Francesco Secundo

List of Publications by Year
in descending order

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117	4,413	126858	123376
papers	citations	33 h-index	61 g-index

126	126	126	5200
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of enzymes as a feed additive in aquaculture. Marine Life Science and Technology, 2022, 4, 208-221.	1.8	23
2	Construction of a Super-Folder Fluorescent Protein-Guided Secretory Expression System for the Production of Phospholipase D in Bacillus subtilis. Journal of Agricultural and Food Chemistry, 2021, 69, 6842-6849.	2.4	17
3	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.	0.9	2
4	Biochemical characterization of two Î²-N-acetylglucosaminidases from Streptomyces violascens for efficient production of N-acetyl-d-glucosamine. Food Chemistry, 2021, 364, 130393.	4.2	12
5	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.	1.1	1
6	Natural flavor ester synthesis catalyzed by lipases. Flavour and Fragrance Journal, 2020, 35, 209-218.	1.2	27
7	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.	1.7	6
8	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.	3.6	14
9	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.	1.5	4
10	Properties of hydrolyzed guar gum fermented in vitro with pig fecal inocula and its favorable impacts on microbiota. Carbohydrate Polymers, 2020, 237, 116116.	5.1	21
11	Functional Lipids in Autoimmune Inflammatory Diseases. International Journal of Molecular Sciences, 2020, 21, 3074.	1.8	27
12	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.	1.6	10
13	Cargo-Compatible Encapsulation in Virus-Based Nanoparticles. Nano Letters, 2019, 19, 2700-2706.	4.5	24
14	Highly efficient preparation of free allâ€transâ€astaxanthin from Haematococcus pluvialis extract by a rapid biocatalytic method based on crude extracellular enzyme extract. International Journal of Food Science and Technology, 2019, 54, 376-386.	1.3	3
15	Identification of a Novel Esterase from Marine Environmental Genomic DNA Libraries and Its Application in Production of Free All-trans-Astaxanthin. Journal of Agricultural and Food Chemistry, 2018, 66, 2812-2821.	2.4	15
16	Cloning, characterization and substrate degradation mode of a novel chitinase from Streptomyces albolongus ATCC 27414. Food Chemistry, 2018, 261, 329-336.	4.2	53
17	Biotechnological Applications of Proteases in Food Technology. Comprehensive Reviews in Food Science and Food Safety, 2018, 17, 412-436.	5.9	183
18	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 rgBT /Overlock 10 Tf 5	2.8	13

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19	Activation/Inactivation Role of Ionic Liquids on Formate Dehydrogenase from Pseudomonas sp. 101 and Its Mutated Thermostable Form. ChemCatChem, 2018, 10, 3247-3259.	1.8	13
20	Water-Retaining Polymers in Organic Solvent Increase Lipase Activity for Biodiesel Synthesis. Insights in Enzyme Research, 2018, 01, .	0.3	1
21	Î±-Chymotrypsin Immobilized on a Low-Density Polyethylene Surface Successfully Weakens Escherichia coli Biofilm Formation. International Journal of Molecular Sciences, 2018, 19, 4003.	1.8	18
22	Rational Design of Practically Important Enzymes. Moscow University Chemistry Bulletin, 2018, 73, 1-6.	0.2	21
23	Algal Biofertilizers and Plant Growth Stimulants for Sustainable Agriculture. Industrial Biotechnology, 2018, 14, 203-211.	0.5	82
24	Enantioselective enzymatic resolution of racemic alcohols by lipases in green organic solvents. Tetrahedron: Asymmetry, 2017, 28, 473-478.	1.8	25
25	Whole-Cell Biocatalytic Synthesis of Cinnamyl Acetate with a Novel Esterase from the DNA Library of Acinetobacter hemolyticus. Journal of Agricultural and Food Chemistry, 2017, 65, 2120-2128.	2.4	25
26	Coating polypropylene surfaces with protease weakens the adhesion and increases the dispersion of Candida albicans cells. Biotechnology Letters, 2017, 39, 423-428.	1.1	15
27	Enzyme Stability and Activity in Non-Aqueous Reaction Systems: A Mini Review. Catalysts, 2016, 6, 32.	1.6	124
28	Structural and Enzymatic Characterization of ABgp46, a Novel Phage Endolysin with Broad Anti-Gram-Negative Bacterial Activity. Frontiers in Microbiology, 2016, 7, 208.	1.5	118
29	Preparation and Comparison of Hydrolase-Coated Plastics. ChemistrySelect, 2016, 1, 1490-1495.	0.7	4
30	Editorial: Protein stabilization â€“ crossroad for proteinâ€based processes and products. Biotechnology Journal, 2015, 10, 341-342.	1.8	2
31	Immobilized Hydrolytic Enzymes Exhibit Antibiofilm Activity Against Escherichia coli at Sub-Lethal Concentrations. Current Microbiology, 2015, 71, 106-114.	1.0	10
32	Fatty acid composition and fat content in milk from cows grazing in the Alpine region. European Food Research and Technology, 2015, 241, 413-418.	1.6	6
33	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.	1.9	10
34	Selfâ€Assembled Squaleneâ€based Fluorescent Heteronanoparticles. ChemPlusChem, 2015, 80, 47-49.	1.3	18
35	Cigarette smoke induces alterations in the drug-binding properties of human serum albumin. Blood Cells, Molecules, and Diseases, 2014, 52, 166-174.	0.6	13
36	Molecular mechanism of deactivation of C. antarctica lipase B by methanol. Journal of Biotechnology, 2013, 168, 462-469.	1.9	45

