Marina Lotti

List of Publications by Year
in descending order

91 papers	3,501 citations	147801 31 h-index	155660 55 g-index
98 all docs	98 docs citations	98 times ranked	3854 citing authors

#	ARTICLE	IF	CITATIONS
1	Laboratory evolution of copper tolerant yeast strains. Microbial Cell Factories, 2012, 11, 1.	4.0	189
2	Secondary structure, conformational stability and glycosylation of a recombinant <i>Candida rugosa</i> lipase studied by Fourier-transform infrared spectroscopy. Biochemical Journal, 2005, 385, 511-517.	3.7	167
3	Effect of different carbon sources on lipase production by Candida rugosa. Enzyme and Microbial Technology, 2000, 26, 657-663.	3.2	154
4	Effects of methanol on lipases: Molecular, kinetic and process issues in the production of biodiesel. Biotechnology Journal, 2015, 10, 22-30.	3.5	140
5	Cloning and analysis of Candida cylindracea lipase sequences. Gene, 1993, 124, 45-55.	2.2	131
6	Sequence of the lid affects activity and specificity of Candida rugosa lipase isoenzymes. Protein Science, 2009, 12, 2312-2319.	7.6	119
7	Design, total synthesis, and functional overexpression of the Candida rugosa lipl gene coding for a major industrial lipase. Protein Science, 1998, 7, 1415-1422.	7.6	114
8	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
9	Variability within the Candida rugosa Upases family. Protein Engineering, Design and Selection, 1994, 7, 531-535.	2.1	97
10	The cold-active lipase of Pseudomonas fragi. FEBS Journal, 2002, 269, 3321-3328.	0.2	95
11	Mutations in the â€œlidâ€•region affect chain length specificity and thermostability of aPseudomonas fragilipase. FEBS Letters, 2005, 579, 2383-2386.	2.8	89
12	Kinetics of inclusion body formation studied in intact cells by FT-IR spectroscopy. FEBS Letters, 2005, 579, 3433-3436.	2.8	86
13	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
14	Fourier transform infrared spectroscopy analysis of the conformational quality of recombinant proteins within inclusion bodies. Biotechnology Journal, 2008, 3, 193-201.	3.5	75
15	Physiological control on the expression and secretion of Candida rugosa lipase. Chemistry and Physics of Lipids, 1998, 93, 143-148.	3.2	71
16	Structural and dynamics analysis of intrinsically disordered proteins by high-speed atomic force microscopy. Nature Nanotechnology, 2021, 16, 181-189.	31.5	69
17	Order propensity of an intrinsically disordered protein, the cyclinâ€dependentâ€kinase inhibitor Sic1. Proteins: Structure, Function and Bioinformatics, 2009, 76, 731-746.	2.6	64
18	Cryoâ€protective effect of an iceâ€binding protein derived from Antarctic bacteria. FEBS Journal, 2017, 284, 163-177.	4.7	64

