

Valerio Vf Ferrario

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,301
citations

430754

18
h-index

345118

36
g-index

39
all docs

39
docs citations

39
times ranked

1760
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient immobilisation of industrial biocatalysts: criteria and constraints for the selection of organic polymeric carriers and immobilisation methods. <i>Chemical Society Reviews</i> , 2013, 42, 6262.	18.7	397
2	Renewable building blocks for sustainable polyesters: new biotechnological routes for greener plastics. <i>Polymer International</i> , 2016, 65, 861-871.	1.6	127
3	The Closure of the Cycle: Enzymatic Synthesis and Functionalization of Bio-Based Polyesters. <i>Trends in Biotechnology</i> , 2016, 34, 316-328.	4.9	107
4	Towards feasible and scalable solvent-free enzymatic polycondensations: integrating robust biocatalysts with thin film reactions. <i>Green Chemistry</i> , 2015, 17, 1756-1766.	4.6	72
5	Understanding Potentials and Restrictions of Solvent-Free Enzymatic Polycondensation of Itaconic Acid: An Experimental and Computational Analysis. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 1763-1774.	2.1	67
6	Conformational Changes of Lipases in Aqueous Media: A Comparative Computational Study and Experimental Implications. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2466-2480.	2.1	44
7	Nature Inspired Solutions for Polymers: Will Cutinase Enzymes Make Polyesters and Polyamides Greener?. <i>Catalysts</i> , 2016, 6, 205.	1.6	42
8	Large scale applications of immobilized enzymes call for sustainable and inexpensive solutions: rice husks as renewable alternatives to fossil-based organic resins. <i>RSC Advances</i> , 2016, 6, 63256-63270.	1.7	37
9	Enlarging the tools for efficient enzymatic polycondensation: structural and catalytic features of cutinase 1 from <i>Thermobifida cellulosilytica</i> . <i>Catalysis Science and Technology</i> , 2016, 6, 3430-3442.	2.1	33
10	Rice Husk as an Inexpensive Renewable Immobilization Carrier for Biocatalysts Employed in the Food, Cosmetic and Polymer Sectors. <i>Catalysts</i> , 2018, 8, 471.	1.6	33
11	Endo- and exo- α -nulinases: Enzyme-substrate interaction and rational immobilization. <i>Biotechnology Progress</i> , 2010, 26, 397-405.	1.3	32
12	A Three-Dimensional Quantitative Structure-Activity Relationship (3D-QSAR) Model for Predicting the Enantioselectivity of <i>Candida antarctica</i> Lipase B. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1293-1302.	2.1	29
13	Fully renewable polyesters via polycondensation catalyzed by <i>Thermobifida cellulosilytica</i> cutinase 1: an integrated approach. <i>Green Chemistry</i> , 2017, 19, 490-502.	4.6	29
14	Resolution of (R,S)-flurbiprofen catalysed by dry mycelia in organic solvent. <i>Tetrahedron</i> , 2007, 63, 11005-11010.	1.0	27
15	Diverse effects of aqueous polar co-solvents on <i>Candida antarctica</i> lipase B. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 930-940.	3.6	23
16	<i>Bacillus subtilis</i> Lipase A – Lipase or Esterase?. <i>Catalysts</i> , 2020, 10, 308.	1.6	21
17	Lipases Immobilization for Effective Synthesis of Biodiesel Starting from Coffee Waste Oils. <i>Biomolecules</i> , 2013, 3, 514-534.	1.8	19
18	BioGPS Descriptors for Rational Engineering of Enzyme Promiscuity and Structure Based Bioinformatic Analysis. <i>PLoS ONE</i> , 2014, 9, e109354.	1.1	18

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19	Structural bases for understanding the stereoselectivity in ketone reductions with ADH from <i>Thermus thermophilus</i> : A quantitative model. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 70, 23-31.	1.8	16
20	Kinetic resolution of (R, S)-1,2-O-isopropylidenglycerol by esterification with dry mycelia of moulds. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006, 41, 71-74.	1.8	14
21	Enantioselective production of 3-hydroxy metabolites of tibolone by yeast reduction. <i>Steroids</i> , 2008, 73, 112-115.	0.8	13
22	Simulation of protein diffusion: a sensitive probe of protein-solvent interactions. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 1534-1544.	2.0	13
23	Combined Linear Interaction Energy and Alchemical Solvation Free-Energy Approach for Protein-Binding Affinity Computation. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1300-1310.	2.3	12
24	Investigating the Role of Conformational Effects on Laccase Stability and Hyperactivation under Stress Conditions. <i>ChemBioChem</i> , 2015, 16, 2365-2372.	1.3	11
25	Mechanochemical activation of vincamine mediated by linear polymers: Assessment of some "critical" steps. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 50, 56-68.	1.9	10
26	An integrated platform for automatic design and screening of virtual mutants based on 3D-QSAR analysis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 101, 7-15.	1.8	9
27	Modelling and Predicting Enzyme Enantioselectivity: the Aid of Computational Methods for the Rational use of Lipase B from <i>Candida antarctica</i> . <i>Current Biotechnology</i> , 2015, 4, 87-99.	0.2	7
28	Interpretation of cytochrome P450 monooxygenase kinetics by modeling of thermodynamic activity. <i>Journal of Inorganic Biochemistry</i> , 2018, 183, 172-178.	1.5	6
29	Modelling of substrate access and substrate binding to cephalosporin acylases. <i>Scientific Reports</i> , 2019, 9, 12402.	1.6	6
30	Visual Analysis of Large-Scale Protein-Ligand Interaction Data. <i>Computer Graphics Forum</i> , 2021, 40, 394-408.	1.8	6
31	Elucidating the structural and conformational factors responsible for the activity and substrate specificity of alkanesulfonate monooxygenase. <i>Journal of Biomolecular Structure and Dynamics</i> , 2012, 30, 74-88.	2.0	5
32	Molecular Mechanism of Methanol Inhibition in CALB-Catalyzed Alcoholysis: Analyzing Molecular Dynamics Simulations by a Markov State Model. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 6570-6582.	2.3	5
33	Molecular simulations of enzymes under non-natural conditions. <i>European Physical Journal: Special Topics</i> , 2019, 227, 1631-1638.	1.2	3
34	Effect of Binding Modules Fused to Cutinase on the Enzymatic Synthesis of Polyesters. <i>Catalysts</i> , 2022, 12, 303.	1.6	3
35	Navigating within thiamine diphosphate-dependent decarboxylases: Sequences, structures, functional positions, and binding sites. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 774-785.	1.5	2
36	Thermodynamic analysis of enzyme enantioselectivity: a statistical approach by means of new differential HybridMIF descriptors. <i>Biocatalysis and Biotransformation</i> , 2013, 31, 272-280.	1.1	1

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37	Role of Tunnels and Gates in Enzymatic Catalysis. , 2016, , 445-488.		0