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37	Conformational changes of enzymes upon immobilisation. Chemical Society Reviews, 2013, 42, 6250.	18.7	484
38	Enzymatic transesterification monitored by an easyâ€toâ€use Fourier transform infrared spectroscopy method. Biotechnology Journal, 2013, 8, 133-138.	1.8	23
39	Nanostructured Gold for Immobilization of Thioaniline Functionalized Glucose Oxidase and Au Nanoparticles by Electropolymerization. ECS Transactions, 2013, 45, 31-35.	0.3	0
40	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.	2.3	50
41	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
42	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
43	Electroless Synthesis of Metallic Nanostructures for Biomedical Technologies. Modern Aspects of Electrochemistry, 2012, , 73-99.	0.2	1
44	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.	1.9	12
45	Effect of chemical composition of SBA-15 on the adsorption and catalytic activity of Î±-chymotrypsin. Journal of Materials Chemistry, 2011, 21, 15619.	6.7	19
46	Immobilization of Thermoanaerobium brockii alcohol dehydrogenase on SBA-15. Bioprocess and Biosystems Engineering, 2011, 34, 247-251.	1.7	18
47	Effects of water miscible organic solvents on the activity and conformation of the baeyerâ€“villiger monooxygenases from Thermobifida fusca and Acinetobacter calcoaceticus: A comparative study. Biotechnology and Bioengineering, 2011, 108, 491-499.	1.7	44
48	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
49	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
50	Galvanic Displacement of Nanostructured Gold for Flavoenzyme Adsorption in Biotechnology. ECS Transactions, 2010, 33, 59-66.	0.3	2
51	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.	2.9	11
52	Sequence of the lid affects activity and specificity of Candida rugosa lipase isoenzymes. Protein Science, 2009, 12, 2312-2319.	3.1	119
53	Different Structural Behaviors Evidenced in Thaumatin-Like Proteins: A Spectroscopic Study. Protein Journal, 2008, 27, 13-20.	0.7	9
54	Structural and functional characterization of the porcine prolineâ€“rich antifungal peptide SPâ€B isolated from salivary gland granules. Journal of Peptide Science, 2008, 14, 251-260.	0.8	22

