

Daniel Wangpraseurt

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,318
citations

361413

20
h-index

395702

33
g-index

50
all docs

50
docs citations

50
times ranked

1179
citing authors

#	ARTICLE	IF	CITATIONS
1	Light gradients and optical microniches in coral tissues. <i>Frontiers in Microbiology</i> , 2012, 3, 316.	3.5	147
2	Lateral light transfer ensures efficient resource distribution in symbiont-bearing corals. <i>Journal of Experimental Biology</i> , 2014, 217, 489-498.	1.7	88
3	Bionic 3D printed corals. <i>Nature Communications</i> , 2020, 11, 1748.	12.8	78
4	Radiative energy budget reveals high photosynthetic efficiency in symbiont-bearing corals. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130997.	3.4	77
5	The in situ light microenvironment of corals. <i>Limnology and Oceanography</i> , 2014, 59, 917-926.	3.1	70
6	In vivo Microscale Measurements of Light and Photosynthesis during Coral Bleaching: Evidence for the Optical Feedback Loop?. <i>Frontiers in Microbiology</i> , 2017, 8, 59.	3.5	64
7	In Situ Oxygen Dynamics in Coral-Algal Interactions. <i>PLoS ONE</i> , 2012, 7, e31192.	2.5	63
8	Heat generation and light scattering of green fluorescent protein-like pigments in coral tissue. <i>Scientific Reports</i> , 2016, 6, 26599.	3.3	53
9	Light microenvironment and single-cell gradients of carbon fixation in tissues of symbiont-bearing corals. <i>ISME Journal</i> , 2016, 10, 788-792.	9.8	51
10	<i>In vivo</i> imaging of coral tissue and skeleton with optical coherence tomography. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20161003.	3.4	48
11	Monte Carlo Modeling of Photon Propagation Reveals Highly Scattering Coral Tissue. <i>Frontiers in Plant Science</i> , 2016, 7, 1404.	3.6	42
12	Structure-based optics of centric diatom frustules: modulation of the <i>in vivo</i> light field for efficient diatom photosynthesis. <i>New Phytologist</i> , 2018, 219, 122-134.	7.3	41
13	Niche partitioning of a pathogenic microbiome driven by chemical gradients. <i>Science Advances</i> , 2018, 4, eaau1908.	10.3	40
14	Effective light absorption and absolute electron transport rates in the coral <i>Pocillopora damicornis</i> . <i>Plant Physiology and Biochemistry</i> , 2014, 83, 159-167.	5.8	37
15	Tools for studying growth patterns and chemical dynamics of aggregated <i>Pseudomonas aeruginosa</i> exposed to different electron acceptors in an alginate bead model. <i>Npj Biofilms and Microbiomes</i> , 2018, 4, 3.	6.4	37
16	Flow and Coral Morphology Control Coral Surface pH: Implications for the Effects of Ocean Acidification. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	33
17	Light Respiratory Processes and Gross Photosynthesis in Two Scleractinian Corals. <i>PLoS ONE</i> , 2014, 9, e110814.	2.5	31
18	Cytokleptly in the plankton: A host strategy to optimize the bioenergetic machinery of endosymbiotic algae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	27

#	ARTICLE	IF	CITATIONS
19	Biomimetic 3D living materials powered by microorganisms. Trends in Biotechnology, 2022, 40, 843-857.	9.3	27
20	Spectral Effects on Symbiodinium Photobiology Studied with a Programmable Light Engine. PLoS ONE, 2014, 9, e112809.	2.5	24
21	Optical Properties of Corals Distort Variable Chlorophyll Fluorescence Measurements. Plant Physiology, 2019, 179, 1608-1619.	4.8	24
22	Microscale light management and inherent optical properties of intact corals studied with optical coherence tomography. Journal of the Royal Society Interface, 2019, 16, 20180567.	3.4	21
23	Elevated CO2 Leads to Enhanced Photosynthesis but Decreased Growth in Early Life Stages of Reef Building Coralline Algae. Frontiers in Marine Science, 2019, 5, .	2.5	20
24	Synthetic algal-bacteria consortia for space-efficient microalgal growth in a simple hydrogel system. Journal of Applied Phycology, 2021, 33, 2805-2815.	2.8	20
25	Correlation of bio-optical properties with photosynthetic pigment and microorganism distribution in microbial mats from Hamelin Pool, Australia. FEMS Microbiology Ecology, 2019, 95, .	2.7	18
26	Ecology and management of the invasive lionfish <i>Pterois volitans/miles</i> complex (Perciformes: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	0.4	15
27	Efficient light harvesting of mesophotic corals is facilitated by coral optical traits. Functional Ecology, 2022, 36, 406-418.	3.6	15
28	Bioprinted Living Coral Microenvironments Mimicking Coral-Algal Symbiosis. Advanced Functional Materials, 2022, 32, .	14.9	14
29	Measuring light scattering and absorption in corals with Inverse Spectroscopic Optical Coherence Tomography (ISOCT): a new tool for non-invasive monitoring. Scientific Reports, 2019, 9, 14148.	3.3	13
30	Photosynthesis and Bio-Optical Properties of Fluorescent Mesophotic Corals. Frontiers in Marine Science, 2021, 8, .	2.5	12
31	Bio-optical properties and radiative energy budgets in fed and unfed scleractinian corals (Pocillopora) Tj ETQq1 1 0.784314 rgBT /Ove	1.9	10
32	Effect of temperature and feeding on carbon budgets and O2 dynamics in Pocillopora damicornis. Marine Ecology - Progress Series, 2020, 652, 49-62.	1.9	10
33	Symbiodinium-Induced Formation of Microbialites: Mechanistic Insights From in Vitro Experiments and the Prospect of Its Occurrence in Nature. Frontiers in Microbiology, 2018, 9, 998.	3.5	9
34	Optical Properties of Living Corals Determined With Diffuse Reflectance Spectroscopy. Frontiers in Marine Science, 2019, 6, .	2.5	7
35	Microenvironment and phylogenetic diversity of <i>Chloronchus</i> inhabiting the surface of crustose didemnid ascidians. Environmental Microbiology, 2015, 17, 4121-4132.	3.8	5
36	Editorial: Optics and Ecophysiology of Coral Reef Organisms. Frontiers in Marine Science, 2019, 6, .	2.5	2

#	ARTICLE	IF	CITATIONS
37	Light-Harvesting in Mesophotic Corals is Powered by a Spatially Efficient Photosymbiotic System between Coral Host and Microalgae. SSRN Electronic Journal, 0, , .	0.4	2
38	Direct and diffuse light propagation through coral tissue. Proceedings of SPIE, 2014, , .	0.8	1