Fernando LÃ³pez-Gallego

List of Publications by Year
in descending order

153 papers	6,707 citations	47006 47 h-index	71685 76 g-index
159 all docs	159 docs citations	159 times ranked	5673 citing authors

#	Article	IF	Citations
1	Different mechanisms of protein immobilization on glutaraldehyde activated supports: Effect of support activation and immobilization conditions. Enzyme and Microbial Technology, 2006, 39, 877-882.	3.2	361
2	Glyoxyl agarose: A fully inert and hydrophilic support for immobilization and high stabilization of proteins. Enzyme and Microbial Technology, 2006, 39, 274-280.	3.2	347
3	Immobilization of enzymes on heterofunctional epoxy supports. Nature Protocols, 2007, 2, 1022-1033.	12.0	269
4	Enzyme stabilization by glutaraldehyde crosslinking of adsorbed proteins on aminated supports. Journal of Biotechnology, 2005, 119, 70-75.	3.8	259
5	Epoxy-Amino Groups:Â A New Tool for Improved Immobilization of Proteins by the Epoxy Method. Biomacromolecules, 2003, 4, 772-777.	5.4	234
6	Advances in the design of new epoxy supports for enzyme immobilizationâ€“stabilization. Biochemical Society Transactions, 2007, 35, 1593-1601.	3.4	188
7	Multi-enzymatic synthesis. Current Opinion in Chemical Biology, 2010, 14, 174-183.	6.1	188
8	Coâ€immobilized Phosphorylated Cofactors and Enzymes as Selfâ€Sufficient Heterogeneous Biocatalysts for Chemical Processes. Angewandte Chemie - International Edition, 2017, 56, 771-775.	13.8	159
9	Diversity of sesquiterpene synthases in the basidiomycete Coprinus cinereus. Molecular Microbiology, 2009, 72, 1181-1195.	2.5	154
10	Draft Genome of Omphalotus olearius Provides a Predictive Framework for Sesquiterpenoid Natural Product Biosynthesis in Basidiomycota. Chemistry and Biology, 2012, 19, 772-783.	6.0	150
11	Identification of Sesquiterpene Synthases fromNostoc punctiformePCC 73102 andNostocsp. Strain PCC 7120. Journal of Bacteriology, 2008, 190, 6084-6096.	2.2	140
12	Rational Coâ€Immobilization of Biâ€Enzyme Cascades on Porous Supports and their Applications in Bioâ€Redox Reactions with Inâ€…Situ Recycling of Soluble Cofactors. ChemCatChem, 2012, 4, 1279-1288.	3.7	123
13	A roadmap for biocatalysis â€“ functional and spatial orchestration of enzyme cascades. Microbial Biotechnology, 2016, 9, 601-609.	4.2	115
14	Improved stabilization of chemically aminated enzymes via multipoint covalent attachment on glyoxyl supports. Journal of Biotechnology, 2005, 116, 1-10.	3.8	114
15	Dextran aldehyde coating of glucose oxidase immobilized on magnetic nanoparticles prevents its inactivation by gas bubbles. Journal of Molecular Catalysis B: Enzymatic, 2005, 32, 97-101.	1.8	106
16	Solid-Phase Chemical Amination of a Lipase from Bacillus thermocatenulatus To Improve Its Stabilization via Covalent Immobilization on Highly Activated Glyoxyl-Agarose. Biomacromolecules, 2008, 9, 2553-2561.	5.4	98
17	Co-aggregation of Enzymes and Polyethyleneimine:Â A Simple Method To Prepare Stable and Immobilized Derivatives of Glutaryl Acylase. Biomacromolecules, 2005, 6, 1839-1842.	5.4	96
18	Self-Sufficient Flow-Biocatalysis by Coimmobilization of Pyridoxal 5â€²-Phosphate and Ï‰-Transaminases onto Porous Carriers. ACS Sustainable Chemistry and Engineering, 2018, 6, 13151-13159.	6.7	80

