

Michael Khl

List of Publications by Year in Descending Order

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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 | Possible Functional Roles of Patellamides in the Ascidian- Symbiosis.. <i>Marine Drugs</i> , 2022 , 20, | 6 | 2 |
| 281 | Biophysical properties at patch scale shape the metabolism of biofilm landscapes.. <i>Npj Biofilms and Microbiomes</i> , 2022 , 8, 5 | 8.2 | 1 |
| 280 | Effects of Epiphytes on the Seagrass Phyllosphere. <i>Frontiers in Marine Science</i> , 2022 , 9, | 4.5 | 2 |
| 279 | Think outside the box: 3D bioprinting concepts for biotechnological applications - recent developments and future perspectives.. <i>Biotechnology Advances</i> , 2022 , 107930 | 17.8 | 0 |
| 278 | Metabolic Profiling of Interspecies Interactions During Sessile Bacterial Cultivation Reveals Growth and Sporulation Induction in in Response to .. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022 , 12, 805473 | 5.9 | |
| 277 | Temperature Effects on Leaf and Epiphyte Photosynthesis, Bicarbonate Use and Diel O ₂ Budgets of the Seagrass <i>Zostera marina</i> L.. <i>Frontiers in Marine Science</i> , 2022 , 9, | 4.5 | 1 |
| 276 | Widespread oxyregulation in tropical corals under hypoxia.. <i>Marine Pollution Bulletin</i> , 2022 , 179, 113722 | 6.7 | 1 |
| 275 | Nitric-oxide-driven oxygen release in anoxic. <i>IScience</i> , 2021 , 24, 103404 | 6.1 | 0 |
| 274 | Kleptoplast distribution, photosynthetic efficiency and sequestration mechanisms in intertidal benthic foraminifera. <i>ISME Journal</i> , 2021 , | 11.9 | 3 |
| 273 | Resolving Chemical Gradients Around Seagrass Roots A Review of Available Methods. <i>Frontiers in Marine Science</i> , 2021 , 8, | 4.5 | 2 |
| 272 | Frustule Photonics and Light Harvesting Strategies in Diatoms 2021 , 269-300 | | 0 |
| 271 | Hypoxia as a physiological cue and pathological stress for coral larvae. <i>Molecular Ecology</i> , 2021 , | 5.7 | 2 |
| 270 | In-Situ Metatranscriptomic Analyses Reveal the Metabolic Flexibility of the Thermophilic Anoxygenic Photosynthetic Bacterium in a Hot Spring Cyanobacteria-Dominated Microbial Mat. <i>Microorganisms</i> , 2021 , 9, | 4.9 | 3 |
| 269 | Divergent expression of hypoxia response systems under deoxygenation in reef-forming corals aligns with bleaching susceptibility. <i>Global Change Biology</i> , 2021 , 27, 312-326 | 11.4 | 14 |
| 268 | Hyperspectral Luminescence Imaging in Combination with Signal Deconvolution Enables Reliable Multi-Indicator-Based Chemical Sensing. <i>ACS Sensors</i> , 2021 , 6, 183-191 | 9.2 | 6 |
| 267 | Morphogenesis and oxygen dynamics in phototrophic biofilms growing across a gradient of hydraulic conditions. <i>IScience</i> , 2021 , 24, 102067 | 6.1 | 3 |
| 266 | Multiphysics modelling of photon, mass and heat transfer in coral microenvironments. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20210532 | 4.1 | 2 |

