

Fernando LÃ³pez-gallego

List of Publications by Year in descending order

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200
papers

7,197
citations

43741

48
h-index

70222

77
g-index

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all docs

216
docs citations

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times ranked

10891
citing authors

#	ARTICLE	IF	CITATIONS
1	Coenzyme A Thioester Intermediates as Platform Molecules in Cell-Free Chemical Biomanufacturing. <i>ChemBioChem</i> , 2024, 25, .	2.8	1
2	Region-Directed Enzyme Immobilization through Engineering Protein Surface with Histidine Clusters. <i>ACS Applied Materials & Interfaces</i> , 2024, 16, 833-846.	8.3	4
3	Single-Particle and Single-Molecule Characterization of Immobilized Enzymes: A Multiscale Path toward Optimizing Heterogeneous Biocatalysts. <i>Angewandte Chemie - International Edition</i> , 2024, 63, .	14.8	1
4	Enantiodivergent biosynthesis of β -hydroxy esters by self-sufficient heterogeneous biocatalysts in a continuous flow. <i>Green Chemistry</i> , 2024, 26, 4563-4573.	9.4	1
5	Single-Particle and Single-Molecule Characterization of Immobilized Enzymes: A Multiscale Path toward Optimizing Heterogeneous Biocatalysts. <i>Angewandte Chemie</i> , 2024, 136, .	2.1	0
6	In-Hydrogel Cell-Free Protein Expression System as Biocompatible and Implantable Biomaterial. <i>ACS Applied Materials & Interfaces</i> , 2024, 16, 15993-16002.	8.3	0
7	Optimized Spatial Configuration of Heterogeneous Biocatalysts Maximizes Cell-Free Biosynthesis of β -Hydroxy and β -Amino Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2024, 12, 9474-9489.	6.9	2
8	Multienzyme Coimmobilization on Triheterofunctional Supports. <i>Biomacromolecules</i> , 2023, 24, 929-942.	5.6	11
9	Controlling the Adsorption of β -Glucosidase onto Wrinkled SiO_2 Nanoparticles To Boost the Yield of Immobilization of an Efficient Biocatalyst. <i>Langmuir</i> , 2023, 39, 1482-1494.	3.7	8
10	ATP-Independent and Cell-Free Biosynthesis of β -Hydroxy Acids Using Vinyl Esters as Smart Substrates. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	14.8	6
11	Engineered repeat proteins as scaffolds to assemble multi-enzyme systems for efficient cell-free biosynthesis. <i>Nature Communications</i> , 2023, 14, .	13.2	20
12	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
13	Chemoenzymatic Oxidation of Diols Catalyzed by Co-Immobilized Flavins and Dehydrogenases**. <i>ChemCatChem</i> , 2023, 15, .	3.8	0
14	Surpassing Substrate-Enzyme Competition by Compartmentalization. <i>ACS Catalysis</i> , 2023, 13, 11441-11454.	11.7	5
15	Heterogeneous biocatalytic reduction of 5-(hydroxy)methyl furfural using two co-immobilised alcohol dehydrogenases. <i>RSC Sustainability</i> , 2023, 1, 1883-1895.	0.0	0
16	Self-Sufficient Heterogeneous Biocatalysis through Boronic Acid-Diol Complexation of Adenylated Cofactors. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 14409-14421.	6.9	6
17	Spatial Organization of Immobilized Multienzyme Systems Improves the Deracemization of Alkyl Glyceryl Ethers. <i>ACS Catalysis</i> , 2023, 13, 15620-15632.	11.7	3
18	T $\frac{1}{4}$ rkiye Kortikoid MantarlarÄ±na HakkÄ±riÄ±™den Yeni Bir KayÄ±t. <i>DoÄŸu Fen Bilimleri Dergisi</i> , 2023, 6, 10-14.	0.0	1