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55	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.	1.7	6
56	Adsorption and activities of lipases on synthetic beidellite clays with variable composition. Microporous and Mesoporous Materials, 2008, 109, 350-361.	2.2	46
57	Time-resolved fluoroimmunoassay for quantitative determination of ampicillin in cow milk samples with different fat contents. Talanta, 2008, 77, 126-130.	2.9	24
58	Purification and Characterization of a Novel Recombinant Highly Enantioselective Short-Chain NAD(H)-Dependent Alcohol Dehydrogenase from Thermus thermophilus. Applied and Environmental Microbiology, 2008, 74, 3949-3958.	1.4	60
59	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.	1.7	20
60	Gliadins and Polysaccharides Interaction. Special Publication - Royal Society of Chemistry, 2007, , 349-352.	0.0	0
61	Structure and activity of Candida antarctica lipase B in ionic liquids. Green Chemistry, 2006, 8, 282-286.	4.6	145
62	On the activity loss of hydrolases in organic solvents: II. a mechanistic study of subtilisin Carlsberg. BMC Biotechnology, 2006, 6, 51.	1.7	13
63	Ataxin-3 is subject to autolytic cleavage. FEBS Journal, 2006, 273, 4277-4286.	2.2	27
64	The C-terminal domain of the transcriptional corepressor CtBP is intrinsically unstructured. Protein Science, 2006, 15, 1042-1050.	3.1	44
65	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
66	Activation of subtilisin Carlsberg in organic solvents by methyl-Î²-cyclodextrin: Lyoprotection versus substrate and product-complex effect. Journal of Molecular Catalysis B: Enzymatic, 2006, 42, 20-26.	1.8	14
67	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
68	Mono- and disaccharides enhance the activity and enantioselectivity ofBurkholderia cepacia lipase in organic solvent but do not significantly affect its conformation. Biotechnology and Bioengineering, 2005, 92, 438-446.	1.7	26
69	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.	2.4	114
70	Temperature-Induced Conformational Change at the Catalytic Site ofSulfolobus solfataricusAlcohol Dehydrogenase Highlighted by Asn249Tyr Substitution. A Hydrogen/Deuterium Exchange, Kinetic, and Fluorescence Quenching Study. Biochemistry, 2005, 44, 11040-11048.	1.2	10
71	Activity and enantioselectivity of wildtype and lid mutatedCandida rugosa lipase isoform 1 in organic solvents. Biotechnology and Bioengineering, 2004, 86, 236-240.	1.7	30
72	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

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73	Dissolution of Candida antarctica lipase B in ionic liquids: effects on structure and activity. Green Chemistry, 2004, 6, 483.	4.6	300
74	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.	0.8	18
75	Partial purification of nigella sativa L. Seed lipase and its application in hydrolytic reactions. Enrichment of Î³-linolenic acid from borage oil. JAOCS, Journal of the American Oil Chemists' Society, 2003, 80, 237-241.	0.8	4
76	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
77	Preparation and properties of lipase immobilized on MCM-36 support. Journal of Molecular Catalysis B: Enzymatic, 2003, 22, 119-133.	1.8	65
78	Optimization of Hydrolase Efficiency in Organic Solvents.. ChemInform, 2003, 34, no.	0.1	0
79	Optimization of Hydrolase Efficiency in Organic Solvents. Chemistry - A European Journal, 2003, 9, 3194-3199.	1.7	51
80	A combinatorial biocatalysis approach to an array of cholic acid derivatives. Biotechnology and Bioengineering, 2003, 81, 391-396.	1.7	26
81	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.	1.2	39
82	Discriminating between dispersion and lyoprotection effects in biocatalysis in organic media. Canadian Journal of Chemistry, 2002, 80, 551-554.	0.6	3
83	Lipase activity and conformation in neat organic solvents. Journal of Molecular Catalysis B: Enzymatic, 2002, 19-20, 93-102.	1.8	54
84	Activity of differentCandida antarctica lipase B formulations in organic solvents. Biotechnology and Bioengineering, 2001, 73, 157-163.	1.7	63
85	Pegylated enzyme entrapped in poly(vinyl alcohol) hydrogel for biocatalytic application. Il Farmaco, 2001, 56, 541-547.	0.9	21
86	Crystallization and preliminary X-ray diffraction studies of phospholipase D fromStreptomycessp.. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 466-468.	2.5	14
87	A chemoenzymatic approach to the synthesis of the stereoisomers of a Î²-adrenergic receptor antagonist. Tetrahedron: Asymmetry, 2000, 11, 2741-2751.	1.8	8
88	The first crystal structure of a phospholipase D. Structure, 2000, 8, 655-667.	1.6	167
89	Phospholipids hydrolysis in organic solvents catalysed by immobilised phospholipase C. Journal of Molecular Catalysis B: Enzymatic, 1999, 6, 125-132.	1.8	22
90	Optimization ofPseudomonas cepacia lipase preparations for catalysis in organic solvents. , 1999, 62, 554-561.		50