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19	Sesquiterpene Synthases Cop4 and Cop6 from Coprinus cinereus: Catalytic Promiscuity and Cyclization of Farnesyl Pyrophosphate Geometric Isomers. ChemBioChem, 2010, 11, 1093-1106.	2.6	79
20	Preparation of a very stable immobilized biocatalyst of glucose oxidase from Aspergillus niger. Journal of Biotechnology, 2006, 121, 284-289.	3.8	78
21	Preparation of a robust biocatalyst of d-amino acid oxidase on sepabeads supports using the glutaraldehyde crosslinking method. Enzyme and Microbial Technology, 2005, 37, 750-756.	3.2	69
22	Prevention of interfacial inactivation of enzymes by coating the enzyme surface with dextran-aldehyde. Journal of Biotechnology, 2004, 110, 201-207.	3.8	68
23	Cross-linked enzyme aggregates (CLEA) in enzyme improvement â€“ a review. Biocatalysis, 2016, 1, .	2.3	68
24	Bioorthogonal Catalytic Activation of Platinum and Ruthenium Anticancer Complexes by FAD and Flavoproteins. Angewandte Chemie - International Edition, 2018, 57, 3143-3147.	13.8	68
25	Stabilization of different alcohol oxidases via immobilization and post immobilization techniques. Enzyme and Microbial Technology, 2007, 40, 278-284.	3.2	66
26	Oxidation of phenolic compounds catalyzed by immobilized multi-enzyme systems with integrated hydrogen peroxide production. Green Chemistry, 2014, 16, 303-311.	9.0	66
27	Advances and opportunities for the design of self-sufficient and spatially organized cell-free biocatalytic systems. Current Opinion in Chemical Biology, 2019, 49, 97-104.	6.1	65
28	Use of Physicochemical Tools to Determine the Choice of Optimal Enzyme: Stabilization of -Amino Acid Oxidase. Biotechnology Progress, 2003, 19, 784-788.	2.6	63
29	Riboflavin as a bioorthogonal photocatalyst for the activation of a Pt^{IV} prodrug. Chemical Science, 2017, 8, 4619-4625.	7.4	63
30	Modulation of the distribution of small proteins within porous matrixes by smart-control of the immobilization rate. Journal of Biotechnology, 2011, 155, 412-420.	3.8	61
31	Asymmetric Reduction of Prochiral Ketones by Using Selfâ€Sufficient Heterogeneous Biocatalysts Based on NADPHâ€Dependent Ketoreductases. Chemistry - A European Journal, 2017, 23, 16843-16852.	3.3	61
32	Characterization and evaluation of immobilized enzymes for applications in flow reactors. Current Opinion in Green and Sustainable Chemistry, 2020, 25, 100349.	5.9	61
33	Immobilization and stabilization of glutaryl acylase on aminated sepabeads supports by the glutaraldehyde crosslinking method. Journal of Molecular Catalysis B: Enzymatic, 2005, 35, 57-61.	1.8	59
34	Selective biomineralization of Co₃(PO₄)₂-sponges triggered by His-tagged proteins: efficient heterogeneous biocatalysts for redox processes. Chemical Communications, 2015, 51, 8753-8756.	4.1	59
35	Glyoxyl agarose as a new chromatographic matrix. Enzyme and Microbial Technology, 2006, 38, 960-966.	3.2	56
36	Optimized compatible set of BioBrickâ„¢ vectors for metabolic pathway engineering. Applied Microbiology and Biotechnology, 2011, 92, 1275-1286.	3.6	56

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37	Promotion of multipoint covalent immobilization through different regions of genetically modified penicillin G acylase from E. coli. Process Biochemistry, 2010, 45, 390-398.	3.7	55
38	Understanding the functional properties of bio-inorganic nanoflowers as biocatalysts by deciphering the metal-binding sites of enzymes. Journal of Materials Chemistry B, 2017, 5, 4478-4486.	5.8	55
