Francesco Secundo

List of Publications by Year in descending order

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117 papers 4,413 citations

33 h-index 61 g-index

126 all docs

 $\begin{array}{c} 126 \\ \\ \text{docs citations} \end{array}$

times ranked

126

5200 citing authors

#	Article	IF	CITATIONS
1	Conformational changes of enzymes upon immobilisation. Chemical Society Reviews, 2013, 42, 6250.	38.1	484
2	Dissolution of Candida antarctica lipase B in ionic liquids: effects on structure and activity. Green Chemistry, 2004, 6, 483.	9.0	300
3	Biotechnological Applications of Proteases in Food Technology. Comprehensive Reviews in Food Science and Food Safety, 2018, 17, 412-436.	11.7	183
4	The first crystal structure of a phospholipase D. Structure, 2000, 8, 655-667.	3.3	167
5	Effects of medium and of reaction conditions on the enantioselectivity of lipases in organic solvents and possible rationales. Tetrahedron: Asymmetry, 1992, 3, 267-280.	1.8	150
6	Structure and activity of Candida antarctica lipase B in ionic liquids. Green Chemistry, 2006, 8, 282-286.	9.0	145
7	Enzyme Stability and Activity in Non-Aqueous Reaction Systems: A Mini Review. Catalysts, 2016, 6, 32.	3 . 5	124
8	Sequence of the lid affects activity and specificity of Candida rugosa lipase isoenzymes. Protein Science, 2009, 12, 2312-2319.	7.6	119
9	Structural and Enzymatic Characterization of ABgp46, a Novel Phage Endolysin with Broad Anti-Gram-Negative Bacterial Activity. Frontiers in Microbiology, 2016, 7, 208.	3 . 5	118
10	ATR-FT/IR Study on the Interactions between Gliadins and Dextrin and Their Effects on Protein Secondary Structure. Journal of Agricultural and Food Chemistry, 2005, 53, 1757-1764.	5.2	114
11	The lid is a structural and functional determinant of lipase activity and selectivity. Journal of Molecular Catalysis B: Enzymatic, 2006, 39, 166-170.	1.8	110
12	Enzymatic synthesis of various $1\hat{a}\in^2$ -O-sucrose and 1-O-fructose esters. Journal of the Chemical Society Perkin Transactions 1, 1989, , 1057-1061.	0.9	94
13	Algal Biofertilizers and Plant Growth Stimulants for Sustainable Agriculture. Industrial Biotechnology, 2018, 14, 203-211.	0.8	82
14	Purification and properties of two phospholipases D from Streptomyces sp Lipids and Lipid Metabolism, 1995, 1255, 273-279.	2.6	70
15	CD and small-angle x-ray scattering of silk fibroin in solution. Biopolymers, 1989, 28, 1613-1624.	2.4	68
16	Preparation and properties of lipase immobilized on MCM-36 support. Journal of Molecular Catalysis B: Enzymatic, 2003, 22, 119-133.	1.8	65
17	Activity of differentCandida antarctica lipase B formulations in organic solvents. Biotechnology and Bioengineering, 2001, 73, 157-163.	3.3	63
18	Regioselective acylation of bile acid derivatives with Candida cylindracea lipase in anhydrous benzene. Journal of Organic Chemistry, 1989, 54, 3161-3164.	3.2	62

