Paula Tamagnini

List of Publications by Year
in descending order

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93	4,082	136885	118793
papers	citations	32 h-index	62 g-index

94	94	94	4142
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Complexity of cyanobacterial exopolysaccharides: composition, structures, inducing factors and putative genes involved in their biosynthesis and assembly. FEMS Microbiology Reviews, 2009, 33, 917-941.	3.9	522
2	Hydrogenases and Hydrogen Metabolism of Cyanobacteria. Microbiology and Molecular Biology Reviews, 2002, 66, 1-20.	2.9	429
3	Cyanobacterial hydrogenases: diversity, regulation and applications. FEMS Microbiology Reviews, 2007, 31, 692-720.	3.9	304
4	Cyanobacterial H2 production ? a comparative analysis. Planta, 2004, 218, 350-359.	1.6	185
5	Preparation and characterization of polysaccharides/PVA blend nanofibrous membranes by electrospinning method. Carbohydrate Polymers, 2014, 99, 584-592.	5.1	144
6	Selection of Suitable Reference Genes for RT-qPCR Analyses in Cyanobacteria. PLoS ONE, 2012, 7, e34983.	1.1	120
7	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
8	Effects of heavy metals on Cyanothece sp. CCY 0110 growth, extracellular polymeric substances (EPS) production, ultrastructure and protein profiles. Journal of Proteomics, 2015, 120, 75-94.	1.2	95
9	Description of new genera and species of marine cyanobacteria from the Portuguese Atlantic coast. Molecular Phylogenetics and Evolution, 2017, 111, 18-34.	1.2	92
10	Selectivity in the heavy metal removal by exopolysaccharide-producing cyanobacteria. Journal of Applied Microbiology, 2008, 105, 88-94.	1.4	91
11	Production and characterization of extracellular carbohydrate polymer from Cyanothece sp. CCY 0110. Carbohydrate Polymers, 2013, 92, 1408-1415.	5.1	89
12	Phylum-wide analysis of genes/proteins related to the last steps of assembly and export of extracellular polymeric substances (EPS) in cyanobacteria. Scientific Reports, 2015, 5, 14835.	1.6	85
13	Effect of TiO2 photocatalysis on the destruction of Microcystis aeruginosa cells and degradation of cyanotoxins microcystin-LR and cylindrospermopsin. Chemical Engineering Journal, 2015, 268, 144-152.	6.6	77
14	Diversity of Cyanobacterial Hydrogenases, a Molecular Approach. Current Microbiology, 2000, 40, 356-361.	1.0	76
15	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
16	Released polysaccharides (RPS) from Cyanothece sp. CCY 0110 as biosorbent for heavy metals bioremediation: interactions between metals and RPS binding sites. Applied Microbiology and Biotechnology, 2016, 100, 7765-7775.	1.7	72
17	Evaluation of the Antioxidant Activity of Cell Extracts from Microalgae. Marine Drugs, 2013, 11, 1256-1270.	2.2	62
18	Bioprospecting Portuguese Atlantic coast cyanobacteria for bioactive secondary metabolites reveals untapped chemodiversity. Algal Research, 2015, 9, 218-226.	2.4	59