39	Carrier-Free Immobilization of Lipase from Candida rugosa with Polyethyleneimines by Carboxyl-Activated Cross-Linking. Biomacromolecules, 2014, 15, 1896-1903.	5.4	54
40	Immobilization of Proteins on Highly Activated Glyoxyl Supports: Dramatic Increase of the Enzyme Stability <i>via</i> Multipoint Immobilization on Pre-existing Carriers. Current Organic Chemistry, 2015, 19, 1719-1731.	1.6	54
41	One-Pot Conversion of Cephalosporin C to 7-Aminocephalosporanic Acid in the Absence of Hydrogen Peroxide. Advanced Synthesis and Catalysis, 2005, 347, 1804-1810.	4.3	52
42	Advantages of the Pre-Immobilization of Enzymes on Porous Supports for Their Entrapment in Solâ^'Gels. Biomacromolecules, 2005, 6, 1027-1030.	5.4	51
43	Selectivity of Fungal Sesquiterpene Synthases: Role of the Active Site's H-1Î± Loop in Catalysis. Applied and Environmental Microbiology, 2010, 76, 7723-7733.	3.1	51
44	Design of an immobilized preparation of catalase from Thermus thermophilus to be used in a wide range of conditions.. Enzyme and Microbial Technology, 2003, 33, 278-285.	3.2	50
45	Effect of high salt concentrations on the stability of immobilized lipases: Dramatic deleterious effects of phosphate anions. Process Biochemistry, 2017, 62, 128-134.	3.7	50
46	Modulating the properties of the lipase from Thermomyces lanuginosus immobilized on octyl agarose beads by altering the immobilization conditions. Enzyme and Microbial Technology, 2020, 133, 109461.	3.2	49
47	Optimization of an industrial biocatalyst of glutaryl acylase: Stabilization of the enzyme by multipoint covalent attachment onto new amino-epoxy Sepabeads. Journal of Biotechnology, 2004, 111, 219-227.	3.8	48
48	Selective oxidation of glycerol to 1,3-dihydroxyacetone by covalently immobilized glycerol dehydrogenases with higher stability and lower product inhibition. Bioresource Technology, 2014, 170, 445-453.	9.6	47
49	Chemical Modification of Protein Surfaces To Improve Their Reversible Enzyme Immobilization on Ionic Exchangers. Biomacromolecules, 2006, 7, 3052-3058.	5.4	46
50	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. Enzyme and Microbial Technology, 2009, 45, 477-483.	3.2	46
51	New biotechnological perspectives of a NADH oxidase variant from Thermus thermophilus HB27 as NAD+-recycling enzyme. BMC Biotechnology, 2011, 11, 101.	3.3	45
52	Genetic Modification of the Penicillin G Acylase Surface To Improve Its Reversible Immobilization on Ionic Exchangers. Applied and Environmental Microbiology, 2007, 73, 312-319.	3.1	41
53	Glyoxyl-Disulfide Agarose: A Tailor-Made Support for Site-Directed Rigidification of Proteins. Biomacromolecules, 2011, 12, 1800-1809.	5.4	41
54	Characterization and further stabilization of a new anti-prelog specific alcohol dehydrogenase from Thermus thermophilus HB27 for asymmetric reduction of carbonyl compounds. Bioresource Technology, 2012, 103, 343-350.	9.6	40

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55	Heterogeneous Systems Biocatalysis: The Path to the Fabrication of Selfâ€Sufficient Artificial Metabolic Cells. Chemistry - A European Journal, 2017, 23, 17841-17849.	3.3	40
56	Wiring step-wise reactions with immobilized multi-enzyme systems. Biocatalysis and Biotransformation, 2018, 36, 184-194.	2.0	40