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19	Purification and Characterization of a Novel Recombinant Highly Enantioselective Short-Chain NAD(H)-Dependent Alcohol Dehydrogenase from <i>Thermus thermophilus</i> . Applied and Environmental Microbiology, 2008, 74, 3949-3958.	3.1	60
20	Lipase activity and conformation in neat organic solvents. Journal of Molecular Catalysis B: Enzymatic, 2002, 19-20, 93-102.	1.8	54
21	Cloning, characterization and substrate degradation mode of a novel chitinase from Streptomyces albolongus ATCC 27414. Food Chemistry, 2018, 261, 329-336.	8.2	53
22	Optimization of Hydrolase Efficiency in Organic Solvents. Chemistry - A European Journal, 2003, 9, 3194-3199.	3.3	51
23	Optimization ofPseudomonas cepacia lipase preparations for catalysis in organic solvents. , 1999, 62, 554-561.		50
24	Immobilization and Photocurrent Activity of a Light-Harvesting Antenna Complex II, LHCII, Isolated from a Plant on Electrodes. ACS Macro Letters, 2012, 1, 296-299.	4.8	50
25	An interesting example of complementary regioselective acylation of secondary hydroxyl groups by different lipases. Tetrahedron Letters, 1989, 30, 1703-1704.	1.4	47
26	Adsorption and activities of lipases on synthetic beidellite clays with variable composition. Microporous and Mesoporous Materials, 2008, 109, 350-361.	4.4	46
27	Molecular mechanism of deactivation of C. antarctica lipase B by methanol. Journal of Biotechnology, 2013, 168, 462-469.	3.8	45
28	Asymmetric oxidation of sulfides by cyclohexanone monooxygenase. Tetrahedron: Asymmetry, 1993, 4, 1981-1982.	1.8	44
29	The C-terminal domain of the transcriptional corepressor CtBP is intrinsically unstructured. Protein Science, 2006, 15, 1042-1050.	7.6	44
30	Effects of water miscible organic solvents on the activity and conformation of the baeyer–villiger monooxygenases from <i>Thermobifida fusca</i> and <i>Acinetobacter calcoaceticus</i> comparative study. Biotechnology and Bioengineering, 2011, 108, 491-499.	3.3	44
31	Chemo-enzymatic Synthesis of 6?-O-(3-Arylprop-2-enoyl) Derivatives of the Flavonol Glucoside Isoquercitrin. Helvetica Chimica Acta, 1993, 76, 2981-2991.	1.6	42
32	Effects of pH on enantiospecificity of alcohol dehydrogenases from Thermoanaerobacter ethanolicus and horse liver. Enzyme and Microbial Technology, 1996, 19, 487-492.	3.2	39
33	Temperature-Dependent, Irreversible Formation of Amyloid Fibrils by a Soluble Human Ataxin-3 Carrying a Moderately Expanded Polyglutamine Stretch (Q36)â€. Biochemistry, 2003, 42, 14626-14632.	2.5	39
34	Fourier-transform infrared spectroscopy study of dehydrated lipases from Candida antarctica B and Pseudomonas cepacia., 1999, 64, 545-551.		38
35	Biophysical and mutagenic analysis of Thermoanaerobacter ethanolicus secondary-alcohol dehydrogenase activity and specificity. Biochemical Journal, 1997, 326, 717-724.	3.7	33
36	Activity and enantioselectivity of wildtype and lid mutated Candida rugosa lipase isoform 1 in organic solvents. Biotechnology and Bioengineering, 2004, 86, 236-240.	3.3	30

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37	Activity, stability, and conformation of methoxypoly(ethylene glycol)-subtilisin at different concentrations of water in dioxane., 1997, 54, 50-57.		29
38	Ataxin-3 is subject to autolytic cleavage. FEBS Journal, 2006, 273, 4277-4286.	4.7	27
39	Natural flavor ester synthesis catalyzed by lipases. Flavour and Fragrance Journal, 2020, 35, 209-218.	2.6	27
40	Functional Lipids in Autoimmune Inflammatory Diseases. International Journal of Molecular Sciences, 2020, 21, 3074.	4.1	27
41	A combinatorial biocatalysis approach to an array of cholic acid derivatives. Biotechnology and Bioengineering, 2003, 81, 391-396.	3.3	26
42	Mono- and disaccharides enhance the activity and enantioselectivity of Burkholderia cepacia lipase in organic solvent but do not significantly affect its conformation. Biotechnology and Bioengineering, 2005, 92, 438-446.	3.3	26
43	Cyclohexanone monooxygenase catalyzed oxidation of methyl phenyl sulfide and cyclohexanone with macromolecular NADP in a membrane reactor. Biotechnology Letters, 1993, 15, 865.	2.2	25
44	Evidence for an Essential Lysyl Residue in Phospholipase D from Streptomyces sp. by Modification with Diethyl Pyrocarbonate and Pyridoxal 5-Phosphate. Biochemistry, 1996, 35, 9631-9636.	2.5	25
45	Enantioselective enzymatic resolution of racemic alcohols by lipases in green organic solvents. Tetrahedron: Asymmetry, 2017, 28, 473-478.	1.8	25
46	Whole-Cell Biocatalytic Synthesis of Cinnamyl Acetate with a Novel Esterase from the DNA Library of <i>Acinetobacter hemolyticus</i>). Journal of Agricultural and Food Chemistry, 2017, 65, 2120-2128.	5. 2	25
47	Biocatalytic procedure for obtaining all four diastereoisomers of 1 - $(1$ -hydroxyethyl)-3-ethylferrocene: synthons for chiral 1,3-disubstituted ferrocenes. Tetrahedron: Asymmetry, 2004, 15, 3835-3840.	1.8	24
48	Time-resolved fluoroimmunoassay for quantitative determination of ampicillin in cow milk samples with different fat contents. Talanta, 2008, 77, 126-130.	5 . 5	24
49	Cargo-Compatible Encapsulation in Virus-Based Nanoparticles. Nano Letters, 2019, 19, 2700-2706.	9.1	24
50	Enzymatic transesterification monitored by an easyâ€toâ€use Fourier transform infrared spectroscopy method. Biotechnology Journal, 2013, 8, 133-138.	3.5	23
51	Application of enzymes as a feed additive in aquaculture. Marine Life Science and Technology, 2022, 4, 208-221.	4.6	23
52	Phospholipids hydrolysis in organic solvents catalysed by immobilised phospholipase C. Journal of Molecular Catalysis B: Enzymatic, 1999, 6, 125-132.	1.8	22
53	Structural and functional characterization of the porcine proline–rich antifungal peptide SPâ€B isolated from salivary gland granules. Journal of Peptide Science, 2008, 14, 251-260.	1.4	22
54	A new enzymatic route to the synthesis of 12-ketoursodeoxycholic acid. Biotechnology Letters, 1996, 18, 305.	2.2	21

