

# Roberto De Philippis

## List of Publications by Citations

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124  
papers

5,281  
citations

40  
h-index

69  
g-index

134  
ext. papers

6,118  
ext. citations

5.2  
avg, IF

5.93  
L-index

#	Paper	IF	Citations
124	Complexity of cyanobacterial exopolysaccharides: composition, structures, inducing factors and putative genes involved in their biosynthesis and assembly. <i>FEMS Microbiology Reviews</i> , <b>2009</b> , 33, 917-41	15.1	412
123	Exocellular polysaccharides from cyanobacteria and their possible applications. <i>FEMS Microbiology Reviews</i> , <b>1998</b> , 22, 151-175	15.1	278
122	Exopolysaccharide-producing cyanobacteria and their possible exploitation: A review. <i>Journal of Applied Phycology</i> , <b>2001</b> , 13, 293-299	3.2	202
121	Exopolysaccharide-producing cyanobacteria in heavy metal removal from water: molecular basis and practical applicability of the biosorption process. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 92, 697-708	5.7	196
120	Exocellular polysaccharides from cyanobacteria and their possible applications. <i>FEMS Microbiology Reviews</i> , <b>1998</b> , 22, 151-175	15.1	191
119	Role of cyanobacterial exopolysaccharides in phototrophic biofilms and in complex microbial mats. <i>Life</i> , <b>2015</b> , 5, 1218-38	3	186
118	Generation of superoxide anion and SOD activity in haemocytes and muscle of American white shrimp ( <i>Litopenaeus vannamei</i> ) as a response to beta-glucan and sulphated polysaccharide. <i>Fish and Shellfish Immunology</i> , <b>2002</b> , 12, 353-66	4.3	170
117	Microbial secreted exopolysaccharides affect the hydrological behavior of induced biological soil crusts in desert sandy soils. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 68, 62-70	7.5	135
116	The role of the exopolysaccharides in enhancing hydraulic conductivity of biological soil crusts. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 46, 33-40	7.5	115
115	Potential of unicellular cyanobacteria from saline environments as exopolysaccharide producers. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 1130-2	4.8	110
114	Cyanobacterial inoculation (cyanobacterisation): Perspectives for the development of a standardized multifunctional technology for soil fertilization and desertification reversal. <i>Earth-Science Reviews</i> , <b>2017</b> , 171, 28-43	10.2	109
113	Exopolysaccharide production by a unicellular cyanobacterium isolated from a hypersaline habitat. <i>Journal of Applied Phycology</i> , <b>1993</b> , 5, 387-394	3.2	97
112	Photobioreactor design and illumination systems for H <sub>2</sub> production with anoxygenic photosynthetic bacteria: A review. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 3127-3141	6.7	96
111	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?. <i>Microbiology (United Kingdom)</i> , <b>2011</b> , 157, 451-458	2.9	95
110	Cyanobacteria Inoculation Improves Soil Stability and Fertility on Different Textured Soils: Gaining Insights for Applicability in Soil Restoration. <i>Frontiers in Environmental Science</i> , <b>2018</b> , 6,	4.8	90
109	Characteristics and role of the exocellular polysaccharides produced by five cyanobacteria isolated from phototrophic biofilms growing on stone monuments. <i>Biofouling</i> , <b>2012</b> , 28, 215-24	3.3	89
108	Microbial extracellular polymeric substances improve water retention in dryland biological soil crusts. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 116, 67-69	7.5	88