57	Improved Stabilization of Genetically Modified Penicillin G Acylase in the Presence of Organic Cosolvents by Co- Immobilization of the Enzyme with Polyethyleneimine. Advanced Synthesis and Catalysis, 2007, 349, 459-464.	4.3	38
58	Expanding One-Pot Cell-Free Protein Synthesis and Immobilization for On-Demand Manufacturing of Biomaterials. ACS Synthetic Biology, 2018, 7, 875-884.	3.8	38
59	Increasing the binding strength of proteins to PEI coated supports by immobilizing at high ionic strength. Enzyme and Microbial Technology, 2005, 37, 295-299.	3.2	37
60	Stabilization of Enzymes by Multipoint Covalent Immobilization on Supports Activated with Glyoxyl Groups. Methods in Molecular Biology, 2013, 1051, 59-71.	0.9	36
61	The Science of Enzyme Immobilization. Methods in Molecular Biology, 2020, 2100, 1-26.	0.9	35
62	Selective Magnetic Nanoheating: Combining Iron Oxide Nanoparticles for Multi-Hot-Spot Induction and Sequential Regulation. Nano Letters, 2021, 21, 7213-7220.	9.1	34
63	Sociodemographic determinants of intraurban variations in COVID-19 incidence: the case of Barcelona. Journal of Epidemiology and Community Health, 2022, 76, 1-7.	3.7	33
64	Enzyme-support interactions and inactivation conditions determine Thermomyces lanuginosus lipase inactivation pathways: Functional and florescence studies. International Journal of Biological Macromolecules, 2021, 191, 79-91.	7.5	30
65	Coâ€immobilization and Colocalization of Multiâ€Enzyme Systems for the Cellâ€Free Biosynthesis of Aminoalcohols. ChemCatChem, 2020, 12, 3030-3041.	3.7	29
66	Oriented covalent immobilization of antibodies onto heterofunctional agarose supports: A highly efficient immuno-affinity chromatography platform. Journal of Chromatography A, 2012, 1262, 56-63.	3.7	28
67	Immobilization of Proteins on Glyoxyl Activated Supports: Dramatic Stabilization of Enzymes by Multipoint Covalent Attachment on Pre-Existing Supports. Current Organic Chemistry, 2015, 19, 1-1.	1.6	28
68	Glutaraldehyde-Mediated Protein Immobilization. Methods in Molecular Biology, 2013, 1051, 33-41.	0.9	27
69	Intraparticle Kinetics Unveil Crowding and Enzyme Distribution Effects on the Performance of Cofactor-Dependent Heterogeneous Biocatalysts. ACS Catalysis, 2021, 11, 15051-15067.	11.2	27
70	Tailor-made design of penicillin G acylase surface enables its site-directed immobilization and stabilization onto commercial mono-functional epoxy supports. Process Biochemistry, 2012, 47, 2538-2541.	3.7	26
71	Bioorthogonal Catalytic Activation of Platinum and Ruthenium Anticancer Complexes by FAD and Flavoproteins. Angewandte Chemie, 2018, 130, 3197-3201.	2.0	25
72	Sustainable and Continuous Synthesis of Enantiopure <scp>l</scp>â€Amino Acids by Using a Versatile Immobilised Multienzyme System. ChemBioChem, 2018, 19, 395-403.	2.6	25

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73	Efficient nitrogen-13 radiochemistry catalyzed by a highly stable immobilized biocatalyst. Catalysis Science and Technology, 2015, 5, 2705-2713.	4.1	24
74	Evaluation of Different Glutaryl Acylase Mutants to Improve the Hydolysis of Cephalosporin C in the Absence of Hydrogen Peroxide. Advanced Synthesis and Catalysis, 2008, 350, 343-348.	4.3	23
75	Reversible Immobilization of Glutaryl Acylase on Sepabeads Coated with Polyethyleneimine. Biotechnology Progress, 2008, 20, 533-536.	2.6	23
76	Immobilizing Systems Biocatalysis for the Selective Oxidation of Glycerol Coupled to Inâ€...Situ Cofactor Recycling and Hydrogen Peroxide Elimination. ChemCatChem, 2015, 7, 1939-1947.	3.7	23
