

Functional type 2 photosynthetic reaction centers found
in Gemmatimonadetes

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Adaptive and acclimative responses of cyanobacteria to far-red light. <i>Environmental Microbiology</i> , 2015, 17, 3450-3465.	3.8	158
2	Niche differentiation of bacterial communities at a millimeter scale in Shark Bay microbial mats. <i>Scientific Reports</i> , 2015, 5, 15607.	3.3	137
3	Proterozoic photosynthesis – a critical review. <i>Palaeontology</i> , 2015, 58, 953-972.	2.2	92
4	Taxonomic and functional characteristics of microbial communities and their correlation with physicochemical properties of four geothermal springs in Odisha, India. <i>Frontiers in Microbiology</i> , 2015, 6, 1166.	3.5	63
5	Occurrence of Far-Red Light Photoacclimation (FaRLiP) in Diverse Cyanobacteria. <i>Life</i> , 2015, 5, 4-24.	2.4	155
6	Vertical distribution of the soil microbiota along a successional gradient in a glacier forefield. <i>Molecular Ecology</i> , 2015, 24, 1091-1108.	3.9	180
7	Microbial ecology of hot desert edaphic systems. <i>FEMS Microbiology Reviews</i> , 2015, 39, 203-221.	8.6	299
8	A fresh look at the evolution and diversification of photochemical reaction centers. <i>Photosynthesis Research</i> , 2015, 126, 111-134.	2.9	104
9	Ecology of aerobic anoxygenic phototrophs in aquatic environments. <i>FEMS Microbiology Reviews</i> , 2015, 39, 854-870.	8.6	170
10	Nutrient requirements and growth physiology of the photoheterotrophic <i>Acidobacterium</i> , <i>Chloracidobacterium thermophilum</i> . <i>Frontiers in Microbiology</i> , 2015, 06, 226.	3.5	65
11	Oxidative stress and starvation in <i>Dinoroseobacter shibae</i> : the role of extrachromosomal elements. <i>Frontiers in Microbiology</i> , 2015, 6, 233.	3.5	18
12	A Comparison of 14 <i>Erythrobacter</i> Genomes Provides Insights into the Genomic Divergence and Scattered Distribution of Phototrophs. <i>Frontiers in Microbiology</i> , 2016, 7, 984.	3.5	35
13	Abundance of Common Aerobic Anoxygenic Phototrophic Bacteria in a Coastal Aquaculture Area. <i>Frontiers in Microbiology</i> , 2016, 7, 1996.	3.5	8
14	Diversity of Phototrophic Genes Suggests Multiple Bacteria May Be Able to Exploit Sunlight in Exposed Soils from the SÅr Rondane Mountains, East Antarctica. <i>Frontiers in Microbiology</i> , 2016, 7, 2026.	3.5	20
15	Reconstructing the Origin of Oxygenic Photosynthesis: Do Assembly and Photoactivation Recapitulate Evolution?. <i>Frontiers in Plant Science</i> , 2016, 7, 257.	3.6	59
16	Novel <i>acsF</i> Gene Primers Revealed a Diverse Phototrophic Bacterial Population, Including Gemmatimonadetes, in Lake Taihu (China). <i>Applied and Environmental Microbiology</i> , 2016, 82, 5587-5594.	3.1	18
17	Unexpectedly high bacteriochlorophyll <i>a</i> concentrations in neotropical tank bromeliads. <i>Environmental Microbiology Reports</i> , 2016, 8, 689-698.	2.4	10
18	Delta-proteobacterial SAR324 group in hydrothermal plumes on the South Mid-Atlantic Ridge. <i>Scientific Reports</i> , 2016, 6, 22842.	3.3	21

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19	Biotechnology of Anoxygenic Phototrophic Bacteria. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016, 156, 139-154.	1.1	15
20	Powered by light: Phototrophy and photosynthesis in prokaryotes and its evolution. <i>Microbiological Research</i> , 2016, 186-187, 99-118.	5.3	54
21	Metagenomic evidence for the presence of phototrophic <i>Gemmatimonadetes</i> bacteria in diverse environments. <i>Environmental Microbiology Reports</i> , 2016, 8, 139-149.	2.4	66