107	Glycogen and poly-β-hydroxybutyrate synthesis in <i>Spirulina maxima</i> . <i>Journal of General Microbiology</i> , <b>1992</b> , 138, 1623-1628		76
106	Selectivity in the heavy metal removal by exopolysaccharide-producing cyanobacteria. <i>Journal of Applied Microbiology</i> , <b>2008</b> , 105, 88-94	4.7	74
105	Complex role of the polymeric matrix in biological soil crusts. <i>Plant and Soil</i> , <b>2018</b> , 429, 19-34	4.2	72
104	Production and characterization of extracellular carbohydrate polymer from <i>Cyanothece</i> sp. CCY 0110. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 1408-15	10.3	70
103	Heavy metal sorption by released polysaccharides and whole cultures of two exopolysaccharide-producing cyanobacteria. <i>Biodegradation</i> , <b>2007</b> , 18, 181-7	4.1	68
102	Occurrence of poly-beta-hydroxybutyrate in <i>Spirulina</i> species. <i>Journal of Bacteriology</i> , <b>1990</b> , 172, 2791-23.5		68
101	Macromolecular and chemical features of the excreted extracellular polysaccharides in induced biological soil crusts of different ages. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 78, 1-9	7.5	67
100	Assessment of the metal removal capability of two capsulated cyanobacteria, <i>Cyanospira capsulata</i> and <i>Nostoc PCC7936</i> . <i>Journal of Applied Phycology</i> , <b>2003</b> , 15, 155-161	3.2	64
99	Use of cyanobacterial polysaccharides to promote shrub performances in desert soils: a potential approach for the restoration of desertified areas. <i>Biology and Fertility of Soils</i> , <b>2013</b> , 49, 143-152	6.1	63
98	Studies on exopolysaccharide release by diazotrophic batch cultures of <i>Cyanospira capsulata</i> . <i>Applied Microbiology and Biotechnology</i> , <b>1990</b> , 34, 392-396	5.7	59
97	Effects of heavy metals on <i>Cyanothece</i> sp. CCY 0110 growth, extracellular polymeric substances (EPS) production, ultrastructure and protein profiles. <i>Journal of Proteomics</i> , <b>2015</b> , 120, 75-94	3.9	57
96	Development of the polysaccharidic matrix in biocrusts induced by a cyanobacterium inoculated in sand microcosms. <i>Biology and Fertility of Soils</i> , <b>2018</b> , 54, 27-40	6.1	57
95	Hydrogen production during stationary phase in purple photosynthetic bacteria. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 6525-6534	6.7	56
94	Hydrogen-producing purple non-sulfur bacteria isolated from the trophic lake Averno (Naples, Italy). <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 12216-12223	6.7	52
93	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> , <b>2016</b> , 100, 7765-75	5.7	51
92	Characterization of exopolysaccharides produced by seven biofilm-forming cyanobacterial strains for biotechnological applications. <i>Journal of Applied Phycology</i> , <b>2013</b> , 25, 1697-1708	3.2	50
91	Sustained outdoor H <sub>2</sub> production with <i>Rhodospseudomonas palustris</i> cultures in a 50L tubular photobioreactor. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8840-8849	6.7	49
90	Effects of growth conditions on exopolysaccharide production by <i>Cyanospira capsulata</i> . <i>Bioresource Technology</i> , <b>1991</b> , 38, 101-104	11	46