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91	Fourier-transform infrared spectroscopy study of dehydrated lipases fromCandida antarctica B andPseudomonas cepacia. , 1999, 64, 545-551.		38
92	Spectroscopic investigation of lipase fromPseudomonas cepacia solubilized in 1,4-dioxane by non-covalent complexation with methoxypoly(ethylene glycol). , 1999, 64, 624-629.		19
93	Enzymatic Resolution Of 3-Butene-1, 2-Diol In Organic Solvents And Optimization Of Reaction Conditions. Biocatalysis and Biotransformation, 1999, 17, 241-250.	1.1	6
94	On the Kinetic Mechanism of Phospholipase D fromStreptomycesSP. In an Emulsion System. Biocatalysis and Biotransformation, 1997, 15, 251-264.	1.1	10
95	Biophysical and mutagenic analysis of Thermoanaerobacter ethanolicus secondary-alcohol dehydrogenase activity and specificity. Biochemical Journal, 1997, 326, 717-724.	1.7	33
96	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
97	Purification and applications of a phospholipase D from a new strain of Streptomyces. Biotechnology Letters, 1997, 19, 1083-1085.	1.1	11
98	The enantioselectivity of lipase PS in chlorinated solvents increases as a function of substrate conversion. Tetrahedron: Asymmetry, 1997, 8, 2167-2173.	1.8	15
99	Electrospray mass spectrometric analysis of poly(ethylene glycol)-protein conjugates. Rapid Communications in Mass Spectrometry, 1997, 11, 1219-1222.	0.7	10
100	Activity, stability, and conformation of methoxypoly(ethylene glycol)-subtilisin at different concentrations of water in dioxane. , 1997, 54, 50-57.		29
101	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.	1.2	25
102	Preparation of Fluorinated Amino Acids with Tyrosine Phenol Lyase. ACS Symposium Series, 1996, , 95-104.	0.5	11
103	Effects of pH on enantiospecificity of alcohol dehydrogenases from Thermoanaerobacter ethanolicus and horse liver. Enzyme and Microbial Technology, 1996, 19, 487-492.	1.6	39
104	A new enzymatic route to the synthesis of 12-ketoursodeoxycholic acid. Biotechnology Letters, 1996, 18, 305.	1.1	21
105	Purification and properties of two phospholipases D from Streptomyces sp.. Lipids and Lipid Metabolism, 1995, 1255, 273-279.	2.6	70
106	Chemo-enzymatic Synthesis of 6?-O-(3-Arylprop-2-enoyl) Derivatives of the Flavonol Glucoside Isoquercitrin. Helvetica Chimica Acta, 1993, 76, 2981-2991.	1.0	42
107	Cyclohexanone monooxygenase catalyzed oxidation of methyl phenyl sulfide and cyclohexanone with macromolecular NADP in a membrane reactor. Biotechnology Letters, 1993, 15, 865.	1.1	25
108	Asymmetric oxidation of sulfides by cyclohexanone monooxygenase. Tetrahedron: Asymmetry, 1993, 4, 1981-1982.	1.8	44

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109	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
110	Effect of Reaction Conditions on the Activity and Enantioselectivity of Lipases in Organic Solvents. Progress in Biotechnology, 1992, , 111-119.	0.2	10
111	Ï‰-Functionalized Esters by Enzymatic Acylation. Synthetic Communications, 1990, 20, 679-685.	1.1	14
112	Enzymatic Regioselective Acylation of Polyhydroxylated Natural Compounds in Organic Solvents. Annals of the New York Academy of Sciences, 1990, 613, 712-716.	1.8	4
113	CD and small-angle x-ray scattering of silk fibroin in solution. Biopolymers, 1989, 28, 1613-1624.	1.2	68
114	An interesting example of complementary regioselective acylation of secondary hydroxyl groups by different lipases. Tetrahedron Letters, 1989, 30, 1703-1704.	0.7	47
115	Regioselective acylation of bile acid derivatives with Candida cylindracea lipase in anhydrous benzene. Journal of Organic Chemistry, 1989, 54, 3161-3164.	1.7	62
116	Enzymatic synthesis of various 1â€²-O-sucrose and 1-O-fructose esters. Journal of the Chemical Society Perkin Transactions 1, 1989, , 1057-1061.	0.9	94
117	Importance of Enzyme Formulation for the Activity and Enantioselectivity of Lipases in Organic Solvents. , 0, , 67-77.		0