

Michael Khl

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

282
papers

12,850
citations

64
h-index

98
g-index

334
ext. papers

15,489
ext. citations

5.5
avg, IF

6.44
L-index

#	Paper	IF	Citations
282	Fluorescent pigments in corals are photoprotective. <i>Nature</i> , 2000 , 408, 850-3	50.4	454
281	The in vivo biofilm. <i>Trends in Microbiology</i> , 2013 , 21, 466-74	12.4	435
280	Microenvironment and photosynthesis of zooxanthellae in scleractinian corals studied with microsensors for O ₂ , pH and light. <i>Marine Ecology - Progress Series</i> , 1995 , 117, 159-172	2.6	344
279	An Amperometric Microsensor for the Determination of H ₂ S in Aquatic Environments. <i>Analytical Chemistry</i> , 1996 , 68, 4351-4357	7.8	297
278	Fiber-optic oxygen microsensors, a new tool in aquatic biology. <i>Limnology and Oceanography</i> , 1995 , 40, 1159-1165	4.8	247
277	Quantifying microbial diversity: morphotypes, 16S rRNA genes, and carotenoids of oxygenic phototrophs in microbial mats. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 422-30	4.8	214
276	Microsensor measurements of sulfate reduction and sulfide oxidation in compact microbial communities of aerobic biofilms. <i>Applied and Environmental Microbiology</i> , 1992 , 58, 1164-74	4.8	196
275	Distribution of sulfate-reducing bacteria, O ₂ , and H ₂ S in photosynthetic biofilms determined by oligonucleotide probes and microelectrodes. <i>Applied and Environmental Microbiology</i> , 1993 , 59, 3840-9	4.8	196
274	A nitrite microsensor for profiling environmental biofilms. <i>Applied and Environmental Microbiology</i> , 1997 , 63, 973-7	4.8	183
273	In situ analysis of nitrogen fixation and metabolic switching in unicellular thermophilic cyanobacteria inhabiting hot spring microbial mats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 2398-403	11.5	172
272	Anoxic aggregates - an ephemeral phenomenon in the pelagic environment?. <i>Aquatic Microbial Ecology</i> , 1997 , 13, 285-294	1.1	167
271	Ecology: a niche for cyanobacteria containing chlorophyll d. <i>Nature</i> , 2005 , 433, 820	50.4	163
270	MICROENVIRONMENTAL CONTROL OF PHOTOSYNTHESIS AND PHOTOSYNTHESIS-COUPLED RESPIRATION IN AN EPILITHIC CYANOBACTERIAL BIOFILM ¹ . <i>Journal of Phycology</i> , 1996 , 32, 799-812	3	161
269	Highly photostable near-infrared fluorescent pH indicators and sensors based on BF ₂ -chelated tetraarylazadipyrrromethene dyes. <i>Analytical Chemistry</i> , 2012 , 84, 6723-30	7.8	145
268	Microsensor studies of photosynthesis and respiration in the symbiotic foraminifer <i>Orbulina universa</i> . <i>Marine Biology</i> , 1998 , 131, 583-595	2.5	144
267	Optical measurement of oxygen and temperature in microscale: strategies and biological applications. <i>Sensors and Actuators B: Chemical</i> , 1997 , 38, 29-37	8.5	132
266	Community ecology of hot spring cyanobacterial mats: predominant populations and their functional potential. <i>ISME Journal</i> , 2011 , 5, 1262-78	11.9	131

