Marina Lotti

List of Publications by Year
in descending order

91 papers	3,501 citations	147566 31 h-index	155451 55 g-index
98 all docs	98 docs citations	98 times ranked	3854 citing authors

#	Article	IF	Citations
1	Shortâ€chain alcohols inactivate an immobilized industrial lipase through two different mechanisms. Biotechnology Journal, 2022, 17, e2100712.	1.8	16
2	The coâ€existence of cold activity and thermal stability in an Antarctic GH42 Î²â€galactosidase relies on its hexameric quaternary arrangement. FEBS Journal, 2021, 288, 546-565.	2.2	31
3	Structural and dynamics analysis of intrinsically disordered proteins by high-speed atomic force microscopy. Nature Nanotechnology, 2021, 16, 181-189.	15.6	69
4	Education for a biobased economy: Integrating life and social sciences in flexible short courses accessible from different backgrounds. New Biotechnology, 2021, 60, 72-75.	2.4	10
5	Cold-Active Î²-Galactosidases: Insight into Cold Adaptation Mechanisms and Biotechnological Exploitation. Marine Drugs, 2021, 19, 43.	2.2	32
6	The activity and stability of a cold-active acylaminoacyl peptidase rely on its dimerization by domain swapping. International Journal of Biological Macromolecules, 2021, 181, 263-274.	3.6	5
7	The GH19 Engineering Database: Sequence diversity, substrate scope, and evolution in glycoside hydrolase family 19. PLoS ONE, 2021, 16, e0256817.	1.1	14
8	The â€œcold revolutionâ€. Present and future applications of cold-active enzymes and ice-binding proteins. New Biotechnology, 2020, 55, 5-11.	2.4	61
9	Endolysins from Antarctic Pseudomonas Display Lysozyme Activity at Low Temperature. Marine Drugs, 2020, 18, 579.	2.2	10
10	Conversion of sugar beet residues into lipids by Lipomyces starkeyi for biodiesel production. Microbial Cell Factories, 2020, 19, 204.	1.9	18
11	Diverse effects of aqueous polar co-solvents on Candida antarctica lipase B. International Journal of Biological Macromolecules, 2020, 150, 930-940.	3.6	23
12	Saturn-Shaped Ice Burst Pattern and Fast Basal Binding of an Ice-Binding Protein from an Antarctic Bacterial Consortium. Langmuir, 2019, 35, 7337-7346.	1.6	12
13	Enzymatic Production of Biodiesel: Strategies to Overcome Methanol Inactivation. Biotechnology Journal, 2018, 13, e1700155.	1.8	54
14	Structure of a bacterial ice binding protein with two faces of interaction with ice. FEBS Journal, 2018, 285, 1653-1666.	2.2	21
15	Antarctic marine ciliates under stress: superoxide dismutases from the psychrophilic Euplotes focardii are cold-active yet heat tolerant enzymes. Scientific Reports, 2018, 8, 14721.	1.6	35
16	Aggregation properties of a disordered protein are tunable by pH and depend on its net charge per residue. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2543-2550.	1.1	29
17	The importance of fermentative conditions for the biotechnological production of lignin modifying enzymes from white-rot fungi. FEMS Microbiology Letters, 2017, 364, .	0.7	25
18	Cryoâ€protective effect of an iceâ€binding protein derived from Antarctic bacteria. FEBS Journal, 2017, 284, 163-177.	2.2	64

