

Paula Tamagnini

List of Publications by Year in descending order

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93
papers

4,082
citations

136885

32
h-index

118793

62
g-index

94
all docs

94
docs citations

94
times ranked

4142
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of positive charged residue in the proton-transfer mechanism of two-domain laccase from <i>Streptomyces griseoflavus</i> Ac-993. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 8324-8331.	2.0	2
2	Expression and activity of heterologous hydroxyisocaproate dehydrogenases in <i>Synechocystis</i> sp. PCC 6803 Δ hoxYH. <i>Engineering Microbiology</i> , 2022, 2, 100008.	2.2	9
3	A new cyanobacterial species with a protective effect on lettuce grown under salinity stress: Envisaging sustainable agriculture practices. <i>Journal of Applied Phycology</i> , 2022, 34, 915-928.	1.5	8
4	Cyanobacterial Extracellular Polymeric Substances (EPS). , 2022, , 139-165.		6
5	Extracellular vesicles as an alternative copper-secretion mechanism in bacteria. <i>Journal of Hazardous Materials</i> , 2022, 431, 128594.	6.5	14
6	Novel protein carrier system based on cyanobacterial nano-sized extracellular vesicles for application in fish. <i>Microbial Biotechnology</i> , 2022, 15, 2191-2207.	2.0	4
7	Light-driven hydroxylation of testosterone by <i>Synechocystis</i> sp. PCC 6803 expressing the heterologous CYP450 monooxygenase CYP110D1. <i>Green Chemistry</i> , 2022, 24, 6156-6167.	4.6	9
8	Surface activation of medical grade polyurethane for the covalent immobilization of an anti-adhesive biopolymeric coating. <i>Journal of Materials Chemistry B</i> , 2021, 9, 3705-3715.	2.9	8
9	Absence of KpsM (Slr0977) Impairs the Secretion of Extracellular Polymeric Substances (EPS) and Impacts Carbon Fluxes in <i>Synechocystis</i> sp. PCC 6803. <i>MSphere</i> , 2021, 6, .	1.3	9
10	Biocompatibility of the Biopolymer Cyanoflan for Applications in Skin Wound Healing. <i>Marine Drugs</i> , 2021, 19, 147.	2.2	10
11	Comparison of alternative integration sites in the chromosome and the native plasmids of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803 in respect to expression efficiency and copy number. <i>Microbial Cell Factories</i> , 2021, 20, 130.	1.9	21
12	Internal Illumination to Overcome the Cell Density Limitation in the Scale-up of Whole-Cell Photobiocatalysis. <i>ChemSusChem</i> , 2021, 14, 3219-3225.	3.6	22
13	Development of an ecotoxicological test procedure for soil microalgae. <i>Science of the Total Environment</i> , 2021, 783, 147006.	3.9	3
14	Chapter 6 Synthetic biology of cyanobacteria. , 2021, , 131-172.		3
15	Complete Genome Sequence of Two Deep-Sea <i>Streptomyces</i> Isolates from Madeira Archipelago and Evaluation of Their Biosynthetic Potential. <i>Marine Drugs</i> , 2021, 19, 621.	2.2	5
16	CRISPRi as a Tool to Repress Multiple Copies of Extracellular Polymeric Substances (EPS)-Related Genes in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Life</i> , 2021, 11, 1198.	1.1	7
17	Cyanobacterial Extracellular Polymeric Substances (EPS). , 2021, , 1-28.		2
18	Heterologous Production of Glycine Betaine Using <i>Synechocystis</i> sp. PCC 6803-Based Chassis Lacking Native Compatible Solutes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 821075.	2.0	3