265	pH profiles of the extremely alkaline hindguts of soil-feeding termites (Isoptera: Termitidae) determined with microelectrodes. <i>Journal of Insect Physiology</i> , 1996 , 42, 1121-1127	2.4	128
264	A H ₂ S microsensor for profiling biofilms and sediments: application in an acidic lake sediment. <i>Aquatic Microbial Ecology</i> , 1998 , 15, 201-209	1.1	126
263	Cyanobacterial ecotypes in the microbial mat community of Mushroom Spring (Yellowstone National Park, Wyoming) as species-like units linking microbial community composition, structure and function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006 , 361, 1997-2008	5.8	123
262	Reshaping of sandstone surfaces by cryptoendolithic cyanobacteria: bioalkalization causes chemical weathering in arid landscapes. <i>Geobiology</i> , 2004 , 2, 261-268	4.3	118
261	Photosynthetic performance of surface-associated algae below sea ice as measured with a pulse-amplitude-modulated (PAM) fluorometer and O ₂ microsensors. <i>Marine Ecology - Progress Series</i> , 2001 , 223, 1-14	2.6	116
260	Oxic microzones and radial oxygen loss from roots of <i>Zostera marina</i> . <i>Marine Ecology - Progress Series</i> , 2005 , 293, 49-58	2.6	108
259	Regulation of nif gene expression and the energetics of N ₂ fixation over the diel cycle in a hot spring microbial mat. <i>ISME Journal</i> , 2008 , 2, 364-78	11.9	107
258	Biomass, production and horizontal patchiness of sea ice algae in a high-Arctic fjord (Young Sound, NE Greenland). <i>Marine Ecology - Progress Series</i> , 2001 , 223, 15-26	2.6	106
257	Characterization of functional bacterial groups in a hypersaline microbial mat community (Salins-de-Giraud, Camargue, France). <i>FEMS Microbiology Ecology</i> , 2004 , 51, 55-70	4.3	104
256	Diversity of phototrophic bacteria in microbial mats from Arctic hot springs (Greenland). <i>Environmental Microbiology</i> , 2007 , 9, 26-38	5.2	103
255	Light penetration and light intensity in sandy marine sediments measured with irradiance and scalar irradiance fiber-optic microprobes. <i>Marine Ecology - Progress Series</i> , 1994 , 105, 139-148	2.6	103
254	A modular luminescence lifetime imaging system for mapping oxygen distribution in biological samples. <i>Sensors and Actuators B: Chemical</i> , 1998 , 51, 163-170	8.5	101
253	Chlorophyll d: the puzzle resolved. <i>Trends in Plant Science</i> , 2005 , 10, 355-7	13.1	101
252	Polymorphonuclear leukocytes restrict growth of <i>Pseudomonas aeruginosa</i> in the lungs of cystic fibrosis patients. <i>Infection and Immunity</i> , 2014 , 82, 4477-86	3.7	100
251	An endoevaporitic microbial mat within a gypsum crust: zonation of phototrophs, photopigments, and light penetration. <i>Marine Ecology - Progress Series</i> , 1995 , 128, 151-159	2.6	100
250	The light field of microbenthic communities: Radiance distribution and microscale optics of sandy coastal sediments. <i>Limnology and Oceanography</i> , 1994 , 39, 1368-1398	4.8	97
249	Light gradients and optical microniches in coral tissues. <i>Frontiers in Microbiology</i> , 2012 , 3, 316	5.7	91
248	Diel variations in carbon metabolism by green nonsulfur-like bacteria in alkaline siliceous hot spring microbial mats from Yellowstone National Park. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 3978-86	4.8	87