22	Genomics of a phototrophic nitrite oxidizer: insights into the evolution of photosynthesis and nitrification. <i>ISME Journal</i> , 2016, 10, 2669-2678.	9.8	32
23	Evolution of Oxygenic Photosynthesis. <i>Annual Review of Earth and Planetary Sciences</i> , 2016, 44, 647-683.	11.0	334
24	Dense water plumes modulate richness and productivity of deep sea microbes. <i>Environmental Microbiology</i> , 2016, 18, 4537-4548.	3.8	17
25	Impact of genomics on the understanding of microbial evolution and classification: the importance of Darwin's views on classification. <i>FEMS Microbiology Reviews</i> , 2016, 40, 520-553.	8.6	73
26	The Diversity of Photosynthetic Cytochromes. <i>Advances in Photosynthesis and Respiration</i> , 2016, , 25-50.	1.0	0
27	<i>In Vitro</i> Assays of BciC Showing C13 ² -Demethoxycarbonylase Activity Requisite for Biosynthesis of Chlorosomal Chlorophyll Pigments. <i>Plant and Cell Physiology</i> , 2016, 57, 1048-1057.	3.1	20
28	The role of biology in planetary evolution: cyanobacterial primary production in low-oxygen Proterozoic oceans. <i>Environmental Microbiology</i> , 2016, 18, 325-340.	3.8	151
29	Evidence for the presence of key chlorophyll-biosynthesis-related proteins in the genus <i>Rubrobacter</i> (Phylum Actinobacteria) and its implications for the evolution and origin of photosynthesis. <i>Photosynthesis Research</i> , 2016, 127, 201-218.	2.9	21
30	Evolution of the acceptor side of photosystem I: ferredoxin, flavodoxin, and ferredoxin-NADP+ oxidoreductase. <i>Photosynthesis Research</i> , 2017, 134, 235-250.	2.9	44
31	Sulfur Metabolism in Phototrophic Bacteria. , 2017, , 27-66.		40
32	Modern Topics in the Phototrophic Prokaryotes. , 2017, , .		42
33	Nitrous Oxide Reduction by an Obligate Aerobic Bacterium, <i>Gemmatimonas aurantiaca</i> Strain T-27. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	128
34	A Panoply of Phototrophs: An Overview of the Thermophilic Chlorophototrophs of the Microbial Mats of Alkaline Siliceous Hot Springs in Yellowstone National Park, WY, USA. , 2017, , 87-137.		62
35	Effects of fungicide iprodione and nitrification inhibitor 3, 4-dimethylpyrazole phosphate on soil enzyme and bacterial properties. <i>Science of the Total Environment</i> , 2017, 599-600, 254-263.	8.0	64
36	Three classes of oxygen-dependent cyclase involved in chlorophyll and bacteriochlorophyll biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6280-6285.	7.1	38

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37	Fixation of CO ₂ using the ethylmalonyl-CoA pathway in the photoheterotrophic marine bacterium <i>Dinoroseobacter shibae</i> . <i>Environmental Microbiology</i> , 2017, 19, 2645-2660.	3.8	29
38	Evolution of the 3-hydroxypropionate bicycle and recent transfer of anoxygenic photosynthesis into the Chloroflexi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10749-10754.	7.1	108
39	Assessing impacts of DNA extraction methods on next generation sequencing of water and wastewater samples. <i>Journal of Microbiological Methods</i> , 2017, 141, 10-16.	1.6	46
40	Isolation and characterization of aerobic anoxygenic phototrophs from exposed soils from the Sør Rondane Mountains, East Antarctica. <i>Systematic and Applied Microbiology</i> , 2017, 40, 357-369.	2.8	69
41	Genomic Analysis of the Evolution of Phototrophy among Haloalkaliphilic Rhodobacterales. <i>Genome Biology and Evolution</i> , 2017, 9, 1950-1962.	2.5	25