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19	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
20	Deconvoluting the Directed Evolution Pathway of Engineered Acyltransferase LovD. <i>ChemCatChem</i> , 2022, 14, e202101349.	3.8	12
21	Selective Coimmobilization of His-Tagged Enzymes on Yttrium-Stabilized Zirconia-Based Membranes for Continuous Asymmetric Bioreductions. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4285-4296.	8.3	14
22	Cellâ€enzyme tandem systems for sustainable chemistry. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022, 34, 100600.	6.3	3
23	Genetic Markers of Therapeutic Efficacy of Methotrexate in Patients with Psoriasis. <i>Bulletin of Experimental Biology and Medicine</i> , 2022, 172, 460-463.	0.8	2
24	Cellâ€Free Biosynthesis of Î‰â€Hydroxy Acids Boosted by a Synergistic Combination of Alcohol Dehydrogenases. <i>ChemSusChem</i> , 2022, 15, .	7.5	10
25	Eccentricity-Based Topological Descriptors of First Type of Hex-Derived Network. <i>Journal of Chemistry</i> , 2022, 2022, 1-8.	2.0	1
26	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
27	Coreâ€Shell Spheroidâ€Laden Microgels Crosslinked under Biocompatible Conditions for Probing Cancerâ€Stromal Communication. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	3.9	4
28	Light-Driven Catalytic Regulation of Enzymes at the Interface with Plasmonic Nanomaterials. <i>Biochemistry</i> , 2021, 60, 991-998.	2.6	11
29	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
30	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
31	Immobilization Techniques for the Preparation of Supported Biocatalysts: Making Better Biocatalysts Through Protein Immobilization. , 2021, , 63-88.		3
32	Approaches for the enzymatic synthesis of alkyl hydroxycinnamates and applications thereof. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3901-3917.	3.7	9
33	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
34	Development of a Hybrid Bioinorganic Nanobiocatalyst: Remarkable Impact of the Immobilization Conditions on Activity and Stability of Î²-Galactosidase. <i>Molecules</i> , 2021, 26, 4152.	3.9	5
35	Assembly of Nanoâ€Biocatalyst for the Tandem Hydrolysis and Reduction of pâ€Nitrophenol Esters. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100136.	2.5	3
36	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

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37	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
38	Solid-Phase Assembly of Multienzyme Systems into Artificial Cellulosomes. <i>Bioconjugate Chemistry</i> , 2021, 32, 1966-1972.	3.8	14
39	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
40	Interfacial activity of modified dextran polysaccharide to produce enzyme-responsive oil-in-water nanoemulsions. <i>Chemical Communications</i> , 2021, 57, 4540-4543.	4.2	2
41	Self-sufficient asymmetric reduction of β -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
42	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
43	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
44	Metal substrate catalysis in the confined space for platinum drug delivery. <i>Chemical Science</i> , 2021, 13, 59-67.	7.8	6
45	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
46	Preoperative identification of cardiac surgery patients at risk of receiving a platelet transfusion: The Australian Cardiac Surgery Platelet Transfusion (<sc>ACSePT</sc>) risk prediction tool. <i>Transfusion</i> , 2020, 60, 2272-2283.	1.8	7
47	Stabilization of α -transaminase from <i>Pseudomonas fluorescens</i> by immobilization techniques. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 4318-4328.	7.7	14
48	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
49	Design of the Enzyme-Carrier Interface to Overcome the O_2 and NADH Mass Transfer Limitations of an Immobilized Flavin Oxidase. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56027-56038.	8.3	28
50	Microcompartmentalized Cell-Free Protein Synthesis in Hydrogel $\frac{1}{4}$ -Channels. <i>ACS Synthetic Biology</i> , 2020, 9, 2971-2978.	4.0	6
51	Review of maternal COVID-19 infection: considerations for the pediatric ophthalmologist. <i>Journal of AAPOS</i> , 2020, 24, 209-211.	0.4	2
52	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
53	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
54	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

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55	The Heart Failure Association Atlas: rationale, objectives, and methods. <i>European Journal of Heart Failure</i> , 2020, 22, 638-645.	7.5	28
56	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
57	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
58	The Science of Enzyme Immobilization. <i>Methods in Molecular Biology</i> , 2020, 2100, 1-26.	0.0	41
59	Co-Immobilization and Co-Localization of Multi-Enzyme Systems on Porous Materials. <i>Methods in Molecular Biology</i> , 2020, 2100, 297-308.	0.0	9
60	One-Point Covalent Immobilization of Enzymes on Glyoxyl Agarose with Minimal Physico-Chemical Modification: Immobilized "Native Enzymes". <i>Methods in Molecular Biology</i> , 2020, 2100, 83-92.	0.0	3
61	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
62	Immobilization of Enzymes on Supports Activated with Glutaraldehyde: A Very Simple Immobilization Protocol. <i>Methods in Molecular Biology</i> , 2020, 2100, 119-127.	0.0	7
63	Manufacturing of Protein-Based Biomaterials Coupling Cell-Free Protein Synthesis with Protein Immobilization. <i>Methods in Molecular Biology</i> , 2020, 2100, 335-343.	0.0	2
64	Synthesis of ¹³ N and ¹⁵ O Labeled Radiopharmaceuticals. , 2020, , 109-142.		0
65	Very Strong but Reversible Immobilization of Enzymes on Supports Coated with Ionic Polymers. <i>Methods in Molecular Biology</i> , 2020, 2100, 129-141.	0.0	3
66	Selective Immobilization of Fluorescent Proteins for the Fabrication of Photoactive Materials. <i>Molecules</i> , 2019, 24, 2775.	3.9	6
67	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
68	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
69	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
70	Enhancing PLP-Binding Capacity of Class-III Transaminase by Single Residue Substitution. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 282.	4.2	19
71	Functional Characterization and Structural Analysis of NADH Oxidase Mutants from <i>Thermus thermophilus</i> HB27: Role of Residues 166, 174, and 194 in the Catalytic Properties and Thermostability. <i>Microorganisms</i> , 2019, 7, 515.	3.6	3
72	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