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55	Pegylated enzyme entrapped in poly(vinyl alcohol) hydrogel for biocatalytic application. Il Farmaco, 2001, 56, 541-547.	0.9	21
56	Rational Design of Practically Important Enzymes. Moscow University Chemistry Bulletin, 2018, 73, 1-6.	0.6	21
57	Properties of hydrolyzed guar gum fermented in vitro with pig fecal inocula and its favorable impacts on microbiota. Carbohydrate Polymers, 2020, 237, 116116.	10.2	21
58	Can an inactivating agent increase enzyme activity in organic solvent? Effects of 18-crown-6 on lipase activity, enantioselectivity, and conformation. Biotechnology and Bioengineering, 2007, 97, 12-18.	3.3	20
59	Spectroscopic investigation of lipase fromPseudomonas cepacia solubilized in 1,4-dioxane by non-covalent complexation with methoxypoly(ethylene glycol)., 1999, 64, 624-629.		19
60	Effect of chemical composition of SBA-15 on the adsorption and catalytic activity of \hat{l}_{\pm} -chymotrypsin. Journal of Materials Chemistry, 2011, 21, 15619.	6.7	19
61	Partial purification of Nigella sativa L. Seed lipase and its application in transesterification reactions. JAOCS, Journal of the American Oil Chemists' Society, 2003, 80, 43-48.	1.9	18
62	Immobilization of Thermoanaerobium brockii alcohol dehydrogenase on SBA-15. Bioprocess and Biosystems Engineering, 2011, 34, 247-251.	3.4	18
63	Selfâ€Assembled Squaleneâ€based Fluorescent Heteronanoparticles. ChemPlusChem, 2015, 80, 47-49.	2.8	18
64	α-Chymotrypsin Immobilized on a Low-Density Polyethylene Surface Successfully Weakens Escherichia coli Biofilm Formation. International Journal of Molecular Sciences, 2018, 19, 4003.	4.1	18
65	Comparative study of the properties of wild type and recombinant cyclohexanone monooxygenase, an enzyme of synthetic interest. Journal of Molecular Catalysis B: Enzymatic, 2005, 34, 1-6.	1.8	17
66	Construction of a Super-Folder Fluorescent Protein-Guided Secretory Expression System for the Production of Phospholipase D in <i>Bacillus subtilis</i> Lournal of Agricultural and Food Chemistry, 2021, 69, 6842-6849.	5.2	17
67	The enantioselectivity of lipase PS in chlorinated solvents increases as a function of substrate conversion. Tetrahedron: Asymmetry, 1997, 8, 2167-2173.	1.8	15
68	Coating polypropylene surfaces with protease weakens the adhesion and increases the dispersion of Candida albicans cells. Biotechnology Letters, 2017, 39, 423-428.	2.2	15
69	Identification of a Novel Esterase from Marine Environmental Genomic DNA Libraries and Its Application in Production of Free All- <i>trans</i> Chemistry, 2018, 66, 2812-2821.	5.2	15
70	ï‰-Functionalized Esters by Enzymatic Acylation. Synthetic Communications, 1990, 20, 679-685.	2.1	14
71	Crystallization and preliminary X-ray diffraction studies of phospholipase D fromStreptomycessp Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 466-468.	2.5	14
72	Activation of subtilisin Carlsberg in organic solvents by methyl-β-cyclodextrin: Lyoprotection versus substrate and product-complex effect. Journal of Molecular Catalysis B: Enzymatic, 2006, 42, 20-26.	1.8	14

