

Exploring underwater target detection by imaging polar

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Range and contrast imaging improvements using circularly polarized light in scattering environments. Proceedings of SPIE, 2013, , .	0.8	8
2	Smart pattern recognition. , 2013, , .		12
3	Sensitive test for sea mine identification based on polarization-aided image processing. Optics Express, 2013, 21, 29283.	1.7	20
4	Simultaneous compression and encryption of polarimetric images. , 2014, , .		0
5	Simultaneous compression and encryption of closely resembling images: application to video sequences and polarimetric images. Optics Express, 2014, 22, 22349.	1.7	20
6	Optimal estimation in polarimetric imaging in the presence of correlated noise fluctuations. Optics Express, 2014, 22, 4920.	1.7	7
7	Long-range polarimetric imaging through fog. Applied Optics, 2014, 53, 3854.	0.9	90
8	Contrast enhancement in polarimetric imaging with correlated noise fluctuations. , 2015, , .		0
9	Recent Advances in Optical Image Processing. Progress in Optics, 2015, 60, 119-262.	0.4	61
10	Detection range enhancement using circularly polarized light in scattering environments for infrared wavelengths. Applied Optics, 2015, 54, 2266.	0.9	48
11	Polarimetric Characterization of Unresolved Space Objects. Journal of Spacecraft and Rockets, 2015, 52, 1696-1711.	1.3	1
12	Resolution enhancement in active underwater polarization imaging with modulation transfer function analysis. Applied Optics, 2015, 54, 3294.	2.1	24
13	Orthogonality breaking through few-mode optical fiber. Applied Optics, 2016, 55, 2508.	2.1	5
14	Underwater visual position measurement system for high-accuracy beam installation. Optik, 2016, 127, 3964-3968.	1.4	2
15	Underwater image recovery considering polarization effects of objects. Optics Express, 2016, 24, 9826.	1.7	128
16	Depth classification of underwater targets based on complex acoustic intensity of normal modes. Journal of Ocean University of China, 2016, 15, 241-246.	0.6	4
17	Polarimetric imaging and retrieval of target polarization characteristics in underwater environment. Applied Optics, 2016, 55, 626.	2.1	30
18	Time-domain polarization difference imaging of objects in turbid water. Optics Communications, 2017, 391, 82-87.	1.0	16

#	ARTICLE	IF	CITATIONS
19	Enhancing Visibility of Polarimetric Underwater Image by Transmittance Correction. IEEE Photonics Journal, 2017, 9, 1-10.	1.0	33
20	The OUC-vision large-scale underwater image database. , 2017, , .		31
21	Extra-cavity radiofrequency modulator for a lidar radar designed for underwater target detection. Applied Optics, 2017, 56, 7367.	0.9	9
22	Polarization-based enhancement of ocean color signal for estimating suspended particulate matter: radiative transfer simulations and laboratory measurements. Optics Express, 2017, 25, A323.	1.7	19
23	Active underwater descattering and image recovery. Applied Optics, 2017, 56, 6631.	0.9	38
24	Numerical investigation of polarization filtering for direct optical imaging within scattering media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1330.	0.8	7
25	Underwater Image Recovery Under the Nonuniform Optical Field Based on Polarimetric Imaging. IEEE Photonics Journal, 2018, 10, 1-9.	1.0	60
26	Investigation on principle of polarization-difference imaging in turbid conditions. Optics Communications, 2018, 413, 30-38.	1.0	12
27	Complementary analysis of Mueller-matrix images of optically anisotropic highly scattering biological tissues. Journal of the European Optical Society-Rapid Publications, 2018, 14, .	0.9	45
28	Improved m-QAM-OFDM transmission for underwater wireless optical communications. Optics Communications, 2018, 423, 180-185.	1.0	13
29	Rapid underwater target enhancement method based on polarimetric imaging. Optics and Laser Technology, 2018, 108, 515-520.	2.2	26
30	One lens optical correlation: application to face recognition. Applied Optics, 2018, 57, 2087.	0.9	21
31	Enhancing underwater optical imaging by using a low-pass polarization filter. Optics Express, 2019, 27, 621.	1.7	82
32	Experimental demonstration of imaging hidden objects in opaque liquid-based media by fusion of single-shot multiview polarized and unpolarized speckle images. Optics and Lasers in Engineering, 2019, 113, 77-84.	2.0	13
33	The extended marine underwater environment database and baseline evaluations. Applied Soft Computing Journal, 2019, 80, 425-437.	4.1	50
34	Generation of polarization singularities with geometric metasurfaces. Scientific Reports, 2019, 9, 19656.	1.6	18
35	Polarization-dependent characteristics of a photon-counting laser ranging system. Optics Communications, 2020, 456, 124597.	1.0	2
36	Polarimetric underwater image recovery for color image with crosstalk compensation. Optics and Lasers in Engineering, 2020, 124, 105833.	2.0	20