42	Draft Genome Sequence of <i>Chloracidobacterium</i> sp. CP2_5A, a Phototrophic Member of the Phylum Acidobacteria Recovered from a Japanese Hot Spring. <i>Genome Announcements</i> , 2017, 5, .	0.8	19
43	Bacterial distribution pattern in the surface sediments distinctive among shelf, slope and basin across the western Arctic Ocean. <i>Polar Biology</i> , 2017, 40, 423-436.	1.2	11
44	Novel insights into the origin and diversification of photosynthesis based on analyses of conserved indels in the core reaction center proteins. <i>Photosynthesis Research</i> , 2017, 131, 159-171.	2.9	14
45	Unique double concentric ring organization of light harvesting complexes in <i>Gemmatimonas phototrophica</i> . <i>PLoS Biology</i> , 2017, 15, e2003943.	5.6	19
46	Diversity of Chlorophototrophic Bacteria Revealed in the Omics Era. <i>Annual Review of Plant Biology</i> , 2018, 69, 21-49.	18.7	94
47	A physiological perspective on the origin and evolution of photosynthesis. <i>FEMS Microbiology Reviews</i> , 2018, 42, 205-231.	8.6	115
48	Early emergence of the FtsH proteases involved in photosystem II repair. <i>Photosynthetica</i> , 2018, 56, 163-177.	1.7	22
49	Exoplanet Biosignatures: A Review of Remotely Detectable Signs of Life. <i>Astrobiology</i> , 2018, 18, 663-708.	3.0	328
50	¹⁵ N photo-CIDNP MAS NMR analysis of reaction centers of <i>Chloracidobacterium thermophilum</i> . <i>Photosynthesis Research</i> , 2018, 137, 295-305.	2.9	20
51	Evolution of photosynthetic reaction centers: insights from the structure of the heliobacterial reaction center. <i>Photosynthesis Research</i> , 2018, 138, 11-37.	2.9	53
52	Genomes of Novel Microbial Lineages Assembled from the Sub-Ice Waters of Lake Baikal. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	91
53	Huanglongbing Control: Perhaps the End of the Beginning. <i>Microbial Ecology</i> , 2018, 76, 192-204.	2.8	59
54	A New Niche for Anoxygenic Phototrophs as Endoliths. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	8

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55	Aerobic Anoxygenic Phototrophic Bacteria Promote the Development of Biological Soil Crusts. <i>Frontiers in Microbiology</i> , 2018, 9, 2715.	3.5	17
56	Hidden in plain sight—highly abundant and diverse planktonic freshwater Chloroflexi. <i>Microbiome</i> , 2018, 6, 176.	11.1	130
57	Metagenomics reveals niche partitioning within the phototrophic zone of a microbial mat. <i>PLoS ONE</i> , 2018, 13, e0202792.	2.5	5
58	Horizontal operon transfer, plasmids, and the evolution of photosynthesis in <i>Rhodobacteraceae</i> . <i>ISME Journal</i> , 2018, 12, 1994-2010.	9.8	75
59	Evolution of Phototrophy in the Chloroflexi Phylum Driven by Horizontal Gene Transfer. <i>Frontiers in Microbiology</i> , 2018, 9, 260.	3.5	143
60	A paralog of a bacteriochlorophyll biosynthesis enzyme catalyzes the formation of 1,2-dihydrocarotenoids in green sulfur bacteria. <i>Journal of Biological Chemistry</i> , 2018, 293, 15233-15242.	3.4	9
61	Propolis from Different Geographic Origins Decreases Intestinal Inflammation and <i>Bacteroides</i> spp. Populations in a Model of DSS-Induced Colitis. <i>Molecular Nutrition and Food Research</i> , 2018, 62, e1800080.	3.3	168
62	Evolutionary Implications of Anoxygenic Phototrophy in the Bacterial Phylum Candidatus <i>Eremiobacterota</i> (WPS-2). <i>Frontiers in Microbiology</i> , 2019, 10, 1658.	3.5	88
63	Response of bacterial communities in rubber plantations to different fertilizer treatments. <i>3 Biotech</i> , 2019, 9, 293.	2.2	6