247	Cyanobacterial ecotypes in different optical microenvironments of a 68 degrees C hot spring mat community revealed by 16S-23S rRNA internal transcribed spacer region variation. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 2893-8	4.8	84
246	Microscopic examination of distribution and phenotypic properties of phylogenetically diverse Chloroflexaceae-related bacteria in hot spring microbial mats. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 4593-603	4.8	84
245	A microsensor study of light enhanced Ca ²⁺ uptake and photosynthesis in the reef-building hermatypic coral <i>Favia</i> sp.. <i>Marine Ecology - Progress Series</i> , 2000 , 194, 75-85	2.6	84
244	Linking soil O ₂ , CO ₂ , and CH ₄ concentrations in a Wetland soil: implications for CO ₂ and CH ₄ fluxes. <i>Environmental Science & Technology</i> , 2011 , 45, 3393-9	10.3	83
243	Functional and structural imaging of phototrophic microbial communities and symbioses. <i>Aquatic Microbial Ecology</i> , 2008 , 53, 99-118	1.1	83
242	Measurement of chlorophyll fluorescence within leaves using a modified PAM Fluorometer with a fiber-optic microprobe. <i>Photosynthesis Research</i> , 1996 , 47, 103-9	3.7	83
241	Temporal metatranscriptomic patterning in phototrophic Chloroflexi inhabiting a microbial mat in a geothermal spring. <i>ISME Journal</i> , 2013 , 7, 1775-89	11.9	82
240	Optical microsensors for analysis of microbial communities. <i>Methods in Enzymology</i> , 2005 , 397, 166-99	1.7	82
239	In situ methods for assessment of microorganisms and their activities. <i>Current Opinion in Microbiology</i> , 1998 , 1, 352-8	7.9	81
238	Different bacterial communities associated with the roots and bulk sediment of the seagrass <i>Zostera marina</i> . <i>FEMS Microbiology Ecology</i> , 2007 , 62, 108-17	4.3	81
237	Diversity and distribution in hypersaline microbial mats of bacteria related to <i>Chloroflexus</i> spp. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 4365-71	4.8	80
236	Niche specialization of reef-building corals in the mesophotic zone: metabolic trade-offs between divergent Symbiodinium types. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011 , 278, 1840-50	4.4	79
235	Spatial heterogeneity in active chlorophyll fluorescence and PSII activity of coral tissues. <i>Marine Biology</i> , 2002 , 141, 639-646	2.5	78
234	An in situ instrument for planar O ₂ optode measurements at benthic interfaces. <i>Limnology and Oceanography</i> , 2001 , 46, 2073-2080	4.8	78
233	Bacteria are not too small for spatial sensing of chemical gradients: an experimental evidence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 5748-53	11.5	77
232	Genomics, environmental genomics and the issue of microbial species. <i>Heredity</i> , 2008 , 100, 207-19	3.6	76
231	Diffusive boundary layers and photosynthesis of the epilithic algal community of coral reefs. <i>Marine Biology</i> , 2003 , 142, 1073-1082	2.5	75
230	Spectral light measurements in microbenthic phototrophic communities with a fiber-optic microprobe coupled to a sensitive diode array detector. <i>Limnology and Oceanography</i> , 1992 , 37, 1813-1823	4.8	75

229	Benthic diatoms of a high Arctic fjord (Young Sound, NE Greenland): importance for ecosystem primary production. <i>Marine Ecology - Progress Series</i> , 2002 , 238, 15-29	2.6	75
228	CORAL PHOTOBIOLOGY STUDIED WITH A NEW IMAGING PULSE AMPLITUDE MODULATED FLUOROMETER ¹ . <i>Journal of Phycology</i> , 2005 , 41, 335-342	3	74
227	Spatial heterogeneity of photosynthesis and the effect of temperature-induced bleaching conditions in three species of corals. <i>Marine Biology</i> , 2004 , 144, 633-640	2.5	73
226	<i>Pseudomonas aeruginosa</i> Aggregate Formation in an Alginate Bead Model System Exhibits -Like Characteristics. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	71
225	A fast-responding CO ₂ microelectrode for profiling sediments, microbial mats, and biofilms. <i>Limnology and Oceanography</i> , 1997 , 42, 1590-1600	4.8	71
224	Loss of Functional Photosystem II Reaction Centres in Zooxanthellae of Corals Exposed to Bleaching Conditions: Using Fluorescence Rise Kinetics. <i>Photosynthesis Research</i> , 2004 , 82, 59-72	3.7	69
223	Optical sensor nanoparticles in artificial sediments--a new tool to visualize O ₂ dynamics around the rhizome and roots of seagrasses. <i>Environmental Science & Technology</i> , 2015 , 49, 2286-92	10.3	68
222	Microbial mats on the Orkney Islands revisited: microenvironment and microbial community composition. <i>Microbial Ecology</i> , 2003 , 46, 371-90	4.4	68
221	<i>Candidatus Thermochlorobacter aerophilum</i> : An aerobic chlorophotoheterotrophic member of the phylum Chlorobi defined by metagenomics and metatranscriptomics. <i>ISME Journal</i> , 2012 , 6, 1869-82	11.9	66
220	Benthic microalgal production in the Arctic: applied methods and status of the current database. <i>Botanica Marina</i> , 2009 , 52,	1.8	66
219	Endolithic chlorophyll d-containing phototrophs. <i>ISME Journal</i> , 2011 , 5, 1072-6	11.9	64
218	Microbial diversity of biofilm communities in microniches associated with the didemnid ascidian <i>Lissoclinum patella</i> . <i>ISME Journal</i> , 2012 , 6, 1222-37	11.9	63
217	A microoptode array for fine-scale measurement of oxygen distribution. <i>Sensors and Actuators B: Chemical</i> , 1997 , 38, 122-129	8.5	63
216	Propagation of electromagnetic radiation in mitochondria?. <i>Journal of Theoretical Biology</i> , 2004 , 230, 261-70	2.3	63
215	Nitrous oxide production in sputum from cystic fibrosis patients with chronic <i>Pseudomonas aeruginosa</i> lung infection. <i>PLoS ONE</i> , 2014 , 9, e84353	3.7	63
214	Oxic microshield and local pH enhancement protects <i>Zostera muelleri</i> from sediment derived hydrogen sulphide. <i>New Phytologist</i> , 2015 , 205, 1264-1276	9.8	60
213	Combined imaging of bacteria and oxygen in biofilms. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 6289-95	4.8	60
212	Microsensor studies of photosynthesis and respiration in larger symbiotic foraminifera. I The physico-chemical microenvironment of <i>Marginopora vertebralis</i> , <i>Amphistegina lobifera</i> and <i>Amphisorus hemprichii</i> . <i>Marine Biology</i> , 2000 , 137, 473-486	2.5	60