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|-----|--|------|----|
| 265 | Photosynthesis from stolen chloroplasts can support sea slug reproductive fitness. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20211779 | 4.4 | 4 |
| 264 | Vertical Migration Optimizes Photosynthetic Efficiency of Motile Cyanobacteria in a Coastal Microbial Mat. <i>Frontiers in Marine Science</i> , 2020 , 7, | 4.5 | 7 |
| 263 | Coral reef survival under accelerating ocean deoxygenation. <i>Nature Climate Change</i> , 2020 , 10, 296-307 | 21.4 | 48 |
| 262 | Synoptic Spatio-Temporal Variability of the Photosynthetic Productivity of Microphytobenthos and Phytoplankton in a Tidal Estuary. <i>Frontiers in Marine Science</i> , 2020 , 7, | 4.5 | 10 |
| 261 | Effect of temperature and feeding on carbon budgets and O ₂ dynamics in <i>Pocillopora damicornis</i> . <i>Marine Ecology - Progress Series</i> , 2020 , 652, 49-62 | 2.6 | 4 |
| 260 | Substantial near-infrared radiation-driven photosynthesis of chlorophyll -containing cyanobacteria in a natural habitat. <i>ELife</i> , 2020 , 9, | 8.9 | 14 |
| 259 | Amoebocytes facilitate efficient carbon and nitrogen assimilation in the -Symbiodiniaceae symbiosis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20202393 | 4.4 | 2 |
| 258 | Imaging O dynamics and microenvironments in the seagrass leaf phyllosphere with magnetic optical sensor nanoparticles. <i>Plant Journal</i> , 2020 , 104, 1504-1519 | 6.9 | 10 |
| 257 | Fungi and viruses as important players in microbial mats. <i>FEMS Microbiology Ecology</i> , 2020 , 96, | 4.3 | 2 |
| 256 | Functional kleptoplasts intermediate incorporation of carbon and nitrogen in cells of the <i>Sacoglossa</i> sea slug <i>Elysia viridis</i> . <i>Scientific Reports</i> , 2020 , 10, 10548 | 4.9 | 7 |
| 255 | Flow and epiphyte growth effects on the thermal, optical and chemical microenvironment in the leaf phyllosphere of seagrass (). <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200485 | 4.1 | 7 |
| 254 | PhenoChip: A single-cell phenomic platform for high-throughput photophysiological analyses of microalgae. <i>Science Advances</i> , 2020 , 6, | 14.3 | 15 |
| 253 | Evaluation of Ebselen-azadioxatriangulenium as redox-sensitive fluorescent intracellular probe and as indicator within a planar redox optode. <i>Dyes and Pigments</i> , 2020 , 173, 107866 | 4.6 | 5 |
| 252 | Life in the dark: far-red absorbing cyanobacteria extend photic zones deep into terrestrial caves. <i>Environmental Microbiology</i> , 2020 , 22, 952-963 | 5.2 | 16 |
| 251 | Strong leaf surface basification and CO limitation of seagrass induced by epiphytic biofilm microenvironments. <i>Plant, Cell and Environment</i> , 2020 , 43, 174-187 | 8.4 | 14 |
| 250 | Bionic 3D printed corals. <i>Nature Communications</i> , 2020 , 11, 1748 | 17.4 | 32 |
| 249 | Optical Properties of Living Corals Determined With Diffuse Reflectance Spectroscopy. <i>Frontiers in Marine Science</i> , 2019 , 6, | 4.5 | 3 |
| 248 | Optical Properties of Corals Distort Variable Chlorophyll Fluorescence Measurements. <i>Plant Physiology</i> , 2019 , 179, 1608-1619 | 6.6 | 18 |