64	Genomics of Aerobic Photoheterotrophs in Wheat Phyllosphere Reveals Divergent Evolutionary Patterns of Photosynthetic Genes in <i>Methylobacterium</i> spp.. <i>Genome Biology and Evolution</i> , 2019, 11, 2895-2908.	2.5	19
65	Characteristics and Evolutionary Analysis of Photosynthetic Gene Clusters on Extrachromosomal Replicons: from Streamlined Plasmids to Chromids. <i>MSystems</i> , 2019, 4, .	3.8	13
66	Metagenomes and metatranscriptomes shed new light on the microbial-mediated sulfur cycle in a Siberian soda lake. <i>BMC Biology</i> , 2019, 17, 69.	3.8	70
67	A shared core microbiome in soda lakes separated by large distances. <i>Nature Communications</i> , 2019, 10, 4230.	12.8	75
68	Phylogenetic Distribution and Diversity of Bacterial Pseudo-Orthocaspases Underline Their Putative Role in Photosynthesis. <i>Frontiers in Plant Science</i> , 2019, 10, 293.	3.6	18
69	Reaction centers of the thermophilic microaerophile, <i>Chloracidobacterium thermophilum</i> (Acidobacteria) I: biochemical and biophysical characterization. <i>Photosynthesis Research</i> , 2019, 142, 87-103.	2.9	16
70	Thinking twice about the evolution of photosynthesis. <i>Open Biology</i> , 2019, 9, 180246.	3.6	49
72	Soil bacterial diversity is positively associated with air temperature in the maritime Antarctic. <i>Scientific Reports</i> , 2019, 9, 2686.	3.3	37
73	Emended description of the genus <i>Tabrizicola</i> and the species <i>Tabrizicola aquatica</i> as aerobic anoxygenic phototrophic bacteria. <i>Antonie Van Leeuwenhoek</i> , 2019, 112, 1169-1175.	1.7	25

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74	Biosynthesis of chlorophylls and bacteriochlorophylls in green bacteria. <i>Advances in Botanical Research</i> , 2019, , 35-89.	1.1	21
75	Phylogeny of Anoxygenic Photosynthesis Based on Sequences of Photosynthetic Reaction Center Proteins and a Key Enzyme in Bacteriochlorophyll Biosynthesis, the Chlorophyllide Reductase. <i>Microorganisms</i> , 2019, 7, 576.	3.6	29
76	Correlation of bio-optical properties with photosynthetic pigment and microorganism distribution in microbial mats from Hamelin Pool, Australia. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	18
77	Early Archean origin of Photosystem II . <i>Geobiology</i> , 2019, 17, 127-150.	2.4	95
78	Evolution of light-independent protochlorophyllide oxidoreductase. <i>Protoplasma</i> , 2019, 256, 293-312.	2.1	23
79	Bulk and Active Sediment Prokaryotic Communities in the Mariana and Mussau Trenches. <i>Frontiers in Microbiology</i> , 2020, 11, 1521.	3.5	19
80	An overview of anoxygenic phototrophic bacteria and their applications in environmental biotechnology for sustainable Resource recovery. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020, 28, e00563.	4.4	58
81	The Invasion of <i>Alternanthera philoxeroides</i> Increased Soil Organic Carbon in a River and a Constructed Wetland With Different Mechanisms. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	2
82	Functional Gene Expression in Shark Bay Hypersaline Microbial Mats: Adaptive Responses. <i>Frontiers in Microbiology</i> , 2020, 11, 560336.	3.5	20
83	Potential Rhodopsin- and Bacteriochlorophyll-Based Dual Phototrophy in a High Arctic Glacier. <i>MBio</i> , 2020, 11, .	4.1	23
84	Utilization of light energy in phototrophic Gemmatimonadetes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 213, 112085.	3.8	28
85	Photosynthetic Systems Suggest an Evolutionary Pathway to Diderms. <i>Acta Biotheoretica</i> , 2021, 69, 343-358.	1.5	1