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37	Experimental results of imaging objects in turbid liquid integrating multiview circularly polarized speckle images and deconvolution method. Optics and Laser Technology, 2020, 121, 105774.	2.2	5
38	Underwater De-scattering Imaging by Laser Field Synchronous Scanning. Optics and Lasers in Engineering, 2020, 126, 105871.	2.0	13
39	Performances of Polarization-Retrieve Imaging in Stratified Dispersion Media. Remote Sensing, 2020, 12, 2895.	1.8	19
40	Influence of the Complex Refractive Index of Underwater Suspended Particles on the Transmission Characteristics of Polarized Light. IEEE Access, 2020, 8, 203724-203733.	2.6	1
41	Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. IEEE Photonics Journal, 2020, 12, 1-11.	1.0	4
42	Real-Time Position and Attitude Estimation for Homing and Docking of an Autonomous Underwater Vehicle Based on Bionic Polarized Optical Guidance. Journal of Ocean University of China, 2020, 19, 1042-1050.	0.6	12
43	Optical correlation assists to enhance underwater polarization imaging performance. Optics and Lasers in Engineering, 2020, 134, 106256.	2.0	41
44	Underwater Optical Imaging: Key Technologies and Applications Review. IEEE Access, 2021, 9, 85500-85514.	2.6	15
45	Polarimetric Calculation Method of Global Pixel for Underwater Image Restoration. IEEE Photonics Journal, 2021, 13, 1-15.	1.0	7
46	Polarization resolving and imaging with a single-photon sensitive superconducting nanowire array. Optics Express, 2021, 29, 11021.	1.7	14
47	Underwater polarized image processing based on active illumination and image fusion of circular polarized light. , 2021, , .		1
48	Fast processing of underwater polarization imaging based on optical correlation. Applied Optics, 2021, 60, 4462.	0.9	7
49	Underwater Target Recognition Based on Improved YOLOv4 Neural Network. Electronics (Switzerland), 2021, 10, 1634.	1.8	34
50	Underwater Imaging by Suppressing the Backscattered Light Based on Mueller Matrix. IEEE Photonics Journal, 2021, 13, 1-6.	1.0	8
51	Underwater Target Detection Based on Deep Neural Network and Image Enhancement. Journal of Physics: Conference Series, 2021, 2029, 012145.	0.3	0
52	Automatic underwater polarization imaging without background region or any prior. Optics Express, 2021, 29, 31283.	1.7	21
53	Design and modeling of multi-spectral polarimetry streak tube imaging LiDAR. Infrared Physics and Technology, 2021, 118, 103872.	1.3	3
54	Polarization differential imaging in turbid water via Mueller matrix and illumination modulation. Optics Communications, 2021, 499, 127274.	1.0	11

#	ARTICLE	IF	CITATIONS
55	Different orders of scattering through time-resolved Mueller matrix imaging estimates of pre-malignancy in human cervical tissues. <i>Applied Optics</i> , 2020, 59, 4286.	0.9	8
56	Polarization-based exploration for clear underwater vision in natural illumination. <i>Optics Express</i> , 2019, 27, 3629.	1.7	59
57	Broadband ellipso-polarimetric camera utilizing tunable liquid crystal achromatic waveplate with improved field of view. <i>Optics Express</i> , 2019, 27, 12011.	1.7	8
58	Optical 4D signal detection in turbid water by multi-dimensional integral imaging using spatially distributed and temporally encoded multiple light sources. <i>Optics Express</i> , 2020, 28, 10477.	1.7	19
59	Signal detection in turbid water using temporally encoded polarimetric integral imaging. <i>Optics Express</i> , 2020, 28, 36033.	1.7	19
60	Free-space active polarimetric imager operating at 1550nm by orthogonality breaking sensing. <i>Optics Letters</i> , 2017, 42, 723.	1.7	10
61	Deeply seeing through highly turbid water by active polarization imaging. <i>Optics Letters</i> , 2018, 43, 4903.	1.7	90
62	Multi-scale analysis method of underwater polarization imaging. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 054202.	0.2	15
63	Passive underwater polarization imaging detection method in neritic area. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 184202.	0.2	5
64	Optical signal detection in turbid water using multidimensional integral imaging with deep learning. <i>Optics Express</i> , 2021, 29, 35691.	1.7	12
65	Active underwater polarization imaging technology. , 2017, , .		0
66	New microwave modulation LIDAR scheme for naval mine detection. , 2017, , .		1
67	Polarization Imaging Through Highly turbid Water. , 2018, , .		1
68	Long-wave infrared polarization feature extraction and image fusion based on the orthogonality difference method. <i>Journal of Electronic Imaging</i> , 2018, 27, 1.	0.5	8
69	Development status of optical imaging technology in scattering media. , 2018, , .		0
70	Underwater polarization imaging based on image correlation. , 2019, , .		0
71	Real-time active underwater polarization descattering. , 2019, , .		2
72	Polarization and hyperspectral imaging matter for newly emerging perspectives in optical image processing: guest editorial. <i>Advances in Optics and Photonics</i> , 2019, 11, ED10.	12.1	3