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19	Bioinformatics Challenges and Potentialities in Studying Extreme Environments. Lecture Notes in Computer Science, 2016, , 205-219.	1.0	0
20	A bacterial acyl aminoacyl peptidase couples flexibility and stability as a result of cold adaptation. FEBS Journal, 2016, 283, 4310-4324.	2.2	19
21	<i>Burkholderia cepacia</i> lipase is a promising biocatalyst for biofuel production. Biotechnology Journal, 2016, 11, 954-960.	1.8	28
22	Evaluation of the Conformational Stability of Recombinant Desulfurizing Enzymes from a Newly Isolated Rhodococcus sp.. Molecular Biotechnology, 2016, 58, 1-11.	1.3	5
23	Editorial: Protein stabilization â€" crossroad for proteinâ€based processes and products. Biotechnology Journal, 2015, 10, 341-342.	1.8	2
24	Sulfated and sulfonated polymers are able to solubilize efficiently the protein aggregates of different nature. Archives of Biochemistry and Biophysics, 2015, 567, 22-29.	1.4	28
25	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
26	Effects of methanol on lipases: Molecular, kinetic and process issues in the production of biodiesel. Biotechnology Journal, 2015, 10, 22-30.	1.8	140
27	Why and how protein aggregation has to be studied in vivo. Microbial Cell Factories, 2013, 12, 17.	1.9	39
28	Effects of methanol on a methanol-tolerant bacterial lipase. Applied Microbiology and Biotechnology, 2013, 97, 8609-8618.	1.7	35
29	Molecular mechanism of deactivation of C. antarctica lipase B by methanol. Journal of Biotechnology, 2013, 168, 462-469.	1.9	45
30	Reciprocal Influence of Protein Domains in the Cold-Adapted Acyl Aminoacyl Peptidase from Sporosarcina psychrophila. PLoS ONE, 2013, 8, e56254.	1.1	12
31	Amplification of the CUP1 gene is associated with evolution of copper tolerance in Saccharomyces cerevisiae. Microbiology (United Kingdom), 2012, 158, 2325-2335.	0.7	47
32	Mutual effects of disorder and order in fusion proteins between intrinsically disordered domains and fluorescent proteins. Molecular BioSystems, 2012, 8, 105-113.	2.9	4
33	Laboratory evolution of copper tolerant yeast strains. Microbial Cell Factories, 2012, 11, 1.	1.9	189
34	Compaction Properties of an Intrinsically Disordered Protein: Sic1 and Its Kinase-Inhibitor Domain. Biophysical Journal, 2011, 100, 2243-2252.	0.2	62
35	Promiscuity, stability and cold adaptation of a newly isolated acylaminoacyl peptidase. Biochimie, 2011, 93, 1543-1554.	1.3	22
36	Bacterial inclusion bodies as active and dynamic protein ensembles. FEBS Journal, 2011, 278, 2407-2407.	2.2	4