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73	Effect of prolonged exposure to organic solvents on the active site environment of subtilisin Carlsberg. Journal of Molecular Catalysis B: Enzymatic, 2010, 64, 38-44.	1.8	14
74	Co-immobilization of two-component hydroxylase monooxygenase by functionalized magnetic nanoparticles for preserving high catalytic activity and enhancing enzyme stabilty. International Journal of Biological Macromolecules, 2020, 164, 3163-3170.	7.5	14
75	Effects of Tyrosine Ring Fluorination on Rates and Equilibria of Formation of Intermediates in the Reactions of Carbon-Carbon Lyases. FEBS Journal, 1997, 244, 658-663.	0.2	13
76	On the activity loss of hydrolases in organic solvents: II. a mechanistic study of subtilisin Carlsberg. BMC Biotechnology, 2006, 6, 51.	3.3	13
77	Cigarette smoke induces alterations in the drug-binding properties of human serum albumin. Blood Cells, Molecules, and Diseases, 2014, 52, 166-174.	1.4	13
78	Improvement of Aspergillus flavus saponin hydrolase thermal stability and productivity via immobilization on a novel carrier based on sugarcane bagasse. Biotechnology Reports (Amsterdam,) Tj ETQq0 (0 0 r g gBT /0	verlusck 10 Tf
79	Activation/Inactivation Role of Ionic Liquids on Formate Dehydrogenase from <i>Pseudomonas</i> sp. 101 and Its Mutated Thermostable Form. ChemCatChem, 2018, 10, 3247-3259.	3.7	13
80	Rapid time-resolved fluoroimmunoassay for diethylstilbestrol in cow milk samples with a highly luminescent Tb3+ chelate. Journal of Food Composition and Analysis, 2012, 25, 221-225.	3.9	12
81	Biochemical characterization of two \hat{l}^2 -N-acetylglucosaminidases from Streptomyces violascens for efficient production of N-acetyl-d-glucosamine. Food Chemistry, 2021, 364, 130393.	8.2	12
82	Preparation of Fluorinated Amino Acids with Tyrosine Phenol Lyase. ACS Symposium Series, 1996, , 95-104.	0.5	11
83	Purification and applications of a phospholipase D from a new strain of Streptomyces. Biotechnology Letters, 1997, 19, 1083-1085.	2.2	11
84	Antibodies conjugated with new highly luminescent Eu3+ and Tb3+ chelates as markers for time resolved immunoassays. Application to simultaneous determination of clenbuterol and free cortisol in horse urine. Talanta, 2009, 80, 954-958.	5 . 5	11
85	Water miscible mono alcohols effect on the structural conformation of Bacillus clausii GMBAE 42 serine alkaline protease. Journal of Molecular Catalysis B: Enzymatic, 2010, 64, 184-188.	1.8	11
86	On the Kinetic Mechanism of Phospholipase D fromStreptomycesSP. In an Emulsion System. Biocatalysis and Biotransformation, 1997, 15, 251-264.	2.0	10
87	Electrospray mass spectrometric analysis of poly(ethylene glycol)-protein conjugates. Rapid Communications in Mass Spectrometry, 1997, 11, 1219-1222.	1.5	10
88	Temperature-Induced Conformational Change at the Catalytic Site of Sulfolobus solfataricus Alcohol Dehydrogenase Highlighted by Asn249 Tyr Substitution. A Hydrogen/Deuterium Exchange, Kinetic, and Fluorescence Quenching Study. Biochemistry, 2005, 44, 11040-11048.	2.5	10
89	Immobilized Hydrolytic Enzymes Exhibit Antibiofilm Activity Against Escherichia coli at Sub-Lethal Concentrations. Current Microbiology, 2015, 71, 106-114.	2.2	10
90	The effect of thermodynamic properties of solvent mixtures explains the difference between methanol and ethanol in C.antarctica lipase B catalyzed alcoholysis. Journal of Biotechnology, 2015, 214, 1-8.	3.8	10