#	ARTICLE	IF	CITATIONS
73	Photoelectric Detection Technology in Underwater Vehicles. , 2020, , 1-8.		0
74	The underwater active imaging detection with linear polarization. , 2020, , .		1
75	Three-dimensional morphology measurement of underwater objects based on the photoacoustic effect. Optics Letters, 2022, 47, 641.	1.7	2
76	A polarization-based image restoration method for both haze and underwater scattering environment. Scientific Reports, 2022, 12, 1836.	1.6	4
77	Image-restoration algorithm based on an underwater polarization imaging visualization model. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2022, 39, 855.	0.8	4
78	Polarization-based smoke removal method for surgical images. Biomedical Optics Express, 2022, 13, 2364.	1.5	4
79	Measurement error model of the bio-inspired polarization imaging orientation sensor. Optics Express, 2022, 30, 22.	1.7	8
80	Optical Imaging and Image Restoration Techniques for Deep Ocean Mapping: A Comprehensive Survey. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 2022, 90, 243-267.	0.7	6
81	Radiofrequency modulator for marine lidar radar systems featuring compact and agile extra-cavity architecture using a polarimetric effect. Applied Optics, 2022, 61, 3671.	0.9	0
82	Time-of-Flight Imaging in Fog Using Polarization Phasor Imaging. Sensors, 2022, 22, 3159.	2.1	5
83	Underwater image restoration via Stokes decomposition. Optics Letters, 2022, 47, 2854.	1.7	18
84	$\langle \text{si1.svg} \rangle$ Unpaired underwater-image recovery with polarimetric generative adversarial network. Optics and Lasers in Engineering, 2022, 157, 107112.	2.0	14
85	Deep Learning Algorithm-Based Target Detection and Fine Localization of Technical Features in Basketball. Computational Intelligence and Neuroscience, 2022, 2022, 1-7.	1.1	3
86	Backward scattering suppression in an underwater LiDAR signal processing based on CEEMDAN-fast ICA algorithm. Optics Express, 2022, 30, 23270.	1.7	3
87	Photoelectric Detection Technology in Underwater Vehicles. , 2022, , 1297-1305.		0
88	Local optimum underwater polarization imaging enhancement based on connected domain prior. Journal of Optics (United Kingdom), 2022, 24, 105701.	1.0	3
89	Polarization and intensity analysis of lateral scattering light from nanoparticles. Applied Optics, 2022, 61, 7050.	0.9	0
90	Polarization-based approach for multipath interference mitigation in time-of-flight imaging. Applied Optics, 2022, 61, 7206.	0.9	4

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91	Are Indices of Polarimetric Purity Excellent Metrics for Object Identification in Scattering Media?. Remote Sensing, 2022, 14, 4148.	1.8	12
92	Polarization Descattering Imaging of Underwater Complex Targets Based on Mueller Matrix Decomposition. IEEE Photonics Journal, 2022, 14, 1-6.	1.0	2
93	UCRNet: Underwater color image restoration via a polarization-guided convolutional neural network. Frontiers in Marine Science, 0, 9, .	1.2	4
94	Event-based imaging polarimeter simulation with one single DoFP image. Optics Letters, 0, , .	1.7	0
95	An optical system for suppression of laser echo energy from the water surface on single-band bathymetric LiDAR. Optics and Lasers in Engineering, 2023, 163, 107468.	2.0	14
96	Active Polarization Imaging for Cross-Linear Image Histogram Equalization and Noise Suppression in Highly Turbid Water. Photonics, 2023, 10, 145.	0.9	4
97	Influence mechanism of the particle size on underwater active polarization imaging of reflective targets. Optics Express, 2023, 31, 7212.	1.7	4
98	Fast image visibility enhancement based on active polarization and color constancy for operation in turbid water. Optics Express, 2023, 31, 10159.	1.7	1
99	Polarimetric Imaging via Deep Learning: A Review. Remote Sensing, 2023, 15, 1540.	1.8	14
100	Depth Recovery with Large-area Data Loss Guided by Polarization Cues for Time-of-Flight Imaging. IEEE Access, 2023, , 1-1.	2.6	0
108	Transmission and Color-guided Network for Underwater Image Enhancement. , 2023, , .		0
115	Three-dimensional Integral Imaging Visualization in Scattering Medium with Active Polarization Descattering. , 2023, , .		0