211	Complete genome sequence of the cystic fibrosis pathogen <i>Achromobacter xylosoxidans</i> NH44784-1996 complies with important pathogenic phenotypes. <i>PLoS ONE</i> , 2013 , 8, e68484	3.7	59
210	Bio-optical Characteristics and the Vertical Distribution of Photosynthetic Pigments and Photosynthesis in an Artificial Cyanobacterial Mat. <i>Microbial Ecology</i> , 2000 , 40, 94-103	4.4	59
209	HETEROGENEITY OF OXYGEN PRODUCTION AND CONSUMPTION IN A PHOTOSYNTHETIC MICROBIAL MAT AS STUDIED BY PLANAR OPTODES. <i>Journal of Phycology</i> , 1999 , 35, 270-279	3	59
208	Lateral light transfer ensures efficient resource distribution in symbiont-bearing corals. <i>Journal of Experimental Biology</i> , 2014 , 217, 489-98	3	57
207	Heat budget and thermal microenvironment of shallow-water corals: Do massive corals get warmer than branching corals?. <i>Limnology and Oceanography</i> , 2008 , 53, 1548-1561	4.8	56
206	Intra-colonial variability in light acclimation of zooxanthellae in coral tissues of <i>Pocillopora damicornis</i> . <i>Marine Biology</i> , 2006 , 149, 1325-1335	2.5	55
205	APPARENT LIGHT REQUIREMENT FOR ACTIVATION OF PHOTOSYNTHESIS UPON REHYDRATION OF DESICCATED BEACHROCK MICROBIAL MATS ¹ . <i>Journal of Phycology</i> , 2002 , 38, 125-134	3	55
204	PRIMARY PRODUCTION OF CRUSTOSE CORALLINE RED ALGAE IN A HIGH ARCTIC FJORD ¹ . <i>Journal of Phycology</i> , 2002 , 38, 273-283	3	55
203	Fine-scale distribution patterns of <i>Synechococcus</i> ecological diversity in microbial mats of Mushroom Spring, Yellowstone National Park. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 7689-97	4.8	54
202	Effects of flow and colony morphology on the thermal boundary layer of corals. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 1785-95	4.1	52
201	A simple light meter for measurements of PAR (400 to 700 nm) with fiber-optic microprobes: application for P vs E0(PAR) measurements in a microbial mat. <i>Aquatic Microbial Ecology</i> , 1997 , 13, 197-207	4.7	51
200	Conspicuous veils formed by vibrioid bacteria on sulfidic marine sediment. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 6310-20	4.8	51
199	Light microclimate of endolithic phototrophs in the scleractinian corals <i>Montipora monasteriata</i> and <i>Porites cylindrica</i> . <i>Marine Ecology - Progress Series</i> , 2007 , 332, 119-128	2.6	50
198	Reinforcement of the bactericidal effect of ciprofloxacin on <i>Pseudomonas aeruginosa</i> biofilm by hyperbaric oxygen treatment. <i>International Journal of Antimicrobial Agents</i> , 2016 , 47, 163-7	14.3	49
197	Coral reef survival under accelerating ocean deoxygenation. <i>Nature Climate Change</i> , 2020 , 10, 296-307	21.4	48
196	Seagrass-Mediated Phosphorus and Iron Solubilization in Tropical Sediments. <i>Environmental Science & Technology</i> , 2017 , 51, 14155-14163	10.3	48
195	Epiphyte-cover on seagrass (<i>Zostera marina</i> L.) leaves impedes plant performance and radial O ₂ loss from the below-ground tissue. <i>Frontiers in Marine Science</i> , 2015 , 2,	4.5	48
194	Design and Application of an Optical Sensor for Simultaneous Imaging of pH and Dissolved O ₂ with Low Cross-Talk. <i>ACS Sensors</i> , 2016 , 1, 681-687	9.2	48