86	A comparative look at structural variation among RC-LH1 Core complexes present in anoxygenic phototrophic bacteria. <i>Photosynthesis Research</i> , 2020, 145, 83-96.	2.9	22
87	Performance and mechanism of urea hydrolysis in partial nitrification system based on SBR. <i>Chemosphere</i> , 2020, 258, 127228.	8.2	14
88	BALOs Improved Gut Microbiota Health in Postlarval Shrimp (<i>Litopenaeus vannamei</i>) After Being Subjected to Salinity Reduction Treatment. <i>Frontiers in Microbiology</i> , 2020, 11, 1296.	3.5	13
89	Abundance of kinless hubs within soil microbial networks are associated with high functional potential in agricultural ecosystems. <i>Environment International</i> , 2020, 142, 105869.	10.0	158
90	Out of the Abyss: Genome and Metagenome Mining Reveals Unexpected Environmental Distribution of Abyssomicins. <i>Frontiers in Microbiology</i> , 2020, 11, 645.	3.5	6
91	Energetic Basis of Microbial Growth and Persistence in Desert Ecosystems. <i>MSystems</i> , 2020, 5, .	3.8	66

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92	Complex Evolution of Light-Dependent Protochlorophyllide Oxidoreductases in Aerobic Anoxygenic Phototrophs: Origin, Phylogeny, and Function. <i>Molecular Biology and Evolution</i> , 2021, 38, 819-837.	8.9	6
93	Spatial patterns and co-occurrence networks of microbial communities related to environmental heterogeneity in deep-sea surface sediments around Yap Trench, Western Pacific Ocean. <i>Science of the Total Environment</i> , 2021, 759, 143799.	8.0	43
94	<i>Gemmatimonas groenlandica</i> sp. nov. Is an Aerobic Anoxygenic Phototroph in the Phylum Gemmatimonadetes. <i>Frontiers in Microbiology</i> , 2020, 11, 606612.	3.5	48
95	Granick revisited: Synthesizing evolutionary and ecological evidence for the late origin of bacteriochlorophyll via ghost lineages and horizontal gene transfer. <i>PLoS ONE</i> , 2021, 16, e0239248.	2.5	10
96	Photosynthesis Purple Bacteria: Photosynthetic Reaction Centers. , 2021, , 315-332.		3
97	Isolation and Identification of Extremophilic Bacteria with Potential as Plant Growth Promoters (Pgp) of A Geothermal Site: A Case Study. <i>Geomicrobiology Journal</i> , 2021, 38, 436-450.	2.0	5
98	Comparative Study of the Rhizosphere and Root Endosphere Microbiomes of Cholistan Desert Plants. <i>Frontiers in Microbiology</i> , 2021, 12, 618742.	3.5	24
99	Investigation of the Factors Affecting the Treatment Performance of a Stormwater Horizontal Subsurface Flow Constructed Wetland Treating Road and Parking Lot Runoff. <i>Water (Switzerland)</i> , 2021, 13, 1242.	2.7	14
100	Soil bacterial approach to assessing afforestation in the desertified Northern China. <i>Journal of Cleaner Production</i> , 2021, 292, 125935.	9.3	10
101	Common Presence of Phototrophic <i>Gemmatimonadota</i> in Temperate Freshwater Lakes. <i>MSystems</i> , 2021, 6, .	3.8	20
102	Characterization of the Aerobic Anoxygenic Phototrophic Bacterium <i>Sphingomonas</i> sp. AAP5. <i>Microorganisms</i> , 2021, 9, 768.	3.6	10
104	The content, composition, and influencing factors of organic carbon in the sediments of two types of constructed wetlands. <i>Environmental Science and Pollution Research</i> , 2021, 28, 49206-49219.	5.3	12
106	Spatial and Temporal Distribution of Bacterioplankton Molecular Ecological Networks in the Yuan River under Different Human Activity Intensity. <i>Microorganisms</i> , 2021, 9, 1532.	3.6	7
107	Contribution of microbial photosynthesis to peatland carbon uptake along a latitudinal gradient. <i>Journal of Ecology</i> , 2021, 109, 3424-3441.	4.0	10
