Tali Treibitz

List of Publications by Year in descending order

44 papers	3,296 citations	471061 17 h-index	610482 24 g-index
45 all docs	45 docs citations	45 times ranked	2719 citing authors

#	Article	IF	Citations
1	Emerging 3D technologies for future reformation of coral reefs: Enhancing biodiversity using biomimetic structures based on designs by nature. Science of the Total Environment, 2022, 830, 154749.	3.9	17
2	On the Adaptation of an AUV into a Dedicated Platform for Close Range Imaging Survey Missions. Journal of Marine Science and Engineering, 2022, 10, 974.	1.2	9
3	Repeatable Semantic Reef-Mapping through Photogrammetry and Label-Augmentation. Remote Sensing, 2021, 13, 659.	1.8	22
4	Needs and Gaps in Optical Underwater Technologies and Methods for the Investigation of Marine Animal Forest 3D-Structural Complexity. Frontiers in Marine Science, 2021, 8, .	1.2	24
5	The Coral Reef Sentinels Program: A Mars Shot for Blue Planetary Health. Marine Technology Society Journal, 2021, 55, 118-119.	0.3	0
6	Descattering. , 2021, , 295-298.		0
7	Single Image Dehazing Using Haze-Lines. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 720-734.	9.7	141
8	Underwater Single Image Color Restoration Using Haze-Lines and a New Quantitative Dataset. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 43, 1-1.	9.7	151
9	Descattering. , 2020, , 1-4.		0
10	CoralSeg: Learning coral segmentation from sparse annotations. Journal of Field Robotics, 2019, 36, 1456-1477.	3.2	30
11	Flare in Interference-Based Hyperspectral Cameras. , 2019, , .		3
12	Optical wide-field tomography of sediment resuspension. Optics Express, 2019, 27, A766.	1.7	4
13	Automated Analysis of Marine Video with Limited Data. , 2018, , .		19
14	A Revised Underwater Image Formation Model. , 2018, , .		159
15	Vision-aided Speed Modulation System to Enhance Seaworthiness of Autonomous Planing Crafts. , 2018, , .		3
16	Caribbean massive corals not recovering from repeated thermal stress events during 2005â€“2013. Ecology and Evolution, 2017, 7, 1339-1353.	0.8	38
17	Photometric Stereo in a Scattering Medium. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1880-1891.	9.7	26
18	Air-light estimation using haze-lines. , 2017, , .		107

#	Article	IF	Citations
19	In situ target-less calibration of turbid media. , 2017, , .		9
20	What is the Space of Attenuation Coefficients in Underwater Computer Vision?. , 2017, , .		88
21	Coral-Segmentation: Training Dense Labeling Models with Sparse Ground Truth. , 2017, , .		20
22	Optical Imaging in the Ocean. , 2017, , .		0
23	In situ Analysis of Coral Recruits Using Fluorescence Imaging. Frontiers in Marine Science, 2017, 4, .	1.2	17
24	An Underwater Microscope for In Situ Imaging of Seafloor Organism. , 2017, , .		3
25	Non-local Image Dehazing. , 2016, , .		904
26	Improving Automated Annotation of Benthic Survey Images Using Wide-band Fluorescence. Scientific Reports, 2016, 6, 23166.	1.6	38
27	Theme section on mesophotic coral ecosystems: advances in knowledge and future perspectives. Coral Reefs, 2016, 35, 1-9.	0.9	162
28	Underwater microscopy for in situ studies of benthic ecosystems. Nature Communications, 2016, 7, 12093.	5.8	51
29	Photometric Stereo in a Scattering Medium. , 2015, , .		40
30	Spectral Diversity and Regulation of Coral Fluorescence in a Mesophotic Reef Habitat in the Red Sea. PLoS ONE, 2015, 10, e0128697.	1.1	67
31	Wide Field-of-View Fluorescence Imaging of Coral Reefs. Scientific Reports, 2015, 5, 7694.	1.6	34
32	Methods and measurement variance for field estimations of coral colony planar area using underwater photographs and semi-automated image segmentation. Environmental Monitoring and Assessment, 2015, 187, 496.	1.3	12
33	Towards Automated Annotation of Benthic Survey Images: Variability of Human Experts and Operational Modes of Automation. PLoS ONE, 2015, 10, e0130312.	1.1	250
34	Use of commercial off-the-shelf digital cameras for scientific data acquisition and scene-specific color calibration. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 312.	0.8	82
35	Descattering. , 2014, , 186-189.		0
36	Resolution loss without imaging blur. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1516.	0.8	11

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37	Turbid Scene Enhancement Using Multi-Directional Illumination Fusion. IEEE Transactions on Image Processing, 2012, 21, 4662-4667.	6.0	59
38	Flat Refractive Geometry. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 51-65.	9.7	160
39	Pose, illumination and expression invariant pairwise face-similarity measure via Doppelgänger list comparison. , 2011, , .		43
40	Polarization: Beneficial for visibility enhancement?. , 2009, , .		45
41	Recovery limits in pointwise degradation. , 2009, , .		23
42	Active Polarization Descattering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 385-399.	9.7	331
43	Polarization: Beneficial for visibility enhancement?. , 2009, , .		9
44	Flat refractive geometry. , 2008, , .		64