

Xiaodong Zhang

List of Publications by Citations

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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.

60 papers	1,322 citations	18 h-index	35 g-index
62 ext. papers	1,619 ext. citations	3.1 avg, IF	4.67 L-index

#	Paper	IF	Citations
60	Scattering by pure seawater: effect of salinity. <i>Optics Express</i> , 2009 , 17, 5698-710	3.3	232
59	An overview of approaches and challenges for retrieving marine inherent optical properties from ocean color remote sensing. <i>Progress in Oceanography</i> , 2018 , 160, 186-212	3.8	151
58	Influence of bubbles on scattering of light in the ocean. <i>Applied Optics</i> , 1998 , 37, 6525-36	1.7	103
57	Estimating scattering of pure water from density fluctuation of the refractive index. <i>Optics Express</i> , 2009 , 17, 1671-8	3.3	74
56	The volume scattering function of natural bubble populations. <i>Limnology and Oceanography</i> , 2002 , 47, 1273-1282	4.8	69
55	The optical volume scattering function in a surf zone inverted to derive sediment and bubble particle subpopulations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		50
54	Zone mapping application for precision-farming: a decision support tool for variable rate application. <i>Precision Agriculture</i> , 2010 , 11, 103-114	5.6	49
53	Scattering by pure seawater at high salinity. <i>Optics Express</i> , 2009 , 17, 12685-91	3.3	45
52	Retrieving composition and sizes of oceanic particle subpopulations from the volume scattering function. <i>Applied Optics</i> , 2011 , 50, 1240-59	0.2	43
51	New insight into particulate mineral and organic matter in coastal ocean waters through optical inversion. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 149, 1-12	2.9	36
50	Comparison of optically derived particle size distributions: scattering over the full angular range versus diffraction at near forward angles. <i>Applied Optics</i> , 2012 , 51, 5085-99	1.7	28
49	Physical-geometric optics method for large size faceted particles. <i>Optics Express</i> , 2017 , 25, 24044-24060	3.3	27
48	Optical influence of ship wakes. <i>Applied Optics</i> , 2004 , 43, 3122-32	1.7	27
47	Significance of scattering by oceanic particles at angles around 120 degree. <i>Optics Express</i> , 2014 , 22, 31329-36	3.3	23
46	Biogeochemical origins of particles obtained from the inversion of the volume scattering function and spectral absorption in coastal waters. <i>Biogeosciences</i> , 2013 , 10, 6029-6043	4.6	21
45	Radiometric Calibration for AgCam. <i>Remote Sensing</i> , 2010 , 2, 464-477	5	21
44	Inversion of spectral absorption coefficients to infer phytoplankton size classes, chlorophyll concentration, and detrital matter. <i>Applied Optics</i> , 2015 , 54, 5805-16	0.2	20

43	Modeling Atmosphere-Ocean Radiative Transfer: A PACE Mission Perspective. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	20
42	Scattering by solutions of major sea salts. <i>Optics Express</i> , 2009 , 17, 19580-5	3.3	16
41	Modeling the inherent optical properties of aquatic particles using an irregular hexahedral ensemble. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 191, 30-39	2.1	15
40	Backscattering by very small particles in coastal waters. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 6914-6926	3.3	15
39	Effects of Subsurface Drainage on Evapotranspiration for Corn and Soybean Crops in Southeastern North Dakota. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2012 , 138, 1060-1067	1.1	15
38	Evaluating flood potential with GRACE in the United States. <i>Natural Hazards and Earth System Sciences</i> , 2016 , 16, 1011-1018	3.9	15
37	SWAT Modeling of Non-Point Source Pollution in Depression-Dominated Basins under Varying Hydroclimatic Conditions. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	14
36	Diel variations of the attenuation, backscattering and absorption coefficients of four phytoplankton species and comparison with spherical, coated spherical and hexahedral particle optical models. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 217, 288-304	2.1	14
35	Experimental Estimates of Optical Backscattering Associated With Submicron Particles in Clear Oceanic Waters. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087100	4.9	13
34	Modeling Water Quantity and Sulfate Concentrations in the Devils Lake Watershed Using Coupled SWAT and CE-QUAL-W2. <i>Journal of the American Water Resources Association</i> , 2017 , 53, 748-760	2.1	13
33	Interpretation of scattering by oceanic particles around 120 degrees and its implication in ocean color studies. <i>Optics Express</i> , 2017 , 25, A191-A199	3.3	12
32	Light scattering by pure seawater: Effect of pressure. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2019 , 146, 103-109	2.5	11
31	Light scattering by pure water and seawater: the depolarization ratio and its variation with salinity. <i>Applied Optics</i> , 2019 , 58, 991-1004	1.7	11
30	Digital Northern Great Plains: A Web-Based System Delivering Near Real Time Remote Sensing Data for Precision Agriculture. <i>Remote Sensing</i> , 2010 , 2, 861-873	5	10
29	Calibration of the LISST-VSF to derive the volume scattering functions in clear waters. <i>Optics Express</i> , 2019 , 27, A1188-A1206	3.3	9
28	Re-examining the effect of particle phase functions on the remote-sensing reflectance. <i>Applied Optics</i> , 2017 , 56, 6881-6888	1.7	8
27	Evaluation of MOST functions and roughness length parameterization on sensible heat flux measured by large aperture scintillometer over a corn field. <i>Agricultural and Forest Meteorology</i> , 2010 , 150, 1182-1191	5.8	8
26	Size distributions of coastal ocean suspended particulate inorganic matter: Amorphous silica and clay minerals and their dynamics. <i>Estuarine, Coastal and Shelf Science</i> , 2017 , 189, 243-251	2.9	7

