Shaoling Shang

List of Publications by Year
in descending order

59 papers	6,721 citations	136740 32 h-index	133063 59 g-index
59 all docs	59 docs citations	59 times ranked	3936 citing authors

#	ARTICLE	IF	CITATIONS
1	Deriving inherent optical properties from water color: a multiband quasi-analytical algorithm for optically deep waters. Applied Optics, 2002, 41, 5755.	2.1	1,301
2	Hyperspectral remote sensing for shallow waters: 2 Deriving bottom depths and water properties by optimization. Applied Optics, 1999, 38, 3831.	2.1	696
3	Chlorophyll <i>a</i>algorithms for oligotrophic oceans: A novel approach based on threeâ€band reflectance difference. Journal of Geophysical Research, 2012, 117, .	3.3	649
4	Hyperspectral remote sensing for shallow waters I A semianalytical model. Applied Optics, 1998, 37, 6329.	2.1	474
5	Generalized ocean color inversion model for retrieving marine inherent optical properties. Applied Optics, 2013, 52, 2019.	0.9	366
6	An overview of approaches and challenges for retrieving marine inherent optical properties from ocean color remote sensing. Progress in Oceanography, 2018, 160, 186-212.	1.5	257
7	Secchi disk depth: A new theory and mechanistic model for underwater visibility. Remote Sensing of Environment, 2015, 169, 139-149.	4.6	224
8	Euphotic zone depth: Its derivation and implication to ocean-color remote sensing. Journal of Geophysical Research, 2007, 112, .	3.3	209
9	Penetration of UVâ€visible solar radiation in the global oceans: Insights from ocean color remote sensing. Journal of Geophysical Research: Oceans, 2013, 118, 4241-4255.	1.0	184
10	Removal of surface-reflected light for the measurement of remote-sensing reflectance from an above-surface platform. Optics Express, 2010, 18, 26313.	1.7	159
11	Uncertainties of optical parameters and their propagations in an analytical ocean color inversion algorithm. Applied Optics, 2010, 49, 369.	2.1	153
12	A semi-analytical scheme to estimate Secchi-disk depth from Landsat-8 measurements. Remote Sensing of Environment, 2016, 177, 101-106.	4.6	151
13	Floating Algae Blooms in the East China Sea. Geophysical Research Letters, 2017, 44, 11,501.	1.5	116
14	Quantifying cyanobacterial phycocyanin concentration in turbid productive waters: A quasi-analytical approach. Remote Sensing of Environment, 2013, 133, 141-151.	4.6	115
15	Long-term trend of Ulva prolifera blooms in the western Yellow Sea. Harmful Algae, 2016, 58, 35-44.	2.2	114
16	Uncertainties of SeaWiFS and MODIS remote sensing reflectance: Implications from clear water measurements. Remote Sensing of Environment, 2013, 133, 168-182.	4.6	109
17	Changes of water clarity in large lakes and reservoirs across China observed from long-term MODIS. Remote Sensing of Environment, 2020, 247, 111949.	4.6	100
18	Hyperspectral absorption coefficient of â€œpureâ€•seawater in the range of 350â€“550â€‰â€‰nm inverted from remote sensing reflectance. Applied Optics, 2015, 54, 546.	0.9	98

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19	Penetration of solar radiation in the upper ocean: A numerical model for oceanic and coastal waters. Journal of Geophysical Research, 2005, 110, .	3.3	89
20	A system to measure the data quality of spectral remote sensing reflectance of aquatic environments. Journal of Geophysical Research: Oceans, 2016, 121, 8189.	1.0	80
21	Effects of molecular and particle scatterings on the model parameter for remote-sensing reflectance. Applied Optics, 2004, 43, 4957.	2.1	79
22	Robust approach to directly measuring water-leaving radiance in the field. Applied Optics, 2013, 52, 1693.	0.9	78
23	Changes in water clarity of the Bohai Sea: Observations from MODIS. Remote Sensing of Environment, 2016, 186, 22-31.	4.6	70
24	An assessment of Landsat-8 atmospheric correction schemes and remote sensing reflectance products in coral reefs and coastal turbid waters. Remote Sensing of Environment, 2018, 215, 18-32.	4.6	65
25	Resolving the longâ€standing puzzles about the observed Secchi depth relationships. Limnology and Oceanography, 2018, 63, 2321-2336.	1.6	62
26	Why does the Secchi disk disappear? An imaging perspective. Optics Express, 2007, 15, 2791.	1.7	61
27	Improving Satellite Global Chlorophyll <i>a</i> Data Products Through Algorithm Refinement and Data Recovery. Journal of Geophysical Research: Oceans, 2019, 124, 1524-1543.	1.0	58
28	An algorithm to retrieve absorption coefficient of chromophoric dissolved organic matter from ocean color. Remote Sensing of Environment, 2013, 128, 259-267.	4.6	55
29	Sensing an intense phytoplankton bloom in the western Taiwan Strait from radiometric measurements on a UAV. Remote Sensing of Environment, 2017, 198, 85-94.	4.6	52
30	Ocean Color Reveals Phase Shift Between Marine Plants and Yellow Substance. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 262-266.	1.4	47
31	Retrieving absorption coefficients of multiple phytoplankton pigments from hyperspectral remote sensing reflectance measured over cyanobacteria bloom waters. Limnology and Oceanography: Methods, 2016, 14, 432-447.	1.0	38
32	A new approach to discriminate dinoflagellate from diatom blooms from space in the East China Sea. Journal of Geophysical Research: Oceans, 2014, 119, 4653-4668.	1.0	36
33	K_{PAR}: An optical property associated with ambiguous values. Hupo Kexue/Journal of Lake Sciences, 2009, 21, 159-164.	0.3	31
34	Remote Sensing of Secchi Depth in Highly Turbid Lake Waters and Its Application with MERIS Data. Remote Sensing, 2019, 11, 2226.	1.8	30
35	Photosynthetic parameters in the northern <scp>S</scp>outh <scp>C</scp>hina <scp>S</scp>ea in relation to phytoplankton community structure. Journal of Geophysical Research: Oceans, 2015, 120, 4187-4204.	1.0	29
36	Radiance transmittance measured at the ocean surface. Optics Express, 2015, 23, 11826.	1.7	26