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73	The Radiopharmaceutical Chemistry of Nitrogen-13 and Oxygen-15. , 2019, , 237-254.		1
74	Biocatalytic Protein-Based Materials for Integration into Energy Devices. ChemBioChem, 2019, 20, 1977-1985.	2.8	11
75	On-pot and cell-free biocatalysis using coimmobilized enzymes on advanced materials. Methods in Enzymology, 2019, 617, 385-411.	1.7	10
76	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.	6.4	66
77	GCAC1809 " 1812TTCT: ein neuer prognostischer Biomarker fr die chronische Hepatitis B Virus Infektion. Zeitschrift Fur Gastroenterologie, 2019, 57, .	0.3	0
78	Expanding One-Pot Cell-Free Protein Synthesis and Immobilization for On-Demand Manufacturing of Biomaterials. ACS Synthetic Biology, 2018, 7, 875-884.	4.0	38
79	Innentitelbild: Bioorthogonal Catalytic Activation of Platinum and Ruthenium Anticancer Complexes by FAD and Flavoproteins (Angew. Chem. 12/2018). Angewandte Chemie, 2018, 130, 3032-3032.	2.1	1
80	One-Step Synthesis of Keto Acids from Racemic Amino Acids by A Versatile Immobilized Multienzyme Cell-Free System. ChemCatChem, 2018, 10, 3002-3011.	3.8	22
81	Chemoenzymatic Approaches to the Synthesis of the Calcimimetic Agent Cinacalcet Employing Transaminases and Ketoreductases. Advanced Synthesis and Catalysis, 2018, 360, 2157-2165.	4.5	24
82	Development of a high efficient biocatalyst by oriented covalent immobilization of a novel recombinant 2'-N -deoxyribosyltransferase from Lactobacillus animalis. Journal of Biotechnology, 2018, 270, 39-43.	3.9	13
83	Engineering Erg10 Thiolase from <i>Saccharomyces cerevisiae</i> as a Synthetic Toolkit for the Production of Branched-Chain Alcohols. Biochemistry, 2018, 57, 1338-1348.	2.6	10
84	In-flow protein immobilization monitored by magnetic resonance imaging. New Biotechnology, 2018, 47, 25-30.	4.6	5
85	Endocrine regulation of migratory departure from stopover: Evidence from a longitudinal migratory restlessness study on northern wheatears. Hormones and Behavior, 2018, 99, 9-13.	2.1	11
86	Bioorthogonal Catalytic Activation of Platinum and Ruthenium Anticancer Complexes by FAD and Flavoproteins. Angewandte Chemie - International Edition, 2018, 57, 3143-3147.	14.8	69
87	Coupling Enzymes and Inorganic Piezoelectric Materials for Electricity Production from Renewable Fuels. ACS Applied Energy Materials, 2018, 1, 2032-2040.	5.3	6
88	Understanding the silica-based sol-gel encapsulation mechanism of Thermomyces lanuginosus lipase: The role of polyethylenimine. Molecular Catalysis, 2018, 449, 106-113.	2.1	9
89	Bioorthogonal Catalytic Activation of Platinum and Ruthenium Anticancer Complexes by FAD and Flavoproteins. Angewandte Chemie, 2018, 130, 3197-3201.	2.1	25
90	Wiring step-wise reactions with immobilized multi-enzyme systems. Biocatalysis and Biotransformation, 2018, 36, 184-194.	2.1	42