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|-----|---|------|----|
| 247 | Nanoparticle- and microparticle-based luminescence imaging of chemical species and temperature in aquatic systems: a review. <i>Mikrochimica Acta</i> , 2019 , 186, 126 | 5.8 | 22 |
| 246 | Differences in the optical properties of valve and girdle band in a centric diatom. <i>Interface Focus</i> , 2019 , 9, 20180031 | 3.9 | 6 |
| 245 | Radiative Energy Budgets in a Microbial Mat Under Different Irradiance and Tidal Conditions. <i>Microbial Ecology</i> , 2019 , 77, 852-865 | 4.4 | 3 |
| 244 | Microscale light management and inherent optical properties of intact corals studied with optical coherence tomography. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20180567 | 4.1 | 6 |
| 243 | Elevated CO ₂ Leads to Enhanced Photosynthesis but Decreased Growth in Early Life Stages of Reef Building Coralline Algae. <i>Frontiers in Marine Science</i> , 2019 , 5, | 4.5 | 12 |
| 242 | Measuring light scattering and absorption in corals with Inverse Spectroscopic Optical Coherence Tomography (ISOCT): a new tool for non-invasive monitoring. <i>Scientific Reports</i> , 2019 , 9, 14148 | 4.9 | 4 |
| 241 | Vertical Distribution and Diversity of Phototrophic Bacteria within a Hot Spring Microbial Mat (Nakabusa Hot Springs, Japan). <i>Microbes and Environments</i> , 2019 , 34, 374-387 | 2.6 | 8 |
| 240 | Bio-optical properties and radiative energy budgets in fed and unfed scleractinian corals (<i>Pocillopora</i> sp.) during thermal bleaching. <i>Marine Ecology - Progress Series</i> , 2019 , 629, 1-17 | 2.6 | 3 |
| 239 | Luminescence Lifetime Imaging of O ₂ with a Frequency-Domain-Based Camera System. <i>Journal of Visualized Experiments</i> , 2019 , | 1.6 | 2 |
| 238 | Luminescence Lifetime Imaging of Chemical Sensors-A Comparison between Time-Domain and Frequency-Domain Based Camera Systems. <i>Analytical Chemistry</i> , 2019 , 91, 3233-3238 | 7.8 | 19 |
| 237 | Beneath the surface: community assembly and functions of the coral skeleton microbiome. <i>Microbiome</i> , 2019 , 7, 159 | 16.6 | 28 |
| 236 | 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, | 4.3 | 8 |
| 235 | Tools for studying growth patterns and chemical dynamics of aggregated exposed to different electron acceptors in an alginate bead model. <i>Npj Biofilms and Microbiomes</i> , 2018 , 4, 3 | 8.2 | 19 |
| 234 | Contrasting impacts of light reduction on sediment biogeochemistry in deep- and shallow-water tropical seagrass assemblages (Green Island, Great Barrier Reef). <i>Marine Environmental Research</i> , 2018 , 136, 38-47 | 3.3 | 9 |
| 233 | Seagrass rhizosphere microenvironment alters plant-associated microbial community composition. <i>Environmental Microbiology</i> , 2018 , 20, 2854-2864 | 5.2 | 40 |
| 232 | Structure-based optics of centric diatom frustules: modulation of the in vivo light field for efficient diatom photosynthesis. <i>New Phytologist</i> , 2018 , 219, 122-134 | 9.8 | 21 |
| 231 | Rhizome, Root/Sediment Interactions, Aerenchyma and Internal Pressure Changes in Seagrasses 2018 , 393-418 | | 9 |
| 230 | -Induced Formation of Microbialites: Mechanistic Insights From Experiments and the Prospect of Its Occurrence in Nature. <i>Frontiers in Microbiology</i> , 2018 , 9, 998 | 5.7 | 3 |

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|-----|--|------|----|
| 229 | Community Synergy between Bacterial Soil Isolates Can Be Facilitated by pH Stabilization of the Environment. <i>Applied and Environmental Microbiology</i> , 2018 , 84, | 4.8 | 8 |
| 228 | Extracellular hydrogen peroxide measurements using a flow injection system in combination with microdialysis probes - Potential and challenges. <i>Free Radical Biology and Medicine</i> , 2018 , 128, 111-123 | 7.8 | 6 |
| 227 | Modulation of the light field related to valve optical properties of raphid diatoms: implications for niche differentiation in the microphytobenthos. <i>Marine Ecology - Progress Series</i> , 2018 , 588, 29-42 | 2.6 | 13 |
| 226 | CHAPTER 7:Optical O2 Sensing in Aquatic Systems and Organisms. <i>RSC Detection Science</i> , 2018 , 145-174 | 0.4 | 4 |
| 225 | Flow Injection Analysis with Microdialysis Probes Enable Minimally Invasive and Dynamic H2O2 Measurements. <i>Proceedings (mdpi)</i> , 2018 , 2, 992 | 0.3 | |
| 224 | Functionalized Bioink with Optical Sensor Nanoparticles for O2 Imaging in 3D-Bioprinted Constructs. <i>Advanced Functional Materials</i> , 2018 , 28, 1804411 | 15.6 | 34 |
| 223 | imaging of coral tissue and skeleton with optical coherence tomography. <i>Journal of the Royal Society Interface</i> , 2017 , 14, | 4.1 | 18 |
| 222 | <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 |
| 221 | 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 |
| 220 | Diffusion or advection? Mass transfer and complex boundary layer landscapes of the brown alga. <i>Journal of the Royal Society Interface</i> , 2017 , 14, | 4.1 | 17 |
| 219 | Phototrophic microbes form endolithic biofilms in ikaite tufa columns (SW Greenland). <i>Environmental Microbiology</i> , 2017 , 19, 4754-4770 | 5.2 | 5 |
| 218 | In situ metabolomic- and transcriptomic-profiling of the host-associated cyanobacteria <i>Prochloron</i> and <i>Acaryochloris marina</i> . <i>ISME Journal</i> , 2017 , | 11.9 | 6 |
| 217 | Light Sheet Microscopy Imaging of Light Absorption and Photosynthesis Distribution in Plant Tissue. <i>Plant Physiology</i> , 2017 , 175, 721-733 | 6.6 | 12 |
| 216 | Kleptoplast photosynthesis is nutritionally relevant in the sea slug <i>Elysia viridis</i> . <i>Scientific Reports</i> , 2017 , 7, 7714 | 4.9 | 21 |
| 215 | Hyperbaric Oxygen Sensitizes Anoxic <i>Pseudomonas aeruginosa</i> Biofilm to Ciprofloxacin. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61, | 5.9 | 29 |
| 214 | Seagrass-Mediated Phosphorus and Iron Solubilization in Tropical Sediments. <i>Environmental Science & Technology</i> , 2017 , 51, 14155-14163 | 10.3 | 48 |
| 213 | 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 |
| 212 | 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 |