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91	Cloning, Expression, and Characterization of a Novel Thermostable and Alkaline-stable Esterase from Stenotrophomonas maltophilia OUC_Est10 Catalytically Active in Organic Solvents. Catalysts, 2019, 9, 401.	3.5	10
92	Effect of Reaction Conditions on the Activity and Enantioselectivity of Lipases in Organic Solvents. Progress in Biotechnology, 1992, , 111-119.	0.2	10
93	Different Structural Behaviors Evidenced in Thaumatin-Like Proteins: A Spectroscopic Study. Protein Journal, 2008, 27, 13-20.	1.6	9
94	A chemoenzymatic approach to the synthesis of the stereoisomers of a \hat{l}^2 -adrenergic receptor antagonist. Tetrahedron: Asymmetry, 2000, 11, 2741-2751.	1.8	8
95	Effects of stabilizing additives on the activity of alpha-chymotrypsin in organic solvent. Journal of Molecular Catalysis B: Enzymatic, 2012, 84, 128-131.	1.8	8
96	Enzymatic Resolution Of 3-Butene-1, 2-Diol In Organic Solvents And Optimization Of Reaction Conditions. Biocatalysis and Biotransformation, 1999, 17, 241-250.	2.0	6
97	Biocatalytic synthesis of cyclopropanol from cyclopropyl methyl ketone using whole cells of Rhodococcus erythropolis. Journal of Molecular Catalysis B: Enzymatic, 2003, 21, 51-53.	1.8	6
98	Role of methoxypolyethylene glycol on the hydration, activity, conformation and dynamic properties of a lipase in a dry film. Biotechnology and Bioengineering, 2008, 101, 255-262.	3.3	6
99	The effect of methionine to cysteine substitution on the stability of formate dehydrogenase from Candida methylica. Journal of Molecular Catalysis B: Enzymatic, 2012, 82, 109-114.	1.8	6
100	Fatty acid composition and fat content in milk from cows grazing in the Alpine region. European Food Research and Technology, 2015, 241, 413-418.	3.3	6
101	Visible-light-driven CO2reduction to formate with a system of water-soluble zinc porphyrin and formate dehydrogenase in ionic liquid/aqueous media. RSC Advances, 2020, 10, 42354-42362.	3.6	6
102	Enzymatic Regioselective Acylation of Polyhydroxylated Natural Compounds in Organic Solvents. Annals of the New York Academy of Sciences, 1990, 613, 712-716.	3.8	4
103	Partial purification of nigella sativa L. Seed lipase and its application in hydrolytic reactions. Enrichment of \hat{I}^3 -linolenic acid from borage oil. JAOCS, Journal of the American Oil Chemists' Society, 2003, 80, 237-241.	1.9	4
104	Preparation and Comparison of Hydrolase-Coated Plastics. ChemistrySelect, 2016, 1, 1490-1495.	1.5	4
105	Step-wise immobilization of multi-enzymes by zirconium-based coordination polymer in situ self-assembly and specific absorption. Journal of Inorganic Biochemistry, 2020, 208, 111093.	3.5	4
106	Discriminating between dispersion and lyoprotection effects in biocatalysis in organic media. Canadian Journal of Chemistry, 2002, 80, 551-554.	1.1	3
107	Highly efficient preparation of free allâ€∢i>transàâ€astaxanthin from ⟨i>Haematococcus pluvialis⟨i> extract by a rapid biocatalytic method based on crude extracellular enzyme extract. International Journal of Food Science and Technology, 2019, 54, 376-386.	2.7	3
108	Galvanic Displacement of Nanostructured Gold for Flavoenzyme Adsorption in Biotechnology. ECS Transactions, 2010, 33, 59-66.	0.5	2

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109	Editorial: Protein stabilization – crossroad for proteinâ€based processes and products. Biotechnology Journal, 2015, 10, 341-342.	3.5	2
110	Oxidation of Terpenoids to Achieve High-Value Flavor and Fragrancesâ€"Questioning Microalgae Oxidative Capabilities in the Biotransformation of the Sesquiterpene Valencene and of Selected Natural Apocarotenoids. Chemistry, 2021, 3, 821-830.	2.2	2
111	Electroless Synthesis of Metallic Nanostructures for Biomedical Technologies. Modern Aspects of Electrochemistry, 2012, , 73-99.	0.2	1
112	Water-Retaining Polymers in Organic Solvent Increase Lipase Activity for Biodiesel Synthesis. Insights in Enzyme Research, 2018, 01, .	0.3	1
113	Enhanced whole-cell biotransformation of 3-chloropropiophenone into 1-phenyl-1-propanone by hydrogel entrapped Chlorella emersonii (211.8b). Biotechnology Letters, 2021, 43, 2259-2272.	2.2	1
114	Optimization of Hydrolase Efficiency in Organic Solvents ChemInform, 2003, 34, no.	0.0	0
115	Importance of Enzyme Formulation for the Activity and Enantioselectivity of Lipases in Organic Solvents., 0,, 67-77.		O
116	Nanostructured Gold for Immobilization of Thioaniline Functionalized Glucose Oxidase and Au Nanoparticles by Electropolymerization. ECS Transactions, 2013, 45, 31-35.	0.5	0
117	Gliadins and Polysaccharides Interaction. Special Publication - Royal Society of Chemistry, 2007, , 349-352.	0.0	O