193	Soil heterogeneity effects on O ₂ distribution and CH ₄ emissions from wetlands: In situ and mesocosm studies with planar O ₂ optodes and membrane inlet mass spectrometry. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 2254-2265	7.5	47
192	Relative importance of H ₂ and H ₂ S as energy sources for primary production in geothermal springs. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 5802-8	4.8	47
191	The chemical microenvironment of the symbiotic planktonic foraminifer <i>Orbulina universa</i> . <i>Marine Biology Research</i> , 2005 , 1, 68-78	1	47
190	Physiological levels of nitrate support anoxic growth by denitrification of <i>Pseudomonas aeruginosa</i> at growth rates reported in cystic fibrosis lungs and sputum. <i>Frontiers in Microbiology</i> , 2014 , 5, 554	5.7	46
189	Diel metabolomics analysis of a hot spring chlorophototrophic microbial mat leads to new hypotheses of community member metabolisms. <i>Frontiers in Microbiology</i> , 2015 , 6, 209	5.7	45
188	Sediment Resuspension and Deposition on Seagrass Leaves Impedes Internal Plant Aeration and Promotes Phytotoxic HS Intrusion. <i>Frontiers in Plant Science</i> , 2017 , 8, 657	6.2	45
187	In situ dynamics of O ₂ , pH and cyanobacterial transcripts associated with CCM, photosynthesis and detoxification of ROS. <i>ISME Journal</i> , 2011 , 5, 317-28	11.9	45
186	Radiative energy budget reveals high photosynthetic efficiency in symbiont-bearing corals. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20130997	4.1	44
185	A laboratory study on O ₂ dynamics and photosynthesis in ice algal communities: quantification by microsensors, O ₂ exchange rates, ¹⁴ C incubations and a PAM fluorometer. <i>Aquatic Microbial Ecology</i> , 2002 , 27, 301-311	1.1	44
184	Ultrabright planar optodes for luminescence life-time based microscopic imaging of O ₂ dynamics in biofilms. <i>Journal of Microbiological Methods</i> , 2011 , 85, 67-74	2.8	42
183	Regulation of photosynthesis and oxygen consumption in a hypersaline cyanobacterial mat (Camargue, France) by irradiance, temperature and salinity. <i>FEMS Microbiology Ecology</i> , 2006 , 55, 195-210	4.3	42
182	IMAGING OF OXYGEN DYNAMICS WITHIN THE ENDOLITHIC ALGAL COMMUNITY OF THE MASSIVE CORAL PORITES LOBATA(1). <i>Journal of Phycology</i> , 2008 , 44, 541-50	3	41
181	Algal species and light microenvironment in a low-pH, geothermal microbial mat community. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 7164-71	4.8	41
180	SALINITY-DEPENDENT LIMITATION OF PHOTOSYNTHESIS AND OXYGEN EXCHANGE IN MICROBIAL MATS. <i>Journal of Phycology</i> , 1999 , 35, 227-238	3	41
179	Short-term temperature effects on oxygen and sulfide cycling in a hypersaline cyanobacterial mat (Solar Lake, Egypt). <i>Marine Ecology - Progress Series</i> , 2000 , 196, 87-102	2.6	41
178	Seagrass rhizosphere microenvironment alters plant-associated microbial community composition. <i>Environmental Microbiology</i> , 2018 , 20, 2854-2864	5.2	40
177	Complex pattern formation of marine gradient bacteria explained by a simple computer model. <i>FEMS Microbiology Letters</i> , 2005 , 246, 75-9	2.9	40
176	Biogeochemistry of an iron-rich hypersaline microbial mat (Camargue, France). <i>Microbial Ecology</i> , 2005 , 49, 34-49	4.4	40