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37	Concepts and tools to exploit the potential of bacterial inclusion bodies in protein science and biotechnology. FEBS Journal, 2011, 278, 2408-2418.	2.2	57
38	Defining Structural Domains of an Intrinsically Disordered Protein: Sic1, the Cyclin-Dependent Kinase Inhibitor of Saccharomyces cerevisiae. Molecular Biotechnology, 2011, 47, 34-42.	1.3	10
39	Plasma-induced graft-polymerization of polyethylene glycol acrylate on polypropylene films: Chemical characterization and evaluation of the protein adsorption. Journal of Colloid and Interface Science, 2010, 341, 53-58.	5.0	58
40	How disorder influences order and vice versaâ€ƒâ€“â€ƒmutual effects in fusion proteins containing an intrinsically disordered and a globular protein. FEBS Journal, 2010, 277, 4438-4451.	2.2	18
41	Evolution of Stability in a Cold-Active Enzyme Elicits Specificity Relaxation and Highlights Substrate-Related Effects on Temperature Adaptation. Journal of Molecular Biology, 2010, 395, 155-166.	2.0	29
42	Recombinant lipase from<i>Candida rugosa</i>for regioselective hydrolysis of peracetylated nucleosides. A comparison with commercial non-recombinant lipases. Biocatalysis and Biotransformation, 2010, 28, 108-116.	1.1	13
43	Order propensity of an intrinsically disordered protein, the cyclinâ€dependentâ€kinase inhibitor Sic1. Proteins: Structure, Function and Bioinformatics, 2009, 76, 731-746.	1.5	64
44	Deactivation and unfolding are uncoupled in a bacterial lipase exposed to heat, low pH and organic solvents. Journal of Biotechnology, 2009, 141, 42-46.	1.9	22
45	Effects of recombinant protein misfolding and aggregation on bacterial membranes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 263-269.	1.1	41
46	Electrosprayâ€ionization mass spectrometry as a tool for fast screening of protein structural properties. Biotechnology Journal, 2009, 4, 73-87.	1.8	28
47	Relevance of metal ions for lipase stability: Structural rearrangements induced in the Burkholderia glumae lipase by calcium depletion. Journal of Structural Biology, 2009, 168, 562-570.	1.3	28
48	Sequence of the lid affects activity and specificity of Candida rugosa lipase isoenzymes. Protein Science, 2009, 12, 2312-2319.	3.1	119
49	Components of the E. coli envelope are affected by and can react to protein over-production in the cytoplasm. Microbial Cell Factories, 2009, 8, 32.	1.9	14
50	Fourier transform infrared spectroscopy analysis of the conformational quality of recombinant proteins within inclusion bodies. Biotechnology Journal, 2008, 3, 193-201.	1.8	75
51	Unscrambling thermal stability and temperature adaptation in evolved variants of a coldâ€active lipase. FEBS Letters, 2008, 582, 2313-2318.	1.3	20
52	In vivo aggregation of bovine Î²-lactoglobulin is affected by Cys at position 121. Protein Expression and Purification, 2008, 62, 111-115.	0.6	12
53	Lipases: Molecular Structure and Function. , 2007, , 263-281.		33
54	Title is missing!. Microbial Cell Factories, 2006, 5, P2.	1.9	0

#	Article	IF	Citations
55	Title is missing!. Microbial Cell Factories, 2006, 5, S10.	1.9	0
56	Acyl transfer strategy for the biocatalytical characterisation of Candida rugosa lipases in organic solvents. Enzyme and Microbial Technology, 2006, 38, 199-208.	1.6	15
57	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
58	Comparison of bovine and porcine Î²-lactoglobulin: a mass spectrometric analysis. Journal of Mass Spectrometry, 2006, 41, 717-727.	0.7	31
59	Secondary structure, conformational stability and glycosylation of a recombinant Candida rugosa lipase studied by Fourier-transform infrared spectroscopy. Biochemical Journal, 2005, 385, 511-517.	1.7	167
60	Mutations in the â€œlidâ€•region affect chain length specificity and thermostability of aPseudomonas fragilipase. FEBS Letters, 2005, 579, 2383-2386.	1.3	89
61	Kinetics of inclusion body formation studied in intact cells by FT-IR spectroscopy. FEBS Letters, 2005, 579, 3433-3436.	1.3	86
62	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
63	Heterologous expression of bovine and porcine Î²-lactoglobulins in Pichia pastoris: towards a comparative functional characterisation. Journal of Biotechnology, 2004, 109, 169-178.	1.9	8
64	Recombinant proteins and host cell physiology. Journal of Biotechnology, 2004, 109, 1-2.	1.9	6
65	Monitoring the transport of recombinantCandida rugosalipase by a green fluorescent protein-lipase fusion. Biotechnology Letters, 2003, 25, 1945-1948.	1.1	9
66	Application of Siteâ€Directed Lipase Mutants on Regioselective Acylation of Monosaccharides. Journal of Carbohydrate Chemistry, 2003, 22, 631-644.	0.4	11
67	The cold-active lipase of Pseudomonas fragi. FEBS Journal, 2002, 269, 3321-3328.	0.2	95
68	High lipase production by Candida rugosa is associated with G1 cells. A flow cytometry study. Biotechnology Letters, 2001, 23, 1803-1808.	1.1	4
69	Effect of different carbon sources on lipase production by Candida rugosa. Enzyme and Microbial Technology, 2000, 26, 657-663.	1.6	154
70	Design and realization of a tailor-made enzyme to modify the molecular recognition of 2-arylpropionic esters by Candida rugosa lipase. BBA - Proteins and Proteomics, 2000, 1543, 146-158.	2.1	26
71	Mutants provide evidence of the importance of glycosydic chains in the activation of lipase 1 from <i>Candida rugosa</i>. Protein Science, 2000, 9, 985-990.	3.1	34
72	Characterization of the Candida rugosa lipase system and overexpression of the lip1 isoenzyme in a non-conventional yeast. Chemistry and Physics of Lipids, 1998, 93, 47-55.	1.5	23