77	Chemoenzymatic Approaches to the Synthesis of the Calcimimetic Agent Cinacalcet Employing Transaminases and Ketoreductases. Advanced Synthesis and Catalysis, 2018, 360, 2157-2165.	4.3	23
78	Design of the Enzymeâ€“Carrier Interface to Overcome the O₂ and NADH Mass Transfer Limitations of an Immobilized Flavin Oxidase. ACS Applied Materials & Interfaces, 2020, 12, 56027-56038.	8.0	23
79	DESign of Sustainable One-Pot Chemoenzymatic Organic Transformations in Deep Eutectic Solvents for the Synthesis of 1,2-Disubstituted Aromatic Olefins. Frontiers in Chemistry, 2020, 8, 139.	3.6	23
80	Optical Control of Enzyme Enantioselectivity in Solid Phase. ACS Catalysis, 2014, 4, 1004-1009.	11.2	22
81	Altering the Interfacial Activation Mechanism of a Lipase by Solid-Phase Selective Chemical Modification. Biochemistry, 2012, 51, 7028-7036.	2.5	21
82	Oneâ€step Synthesis of Î±â€Keto Acids from Racemic Amino Acids by A Versatile Immobilized Multienzyme Cellâ€free System. ChemCatChem, 2018, 10, 3002-3011.	3.7	21
83	Mechanistic Insights into the Light-Driven Catalysis of an Immobilized Lipase on Plasmonic Nanomaterials. ACS Catalysis, 2021, 11, 414-423.	11.2	21
84	Directed, Strong, and Reversible Immobilization of Proteins Tagged with a Î²-Trefoil Lectin Domain: A Simple Method to Immobilize Biomolecules on Plain Agarose Matrixes. Bioconjugate Chemistry, 2012, 23, 565-573.	3.6	20
85	Enhanced stability of l -lactate dehydrogenase through immobilization engineering. Process Biochemistry, 2016, 51, 1248-1255.	3.7	20
86	Improving enantioselectivity of lipase from Candida rugosa by carrier-bound and carrier-free immobilization. Journal of Molecular Catalysis B: Enzymatic, 2016, 130, 32-39.	1.8	20
87	Singleâ€Particle Studies to Advance the Characterization of Heterogeneous Biocatalysts. ChemCatChem, 2018, 10, 654-665.	3.7	20
88	Imidazoleâ€Crafted Nanogels for the Fabrication of Organicâ€“Inorganic Protein Hybrids. Advanced Functional Materials, 2018, 28, 1803115.	14.9	20
89	Immobilization Screening and Characterization of an Alcohol Dehydrogenase and its Application to the Multi-Enzymatic Selective Oxidation of 1,-Omega-Diols. Frontiers in Catalysis, 2021, 1, .	3.9	19
90	Glutaraldehyde in Protein Immobilization. Methods in Biotechnology, 2006, , 57-64.	0.2	18

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91	Stabilization by multipoint covalent attachment of a biocatalyst with polygalacturonase activity used for juice clarification. Food Chemistry, 2016, 208, 252-257.	8.2	18
92	Carrier-bound and carrier-free immobilization of type A feruloyl esterase from Aspergillus niger: Searching for an operationally stable heterogeneous biocatalyst for the synthesis of butyl hydroxycinnamates. Journal of Biotechnology, 2020, 316, 6-16.	3.8	18
93	Self-sufficient asymmetric reduction of Î²-ketoesters catalysed by a novel and robust thermophilic alcohol dehydrogenase co-immobilised with NADH. Catalysis Science and Technology, 2021, 11, 3217-3230.	4.1	18
94	Efficient Enzymatic Preparation of ¹³Nâ€Labelled Amino Acids: Towards Multipurpose Synthetic Systems. Chemistry - A European Journal, 2016, 22, 13619-13626.	3.3	16
95	Two-Photon Fluorescence Anisotropy Imaging to Elucidate the Dynamics and the Stability of Immobilized Proteins. Journal of Physical Chemistry B, 2016, 120, 485-491.	2.6	16