175	Artificial Cyanobacterial Mats: Growth, Structure, and Vertical Zonation Patterns. <i>Microbial Ecology</i> , 2000 , 40, 85-93	4.4	40
174	Fine-scale measurement of diffusivity in a microbial mat with nuclear magnetic resonance imaging. <i>Limnology and Oceanography</i> , 2001 , 46, 248-259	4.8	40
173	The Consequences of Being in an Infectious Biofilm: Microenvironmental Conditions Governing Antibiotic Tolerance. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	39
172	Chlorophyll f-driven photosynthesis in a cavernous cyanobacterium. <i>ISME Journal</i> , 2015 , 9, 2108-11	11.9	38
171	Fabrication and test of sol-gel based planar oxygen optodes for use in aquatic sediments. <i>Marine Chemistry</i> , 2005 , 97, 262-276	3.7	38
170	Irradiance and temperature regulation of oxygenic photosynthesis and O ₂ consumption in a hypersaline cyanobacterial mat (Solar Lake, Egypt). <i>Marine Biology</i> , 2000 , 137, 71-85	2.5	38
169	Microenvironmental characteristics and physiology of biofilms in chronic infections of CF patients are strongly affected by the host immune response. <i>Apmis</i> , 2017 , 125, 276-288	3.4	37
168	IMPORTANCE OF MACRO- VERSUS MICROSTRUCTURE IN MODULATING LIGHT LEVELS INSIDE CORAL COLONIES(1). <i>Journal of Phycology</i> , 2011 , 47, 846-60	3	37
167	Rapid assessment of different oxygenic phototrophs and single-cell photosynthesis with multicolour variable chlorophyll fluorescence imaging. <i>Marine Biology</i> , 2011 , 158, 1667-1675	2.5	36
166	Temporal patterns in effective quantum yield of individual zooxanthellae expelled during bleaching. <i>Journal of Experimental Marine Biology and Ecology</i> , 2005 , 316, 17-28	2.1	36
165	Nitric oxide production by polymorphonuclear leucocytes in infected cystic fibrosis sputum consumes oxygen. <i>Clinical and Experimental Immunology</i> , 2014 , 177, 310-9	6.2	35
164	The molecular dimension of microbial species: 1. Ecological distinctions among, and homogeneity within, putative ecotypes of <i>Synechococcus</i> inhabiting the cyanobacterial mat of Mushroom Spring, Yellowstone National Park. <i>Frontiers in Microbiology</i> , 2015 , 6, 590	5.7	35
163	Aerotaxis in <i>Desulfovibrio</i> . <i>Environmental Microbiology</i> , 1999 , 1, 489-94	5.2	35
162	Spatial scale and the diversity of benthic cyanobacteria and diatoms in a salina. <i>Hydrobiologia</i> , 1999 , 401, 199-206	2.4	35
161	The in situ light microenvironment of corals. <i>Limnology and Oceanography</i> , 2014 , 59, 917-926	4.8	34
160	Nanoparticle-based measurements of pH and O ₂ dynamics in the rhizosphere of <i>Zostera marina</i> L.: effects of temperature elevation and light-dark transitions. <i>Plant, Cell and Environment</i> , 2016 , 39, 1619-30	8.4	34
159	Functionalized Bioink with Optical Sensor Nanoparticles for O ₂ Imaging in 3D-Bioprinted Constructs. <i>Advanced Functional Materials</i> , 2018 , 28, 1804411	15.6	34
158	Photobiology of endolithic microorganisms in living coral skeletons: 1. Pigmentation, spectral reflectance and variable chlorophyll fluorescence analysis of endoliths in the massive corals <i>Cyphastrea serailia</i> , <i>Porites lutea</i> and <i>Goniastrea australensis</i> . <i>Marine Biology</i> , 2007 , 152, 395-404	2.5	33