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19	Compaction Properties of an Intrinsically Disordered Protein: Sic1 and Its Kinase-Inhibitor Domain. Biophysical Journal, 2011, 100, 2243-2252.	0.5	62
20	The â€œcold revolutionâ€: Present and future applications of cold-active enzymes and ice-binding proteins. New Biotechnology, 2020, 55, 5-11.	4.4	61
21	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.	9.4	58
22	Concepts and tools to exploit the potential of bacterial inclusion bodies in protein science and biotechnology. FEBS Journal, 2011, 278, 2408-2418.	4.7	57
23	Enzymatic Production of Biodiesel: Strategies to Overcome Methanol Inactivation. Biotechnology Journal, 2018, 13, e1700155.	3.5	54
24	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
25	Amplification of the CUP1 gene is associated with evolution of copper tolerance in Saccharomyces cerevisiae. Microbiology (United Kingdom), 2012, 158, 2325-2335.	1.8	47
26	Molecular mechanism of deactivation of C. antarctica lipase B by methanol. Journal of Biotechnology, 2013, 168, 462-469.	3.8	45
27	Effects of recombinant protein misfolding and aggregation on bacterial membranes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 263-269.	2.3	41
28	Why and how protein aggregation has to be studied in vivo. Microbial Cell Factories, 2013, 12, 17.	4.0	39
29	Effects of methanol on a methanol-tolerant bacterial lipase. Applied Microbiology and Biotechnology, 2013, 97, 8609-8618.	3.6	35
30	Antarctic marine ciliates under stress: superoxide dismutases from the psychrophilic Euplotes focardii are cold-active yet heat tolerant enzymes. Scientific Reports, 2018, 8, 14721.	3.3	35
31	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.	7.6	34
32	Lipases: Molecular Structure and Function. , 2007, , 263-281.		33
33	Localization of lipase genes on Candida rugosa chromosomes. Current Genetics, 1995, 28, 454-457.	1.7	32
34	Cold-Active Î²-Galactosidases: Insight into Cold Adaptation Mechanisms and Biotechnological Exploitation. Marine Drugs, 2021, 19, 43.	4.6	32
35	Comparison of bovine and porcine Î²-lactoglobulin: a mass spectrometric analysis. Journal of Mass Spectrometry, 2006, 41, 717-727.	1.6	31
36	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.	4.7	31

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37	Activity and enantioselectivity of wildtype and lid mutatedCandida rugosa lipase isoform 1 in organic solvents. Biotechnology and Bioengineering, 2004, 86, 236-240.	3.3	30
38	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.	4.2	29
39	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.	2.4	29
40	Electrosprayâ€ionization mass spectrometry as a tool for fast screening of protein structural properties. Biotechnology Journal, 2009, 4, 73-87.	3.5	28
41	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.	2.8	28
42	Sulfated and sulfonated polymers are able to solubilize efficiently the protein aggregates of different nature. Archives of Biochemistry and Biophysics, 2015, 567, 22-29.	3.0	28
43	<i>Burkholderia cepacia</i> lipase is a promising biocatalyst for biofuel production. Biotechnology Journal, 2016, 11, 954-960.	3.5	28
44	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
45	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
46	The importance of fermentative conditions for the biotechnological production of lignin modifying enzymes from white-rot fungi. FEMS Microbiology Letters, 2017, 364, .	1.8	25
47	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
48	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.	3.2	23
49	Diverse effects of aqueous polar co-solvents on Candida antarctica lipase B. International Journal of Biological Macromolecules, 2020, 150, 930-940.	7.5	23
50	Deactivation and unfolding are uncoupled in a bacterial lipase exposed to heat, low pH and organic solvents. Journal of Biotechnology, 2009, 141, 42-46.	3.8	22
51	Promiscuity, stability and cold adaptation of a newly isolated acylaminoacyl peptidase. Biochimie, 2011, 93, 1543-1554.	2.6	22
52	Structure of a bacterial ice binding protein with two faces of interaction with ice. FEBS Journal, 2018, 285, 1653-1666.	4.7	21
53	Unscrambling thermal stability and temperature adaptation in evolved variants of a coldâ€active lipase. FEBS Letters, 2008, 582, 2313-2318.	2.8	20
54	A bacterial acyl aminoacyl peptidase couples flexibility and stability as a result of cold adaptation. FEBS Journal, 2016, 283, 4310-4324.	4.7	19