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19	Improving aSynechocystis-based photoautotrophic chassis through systematic genome mapping and validation of neutral sites. DNA Research, 2015, 22, 425-437.	1.5	49
20	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
21	Sheathless Mutant of Cyanobacterium Gloeothece sp. Strain PCC 6909 with Increased Capacity To Remove Copper Ions from Aqueous Solutions. Applied and Environmental Microbiology, 2008, 74, 2797-2804.	1.4	47
22	Expanding the toolbox for Synechocystis sp. PCC 6803: validation of replicative vectors and characterization of a novel set of promoters. Synthetic Biology, 2018, 3, ysy014.	1.2	43
23	Application of a cyanobacterial extracellular polymeric substance in the microencapsulation of vitamin B12. Powder Technology, 2019, 343, 644-651.	2.1	42
24	Biohydrogen production by Anabaena 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
25	Strategies to Obtain Designer Polymers Based on Cyanobacterial Extracellular Polymeric Substances (EPS). International Journal of Molecular Sciences, 2019, 20, 5693.	1.8	41
26	Infection levels and diversity of anisakid nematodes in blackspot seabream, Pagellus bogaraveo, from Portuguese waters. Parasitology Research, 2012, 110, 1919-1928.	0.6	40
27	The versatile <scp>TolC</scp>â€like <scp>S</scp>lr1270 in the cyanobacterium <scp>S</scp>ynechocystis sp. <scp>PCC</scp> 6803. Environmental Microbiology, 2016, 18, 486-502.	1.8	38
28	The Anabaena sp. PCC 7120 Exoproteome: Taking a Peek outside the Box. Life, 2015, 5, 130-163.	1.1	37
29	Extracellular Proteins: Novel Key Components of Metal Resistance in Cyanobacteria?. Frontiers in Microbiology, 2016, 7, 878.	1.5	37
30	Generation of a functional, semisynthetic [FeFe]-hydrogenase in a photosynthetic microorganism. Energy and Environmental Science, 2018, 11, 3163-3167.	15.6	37
31	Characterization and transcriptional analysis of hupSLW in Gloeothece sp. ATCC 27152: an uptake hydrogenase from a unicellular cyanobacterium. Microbiology (United Kingdom), 2004, 150, 3647-3655.	0.7	36
32	Cyanoflan: A cyanobacterial sulfated carbohydrate polymer with emulsifying properties. Carbohydrate Polymers, 2020, 229, 115525.	5.1	36
33	Unusual Symbiotic Cyanobacteria Association in the Genetically Diverse Intertidal Marine Sponge Hymeniacidon perlevis (Demospongiae, Halichondrida). PLoS ONE, 2012, 7, e51834.	1.1	34
34	Analysis of the hupSL Operon of the Nonheterocystous Cyanobacterium Lyngbya majuscula CCAP 1446/4: Regulation of Transcription and Expression under a Light-Dark Regimen. Applied and Environmental Microbiology, 2005, 71, 4567-4576.	1.4	30
35	Construction of a chassis for hydrogen production: physiological and molecular characterization of a Synechocystis sp. PCC 6803 mutant lacking a functional bidirectional hydrogenase. Microbiology (United Kingdom), 2012, 158, 448-464.	0.7	30
36	The alternative sigma factor SigF is a key player in the control of secretion mechanisms in Synechocystis sp. PCC 6803. Environmental Microbiology, 2019, 21, 343-359.	1.8	29

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37	Glyphosate-dependent effects on photosynthesis of Solanum lycopersicum L.â€"An ecophysiological, ultrastructural and molecular approach. Journal of Hazardous Materials, 2020, 398, 122871.	6.5	29
38	Identification of the green alga,Chlorella vulgaris(SDC1) using cyanobacteria derived 16S rDNA primers: targeting the chloroplast. FEMS Microbiology Letters, 2001, 202, 195-203.	0.7	28
39	Assembly and Export of Extracellular Polymeric Substances (EPS) in Cyanobacteria. Advances in Botanical Research, 2013, 65, 235-279.	0.5	28
40	Streptomyces natalensis programmed cell death and morphological differentiation are dependent on oxidative stress. Scientific Reports, 2015, 5, 12887.	1.6	28
41	<scp>HesF</scp>, an exoprotein required for filament adhesion and aggregation in <scp>A</scp>nabaena sp. <scp>PCC</scp> 7120. Environmental Microbiology, 2015, 17, 1631-1648.	1.8	28
42	Identification of inner membrane translocase components of TolCâ€mediated secretion in the cyanobacterium Synechocystis sp. PCC 6803. Environmental Microbiology, 2018, 20, 2354-2369.	1.8	27
43	The role of the tyrosine kinase Wzc (Sll0923) and the phosphatase Wzb (Slr0328) in the production of extracellular polymeric substances (EPS) by Synechocystis PCC 6803. MicrobiologyOpen, 2019, 8, e00753.	1.2	26
44	Immunolocalization of the uptake hydrogenase in the marine cyanobacteriumLyngbya majusculaCCAP 1446/4 and twoNostocstrains. FEMS Microbiology Letters, 2009, 292, 57-62.	0.7	25
45	CyanoFactory, a European consortium to develop technologies needed to advance cyanobacteria as chassis for production of chemicals and fuels. Algal Research, 2019, 41, 101510.	2.4	24
46	Transcription and regulation of the hydrogenase(s) accessory genes, hypFCDEAB, in the cyanobacterium Lyngbya majuscula CCAP 1446/4. Archives of Microbiology, 2007, 188, 609-617.	1.0	22
47	Internal Illumination to Overcome the Cell Density Limitation in the Scaleâ€up of Wholeâ€Cell Photobiocatalysis. ChemSusChem, 2021, 14, 3219-3225.	3.6	22
48	Uptake hydrogenase in cyanobacteria: novel input from non-heterocystous strains. Biochemical Society Transactions, 2005, 33, 67-69.	1.6	21
49	Comparison of alternative integration sites in the chromosome and the native plasmids of the cyanobacterium Synechocystis sp. PCC 6803 in respect to expression efficiency and copy number. Microbial Cell Factories, 2021, 20, 130.	1.9	21
50	Cyanobacterium-Derived Extracellular Carbohydrate Polymer for the Controlled Delivery of Functional Proteins. Macromolecular Bioscience, 2017, 17, 1600206.	2.1	19
51	Investigations of Accessibility of T2/T3 Copper Center of Two-Domain Laccase from Streptomyces griseoflavus Ac-993. International Journal of Molecular Sciences, 2019, 20, 3184.	1.8	18
52	Natural Cyanobacterial Polymer-Based Coating as a Preventive Strategy to Avoid Catheter-Associated Urinary Tract Infections. Marine Drugs, 2020, 18, 279.	2.2	18
53	Characterization and antitumor activity of the extracellular carbohydrate polymer from the cyanobacterium Synechocystis Î"sigF mutant. International Journal of Biological Macromolecules, 2019, 136, 1219-1227.	3.6	17
54	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