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19	The Role of Outer Membrane Protein(s) Harboring SLH/OprB-Domains in Extracellular Vesiclesâ€™™ Production in <i>Synechocystis</i> sp. PCC 6803. <i>Plants</i> , 2021, 10, 2757.	1.6	3
20	Cyanoflan: A cyanobacterial sulfated carbohydrate polymer with emulsifying properties. <i>Carbohydrate Polymers</i> , 2020, 229, 115525.	5.1	36
21	The Extremophile <i>Endolithella mcmurdoensis</i> gen. et sp. nov. (Trebouxiophyceae,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 2020, 56, 208-216.	1.0	5
22	Untargeted Lipidomics Analysis of the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803: Lipid Composition Variation in Response to Alternative Cultivation Setups and to Gene Deletion. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8883.	1.8	12
23	Comparative Genomics Discloses the Uniqueness and the Biosynthetic Potential of the Marine Cyanobacterium <i>Hyella patelloides</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 1527.	1.5	5
24	Extracellular Vesicles: An Overlooked Secretion System in Cyanobacteria. <i>Life</i> , 2020, 10, 129.	1.1	13
25	Glyphosate-dependent effects on photosynthesis of <i>Solanum lycopersicum</i> L.â€™™An ecophysiological, ultrastructural and molecular approach. <i>Journal of Hazardous Materials</i> , 2020, 398, 122871.	6.5	29
26	Natural Cyanobacterial Polymer-Based Coating as a Preventive Strategy to Avoid Catheter-Associated Urinary Tract Infections. <i>Marine Drugs</i> , 2020, 18, 279.	2.2	18
27	Investigations of Accessibility of T2/T3 Copper Center of Two-Domain Laccase from <i>Streptomyces griseoflavus</i> Ac-993. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3184.	1.8	18
28	Application of an engineered chromatic acclimation sensor for red-light-regulated gene expression in cyanobacteria. <i>Algal Research</i> , 2019, 44, 101691.	2.4	9
29	The role of the tyrosine kinase <i>Wzc</i> (SlI0923) and the phosphatase <i>Wzb</i> (Slr0328) in the production of extracellular polymeric substances (EPS) by <i>Synechocystis</i> PCC 6803. <i>MicrobiologyOpen</i> , 2019, 8, e00753.	1.2	26
30	CyanoFactory, a European consortium to develop technologies needed to advance cyanobacteria as chassis for production of chemicals and fuels. <i>Algal Research</i> , 2019, 41, 101510.	2.4	24
31	Characterization and antitumor activity of the extracellular carbohydrate polymer from the cyanobacterium <i>Synechocystis</i> ð’ sigF mutant. <i>International Journal of Biological Macromolecules</i> , 2019, 136, 1219-1227.	3.6	17
32	Looking Outwards: Isolation of Cyanobacterial Released Carbohydrate Polymers and Proteins. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	3
33	Broad-Spectrum Anti-Adhesive Coating Based on an Extracellular Polymer from a Marine Cyanobacterium. <i>Marine Drugs</i> , 2019, 17, 243.	2.2	16
34	Didymozoids in Muscle of Atlantic Chub Mackerel (<i>Scomber colias</i>). <i>Acta Parasitologica</i> , 2019, 64, 308-315.	0.4	1
35	Strategies to Obtain Designer Polymers Based on Cyanobacterial Extracellular Polymeric Substances (EPS). <i>International Journal of Molecular Sciences</i> , 2019, 20, 5693.	1.8	41
36	Cyanobacterial Secretion Systems: Understanding Fundamental Mechanisms Toward Technological Applications. , 2019, , 359-381.		9