108	Microbial Ecology of Qatar, the Arabian Gulf: Possible Roles of Microorganisms. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	3
109	Structure elucidation of the novel carotenoid gemmatoxanthin from the photosynthetic complex of <i>Gemmatimonas phototrophica</i> AP64. <i>Scientific Reports</i> , 2021, 11, 15964.	3.3	3
110	Soil type and pH mediated arable soil bacterial compositional variation across geographic distance in North China Plain. <i>Applied Soil Ecology</i> , 2022, 169, 104220.	4.3	12
111	Photosynthesis Carotenoids in Photosynthesis – Structure and Biosynthesis. , 2021, , 163-185.		5

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112	Phototrophic Gemmatimonadetes: A New “Purple” Branch on the Bacterial Tree of Life. , 2017, , 163-192.		11
113	Characterization of the microaerophilic, bacteriochlorophyll a-containing bacterium <i>Gemmatimonas phototrophica</i> sp. nov., and emended descriptions of the genus <i>Gemmatimonas</i> and <i>Gemmatimonas aurantiaca</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 2410-2419.	1.7	98
114	<i>Longimicrobium terrae</i> gen. nov., sp. nov., an oligotrophic bacterium of the under-represented phylum Gemmatimonadetes isolated through a system of miniaturized diffusion chambers. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 1976-1985.	1.7	53
115	<i>Roseisolibacter agri</i> gen. nov., sp. nov., a novel slow-growing member of the under-represented phylum Gemmatimonadetes. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 1028-1036.	1.7	38
116	Consumption of N ₂ O and other N-cycle intermediates by <i>Gemmatimonas aurantiaca</i> strain T-27. <i>Microbiology (United Kingdom)</i> , 2019, 165, 1345-1354.	1.8	53
124	Simultaneous Presence of Bacteriochlorophyll and Xanthorhodopsin Genes in a Freshwater Bacterium. <i>MSystems</i> , 2020, 5, .	3.8	11
125	Origin of Bacteriochlorophyll a and the Early Diversification of Photosynthesis. <i>PLoS ONE</i> , 2016, 11, e0151250.	2.5	16
126	Deciphering the Bacterial Microbiome in Huanglongbing-Affected Citrus Treated with Thermotherapy and Sulfonamide Antibiotics. <i>PLoS ONE</i> , 2016, 11, e0155472.	2.5	33
127	Pentoses Used in Cultures of <i>Synechococcus nidulans</i> and <i>Spirulina paracas</i> : Evaluation of Effects in Growth and in Content of Proteins and Carbohydrates. <i>Brazilian Archives of Biology and Technology</i> , 0, 62, .	0.5	2
128	Distribution of Phototrophic Purple Nonsulfur Bacteria in Massive Blooms in Coastal and Wastewater Ditch Environments. <i>Microorganisms</i> , 2020, 8, 150.	3.6	10
129	Microbial communities and their predictive functional profiles in the arid soil of Saudi Arabia. <i>Soil</i> , 2020, 6, 513-521.	4.9	14
130	In four shallow and mesophotic tropical reef sponges from Guam the microbial community largely depends on host identity. <i>PeerJ</i> , 2016, 4, e1936.	2.0	62
133	Mass Spectrometry of Chlorophylls from Phototrophic Prokaryotes. <i>Current Organic Chemistry</i> , 2018, 22, 877-884.	1.6	1
138	<i>Aerophototrophica crusticola</i> gen. nov., sp. nov., isolated from desert biocrusts. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 71, .	1.7	9
139	Taxonomic diversity and metabolic activity of microbial communities in rivers and estuarine waters of Southern Baikal in summer. <i>Journal of Great Lakes Research</i> , 2022, 48, 125-142.	1.9	4
141	Aquatic Thermal Reservoirs of Microbial Life in a Remote and Extreme High Andean Hydrothermal System. <i>Microorganisms</i> , 2020, 8, 208.	3.6	5