96	Coâ€immobilized Phosphorylated Cofactors and Enzymes as Selfâ€Sufficient Heterogeneous Biocatalysts for Chemical Processes. Angewandte Chemie, 2017, 129, 789-793.	2.0	16
97	Enhancing PLP-Binding Capacity of Class-III Ï‰-Transaminase by Single Residue Substitution. Frontiers in Bioengineering and Biotechnology, 2019, 7, 282.	4.1	16
98	Functionalization of Porous Cellulose with Glyoxyl Groups as a Carrier for Enzyme Immobilization and Stabilization. Biomacromolecules, 2021, 22, 927-937.	5.4	16
99	Preparation of an immobilizedâ€“stabilized catalase derivative from Aspergillus niger having its multimeric structure stabilized: The effect of Zn2+ on enzyme stability. Journal of Molecular Catalysis B: Enzymatic, 2008, 55, 142-145.	1.8	14
100	Reactivation of a thermostable lipase by solid phase unfolding/refolding. Enzyme and Microbial Technology, 2011, 49, 388-394.	3.2	14
101	Stabilization of Ï‰-transaminase from Pseudomonas fluorescens by immobilization techniques. International Journal of Biological Macromolecules, 2020, 164, 4318-4328.	7.5	14
102	Chitosan-based CLEAs from Aspergillus niger type A feruloyl esterase: high-productivity biocatalyst for alkyl ferulate synthesis. Applied Microbiology and Biotechnology, 2020, 104, 10033-10045.	3.6	13
103	A versatile photoactivatable probe designed to label the diphosphate binding site of farnesyl diphosphate utilizing enzymes. Bioorganic and Medicinal Chemistry, 2009, 17, 4797-4805.	3.0	12
104	Engineering the Substrate Specificity of a Thermophilic Penicillin Acylase from Thermus thermophilus. Applied and Environmental Microbiology, 2013, 79, 1555-1562.	3.1	12
105	Development of a high efficient biocatalyst by oriented covalent immobilization of a novel recombinant 2â€²- N -deoxyribosyltransferase from Lactobacillus animalis. Journal of Biotechnology, 2018, 270, 39-43.	3.8	12
106	Solid-Phase Assembly of Multienzyme Systems into Artificial Cellulosomes. Bioconjugate Chemistry, 2021, 32, 1966-1972.	3.6	12
107	Structural, kinetic and operational characterization of an immobilized l -aminoacid dehydrogenase. Process Biochemistry, 2017, 57, 80-86.	3.7	11
108	Biocatalytic Proteinâ€Based Materials for Integration into Energy Devices. ChemBioChem, 2019, 20, 1977-1985.	2.6	11

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109	Multi-Point Covalent Immobilization of Enzymes on Glyoxyl Agarose with Minimal Physico-Chemical Modification: Stabilization of Industrial Enzymes. Methods in Molecular Biology, 2020, 2100, 93-107.	0.9	11
110	Selective Coimmobilization of His-Tagged Enzymes on Yttrium-Stabilized Zirconia-Based Membranes for Continuous Asymmetric Bioreductions. ACS Applied Materials & Interfaces, 2022, 14, 4285-4296.	8.0	11
111	Biosynthesis of an antiviral compound using a stabilized phosphopentomutase by multipoint covalent immobilization. Journal of Biotechnology, 2017, 249, 34-41.	3.8	10
112	Light-Driven Catalytic Regulation of Enzymes at the Interface with Plasmonic Nanomaterials. Biochemistry, 2021, 60, 991-998.	2.5	10
113	One-pot biotransformation of glycerol into serinol catalysed by biocatalytic composites made of whole cells and immobilised enzymes. Green Chemistry, 2021, 23, 1140-1146.	9.0	10
114	Asymmetric hydrolysis of dimethyl phenylmalonate by immobilized penicillin G acylase from E. coli. Enzyme and Microbial Technology, 2007, 40, 997-1000.	3.2	9