157	Light microenvironment and single-cell gradients of carbon fixation in tissues of symbiont-bearing corals. <i>ISME Journal</i> , 2016 , 10, 788-92	11.9	32
156	CaCO ₃ precipitation in multilayered cyanobacterial mats: clues to explain the alternation of micrite and sparite layers in calcareous stromatolites. <i>Life</i> , 2015 , 5, 744-69	3	32
155	Microenvironmental changes support evidence of photosynthesis and calcification inhibition in Halimeda under ocean acidification and warming. <i>Coral Reefs</i> , 2012 , 31, 1201-1213	4.2	32
154	Microenvironmental Ecology of the Chlorophyll b-Containing Symbiotic Cyanobacterium Prochloron in the Didemnid Ascidian Lissoclinum patella. <i>Frontiers in Microbiology</i> , 2012 , 3, 402	5.7	32
153	Zooxanthellae harvested by ciliates associated with brown band syndrome of corals remain photosynthetically competent. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 1968-75	4.8	32
152	Growth and chemosensory behavior of sulfate-reducing bacteria in oxygen-sulfide gradients. <i>FEMS Microbiology Ecology</i> , 2002 , 40, 47-54	4.3	32
151	Bionic 3D printed corals. <i>Nature Communications</i> , 2020 , 11, 1748	17.4	32
150	Light utilization efficiency in photosynthetic microbial mats. <i>Environmental Microbiology</i> , 2012 , 14, 982-992	3.2	31
149	A split flow chamber with artificial sediment to examine the below-ground microenvironment of aquatic macrophytes. <i>Marine Biology</i> , 2014 , 161, 2921-2930	2.5	31
148	Isolation and gene quantification of heterotrophic N ₂ -fixing bacterioplankton in the Baltic Sea. <i>Environmental Microbiology</i> , 2007 , 9, 152-64	5.2	31
147	Hyperbaric Oxygen Sensitizes Anoxic Pseudomonas aeruginosa Biofilm to Ciprofloxacin. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	29
146	Heat generation and light scattering of green fluorescent protein-like pigments in coral tissue. <i>Scientific Reports</i> , 2016 , 6, 26599	4.9	28
145	Effective light absorption and absolute electron transport rates in the coral Pocillopora damicornis. <i>Plant Physiology and Biochemistry</i> , 2014 , 83, 159-67	5.4	28
144	Beneath the surface: community assembly and functions of the coral skeleton microbiome. <i>Microbiome</i> , 2019 , 7, 159	16.6	28
143	Denitrification by cystic fibrosis pathogens - Stenotrophomonas maltophilia is dormant in sputum. <i>International Journal of Medical Microbiology</i> , 2015 , 305, 1-10	3.7	27
142	A simple optode based method for imaging O ₂ distribution and dynamics in tap water biofilms. <i>Water Research</i> , 2011 , 45, 5027-37	12.5	27
141	Conversion and conservation of light energy in a photosynthetic microbial mat ecosystem. <i>ISME Journal</i> , 2010 , 4, 440-9	11.9	27
140	Different carbon isotope fractionation patterns during the development of phototrophic freshwater and marine biofilms. <i>Biogeosciences</i> , 2007 , 4, 613-626	4.6	27

139	Regulation of Intertidal Microphytobenthos Photosynthesis Over a Diel Emersion Period Is Strongly Affected by Diatom Migration Patterns. <i>Frontiers in Microbiology</i> , 2016 , 7, 872	5.7	27
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