142	<i>Roseobacter cerasinus</i> sp. nov., isolated from a fish farm. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 4920-4926.	1.7	6
144	Changes in bacterial community composition and soil properties altered the response of soil respiration to rain addition in desert biological soil crusts. <i>Geoderma</i> , 2022, 409, 115635.	5.1	7

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145	Difficult-to-culture bacteria in the rhizosphere: The underexplored signature microbial groups. <i>Pedosphere</i> , 2022, 32, 75-89.	4.0	12
146	A highly effective survival strategy of aerobic anoxygenic phototrophic bacteria in the ocean. <i>Oceanography in Japan</i> , 2020, 29, 189-216.	0.5	0
147	Phylum Gemmatimonadota and Its Role in the Environment. <i>Microorganisms</i> , 2022, 10, 151.	3.6	69
149	2.4-Å... structure of the double-ring <i>Gemmatimonas phototrophica</i> photosystem. <i>Science Advances</i> , 2022, 8, eabk3139.	10.3	16
150	<i>Neotabrizicola shimadae</i> gen. nov., sp. nov., an aerobic anoxygenic phototrophic bacterium harbouring photosynthetic genes in the family Rhodobacteraceae, isolated from a terrestrial hot spring. <i>Antonie Van Leeuwenhoek</i> , 2022, 115, 731-740.	1.7	8
182	Plant peptidoglycan precursor biosynthesis: Conservation between moss chloroplasts and Gram-negative bacteria. <i>Plant Physiology</i> , 2022, 190, 165-179.	4.8	6
183	Nitrogen fertilization decrease soil CO ₂ emission in a rainfed maize field in Northeast China. <i>Environmental Science and Pollution Research</i> , 2022, 29, 81256-81264.	5.3	4
184	Prosthecate aerobic anoxygenic phototrophs <i>Photocaulis sulfatitolerans</i> gen. nov. sp. nov. and <i>Photocaulis rubescens</i> sp. nov. isolated from alpine meromictic lakes in British Columbia, Canada. <i>Archives of Microbiology</i> , 2022, 204, .	2.2	3
185	(Meta)Genomic Analysis Reveals Diverse Energy Conservation Strategies Employed by Globally Distributed <i>Gemmatimonadota</i> . <i>MSystems</i> , 2022, 7, .	3.8	6
186	Atmospheric chemosynthesis is phylogenetically and geographically widespread and contributes significantly to carbon fixation throughout cold deserts. <i>ISME Journal</i> , 2022, 16, 2547-2560.	9.8	18
187	Phylogenomic analysis of a metagenome-assembled genome indicates a new taxon of an anoxygenic phototroph bacterium in the family Chromatiaceae and the proposal of <i>Candidatus Thioaporhodococcus</i> gen. nov. <i>Archives of Microbiology</i> , 2022, 204, .	2.2	2
188	The controlled-release nitrogen fertilizer driving the symbiosis of microbial communities to improve wheat productivity and soil fertility. <i>Field Crops Research</i> , 2022, 289, 108712.	5.1	10
189	Arsenic-triggered bacterial minorities correlate with arsenic accumulation in cabbage. <i>Geoderma</i> , 2023, 429, 116278.	5.1	0
190	A review of green biohydrogen production using anoxygenic photosynthetic bacteria for hydrogen economy: Challenges and opportunities. <i>International Journal of Hydrogen Energy</i> , 2024, 54, 218-238.	7.1	10
191	Influence of Geochemistry in the Tropical Hot Springs on Microbial Community Structure and Function. <i>Current Microbiology</i> , 2023, 80, .	2.2	1
192	Foliar herbivory affects the rhizosphere microbial assembly processes and association networks. <i>Rhizosphere</i> , 2022, , 100649.	3.0	0
193	A bacterium from a mountain lake harvests light using both proton-pumping xanthorhodopsins and bacteriochlorophyll-based photosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	12