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91	Single-Particle Studies to Advance the Characterization of Heterogeneous Biocatalysts. <i>ChemCatChem</i> , 2018, 10, 654-665.	3.8	23
92	Sustainable and Continuous Synthesis of Enantiopure α -Amino Acids by Using a Versatile Immobilised Multienzyme System. <i>ChemBioChem</i> , 2018, 19, 395-403.	2.8	26
93	Biocatalysis in radiochemistry: Enzymatic incorporation of ^{18}F radionuclides into molecules of biomedical interest. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2018, 61, 332-354.	0.9	7
94	Improved Iterative Thresholding Technique for Detection in Sporadic Large-Scale Multiuser MIMO Systems. , 2018, , .		0
95	Multi-Criteria Analysis and Advanced Comparative Study between M-learning Development Approaches. <i>International Journal of Interactive Mobile Technologies</i> , 2018, 12, 38.	1.2	1
96	Ecopipam, a D1 receptor antagonist, for treatment of tourette syndrome in children: A randomized, placebo-controlled crossover study. <i>Movement Disorders</i> , 2018, 33, 1272-1280.	4.3	58
97	Imidazole-Grafted Nanogels for the Fabrication of Organic-Inorganic Protein Hybrids. <i>Advanced Functional Materials</i> , 2018, 28, 1803115.	16.5	21
98	Self-Sufficient Flow-Biocatalysis by Coimmobilization of Pyridoxal 5'-Phosphate and α -Transaminases onto Porous Carriers. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13151-13159.	6.9	83
99	E se ns fossemos Jacques Rivire? / What if we were Jacques Rivire?. <i>Revista Polis E Psiq</i> , 2018, 8, 164.	0.0	0
100	Structural, kinetic and operational characterization of an immobilized L-aminoacid dehydrogenase. <i>Process Biochemistry</i> , 2017, 57, 80-86.	3.8	11
101	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
102	Riboflavin as a bioorthogonal photocatalyst for the activation of a Pt ^{IV} prodrug. <i>Chemical Science</i> , 2017, 8, 4619-4625.	7.8	64
103	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
104	Co-immobilized Phosphorylated Cofactors and Enzymes as Self-Sufficient Heterogeneous Biocatalysts for Chemical Processes. <i>Angewandte Chemie</i> , 2017, 129, 789-793.	2.1	17
105	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
106	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
107	Asymmetric Reduction of Prochiral Ketones by Using Self-Sufficient Heterogeneous Biocatalysts Based on NADPH-Dependent Ketoreductases. <i>Chemistry - A European Journal</i> , 2017, 23, 16843-16852.	3.9	65
108	The call of the wild. <i>Science</i> , 2017, 357, 326-326.	20.9	0

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109	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
110	Mechanistic Study of Sml ₂ -Mediated Reformatsky Reaction for Macrolactam Formation Using a Cyclopropyl Group as a Probe. <i>Israel Journal of Chemistry</i> , 2017, 57, 331-334.	2.6	1
111	Cross-linked enzyme aggregates (CLEA) in enzyme improvement – a review. <i>Biocatalysis</i> , 2016, 1, .	2.5	71
112	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
113	Hydrolysis and oxidation of racemic esters into prochiral ketones catalyzed by a consortium of immobilized enzymes. <i>Biochemical Engineering Journal</i> , 2016, 112, 136-142.	3.8	8
114	Force spectroscopy predicts thermal stability of immobilized proteins by measuring microbead mechanics. <i>Soft Matter</i> , 2016, 12, 8718-8725.	2.8	9
115	Efficient Enzymatic Preparation of ¹³ C-Labelled Amino Acids: Towards Multipurpose Synthetic Systems. <i>Chemistry - A European Journal</i> , 2016, 22, 13619-13626.	3.9	16
116	A roadmap for biocatalysis – functional and spatial orchestration of enzyme cascades. <i>Microbial Biotechnology</i> , 2016, 9, 601-609.	4.3	117
117	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
118	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
119	Information Architecture. <i>Advances in Information Quality and Management</i> , 2016, , 424-438.	0.0	1
120	Safety of a Pandemic Influenza Vaccine and the Immune Response in Patients with Duchenne Muscular Dystrophy. <i>Internal Medicine</i> , 2015, 54, 1199-1205.	0.7	8
121	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
122	Selective biomineralization of Co ₃ (PO ₄) ₂ -sponges triggered by His-tagged proteins: efficient heterogeneous biocatalysts for redox processes. <i>Chemical Communications</i> , 2015, 51, 8753-8756.	4.2	63
123	Efficient nitrogen-13 radiochemistry catalyzed by a highly stable immobilized biocatalyst. <i>Catalysis Science and Technology</i> , 2015, 5, 2705-2713.	4.2	24
124	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
125	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
126	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

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127	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
128	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
129	Optical Control of Enzyme Enantioselectivity in Solid Phase. <i>ACS Catalysis</i> , 2014, 4, 1004-1009.	11.7	22
130	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
131	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
132	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
133	Glutaraldehyde-Mediated Protein Immobilization. <i>Methods in Molecular Biology</i> , 2013, 1051, 33-41.	0.0	29
134	Altering the Interfacial Activation Mechanism of a Lipase by Solid-Phase Selective Chemical Modification. <i>Biochemistry</i> , 2012, 51, 7028-7036.	2.6	21
135	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
136	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
137	Directed, Strong, and Reversible Immobilization of Proteins Tagged with a β -Trefoil Lectin Domain: A Simple Method to Immobilize Biomolecules on Plain Agarose Matrixes. <i>Bioconjugate Chemistry</i> , 2012, 23, 565-573.	3.8	20
138	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
139	Rational Co-immobilization of 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
140	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
141	Glyoxyl-Disulfide Agarose: A Tailor-Made Support for Site-Directed Rigidification of Proteins. <i>Biomacromolecules</i> , 2011, 12, 1800-1809.	5.6	42
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