89	Effect of light and temperature on biomass, photosynthesis and capsular polysaccharides in cultured phototrophic biofilms. <i>Journal of Applied Phycology</i> , <b>2012</b> , 24, 211-220	3.2	44
88	H and poly- $\beta$ -hydroxybutyrate, two alternative chemicals from purple non sulfur bacteria. <i>Biotechnology Letters</i> , <b>1997</b> , 19, 759-762	3	42
87	Sheathless mutant of Cyanobacterium Gloeotheca sp. strain PCC 6909 with increased capacity to remove copper ions from aqueous solutions. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 2797-804	4.8	42
86	Microbial fixation of CO <sub>2</sub> in water bodies and in drylands to combat climate change, soil loss and desertification. <i>New Biotechnology</i> , <b>2015</b> , 32, 109-20	6.4	40
85	Exocellular Polysaccharides in Microalgae and Cyanobacteria: Chemical Features, Role and Enzymes and Genes Involved in Their Biosynthesis <b>2016</b> , 565-590		40
84	Capsular polysaccharides of cultured phototrophic biofilms. <i>Biofouling</i> , <b>2009</b> , 25, 495-504	3.3	40
83	Control of Lunar and Martian dust--experimental insights from artificial and natural cyanobacterial and algal crusts in the desert of Inner Mongolia, China. <i>Astrobiology</i> , <b>2008</b> , 8, 75-86	3.7	40
82	The potential of the cyanobacterium <i>Leptolyngbya ohadii</i> as inoculum for stabilizing bare sandy substrates. <i>Soil Biology and Biochemistry</i> , <b>2018</b> , 127, 318-328	7.5	38
81	Response of an exopolysaccharide-producing heterocystous cyanobacterium to changes in metabolic carbon flux. <i>Journal of Applied Phycology</i> , <b>1996</b> , 8, 275-281	3.2	38
80	A <i>Rhodospseudomonas palustris</i> nifA* mutant produces H <sub>2</sub> from -containing vegetable wastes. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 15893-15900	6.7	36
79	Energy conversion of biomass crops and agroindustrial residues by combined biohydrogen/biomethane system and anaerobic digestion. <i>Bioresource Technology</i> , <b>2016</b> , 211, 509-18	11	36
78	Rhizosphere effect and salinity competing to shape microbial communities in <i>Phragmites australis</i> (Cav.) Trin. ex-Steud. <i>FEMS Microbiology Letters</i> , <b>2014</b> , 359, 193-200	2.9	35
77	Optimization of copper sorbing-desorbing cycles with confined cultures of the exopolysaccharide-producing cyanobacterium <i>Cyanospira capsulata</i> . <i>Journal of Applied Microbiology</i> , <b>2006</b> , 101, 1351-6	4.7	33
76	Characterizing cultivable soil microbial communities from copper fungicide-amended olive orchard and vineyard soils. <i>World Journal of Microbiology and Biotechnology</i> , <b>2008</b> , 24, 309-318	4.4	32
75	Bread wastes to energy: Sequential lactic and photo-fermentation for hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 9569-9576	6.7	31
74	Assessment of the potential of Nostoc strains from the Pasteur Culture Collection for the production of polysaccharides of applied interest. <i>Journal of Applied Phycology</i> , <b>2000</b> , 12, 401-407	3.2	30
73	Soil Type and Cyanobacteria Species Influence the Macromolecular and Chemical Characteristics of the Polysaccharidic Matrix in Induced Biocrusts. <i>Microbial Ecology</i> , <b>2019</b> , 78, 482-493	4.4	30
72	Treatment of Cr(VI)-containing wastewaters with exopolysaccharide-producing cyanobacteria in pilot flow through and batch systems. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 87, 1953-61	5.7	27

71	Leptolyngbya strains from Roman hypogea: cytochemical and physico-chemical characterisation of exopolysaccharides. <i>Journal of Applied Phycology</i> , <b>2003</b> , 15, 193-200	3.2	27
70	Seasonal succession of phototrophic biofilms in an Italian wastewater treatment plant: biovolume, spatial structure and exopolysaccharides. <i>Aquatic Microbial Ecology</i> , <b>2006</b> , 45, 301-312	1.1	27
69	Chemical composition of volatile oil from <i>Artemisia ordosica</i> and its allelopathic effects on desert soil microalgae, <i>Palmellococcus miniatus</i> . <i>Plant Physiology and Biochemistry</i> , <b>2012</b> , 51, 153-8	5.4	26
68	Populations of exopolysaccharide-producing cyanobacteria and diatoms in the mucilaginous benthic aggregates of the Tyrrhenian Sea (Tuscan Archipelago). <i>Science of the Total Environment</i> , <b>2005</b> , 353, 360-8	10.2	24
67	UV-B resistance as a criterion for the selection of desert microalgae to be utilized for inoculating desert soils. <i>Journal of Applied Phycology</i> , <b>2013</b> , 25, 1009-1015	3.2	23
66	Shifting species interaction in soil microbial community and its influence on ecosystem functions modulating. <i>Microbial Ecology</i> , <b>2013</b> , 65, 700-8	4.4	23
65	Rheology of culture broths and exopolysaccharide of <i>Cyanospira capsulata</i> at different stages of growth. <i>Carbohydrate Polymers</i> , <b>1992</b> , 17, 1-10	10.3	23
64	Stability of molecular and rheological properties of the exopolysaccharide produced by <i>Cyanospira capsulata</i> cultivated under different growth conditions. <i>Journal of Applied Phycology</i> , <b>1993</b> , 5, 539-541	3.2	23
63	Selective biosorption and recovery of Ruthenium from industrial effluents with <i>Rhodopseudomonas palustris</i> strains. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 95, 381-7	5.7	22
62	Exopolysaccharides of Two Cyanobacterial Strains from Roman Hypogea. <i>Geomicrobiology Journal</i> , <b>2006</b> , 23, 301-310	2.5	22
61	Assembly and Export of Extracellular Polymeric Substances (EPS) in Cyanobacteria: A Phylogenomic Approach. <i>Advances in Botanical Research</i> , <b>2013</b> , 65, 235-279	2.2	21
60	Factors affecting poly- $\beta$ -hydroxybutyrate accumulation in cyanobacteria and in purple non-sulfur bacteria. <i>FEMS Microbiology Letters</i> , <b>1992</b> , 103, 187-194	2.9	21
59	Gold biosorption by exopolysaccharide producing cyanobacteria and purple nonsulphur bacteria. <i>Journal of Applied Microbiology</i> , <b>2012</b> , 113, 1380-8	4.7	20
58	Morphological and biochemical characterization of the exocellular investments of polysaccharide-producing <i>Nostoc</i> strains from the Pasteur Culture Collection. <i>World Journal of Microbiology and Biotechnology</i> , <b>2000</b> , 16, 655-661	4.4	20
57	Agroindustrial residues and energy crops for the production of hydrogen and poly- $\beta$ -hydroxybutyrate via photofermentation. <i>Bioresource Technology</i> , <b>2016</b> , 216, 941-7	11	20
56	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> , <b>2019</b> , 21, 343-359	5.2	20
55	Introducing capnophilic lactic fermentation in a combined dark-photo fermentation process: a route to unparalleled H <sub>2</sub> yields. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 1001-10	5.7	19
54	Cyanoflan: A cyanobacterial sulfated carbohydrate polymer with emulsifying properties. <i>Carbohydrate Polymers</i> , <b>2020</b> , 229, 115525	10.3	19