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73	Physiological control on the expression and secretion of Candida rugosa lipase. Chemistry and Physics of Lipids, 1998, 93, 143-148.	1.5	71
74	Design, total synthesis, and functional overexpression of the Candida rugosa lipl gene coding for a major industrial lipase. Protein Science, 1998, 7, 1415-1422.	3.1	114
75	[14] Cloning, sequencing, and expression of Candida rugosa lipases. Methods in Enzymology, 1997, 284, 246-260.	0.4	14
76	The evolution of a non universal codon as detected in Candida rugosa lipase. Journal of Molecular Catalysis B: Enzymatic, 1997, 3, 37-41.	1.8	4
77	Effect of the leader sequence on the expression of recombinant C. rugosa lipase by S. cerevisiae cells. Biotechnology Letters, 1996, 18, 281.	1.1	16
78	Candida Rugosa Lipase Isozymes. , 1996, , 115-124.		6
79	Localization of lipase genes on Candida rugosa chromosomes. Current Genetics, 1995, 28, 454-457.	0.8	32
80	Variability within the Candida rugosa Upases family. Protein Engineering, Design and Selection, 1994, 7, 531-535.	1.0	97
81	Cloning and analysis of Candida cylindracea lipase sequences. Gene, 1993, 124, 45-55.	1.0	131
82	Homology-derived three-dimensional structure prediction of Candida cylindracea lipase. Lipids and Lipid Metabolism, 1992, 1165, 129-133.	2.6	10
83	Enhanced expression of heterologous proteins by the use of a superinducible vector in budding yeast. Applied Microbiology and Biotechnology, 1992, 36, 655-8.	1.7	15
84	Cloning and nucleotide sequences of two lipase genes from Candida cylindracea. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1992, 1131, 227-232.	2.4	77
85	Localization of proteins L4, L5, L20 and L25 on the ribosomal surface by immuno-electron microscopy. Molecular Genetics and Genomics, 1989, 216, 245-253.	2.4	12
86	Expression of cloned Saccharomyces diastaticus glucoamylase under natural and inducible promoters. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1989, 1008, 168-176.	2.4	17
87	Physiological and genetic modulation of inducible expression ofEscherichia coli ?-galactosidase inSaccharomyces cerevisiae. Applied Microbiology and Biotechnology, 1988, 28, 160-165.	1.7	14
88	Localization of ribosomal protein L27 at the peptidyl transferase centre of the 50 S subunit, as determined by immuno-electron microscopy. Molecular Genetics and Genomics, 1987, 210, 498-503.	2.4	7
89	Location of protein S4 on the small ribosomal subunit of E. coli and B. stearothermophilus with protein- and hapten-specific antibodies. Molecular Genetics and Genomics, 1984, 197, 8-18.	2.4	24
90	Comparative electron microscopic study on the location of ribosomal proteins S3 and S7 on the surface of the E. coli 30S subunit using monoclonal and conventional antibody. Molecular Genetics and Genomics, 1984, 197, 189-195.	2.4	25

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91	Characterisation of a mutant from Escherichia coli lacking protein L15 and localisation of protein L15 by immuno-electron microscopy. Molecular Genetics and Genomics, 1983, 192, 295-300.	2.4	51