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| 211 | Possibilities and Challenges for Quantitative Optical Sensing of Hydrogen Peroxide. <i>Chemosensors</i> , 2017 , 5, 28 | 4 | 21 |
| 210 | Microscale Measurements of Light and Photosynthesis during Coral Bleaching: Evidence for the Optical Feedback Loop?. <i>Frontiers in Microbiology</i> , 2017 , 8, 59 | 5-7 | 26 |
| 209 | Radiative Energy Budgets of Phototrophic Surface-Associated Microbial Communities and their Photosynthetic Efficiency Under Diffuse and Collimated Light. <i>Frontiers in Microbiology</i> , 2017 , 8, 452 | 5-7 | 8 |
| 208 | In situ oxygen dynamics and carbon turnover in an intertidal sediment (Skallingen, Denmark). <i>Marine Ecology - Progress Series</i> , 2017 , 566, 49-65 | 2.6 | 6 |
| 207 | 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 |
| 206 | Chlorophyll F distribution and dynamics in cyanobacterial beachrock biofilms. <i>Journal of Phycology</i> , 2016 , 52, 990-996 | 3 | 21 |
| 205 | Heat generation and light scattering of green fluorescent protein-like pigments in coral tissue. <i>Scientific Reports</i> , 2016 , 6, 26599 | 4.9 | 28 |
| 204 | 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 |
| 203 | Light and O ₂ microenvironments in two contrasting diatom-dominated coastal sediments. <i>Marine Ecology - Progress Series</i> , 2016 , 545, 35-47 | 2.6 | 19 |
| 202 | Photo-Protection in the Centric Diatom <i>Coscinodiscus granii</i> is Not Controlled by Chloroplast High-Light Avoidance Movement. <i>Frontiers in Marine Science</i> , 2016 , 2, | 4.5 | 10 |
| 201 | Flow and Coral Morphology Control Coral Surface pH: Implications for the Effects of Ocean Acidification. <i>Frontiers in Marine Science</i> , 2016 , 3, | 4.5 | 19 |
| 200 | Photosynthetic Acclimation of Symbiodinium in hospite Depends on Vertical Position in the Tissue of the Scleractinian Coral <i>Montastrea curta</i> . <i>Frontiers in Microbiology</i> , 2016 , 7, 230 | 5-7 | 21 |
| 199 | In situ Dynamics of O ₂ , pH, Light, and Photosynthesis in Ikaite Tufa Columns (Ikka Fjord, Greenland)-A Unique Microbial Habitat. <i>Frontiers in Microbiology</i> , 2016 , 7, 722 | 5-7 | 7 |
| 198 | Photoregulation in a Kleptochloroplastidic Dinoflagellate, <i>Dinophysis acuta</i> . <i>Frontiers in Microbiology</i> , 2016 , 7, 785 | 5-7 | 22 |
| 197 | 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 |
| 196 | Monte Carlo Modeling of Photon Propagation Reveals Highly Scattering Coral Tissue. <i>Frontiers in Plant Science</i> , 2016 , 7, 1404 | 6.2 | 19 |
| 195 | Fiber-Optic Probes for Small-Scale Measurements of Scalar Irradiance. <i>Photochemistry and Photobiology</i> , 2016 , 92, 331-342 | 3.6 | 20 |
| 194 | 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 |