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55	Broad-Spectrum Anti-Adhesive Coating Based on an Extracellular Polymer from a Marine Cyanobacterium. Marine Drugs, 2019, 17, 243.	2.2	16
56	Metabolomics-based analysis revealing the alteration of primary carbon metabolism by the genetic manipulation of a hydrogenase HoxH in Synechocystis sp. PCC 6803. Algal Research, 2016, 18, 305-313.	2.4	15
57	Characterization of an intertidal cyanobacterium that constitutes a separate clade together with thermophilic strains. European Journal of Phycology, 2010, 45, 394-403.	0.9	14
58	Extracellular vesicles as an alternative copper-secretion mechanism in bacteria. Journal of Hazardous Materials, 2022, 431, 128594.	6.5	14
59	Immunological characterization of hydrogenases in the nitrogen-fixing cyanobacterium Nostoc sp. strain PCC 73102. Current Microbiology, 1995, 31, 102-107.	1.0	13
60	Genes involved in the maturation of hydrogenase(s) in the nonheterocystous cyanobacterium Lyngbya majuscula CCAP 1446/4. International Journal of Hydrogen Energy, 2006, 31, 1469-1477.	3.8	13
61	iTRAQ-based quantitative proteomic analysis of Gloeothece 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
62	Extracellular Vesicles: An Overlooked Secretion System in Cyanobacteria. Life, 2020, 10, 129.	1.1	13
63	Untargeted Lipidomics Analysis of the Cyanobacterium Synechocystis sp. PCC 6803: Lipid Composition Variation in Response to Alternative Cultivation Setups and to Gene Deletion. International Journal of Molecular Sciences, 2020, 21, 8883.	1.8	12
64	Transcription profiles of hydrogenases related genes in the cyanobacterium Lyngbya majuscula CCAP 1446/4. BMC Microbiology, 2009, 9, 67.	1.3	10
65	Biocompatibility of the Biopolymer Cyanoflan for Applications in Skin Wound Healing. Marine Drugs, 2021, 19, 147.	2.2	10
66	Application of an engineered chromatic acclimation sensor for red-light-regulated gene expression in cyanobacteria. Algal Research, 2019, 44, 101691.	2.4	9
67	Cyanobacterial Secretion Systems: Understanding Fundamental Mechanisms Toward Technological Applications. , 2019, , 359-381.		9
68	Absence of KpsM (Slr0977) Impairs the Secretion of Extracellular Polymeric Substances (EPS) and Impacts Carbon Fluxes in Synechocystis sp. PCC 6803. MSphere, 2021, 6, .	1.3	9
69	Expression and activity of heterologous hydroxyisocaproate dehydrogenases in Synechocystis sp. PCC 6803 Î”hoxYH. Engineering Microbiology, 2022, 2, 100008.	2.2	9
70	Light-driven hydroxylation of testosterone by Synechocystis sp. PCC 6803 expressing the heterologous CYP450 monooxygenase CYP110D1. Green Chemistry, 2022, 24, 6156-6167.	4.6	9
71	Surface activation of medical grade polyurethane for the covalent immobilization of an anti-adhesive biopolymeric coating. Journal of Materials Chemistry B, 2021, 9, 3705-3715.	2.9	8
72	A new cyanobacterial species with a protective effect on lettuce grown under salinity stress: Envisaging sustainable agriculture practices. Journal of Applied Phycology, 2022, 34, 915-928.	1.5	8