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55	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.	4.7	18
56	Conversion of sugar beet residues into lipids by Lipomyces starkeyi for biodiesel production. Microbial Cell Factories, 2020, 19, 204.	4.0	18
57	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
58	Effect of the leader sequence on the expression of recombinant C. rugosa lipase by S. cerevisiae cells. Biotechnology Letters, 1996, 18, 281.	2.2	16
59	Shortâ€chain alcohols inactivate an immobilized industrial lipase through two different mechanisms. Biotechnology Journal, 2022, 17, e2100712.	3.5	16
60	Enhanced expression of heterologous proteins by the use of a superinducible vector in budding yeast. Applied Microbiology and Biotechnology, 1992, 36, 655-8.	3.6	15
61	Acyl transfer strategy for the biocatalytical characterisation of Candida rugosa lipases in organic solvents. Enzyme and Microbial Technology, 2006, 38, 199-208.	3.2	15
62	Physiological and genetic modulation of inducible expression ofEscherichia coli ?-galactosidase inSaccharomyces cerevisiae. Applied Microbiology and Biotechnology, 1988, 28, 160-165.	3.6	14
63	[14] Cloning, sequencing, and expression of Candida rugosa lipases. Methods in Enzymology, 1997, 284, 246-260.	1.0	14
64	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.	4.0	14
65	The GH19 Engineering Database: Sequence diversity, substrate scope, and evolution in glycoside hydrolase family 19. PLoS ONE, 2021, 16, e0256817.	2.5	14
66	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.	2.0	13
67	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
68	In vivo aggregation of bovine Î²-lactoglobulin is affected by Cys at position 121. Protein Expression and Purification, 2008, 62, 111-115.	1.3	12
69	Saturn-Shaped Ice Burst Pattern and Fast Basal Binding of an Ice-Binding Protein from an Antarctic Bacterial Consortium. Langmuir, 2019, 35, 7337-7346.	3.5	12
70	Reciprocal Influence of Protein Domains in the Cold-Adapted Acyl Aminoacyl Peptidase from Sporosarcina psychrophila. PLoS ONE, 2013, 8, e56254.	2.5	12
71	Application of Siteâ€Directed Lipase Mutants on Regioselective Acylation of Monosaccharides. Journal of Carbohydrate Chemistry, 2003, 22, 631-644.	1.1	11
72	Homology-derived three-dimensional structure prediction of Candida cylindracea lipase. Lipids and Lipid Metabolism, 1992, 1165, 129-133.	2.6	10

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73	Defining Structural Domains of an Intrinsically Disordered Protein: Sic1, the Cyclin-Dependent Kinase Inhibitor of Saccharomyces cerevisiae. Molecular Biotechnology, 2011, 47, 34-42.	2.4	10
74	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
75	Endolysins from Antarctic Pseudomonas Display Lysozyme Activity at Low Temperature. Marine Drugs, 2020, 18, 579.	4.6	10
76	Education for a biobased economy: Integrating life and social sciences in flexible short courses accessible from different backgrounds. New Biotechnology, 2021, 60, 72-75.	4.4	10
77	Monitoring the transport of recombinantCandida rugosalipase by a green fluorescent protein-lipase fusion. Biotechnology Letters, 2003, 25, 1945-1948.	2.2	9
78	Heterologous expression of bovine and porcine Î²-lactoglobulins in Pichia pastoris: towards a comparative functional characterisation. Journal of Biotechnology, 2004, 109, 169-178.	3.8	8
79	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
80	Recombinant proteins and host cell physiology. Journal of Biotechnology, 2004, 109, 1-2.	3.8	6
81	Candida Rugosa Lipase Isozymes. , 1996, , 115-124.		6
82	Evaluation of the Conformational Stability of Recombinant Desulfurizing Enzymes from a Newly Isolated Rhodococcus sp.. Molecular Biotechnology, 2016, 58, 1-11.	2.4	5
83	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.	7.5	5
84	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
85	High lipase production by Candida rugosa is associated with G1 cells. A flow cytometry study. Biotechnology Letters, 2001, 23, 1803-1808.	2.2	4
86	Bacterial inclusion bodies as active and dynamic protein ensembles. FEBS Journal, 2011, 278, 2407-2407.	4.7	4
87	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
88	Editorial: Protein stabilization â€" crossroad for proteinâ€based processes and products. Biotechnology Journal, 2015, 10, 341-342.	3.5	2
89	Title is missing!. Microbial Cell Factories, 2006, 5, P2.	4.0	0
90	Title is missing!. Microbial Cell Factories, 2006, 5, S10.	4.0	0

#	Article	IF	Citations
91	Bioinformatics Challenges and Potentialities in Studying Extreme Environments. Lecture Notes in Computer Science, 2016, , 205-219.	1.3	0