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37	The alternative sigma factor SigF is a key player in the control of secretion mechanisms in <i>Synechocystis</i> sp. PCC 6803. <i>Environmental Microbiology</i> , 2019, 21, 343-359.	1.8	29
38	Application of a cyanobacterial extracellular polymeric substance in the microencapsulation of vitamin B12. <i>Powder Technology</i> , 2019, 343, 644-651.	2.1	42
39	Identification of inner membrane translocase components of TolC-mediated secretion in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Environmental Microbiology</i> , 2018, 20, 2354-2369.	1.8	27
40	Generation of a functional, semisynthetic [FeFe]-hydrogenase in a photosynthetic microorganism. <i>Energy and Environmental Science</i> , 2018, 11, 3163-3167.	15.6	37
41	Modulation of Intracellular O ₂ Concentration in <i>Escherichia coli</i> Strains Using Oxygen Consuming Devices. <i>ACS Synthetic Biology</i> , 2018, 7, 1742-1752.	1.9	2
42	Expanding the toolbox for <i>Synechocystis</i> sp. PCC 6803: validation of replicative vectors and characterization of a novel set of promoters. <i>Synthetic Biology</i> , 2018, 3, ysy014.	1.2	43
43	Description of new genera and species of marine cyanobacteria from the Portuguese Atlantic coast. <i>Molecular Phylogenetics and Evolution</i> , 2017, 111, 18-34.	1.2	92
44	The secretion signal peptide of the cyanobacterial extracellular protein HesF is located at its C-terminus. <i>FEMS Microbiology Letters</i> , 2017, 364, .	0.7	4
45	Cyanobacterium-Derived Extracellular Carbohydrate Polymer for the Controlled Delivery of Functional Proteins. <i>Macromolecular Bioscience</i> , 2017, 17, 1600206.	2.1	19
46	Extracellular Proteins: Novel Key Components of Metal Resistance in Cyanobacteria?. <i>Frontiers in Microbiology</i> , 2016, 7, 878.	1.5	37
47	Released polysaccharides (RPS) from <i>Cyanothece</i> sp. CCY 0110 as biosorbent for heavy metals bioremediation: interactions between metals and RPS binding sites. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7765-7775.	1.7	72
48	Metabolomics-based analysis revealing the alteration of primary carbon metabolism by the genetic manipulation of a hydrogenase HoxH in <i>Synechocystis</i> sp. PCC 6803. <i>Algal Research</i> , 2016, 18, 305-313.	2.4	15
49	The versatile TolC-like S _L 1270 in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Environmental Microbiology</i> , 2016, 18, 486-502.	1.8	38
50	Phylum-wide analysis of genes/proteins related to the last steps of assembly and export of extracellular polymeric substances (EPS) in cyanobacteria. <i>Scientific Reports</i> , 2015, 5, 14835.	1.6	85
51	<i>Streptomyces natalensis</i> programmed cell death and morphological differentiation are dependent on oxidative stress. <i>Scientific Reports</i> , 2015, 5, 12887.	1.6	28
52	Bioprospecting Portuguese Atlantic coast cyanobacteria for bioactive secondary metabolites reveals untapped chemodiversity. <i>Algal Research</i> , 2015, 9, 218-226.	2.4	59
53	Differential proteomes of the cyanobacterium <i>Cyanothece</i> sp. CCY 0110 upon exposure to heavy metals. <i>Data in Brief</i> , 2015, 4, 152-158.	0.5	3
54	The <i>Anabaena</i> sp. PCC 7120 Exoproteome: Taking a Peek outside the Box. <i>Life</i> , 2015, 5, 130-163.	1.1	37