53	A novel two-phase bioprocess for the production of <i>Arthrospira (Spirulina) maxima</i> LJGR1 at pilot plant scale during different seasons and for phycocyanin induction under controlled conditions. <i>Bioresource Technology</i> , <b>2020</b> , 298, 122548	11	18
52	The role of the tyrosine kinase Wzc (Sll0923) and the phosphatase Wzb (Slr0328) in the production of extracellular polymeric substances (EPS) by <i>Synechocystis</i> PCC 6803. <i>MicrobiologyOpen</i> , <b>2019</b> , 8, e00733	3.4	17
51	Effectiveness of <i>Cyanothece</i> spp. and <i>Cyanospira capsulata</i> exocellular polysaccharides as antiadhesive agents for blocking attachment of <i>Helicobacter pylori</i> to human gastric cells. <i>Folia Microbiologica</i> , <b>2004</b> , 49, 64-70	2.8	17
50	Acclimation strategy of <i>Rhodospseudomonas palustris</i> to high light irradiance. <i>Microbiological Research</i> , <b>2017</b> , 197, 49-55	5.3	16
49	Mixotrophic cultivation of <i>Chlorococcum</i> sp. under non-controlled conditions using a digestate from pig manure within a biorefinery. <i>Journal of Applied Phycology</i> , <b>2018</b> , 30, 2847-2857	3.2	16
48	Induced biological soil crusts and soil properties varied between slope aspect, slope gradient and plant canopy in the Hobq desert of China. <i>Catena</i> , <b>2020</b> , 190, 104559	5.8	16
47	Biosorption of copper by cyanobacterial bloom-derived biomass harvested from the eutrophic Lake Dianchi in China. <i>Current Microbiology</i> , <b>2010</b> , 61, 340-5	2.4	15
46	Cyanobacteria inoculation as a potential tool for stabilization of burned soils. <i>Restoration Ecology</i> , <b>2020</b> , 28, S106	3.1	15
45	The role of grain size and inoculum amount on biocrust formation by <i>Leptolyngbya ohadii</i> . <i>Catena</i> , <b>2020</b> , 184, 104248	5.8	15
44	Differentiation of the characteristics of excreted extracellular polysaccharides reveals the heterogeneous primary succession of induced biological soil crusts. <i>Journal of Applied Phycology</i> , <b>2015</b> , 27, 1935-1944	3.2	14
43	A novel method to evaluate nutrient retention by biological soil crust exopolymeric matrix. <i>Plant and Soil</i> , <b>2018</b> , 429, 53-64	4.2	14
42	Pore characteristics in biological soil crusts are independent of extracellular polymeric substances. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 103, 294-299	7.5	14
41	Increased algicidal activity of <i>Aeromonas veronii</i> in response to <i>Microcystis aeruginosa</i> : interspecies crosstalk and secondary metabolites synergism. <i>Environmental Microbiology</i> , <b>2019</b> , 21, 1140-1150	5.2	14
40	Anti-Inflammatory Activity of Exopolysaccharides from sp. ETS05, the Most Abundant Cyanobacterium of the Therapeutic Euganean Thermal Muds, Using the Zebrafish Model. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	14
39	Characterization and antitumor activity of the extracellular carbohydrate polymer from the cyanobacterium <i>Synechocystis</i> FigF mutant. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 136, 1219-1227	7.9	13
38	Ammonia photoproduction by <i>Cyanospira rippkae</i> cells entrapped in dialysis tube. <i>Experientia</i> , <b>1986</b> , 42, 1040-1043		12
37	Heterotrophic metabolism and diazotrophic growth of <i>Nostoc</i> sp. from <i>Cycas circinalis</i> . <i>Plant and Soil</i> , <b>1988</b> , 110, 199-206	4.2	12
36	Two halophilic <i>Ectothiorhodospira</i> strains with unusual morphological, physiological and biochemical characters. <i>Archives of Microbiology</i> , <b>1988</b> , 149, 273-279	3	12