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| 193 | In-vivo imaging of O ₂ dynamics on coral surfaces spray-painted with sensor nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2016 , 237, 1095-1101 | 8.5 | 17 |
| 192 | In Situ Hydrogen Dynamics in a Hot Spring Microbial Mat during a Diel Cycle. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 4209-4217 | 4.8 | 13 |
| 191 | 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 |
| 190 | Development of a rechargeable optical hydrogen peroxide sensor - sensor design and biological application. <i>Analyst, The</i> , 2016 , 141, 4332-9 | 5 | 20 |
| 189 | A simple laminated paper-based sensor for temperature sensing and imaging. <i>Sensors and Actuators B: Chemical</i> , 2015 , 210, 124-128 | 8.5 | 22 |
| 188 | Chlorophyll F-driven photosynthesis in a cavernous cyanobacterium. <i>ISME Journal</i> , 2015 , 9, 2108-11 | 11.9 | 38 |
| 187 | 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 |
| 186 | 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 |
| 185 | Denitrification by cystic fibrosis pathogens - <i>Stenotrophomonas maltophilia</i> is dormant in sputum. <i>International Journal of Medical Microbiology</i> , 2015 , 305, 1-10 | 3.7 | 27 |
| 184 | Microenvironment and phylogenetic diversity of <i>Prochloron</i> inhabiting the surface of crustose didemnid ascidians. <i>Environmental Microbiology</i> , 2015 , 17, 4121-32 | 5.2 | 5 |
| 183 | Pronounced gradients of light, photosynthesis and O ₂ consumption in the tissue of the brown alga <i>Fucus serratus</i> . <i>New Phytologist</i> , 2015 , 207, 559-69 | 9.8 | 11 |
| 182 | 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 |
| 181 | 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 |
| 180 | Microsensor measurements of hydrogen gas dynamics in cyanobacterial microbial mats. <i>Frontiers in Microbiology</i> , 2015 , 6, 726 | 5.7 | 22 |
| 179 | Methods to Assess High-Resolution Subsurface Gas Concentrations and Gas Fluxes in Wetland Ecosystems. <i>Soil Science Society of America Book Series</i> , 2015 , 949-970 | | 1 |
| 178 | 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 |
| 177 | Etching of multimode optical glass fibers: A new method for shaping the measuring tip and immobilization of indicator dyes in recessed fiber-optic microprobes. <i>Sensors and Actuators B: Chemical</i> , 2015 , 211, 462-468 | 8.5 | 7 |
| 176 | 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 |

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| 175 | Hot moments of N ₂ O transformation and emission in tropical soils from the Pantanal and the Amazon (Brazil). <i>Soil Biology and Biochemistry</i> , 2014 , 75, 26-36 | 7.5 | 15 |
| 174 | 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 |
| 173 | Rapid TaqMan-based quantification of chlorophyll d-containing cyanobacteria in the genus <i>Acaryochloris</i> . <i>Applied and Environmental Microbiology</i> , 2014 , 80, 3244-9 | 4.8 | 5 |
| 172 | Ocean acidification and warming alter photosynthesis and calcification of the symbiont-bearing foraminifera <i>Marginopora vertebralis</i> . <i>Marine Biology</i> , 2014 , 161, 2143-2154 | 2.5 | 20 |
| 171 | Desiccation stress in two intertidal beachrock biofilms. <i>Marine Biology</i> , 2014 , 161, 1765-1773 | 2.5 | 3 |
| 170 | Effect of red light on the development and quality of mammalian embryos. <i>Journal of Assisted Reproduction and Genetics</i> , 2014 , 31, 795-801 | 3.4 | 22 |
| 169 | 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 |
| 168 | The in situ light microenvironment of corals. <i>Limnology and Oceanography</i> , 2014 , 59, 917-926 | 4.8 | 34 |
| 167 | Spectral effects on Symbiodinium photobiology studied with a programmable light engine. <i>PLoS ONE</i> , 2014 , 9, e112809 | 3.7 | 19 |
| 166 | Spatial patterns and links between microbial community composition and function in cyanobacterial mats. <i>Frontiers in Microbiology</i> , 2014 , 5, 406 | 5.7 | 8 |
| 165 | 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 |
| 164 | Effective light absorption and absolute electron transport rates in the coral <i>Pocillopora damicornis</i> . <i>Plant Physiology and Biochemistry</i> , 2014 , 83, 159-67 | 5.4 | 28 |
| 163 | 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 |
| 162 | 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 |
| 161 | Lateral light transfer ensures efficient resource distribution in symbiont-bearing corals. <i>Journal of Experimental Biology</i> , 2014 , 217, 489-98 | 3 | 57 |
| 160 | Direct and diffuse light propagation through coral tissue 2014 , | | 1 |
| 159 | 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 |
| 158 | Light respiratory processes and gross photosynthesis in two scleractinian corals. <i>PLoS ONE</i> , 2014 , 9, e110814 | 3.1 | 19 |