115	Production of Hesperetin Using a Covalently Multipoint Immobilized Diglycosidase from Acremonium sp. DSM24697. Journal of Molecular Microbiology and Biotechnology, 2013, 23, 410-417.	1.0	9
116	Engineering Erg10 Thiolase from Saccharomyces cerevisiae as a Synthetic Toolkit for the Production of Branched-Chain Alcohols. Biochemistry, 2018, 57, 1338-1348.	2.5	9
117	On-pot and cell-free biocatalysis using coimmobilized enzymes on advanced materials. Methods in Enzymology, 2019, 617, 385-411.	1.0	9
118	Selective oxidation of alkyl and aryl glyceryl monoethers catalysed by an engineered and immobilised glycerol dehydrogenase. Chemical Science, 2020, 11, 12009-12020.	7.4	9
119	Purification of a Catalase from Thermus thermophilus via IMAC Chromatography: Effect of the Support. Biotechnology Progress, 2004, 20, 1578-1582.	2.6	8
120	Diversity of sesquiterpene synthases in the basidiomycete Coprinus cinereus. Molecular Microbiology, 2009, 72, 1307-1308.	2.5	8
121	Synthesis, Properties, and Applications of Diazotrifluropropanoylâ€Containing Photoactive Analogs of Farnesyl Diphosphate Containing Modified Linkages for Enhanced Stability. Chemical Biology and Drug Design, 2010, 75, 51-67.	3.2	8
122	Hydrolysis and oxidation of racemic esters into prochiral ketones catalyzed by a consortium of immobilized enzymes. Biochemical Engineering Journal, 2016, 112, 136-142.	3.6	8
123	Understanding the silica-based sol-gel encapsulation mechanism of Thermomyces lanuginosus lipase: The role of polyethylenimine. Molecular Catalysis, 2018, 449, 106-113.	2.0	8
124	Deciphering the Effect of Microbead Size Distribution on the Kinetics of Heterogeneous Biocatalysts through Single-Particle Analysis Based on Fluorescence Microscopy. Catalysts, 2019, 9, 896.	3.5	8
125	Co-Immobilization and Co-Localization of Multi-Enzyme Systems on Porous Materials. Methods in Molecular Biology, 2020, 2100, 297-308.	0.9	8
126	Cellâ€Free Biosynthesis of Ï‰â€Hydroxy Acids Boosted by a Synergistic Combination of Alcohol Dehydrogenases. ChemSusChem, 2022, 15, .	6.8	8

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127	Force spectroscopy predicts thermal stability of immobilized proteins by measuring microbead mechanics. Soft Matter, 2016, 12, 8718-8725.	2.7	7
128	Biocatalysis in radiochemistry: Enzymatic incorporation of <scp>PET</scp> radionuclides into molecules of biomedical interest. Journal of Labelled Compounds and Radiopharmaceuticals, 2018, 61, 332-354.	1.0	7
129	Immobilization of Enzymes on Supports Activated with Glutaraldehyde: A Very Simple Immobilization Protocol. Methods in Molecular Biology, 2020, 2100, 119-127.	0.9	7
130	Deconvoluting the Directed Evolution Pathway of Engineered Acyltransferase LovD. ChemCatChem, 2022, 14, e202101349.	3.7	7
131	Coupling Enzymes and Inorganic Piezoelectric Materials for Electricity Production from Renewable Fuels. ACS Applied Energy Materials, 2018, 1, 2032-2040.	5.1	6
132	Selective Immobilization of Fluorescent Proteins for the Fabrication of Photoactive Materials. Molecules, 2019, 24, 2775.	3.8	6
133	Microcompartmentalized Cell-Free Protein Synthesis in Hydrogel Î¼-Channels. ACS Synthetic Biology, 2020, 9, 2971-2978.	3.8	6
134	Approaches for the enzymatic synthesis of alkyl hydroxycinnamates and applications thereof. Applied Microbiology and Biotechnology, 2021, 105, 3901-3917.	3.6	6