25	Estimating Surface Soil Water Content in the Red River Valley of the North using Landsat 5 TM Data. <i>Soil Science Society of America Journal</i> , 2013 , 77, 1133-1143	2.5	7
24	Macro-scale grid-based and subbasin-based hydrologic modeling: joint simulation and cross-calibration. <i>Journal of Hydroinformatics</i> , 2019 , 21, 77-91	2.6	7
23	Light scattering by pure seawater at subzero temperatures. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020 , 162, 103306	2.5	6
22	A Bidirectional Subsurface Remote Sensing Reflectance Model Explicitly Accounting for Particle Backscattering Shapes. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 8614-8626	3.3	6
21	Retrieval of Phytoplankton Pigments from Underway Spectrophotometry in the Fram Strait. <i>Remote Sensing</i> , 2019 , 11, 318	5	6
20	An operational overview of the EXport Processes in the Ocean from RemoTe Sensing (EXPORTS) Northeast Pacific field deployment. <i>Elementa</i> , 2021 , 9,	3.6	6
19	A three-step semi analytical algorithm (3SAA) for estimating inherent optical properties over oceanic, coastal, and inland waters from remote sensing reflectance. <i>Remote Sensing of Environment</i> , 2021 , 263, 112537	13.2	6
18	Changes in Regional Snowfall in Central North America (1961-2017): Mountain Versus Plains. <i>Geosciences (Switzerland)</i> , 2020 , 10, 157	2.7	5
17	Assessment of Normalized Water-Leaving Radiance Derived from GOCI Using AERONET-OC Data. <i>Remote Sensing</i> , 2021 , 13, 1640	5	4
16	Anomalous Light Scattering by Pure Seawater. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2679	2.6	4
15	Identifying the Driving Factors of Water Quality in a Sub-Watershed of the Republican River Basin, Kansas USA. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	3
14	Near real-time high-resolution airborne camera, AEROCam, for precision agriculture. <i>Geocarto International</i> , 2011 , 26, 537-551	2.7	3
13	Shape of particle backscattering in the North Pacific Ocean: the T factor. <i>Applied Optics</i> , 2021 , 60, 1260-1266	2.6	3
12	Mitigating Impact of Devils Lake Flooding on the Sheyenne River Sulfate Concentration. <i>Journal of the American Water Resources Association</i> , 2020 , 56, 297-309	2.1	2
11	Effects of temperature and salinity on light scattering by water 2010 ,		2
10	A Brief Review of Mueller Matrix Calculations Associated with Oceanic Particles. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2686	2.6	2
9	Automatic Calibration for CE-QUAL-W2 Model Using Improved Global-Best Harmony Search Algorithm. <i>Water (Switzerland)</i> , 2021 , 13, 2308	3	2
8	A theoretical study of the effect of subsurface oceanic bubbles on the enhanced aerosol optical depth band over the southern oceans as detected from MODIS and MISR. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2149-2160	4	1

7	Variability of relationship between the volume scattering function at 180° and the backscattering coefficient for aquatic particles. <i>Applied Optics</i> , 2020 , 59, C31-C41	1.7	1
6	Molecular light scattering by pure seawater 2013 , 225-243		1
5	Light Scattering by Pure Water and Seawater: Recent Development. <i>Journal of Remote Sensing</i> , 2021 , 2021, 1-11		0
4	A closure study of ocean inherent optical properties using flow cytometry measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 241, 106730	2.1	0
3	Deriving the angular response function for backscattering sensors. <i>Applied Optics</i> , 2021 , 60, 8676-8687	1.7	0
2	TECHNOLOGICAL INNOVATIONS BRINGING SPATIAL TECHNOLOGY TO PRECISION AGRICULTURE IN THE NORTHERN GREAT PLAINS. <i>Technology and Innovation</i> , 2014 , 16, 27-35	0.7	
1	Providing Precision Crop and Range Protection in the US Northern Great Plains 2010 , 367-384		