1985.	2.8	11
122	Light-Driven Catalytic Regulation of Enzymes at the Interface with Plasmonic Nanomaterials. <i>Biochemistry</i> , 2021, 60, 991-998.	2.6	11
123	Immobilization and Stabilization of an Engineered Acyltransferase for the Continuous Biosynthesis of Simvastatin in Packed-Bed Reactors. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9899-9910.	6.9	11
124	Multienzyme Coimmobilization on Triheterofunctional Supports. <i>Biomacromolecules</i> , 2023, 24, 929-942.	5.6	11
125	Biosynthesis of an antiviral compound using a stabilized phosphopentomutase by multipoint covalent immobilization. <i>Journal of Biotechnology</i> , 2017, 249, 34-41.	3.9	10
126	Engineering Erg10 Thiolase from <i>Saccharomyces cerevisiae</i> as a Synthetic Toolkit for the Production of Branched-Chain Alcohols. <i>Biochemistry</i> , 2018, 57, 1338-1348.	2.6	10



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127	Deciphering the Effect of Microbead Size Distribution on the Kinetics of Heterogeneous Biocatalysts through Single-Particle Analysis Based on Fluorescence Microscopy. <i>Catalysts</i> , 2019, 9, 896.	3.6	10
128	On-pot and cell-free biocatalysis using coimmobilized enzymes on advanced materials. <i>Methods in Enzymology</i> , 2019, 617, 385-411.	1.7	10
129	Cell-Free Biosynthesis of $\alpha$ -Hydroxy Acids Boosted by a Synergistic Combination of Alcohol Dehydrogenases. <i>ChemSusChem</i> , 2022, 15, .	7.5	10
130	Asymmetric hydrolysis of dimethyl phenylmalonate by immobilized penicillin G acylase from <i>E. coli</i> . <i>Enzyme and Microbial Technology</i> , 2007, 40, 997-1000.	3.3	9
131	Force spectroscopy predicts thermal stability of immobilized proteins by measuring microbead mechanics. <i>Soft Matter</i> , 2016, 12, 8718-8725.	2.8	9
132	Understanding the silica-based sol-gel encapsulation mechanism of <i>Thermomyces lanuginosus</i> lipase: The role of polyethylenimine. <i>Molecular Catalysis</i> , 2018, 449, 106-113.	2.1	9
133	Achievement of glycaemic control is associated with improvements in lipid profile with iGlarLixi versus iGlar: A post hoc analysis of the LixiLan trial. <i>Diabetes, Obesity and Metabolism</i> , 2019, 21, 2712-2717.	4.5	9
134	Selective oxidation of alkyl and aryl glyceryl monoethers catalysed by an engineered and immobilised glycerol dehydrogenase. <i>Chemical Science</i> , 2020, 11, 12009-12020.	7.8	9
135	Approaches for the enzymatic synthesis of alkyl hydroxycinnamates and applications thereof. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3901-3917.	3.7	9
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