135	In-flow protein immobilization monitored by magnetic resonance imaging. New Biotechnology, 2018, 47, 25-30.	4.4	5
136	Development of a Hybrid Bioinorganic Nanobiocatalyst: Remarkable Impact of the Immobilization Conditions on Activity and Stability of Î²-Galactosidase. Molecules, 2021, 26, 4152.	3.8	5
137	Metal substrate catalysis in the confined space for platinum drug delivery. Chemical Science, 2021, 13, 59-67.	7.4	5
138	Optimizing the biological activity of Fab fragments by controlling their molecular orientation and spatial distribution across porous hydrogels. Process Biochemistry, 2015, 50, 1565-1571.	3.7	4
139	Assembly of Nanoâ€Biocatalyst for the Tandem Hydrolysis and Reduction of pâ€Nitrophenol Esters. Particle and Particle Systems Characterization, 2021, 38, 2100136.	2.3	3
140	One-Point Covalent Immobilization of Enzymes on Glyoxyl Agarose with Minimal Physico-Chemical Modification: Immobilized â€œNative Enzymesâ€• Methods in Molecular Biology, 2020, 2100, 83-92.	0.9	3
141	Functional Characterization and Structural Analysis of NADH Oxidase Mutants from Thermus thermophilus HB27: Role of Residues 166, 174, and 194 in the Catalytic Properties and Thermostability. Microorganisms, 2019, 7, 515.	3.6	2
142	Interfacial activity of modified dextran polysaccharide to produce enzyme-responsive oil-in-water nanoemulsions. Chemical Communications, 2021, 57, 4540-4543.	4.1	2
143	Improved Stabilization of Chemically Aminated Enzymes Via Multipoint Covalent Attachment on Glyoxyl Supports. Methods in Biotechnology, 2006, , 163-173.	0.2	2
144	Manufacturing of Protein-Based Biomaterials Coupling Cell-Free Protein Synthesis with Protein Immobilization. Methods in Molecular Biology, 2020, 2100, 335-343.	0.9	2

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145	Very Strong but Reversible Immobilization of Enzymes on Supports Coated with Ionic Polymers. Methods in Molecular Biology, 2020, 2100, 129-141.	0.9	2
146	Cellâ€“enzyme tandem systems for sustainable chemistry. Current Opinion in Green and Sustainable Chemistry, 2022, 34, 100600.	5.9	2
147	Fabrication of heterogeneous biocatalyst tethering artificial prosthetic groups to obtain omega-3-fatty acids by selective hydrolysis of fish oils. RSC Advances, 2016, 6, 97659-97663.	3.6	1
148	Innentitelbild: Bioorthogonal Catalytic Activation of Platinum and Ruthenium Anticancer Complexes by FAD and Flavoproteins (Angew. Chem. 12/2018). Angewandte Chemie, 2018, 130, 3032-3032.	2.0	1
149	The Radiopharmaceutical Chemistry of Nitrogen-13 and Oxygen-15. , 2019, , 237-254.		1
150	Immobilization and Stabilization of Proteins by Multipoint Covalent Attachment on Novel Amino-Epoxy-SepabeadsÂ®. Methods in Biotechnology, 2006, , 153-162.	0.2	1
151	Immobilizing Systems Biocatalysis for the Selective Oxidation of Glycerol Coupled to Inâ€…Situ Cofactor Recycling and Hydrogen Peroxide Elimination. ChemCatChem, 2015, 7, 1884-1884.	3.7	0
152	Frontispiece: Heterogeneous Systems Biocatalysis: The Path to the Fabrication of Selfâ€Sufficient Artificial Metabolic Cells. Chemistry - A European Journal, 2017, 23, .	3.3	0
153	Front Cover Picture: Chemoenzymatic Approaches to the Synthesis of the Calcimimetic Agent Cinacalcet Employing Transaminases and Ketoreductases (Adv. Synth. Catal. 11/2018). Advanced Synthesis and Catalysis, 2018, 360, 2061-2061.	4.3	0