35	Hydrogen production under salt stress conditions by a freshwater <i>Rhodospseudomonas palustris</i> strain. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 2917-26	5.7	12
34	H <sub>2</sub> production in <i>Rhodospseudomonas palustris</i> as a way to cope with high light intensities. <i>Research in Microbiology</i> , <b>2016</b> , 167, 350-6	4	12
33	Cyanobacteria in biofilms on stone temples of Bhubaneswar, Eastern India. <i>Algological Studies (Stuttgart, Germany: 2007)</i> , <b>2015</b> , 147, 67-93	1	11
32	Photosynthetic Purple Non Sulfur Bacteria in Hydrogen Producing Systems: New Approaches in the Use of Well Known and Innovative Substrates <b>2017</b> , 321-350		10
31	Draft genome sequence and overview of the purple non sulfur bacterium <i>Rhodospseudomonas palustris</i> 42OL. <i>Standards in Genomic Sciences</i> , <b>2016</b> , 11, 24		10
30	Identification of aqueous extracts from <i>Artemisia ordosica</i> and their allelopathic effects on desert soil algae. <i>Chemoecology</i> , <b>2019</b> , 29, 61-71	2	10
29	Hydrogen Production: Photofermentation <b>2012</b> , 53-75		9
28	The role of hydrogen metabolism in photoheterotrophic cultures of the cyanobacterium <i>Nostoc</i> sp. strain Cc isolated from <i>Cycas circinalis</i> L.. <i>Journal of General Microbiology</i> , <b>1990</b> , 136, 1009-1015		9
27	Use of quantitative PCR with the chloroplast gene <i>rps4</i> to determine moss abundance in the early succession stage of biological soil crusts. <i>Biology and Fertility of Soils</i> , <b>2016</b> , 52, 595-599	6.1	8
26	Exopolysaccharide Features Influence Growth Success in Biocrust-forming Cyanobacteria, Moving From Liquid Culture to Sand Microcosms. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 568224	5.7	8
25	Differentiation of microbial activity and functional diversity between various biocrust elements in a heterogeneous crustal community. <i>Catena</i> , <b>2016</b> , 147, 138-145	5.8	8
24	Exopolysaccharides in cyanobacterial biofilms from Roman catacombs. <i>Algological Studies</i> , <b>2005</b> , 117, 117-132		7
23	Carbohydrate synthesis by two <i>Navicula</i> strains isolated from benthic and pelagic mucilages in the Tyrrhenian Sea (Tuscan Archipelago). <i>Journal of Applied Phycology</i> , <b>2003</b> , 15, 259-261	3.2	7
22	Photosynthesis and Hydrogen Production in Purple Non Sulfur Bacteria: Fundamental and Applied Aspects. <i>Advances in Photosynthesis and Respiration</i> , <b>2014</b> , 269-290	1.7	7
21	Biotransformation of water lettuce ( <i>Pistia stratiotes</i> ) to biohydrogen by <i>Rhodospseudomonas palustris</i> . <i>Journal of Applied Microbiology</i> , <b>2017</b> , 123, 1438-1446	4.7	6
20	The facilitative effects of shrub on induced biological soil crust development and soil properties. <i>Applied Soil Ecology</i> , <b>2019</b> , 137, 129-138	5	6
19	Biosorption and Recovery of Chromium from Industrial Wastewaters By Using <i>Saccharomyces cerevisiae</i> in a Flow-Through System. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 4452-4457	3.9	6
18	Overcoming field barriers to restore dryland soils by cyanobacteria inoculation. <i>Soil and Tillage Research</i> , <b>2021</b> , 207, 104799	6.5	6