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55	Improving a <i>Synechocystis</i> -based photoautotrophic chassis through systematic genome mapping and validation of neutral sites. DNA Research, 2015, 22, 425-437.	1.5	49
56	Effect of TiO ₂ photocatalysis on the destruction of <i>Microcystis aeruginosa</i> cells and degradation of cyanotoxins microcystin-LR and cylindrospermopsin. Chemical Engineering Journal, 2015, 268, 144-152.	6.6	77
57	Effects of heavy metals on <i>Cyanothece</i> sp. CCY 0110 growth, extracellular polymeric substances (EPS) production, ultrastructure and protein profiles. Journal of Proteomics, 2015, 120, 75-94.	1.2	95
58	<sc>HesF</sc>, an exoprotein required for filament adhesion and aggregation in <sc> <i>A. nabaena</i> </sc> sp. <sc>PCC</sc> 7120. Environmental Microbiology, 2015, 17, 1631-1648.	1.8	28
59	Preparation and characterization of polysaccharides/PVA blend nanofibrous membranes by electrospinning method. Carbohydrate Polymers, 2014, 99, 584-592.	5.1	144
60	H ₂ Production Using Cyanobacteria/Cyanobacterial Hydrogenases: From Classical to Synthetic Biology Approaches. Advances in Photosynthesis and Respiration, 2014, , 79-99.	1.0	1
61	Production and characterization of extracellular carbohydrate polymer from <i>Cyanothece</i> sp. CCY 0110. Carbohydrate Polymers, 2013, 92, 1408-1415.	5.1	89
62	Assembly and Export of Extracellular Polymeric Substances (EPS) in Cyanobacteria. Advances in Botanical Research, 2013, 65, 235-279.	0.5	28
63	Evaluation of the Antioxidant Activity of Cell Extracts from Microalgae. Marine Drugs, 2013, 11, 1256-1270.	2.2	62
64	Construction of a chassis for hydrogen production: physiological and molecular characterization of a <i>Synechocystis</i> sp. PCC 6803 mutant lacking a functional bidirectional hydrogenase. Microbiology (United Kingdom), 2012, 158, 448-464.	0.7	30
65	Unusual Symbiotic Cyanobacteria Association in the Genetically Diverse Intertidal Marine Sponge <i>Hymeniacidon perlevis</i> (Demospongiae, Halichondrida). PLoS ONE, 2012, 7, e51834.	1.1	34
66	Experimental and Modeling Analysis of <i>Synechocystis</i> sp. PCC 6803 Growth. Journal of Molecular Microbiology and Biotechnology, 2012, 22, 71-82.	1.0	16
67	Infection levels and diversity of anisakid nematodes in blackspot seabream, <i>Pagellus bogaraveo</i> , from Portuguese waters. Parasitology Research, 2012, 110, 1919-1928.	0.6	40
68	Culture-dependent characterization of cyanobacterial diversity in the intertidal zones of the Portuguese coast: A polyphasic study. Systematic and Applied Microbiology, 2012, 35, 110-119.	1.2	76
69	Selection of Suitable Reference Genes for RT-qPCR Analyses in Cyanobacteria. PLoS ONE, 2012, 7, e34983.	1.1	120
70	Using extracellular polymeric substances (EPS)-producing cyanobacteria for the bioremediation of heavy metals: do cations compete for the EPS functional groups and also accumulate inside the cell?. Microbiology (United Kingdom), 2011, 157, 451-458.	0.7	118
71	iTRAQ-based quantitative proteomic analysis of <i>Gloeotheca</i> sp. PCC 6909: Comparison with its sheathless mutant and adaptations to nitrate deficiency and sulfur limitation. Journal of Proteomics, 2011, 75, 270-283.	1.2	13
72	Biohydrogen production by <i>Anabaena</i> sp. PCC 7120 wild-type and mutants under different conditions: Light, nickel, propane, carbon dioxide and nitrogen. Biomass and Bioenergy, 2011, 35, 4426-4434.	2.9	41