194	<i>Vulcanimicrobium alpinus</i> gen. nov. sp. nov., the first cultivated representative of the candidate phylum <i>Eremiobacterota</i> , is a metabolically versatile aerobic anoxygenic phototroph. <i>ISME Communications</i> , 2022, 2, .	4.2	8

#	ARTICLE	IF	CITATIONS
196	The Influence of Calcium on the Growth, Morphology and Gene Regulation in <i>Gemmatimonas phototrophica</i> . <i>Microorganisms</i> , 2023, 11, 27.	3.6	2
197	Dynamic microbial community composition, co-occurrence pattern and assembly in rhizosphere and bulk soils along a coniferous plantation chronosequence. <i>Catena</i> , 2023, 223, 106914.	5.0	8
198	Metagenome-Assembled Genome HetDA_MAG_MH13 of the Family <i>Devosiaceae</i> , from a Marine N ₂ -fixing Cyanobacterial Enrichment Culture. <i>Microbiology Resource Announcements</i> , 0, , .	0.6	0
199	Impact of Pipe Material and Temperature on Drinking Water Microbiome and Prevalence of <i>Legionella</i> , <i>Mycobacterium</i> , and <i>Pseudomonas</i> Species. <i>Microorganisms</i> , 2023, 11, 352.	3.6	4
201	<i>Roseomonas fluvialis</i> sp. nov., an aerobic bacteriochlorophyll a-containing freshwater bacterium isolated from river epilithic biofilm. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2023, 73, .	1.7	0
202	The structure and assembly of reaction centre-light-harvesting 1 complexes in photosynthetic bacteria. <i>Bioscience Reports</i> , 2023, 43, .	2.4	7
204	Venus' Atmospheric Chemistry and Cloud Characteristics Are Compatible with Venusian Life. <i>Astrobiology</i> , 0, , .	3.0	2
205	Urbanization led to the abundance of Gram-negative, chemo-organo-heterotrophs, and antibiotic resistance genes in the downstream regions of the Ganga River water of India. <i>Environmental Science and Pollution Research</i> , 2023, 30, 75417-75438.	5.3	2
206	Describing difficult-to-culture bacteria: Taking a shortcut or investing time to discover something new?. <i>Systematic and Applied Microbiology</i> , 2023, 46, 126439.	2.8	0
207	Multi-environment ecogenomics analysis of the cosmopolitan phylum <i>Gemmatimonadota</i> . <i>Microbiology Spectrum</i> , 2023, 11, .	3.0	0
208	Two-tiered mutualism improves survival and competitiveness of cross-feeding soil bacteria. <i>ISME Journal</i> , 2023, 17, 2090-2102.	9.8	1
209	Globally distributed <i>Myxococcota</i> with photosynthesis gene clusters illuminate the origin and evolution of a potentially chimeric lifestyle. <i>Nature Communications</i> , 2023, 14, .	12.8	5
213	Cyanobacteria—the pioneering photoautotrophs. , 2024, , 1-18.		0
214	Effects of flue gas desulfurization gypsum and clover planting on qualities of soil and winter jujube in coastal saline-alkali orchard of north China. <i>Soil Ecology Letters</i> , 2024, 6, .	4.5	0
216	Aggregation/disaggregation of microalgal-bacterial flocs in high-rate oxidation ponds is a response to biotic/abiotic-induced changes in microbial community structure. <i>Journal of Applied Phycology</i> , 0, , .	2.8	0
217	A photoheterotrophic bacterium from Iceland has adapted its photosynthetic machinery to the long days of polar summer. <i>MSystems</i> , 2024, 9, .	3.8	0
218	Exploring the prokaryote-eukaryote interplay in microbial mats from an Andean athallassohaline wetland. <i>Microbiology Spectrum</i> , 2024, 12, .	3.0	0
219	Effects of Intercropping and Nitrogen Application on Soil Fertility and Microbial Communities in Peanut Rhizosphere Soil. <i>Agronomy</i> , 2024, 14, 635.	3.0	0

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220	Anoxygenic phototroph of the Chloroflexota uses a type I reaction centre. <i>Nature</i> , 2024, 627, 915-922.	27.8	0