17	Purple Bacteria: Electron Acceptors and Donors <b>2013</b> , 693-699		5
16	Combined Systems for Maximum Substrate Conversion <b>2012</b> , 107-126		5
15	Heavy Metal Removal with Exopolysaccharide-Producing Cyanobacteria. <i>Advances in Industrial and Hazardous Wastes Treatment Series</i> , <b>2009</b> ,		4
14	Differential proteomes of the cyanobacterium <i>Cyanothece</i> sp. CCY 0110 upon exposure to heavy metals. <i>Data in Brief</i> , <b>2015</b> , 4, 152-8	1.2	3
13	Cyanobacterial biocrust induction: A comprehensive review on a soil rehabilitation-effective biotechnology. <i>Geoderma</i> , <b>2022</b> , 415, 115766	6.7	3
12	Exopolysaccharides from cyanobacteria and their possible industrial applications <b>2013</b> , 197-207		2
11	Factors affecting poly- $\beta$ -hydroxybutyrate accumulation in cyanobacteria and in purple non-sulfur bacteria. <i>FEMS Microbiology Letters</i> , <b>1992</b> , 103, 187-194	2.9	2
10	Marine Cyanobacteria as a Potential Source of Biomass and Chemicals. <i>International Journal of Solar Energy</i> , <b>1988</b> , 6, 235-246		2
9	High Arctic biocrusts: characterization of the exopolysaccharidic matrix. <i>Polar Biology</i> , <b>2020</b> , 43, 1805-1815		2
8	Multiple diversity facets of crucial microbial groups in biological soil crusts promote soil multifunctionality. <i>Global Ecology and Biogeography</i> , <b>2021</b> , 30, 1204-1217	6.1	2
7	Drought-tolerant cyanobacteria and mosses as biotechnological tools to attain land degradation neutrality. <i>Web Ecology</i> , <b>2021</b> , 21, 65-78	1.7	2
6	Rhizosphere-root system changes exopolysaccharide content but stabilizes bacterial community across contrasting seasons in a desert environment.. <i>Environmental Microbiomes</i> , <b>2022</b> , 17, 14	5.6	2
5	Phylogenetic, morphological and biochemical studies on <i>Thermospirulina andreolii</i> gen. & sp. nov. (Cyanophyta) from the Euganean Thermal District (Italy). <i>Phycologia</i> , 1-10	2.7	1
4	Heterotrophic metabolism and diazotrophic growth of <i>Nostoc</i> sp. from <i>Cycas circinalis</i> <b>1989</b> , 63-70		1
3	Monosaccharide composition of primary cell wall polysaccharides as a developmental level indicator of biological soil crusts. <i>Catena</i> , <b>2020</b> , 195, 104782	5.8	1
2	Comment on Kridon, G. J. (2018). Biocrust research: A critical view on eight common hydrological-related paradigms and dubious theses. <i>Ecohydrology</i> , e2061 <i>Ecohydrology</i> , <b>2020</b> , 13, e2215 <sup>2-5</sup>		1
1	New and traditional energy resources from microbial activities in the agroindustrial system. <i>Italian Journal of Agronomy</i> , <b>2009</b> , 4, 141	1.4	