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|-----|---|------|-----|
| 157 | The in vivo biofilm. <i>Trends in Microbiology</i> , 2013 , 21, 466-74 | 12.4 | 435 |
| 156 | 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 |
| 155 | Newly Isolated Chl d-Containing Cyanobacteria. <i>Advanced Topics in Science and Technology in China</i> , 2013 , 686-690 | 0.2 | 5 |
| 154 | An optode sensor array for long-term in situ oxygen measurements in soil and sediment. <i>Journal of Environmental Quality</i> , 2013 , 42, 1267-73 | 3.4 | 18 |
| 153 | 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 |
| 152 | Reactive oxygen production induced by near-infrared radiation in three strains of the Chl d-containing cyanobacterium <i>Acaryochloris marina</i> . <i>F1000Research</i> , 2013 , 2, 44 | 3.6 | 5 |
| 151 | Reactive oxygen production induced by near-infrared radiation in three strains of the Chl d-containing cyanobacterium <i>Acaryochloris marina</i> . <i>F1000Research</i> , 2013 , 2, 44 | 3.6 | 9 |
| 150 | Quantitative measurement and visualization of biofilm O ₂ consumption rates in membrane filtration systems. <i>Journal of Membrane Science</i> , 2012 , 392-393, 66-75 | 9.6 | 21 |
| 149 | Light utilization efficiency in photosynthetic microbial mats. <i>Environmental Microbiology</i> , 2012 , 14, 982-992 | 3.2 | 31 |
| 148 | In situ thermal dynamics of shallow water corals is affected by tidal patterns and irradiance. <i>Marine Biology</i> , 2012 , 159, 1773-1782 | 2.5 | 17 |
| 147 | Highly photostable near-infrared fluorescent pH indicators and sensors based on BF ₂ -chelated tetraarylazadipyromethene dyes. <i>Analytical Chemistry</i> , 2012 , 84, 6723-30 | 7.8 | 145 |
| 146 | A Novel Epiphytic Chlorophyll d-containing Cyanobacterium Isolated from a Mangrove-associated Red Alga. <i>Journal of Phycology</i> , 2012 , 48, 1320-7 | 3 | 25 |
| 145 | Thermal effects of tissue optics in symbiont-bearing reef-building corals. <i>Limnology and Oceanography</i> , 2012 , 57, 1816-1825 | 4.8 | 10 |
| 144 | <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 |
| 143 | Microenvironmental changes support evidence of photosynthesis and calcification inhibition in <i>Halimeda</i> under ocean acidification and warming. <i>Coral Reefs</i> , 2012 , 31, 1201-1213 | 4.2 | 32 |
| 142 | The potent respiratory system of <i>Osedax mucofloris</i> (Siboglinidae, Annelida)--a prerequisite for the origin of bone-eating <i>Osedax</i> ?. <i>PLoS ONE</i> , 2012 , 7, e35975 | 3.7 | 16 |
| 141 | Light gradients and optical microniches in coral tissues. <i>Frontiers in Microbiology</i> , 2012 , 3, 316 | 5.7 | 91 |
| 140 | Imaging of surface O ₂ dynamics in corals with magnetic micro optode particles. <i>Marine Biology</i> , 2012 , 159, 1621-1631 | 2.5 | 20 |

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|-----|---|------|-----|
| 139 | Extreme emission of n(2)o from tropical wetland soil (pantanal, South america). <i>Frontiers in Microbiology</i> , 2012 , 3, 433 | 5.7 | 21 |
| 138 | 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 |
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