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37	Spectral slopes of the absorption coefficient of colored dissolved and detrital material inverted from UVâ€visible remote sensing reflectance. Journal of Geophysical Research: Oceans, 2016, 121, 1953-1969.	1.0	24
38	Improving low-quality satellite remote sensing reflectance at blue bands over coastal and inland waters. Remote Sensing of Environment, 2020, 250, 112029.	4.6	24
39	Hyperspectral absorption and backscattering coefficients of bulk water retrieved from a combination of remote-sensing reflectance and attenuation coefficient. Optics Express, 2018, 26, A157.	1.7	19
40	Semianalytical Derivation of Phytoplankton, CDOM, and Detritus Absorption Coefficients From the Landsat 8/OLI Reflectance in Coastal Waters. Journal of Geophysical Research: Oceans, 2019, 124, 3682-3699.	1.0	19
41	Usable solar radiation and its attenuation in the upper water column. Journal of Geophysical Research: Oceans, 2014, 119, 1488-1497.	1.0	15
42	Retrieval of phytoplankton and colored detrital matter absorption coefficients with remote sensing reflectance in an ultraviolet band. Applied Optics, 2015, 54, 636.	0.9	15
43	Concentrations of Multiple Phytoplankton Pigments in the Global Oceans Obtained from Satellite Ocean Color Measurements with MERIS. Applied Sciences (Switzerland), 2018, 8, 2678.	1.3	13
44	Reconciling Between Optical and Biological Determinants of the Euphotic Zone Depth. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016874.	1.0	12
45	Remote sensing of normalized diffuse attenuation coefficient of downwelling irradiance. Journal of Geophysical Research: Oceans, 2016, 121, 6717-6730.	1.0	11
46	Regionalization and Dynamic Parameterization of Quantum Yield of Photosynthesis to Improve the Ocean Primary Production Estimates From Remote Sensing. Frontiers in Marine Science, 2018, 5, .	1.2	11
47	Detection and Biomass Estimation of <i>Phaeocystis globosa</i> Blooms off Southern China From UAV-Based Hyperspectral Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	11
48	Model of the attenuation coefficient of daily photosynthetically available radiation in the upper ocean. Methods in Oceanography, 2013, 8, 56-74.	1.5	10
49	Experimental analysis of the measurement precision of spectral water-leaving radiance in different water types. Optics Express, 2021, 29, 2780.	1.7	10
50	Progressive scheme for blending empirical ocean color retrievals of absorption coefficient and chlorophyll concentration from open oceans to highly turbid waters. Applied Optics, 2019, 58, 3359.	0.9	9
51	Performance of COCTS in Global Ocean Color Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1634-1644.	2.7	8
52	Atmospheric correction in coastal region using same-day observations of different sun-sensor geometries with a revised POLYMER model. Optics Express, 2020, 28, 26953.	1.7	8
53	Secchi disk observation with spectral-selective glasses in blue and green waters. Optics Express, 2017, 25, 19878.	1.7	7
54	Estimating the Transmittance of Visible Solar Radiation in the Upper Ocean Using Secchi Disk Observations. Journal of Geophysical Research: Oceans, 2019, 124, 1434-1444.	1.0	7

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55	Estimation of Transmittance of Solar Radiation in the Visible Domain Based on Remote Sensing: Evaluation of Models Using In Situ Data. Journal of Geophysical Research: Oceans, 2017, 122, 9176-9188.	1.0	6
56	Impact of Temporal Variation of Chlorophyllâ€Specific Absorption on Phytoplankton Phenology Observed From Ocean Color Satellite: A Numerical Experiment. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016382.	1.0	6
57	A simple and robust shade correction scheme for remote sensing reflectance obtained by the skylight-blocked approach. Optics Express, 2021, 29, 470.	1.7	6
58	The Use of VGPM to Estimate Oceanic Primary Production: A â€œTangoâ€• Difficult to Dance. Journal of Remote Sensing, 2022, 2022, .	3.2	5
59	Three-Dimensional Variation in Light Quality in the Upper Water Column Revealed With a Single Parameter. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	4