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73	CRISPRi as a Tool to Repress Multiple Copies of Extracellular Polymeric Substances (EPS)-Related Genes in the Cyanobacterium Synechocystis sp. PCC 6803. Life, 2021, 11, 1198.	1.1	7
74	Cyanobacterial Extracellular Polymeric Substances (EPS). , 2022, , 139-165.		6
75	The Extremophile Endolithella mcmurdoensis gen. et sp. nov. (Trebouxiophyceae,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 2020, 56, 208-216.	1.0	5
76	Comparative Genomics Discloses the Uniqueness and the Biosynthetic Potential of the Marine Cyanobacterium Hyella patelloides. Frontiers in Microbiology, 2020, 11, 1527.	1.5	5
77	Complete Genome Sequence of Two Deep-Sea Streptomyces Isolates from Madeira Archipelago and Evaluation of Their Biosynthetic Potential. Marine Drugs, 2021, 19, 621.	2.2	5
78	THE RELATION BETWEEN N₂ FIXATION AND H₂ METABOLISM IN THE MARINE FILAMENTOUS NONHETEROCYSTOUS CYANOBACTERIUM LYNGBYA AESTUARII CCY 9616¹. Journal of Phycology, 2009, 45, 898-905.	1.0	4
79	The secretion signal peptide of the cyanobacterial extracellular protein HesF is located at its C-terminus. FEMS Microbiology Letters, 2017, 364, .	0.7	4
80	Novel protein carrier system based on cyanobacterial nanoâ€sized extracellular vesicles for application in fish. Microbial Biotechnology, 2022, 15, 2191-2207.	2.0	4
81	Differential proteomes of the cyanobacterium Cyanothece sp. CCY 0110 upon exposure to heavy metals. Data in Brief, 2015, 4, 152-158.	0.5	3
82	Looking Outwards: Isolation of Cyanobacterial Released Carbohydrate Polymers and Proteins. Journal of Visualized Experiments, 2019, , .	0.2	3
83	Development of an ecotoxicological test procedure for soil microalgae. Science of the Total Environment, 2021, 783, 147006.	3.9	3
84	Identification of the green alga, Chlorella vulgaris (SDC1) using cyanobacteria derived 16S rDNA primers: targeting the chloroplast. FEMS Microbiology Letters, 2001, 202, 195-203.	0.7	3
85	Chapter 6 Synthetic biology of cyanobacteria. , 2021, , 131-172.		3
86	Heterologous Production of Glycine Betaine Using Synechocystis sp. PCC 6803-Based Chassis Lacking Native Compatible Solutes. Frontiers in Bioengineering and Biotechnology, 2021, 9, 821075.	2.0	3
87	The Role of Outer Membrane Protein(s) Harboring SLH/OprB-Domains in Extracellular Vesiclesâ€™ Production in Synechocystis sp. PCC 6803. Plants, 2021, 10, 2757.	1.6	3
88	Modulation of Intracellular O₂ Concentration in Escherichia coli Strains Using Oxygen Consuming Devices. ACS Synthetic Biology, 2018, 7, 1742-1752.	1.9	2
89	The role of positive charged residue in the proton-transfer mechanism of two-domain laccase from Streptomyces griseoflavus Ac-993. Journal of Biomolecular Structure and Dynamics, 2022, 40, 8324-8331.	2.0	2
90	Cyanobacterial Extracellular Polymeric Substances (EPS). , 2021, , 1-28.		2

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91	Nostoc PCC 73102 and H2. , 1998, , 53-63.		1
92	Didymozoids in Muscle of Atlantic Chub Mackerel (Scomber colias). Acta Parasitologica, 2019, 64, 308-315.	0.4	1
93	H2 Production Using Cyanobacteria/Cyanobacterial Hydrogenases: From Classical to Synthetic Biology Approaches. Advances in Photosynthesis and Respiration, 2014, , 79-99.	1.0	1