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73	Characterization of an intertidal cyanobacterium that constitutes a separate clade together with thermophilic strains. <i>European Journal of Phycology</i> , 2010, 45, 394-403.	0.9	14
74	Transcription profiles of hydrogenases related genes in the cyanobacterium <i>Lyngbya majuscula</i> CCAP 1446/4. <i>BMC Microbiology</i> , 2009, 9, 67.	1.3	10
75	Immunolocalization of the uptake hydrogenase in the marine cyanobacterium <i>Lyngbya majuscula</i> CCAP 1446/4 and two <i>Nostoc</i> strains. <i>FEMS Microbiology Letters</i> , 2009, 292, 57-62.	0.7	25
76	Complexity of cyanobacterial exopolysaccharides: composition, structures, inducing factors and putative genes involved in their biosynthesis and assembly. <i>FEMS Microbiology Reviews</i> , 2009, 33, 917-941.	3.9	522
77	THE RELATION BETWEEN N ₂ FIXATION AND H ₂ METABOLISM IN THE MARINE FILAMENTOUS NONHETEROCYSTOUS CYANOBACTERIUM <i>LYNGBYA AESTUARII</i> CCY 9616 ¹ . <i>Journal of Phycology</i> , 2009, 45, 898-905.	1.0	4
78	Selectivity in the heavy metal removal by exopolysaccharide-producing cyanobacteria. <i>Journal of Applied Microbiology</i> , 2008, 105, 88-94.	1.4	91
79	Sheathless Mutant of Cyanobacterium <i>Gloeotheca</i> sp. Strain PCC 6909 with Increased Capacity To Remove Copper Ions from Aqueous Solutions. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2797-2804.	1.4	47
80	Cyanobacterial hydrogenases: diversity, regulation and applications. <i>FEMS Microbiology Reviews</i> , 2007, 31, 692-720.	3.9	304
81	Transcription and regulation of the hydrogenase(s) accessory genes, <i>hypFCDEAB</i> , in the cyanobacterium <i>Lyngbya majuscula</i> CCAP 1446/4. <i>Archives of Microbiology</i> , 2007, 188, 609-617.	1.0	22
82	Genes involved in the maturation of hydrogenase(s) in the nonheterocystous cyanobacterium <i>Lyngbya majuscula</i> CCAP 1446/4. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1469-1477.	3.8	13
83	Uptake hydrogenase in cyanobacteria: novel input from non-heterocystous strains. <i>Biochemical Society Transactions</i> , 2005, 33, 67-69.	1.6	21
84	Analysis of the <i>hupSL</i> Operon of the Nonheterocystous Cyanobacterium <i>Lyngbya majuscula</i> CCAP 1446/4: Regulation of Transcription and Expression under a Light-Dark Regimen. <i>Applied and Environmental Microbiology</i> , 2005, 71, 4567-4576.	1.4	30
85	Characterization and transcriptional analysis of <i>hupSLW</i> in <i>Gloeotheca</i> sp. ATCC 27152: an uptake hydrogenase from a unicellular cyanobacterium. <i>Microbiology (United Kingdom)</i> , 2004, 150, 3647-3655.	0.7	36
86	Cyanobacterial H ₂ production ? a comparative analysis. <i>Planta</i> , 2004, 218, 350-359.	1.6	185
87	Hydrogenases and Hydrogen Metabolism of Cyanobacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2002, 66, 1-20.	2.9	429
88	Identification of the green alga, <i>Chlorella vulgaris</i> (SDC1) using cyanobacteria derived 16S rDNA primers: targeting the chloroplast. <i>FEMS Microbiology Letters</i> , 2001, 202, 195-203.	0.7	28
89	Identification of the green alga, <i>Chlorella vulgaris</i> (SDC1) using cyanobacteria derived 16S rDNA primers: targeting the chloroplast. <i>FEMS Microbiology Letters</i> , 2001, 202, 195-203.	0.7	3
90	Diversity of Cyanobacterial Hydrogenases, a Molecular Approach. <i>Current Microbiology</i> , 2000, 40, 356-361.	1.0	76

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91	Hydrogen uptake in Nostoc sp. strain PCC 73102. Cloning and characterization of a hupSL homologue. Archives of Microbiology, 1998, 169, 267-274.	1.0	47
92	Nostoc PCC 73102 and H ₂ . , 1998, , 53-63.		1
93	Immunological characterization of hydrogenases in the nitrogen-fixing cyanobacterium Nostoc sp. strain PCC 73102. Current Microbiology, 1995, 31, 102-107.	1.0	13