

# Tali Treibitz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3869567/publications.pdf>

Version: 2024-02-01

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  | Non-local Image Dehazing. , 2016, , .   |     | 904       |
| 2  | Active Polarization Descattering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 385-399.  | 9.7 | 331       |
| 3  | Towards Automated Annotation of Benthic Survey Images: Variability of Human Experts and Operational Modes of Automation. PLoS ONE, 2015, 10, e0130312.  | 1.1 | 250       |
| 4  | Theme section on mesophotic coral ecosystems: advances in knowledge and future perspectives. Coral Reefs, 2016, 35, 1-9.  | 0.9 | 162       |
| 5  | Flat Refractive Geometry. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 51-65.  | 9.7 | 160       |
| 6  | A Revised Underwater Image Formation Model. , 2018, , .   |     | 159       |
| 7  | 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       |
| 8  | Single Image Dehazing Using Haze-Lines. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 720-734.  | 9.7 | 141       |
| 9  | Air-light estimation using haze-lines. , 2017, , .  |     | 107       |
| 10 | What is the Space of Attenuation Coefficients in Underwater Computer Vision?. , 2017, , .   |     | 88        |
| 11 | 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        |
| 12 | Spectral Diversity and Regulation of Coral Fluorescence in a Mesophotic Reef Habitat in the Red Sea. PLoS ONE, 2015, 10, e0128697.  | 1.1 | 67        |
| 13 | Flat refractive geometry. , 2008, , .   |     | 64        |
| 14 | Turbid Scene Enhancement Using Multi-Directional Illumination Fusion. IEEE Transactions on Image Processing, 2012, 21, 4662-4667.   | 6.0 | 59        |
| 15 | Underwater microscopy for in situ studies of benthic ecosystems. Nature Communications, 2016, 7, 12093.   | 5.8 | 51        |
| 16 | Polarization: Beneficial for visibility enhancement?. , 2009, , .   |     | 45        |
| 17 | Pose, illumination and expression invariant pairwise face-similarity measure via Doppelg&#x00E4;nger list comparison. , 2011, , .   |     | 43        |
| 18 | Photometric Stereo in a Scattering Medium. , 2015, , .  |     | 40        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Improving Automated Annotation of Benthic Survey Images Using Wide-band Fluorescence. Scientific Reports, 2016, 6, 23166.   | 1.6 | 38        |
| 20 | Caribbean massive corals not recovering from repeated thermal stress events during 2005–2013. Ecology and Evolution, 2017, 7, 1339-1353.  | 0.8 | 38        |
| 21 | Wide Field-of-View Fluorescence Imaging of Coral Reefs. Scientific Reports, 2015, 5, 7694.  | 1.6 | 34        |
| 22 | CoralSeg: Learning coral segmentation from sparse annotations. Journal of Field Robotics, 2019, 36, 1456-1477.  | 3.2 | 30        |
| 23 | Photometric Stereo in a Scattering Medium. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1880-1891.   | 9.7 | 26        |
| 24 | 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        |
| 25 | Recovery limits in pointwise degradation. , 2009, , .   |     | 23        |
| 26 | Repeatable Semantic Reef-Mapping through Photogrammetry and Label-Augmentation. Remote Sensing, 2021, 13, 659.  | 1.8 | 22        |
| 27 | Coral-Segmentation: Training Dense Labeling Models with Sparse Ground Truth. , 2017, , .  |     | 20        |
| 28 | Automated Analysis of Marine Video with Limited Data. , 2018, , .   |     | 19        |
| 29 | In situ Analysis of Coral Recruits Using Fluorescence Imaging. Frontiers in Marine Science, 2017, 4, .  | 1.2 | 17        |
| 30 | 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        |
| 31 | 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        |
| 32 | 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        |
| 33 | In situ target-less calibration of turbid media. , 2017, , .  |     | 9         |
| 34 | Polarization: Beneficial for visibility enhancement?. , 2009, , .   |     | 9         |
| 35 | 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         |
| 36 | Optical wide-field tomography of sediment resuspension. Optics Express, 2019, 27, A766.   | 1.7 | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Vision-aided Speed Modulation System to Enhance Seaworthiness of Autonomous Planing Crafts. , 2018, , .                        |     | 3         |
| 38 | Flare in Interference-Based Hyperspectral Cameras. , 2019, , .   |     | 3         |
| 39 | An Underwater Microscope for In Situ Imaging of Seafloor Organism. , 2017, , .   |     | 3         |
| 40 | Optical Imaging in the Ocean. , 2017, , .  |     | 0         |
| 41 | The Coral Reef Sentinels Program: A Mars Shot for Blue Planetary Health. Marine Technology Society Journal, 2021, 55, 118-119. | 0.3 | 0         |
| 42 | Descattering. , 2021, , 295-298.   |     | 0         |
| 43 | Descattering. , 2014, , 186-189.   |     | 0         |
| 44 | Descattering. , 2020, , 1-4.   |     | 0         |