Dariusz Stramski

List of Publications by Year in Descending Order

87 papers	5,402 citations	35 h-index	73 g-index
92 ext. papers	6,086 ext. citations	4.5 avg, IF	5.71 L-index

#	Paper	IF	Citations
87	Ocean color algorithms to estimate the concentration of particulate organic carbon in surface waters of the global ocean in support of a long-term data record from multiple satellite missions. *Remote Sensing of Environment*, **2022**, 269, 112776	13.2	3
86	Variability in Oceanic Particle Size Distributions and Estimation of Size Class Contributions Using a Non-parametric Approach. *Journal of Geophysical Research: Oceans*, **2021**, 126, e2021JC017946	3.3	1
85	Characterization of suspended particulate matter in contrasting coastal marine environments with angle-resolved polarized light scattering measurements.. *Applied Optics*, **2021**, 60, 11161-11179	1.7	1
84	The MALINA oceanographic expedition: how do changes in ice cover, permafrost and UV radiation impact biodiversity and biogeochemical fluxes in the Arctic Ocean?. *Earth System Science Data*, **2021**, 13, 1561-1592	10.5	1
83	Hyperspectral optical absorption closure experiment in complex coastal waters. *Limnology and Oceanography: Methods*, **2021**, 19, 589-625	2.6	0
82	Polarized light scattering measurements as a means to characterize particle size and composition of natural assemblages of marine particles: erratum. *Applied Optics*, **2021**, 60, 380-382	1.7	1
81	Evaluation of Particle Size Distribution Metrics to Estimate the Relative Contributions of Different Size Fractions Based on Measurements in Arctic Waters. *Journal of Geophysical Research: Oceans*, **2020**, 125, e2020JC016218	3.3	5
80	Polarized light scattering measurements as a means to characterize particle size and composition of natural assemblages of marine particles. *Applied Optics*, **2020**, 59, 8314-8334	1.7	9
79	Polarized light scattering measurements as a means to characterize particle size and composition of natural assemblages of marine particles: publisher's note. *Applied Optics*, **2020**, 59, 9233	0.2	1
78	A global compilation of in situ aquatic high spectral resolution inherent and apparent optical property data for remote sensing applications. *Earth System Science Data*, **2020**, 12, 1123-1139	10.5	6
77	Assessing the effects of particle size and composition on light scattering through measurements of size-fractionated seawater samples. *Limnology and Oceanography*, **2020**, 65, 173-190	4.8	14
76	Patterns of suspended particulate matter across the continental margin in the Canadian Beaufort Sea during summer. *Biogeosciences*, **2019**, 16, 1583-1605	4.6	7
75	Inherent optical properties and particle characteristics of the sea-surface microlayer. *Progress in Oceanography*, **2019**, 176, 102117	3.8	7
74	Optical characterization of marine phytoplankton assemblages within surface waters of the western Arctic Ocean. *Limnology and Oceanography*, **2019**, 64, 2478-2496	4.8	6
73	Light scattering by pure water and seawater: the depolarization ratio and its variation with salinity. *Applied Optics*, **2019**, 58, 991-1004	1.7	11
72	Model for separating the contributions of non-algal particles and colored dissolved organic matter to light absorption by seawater. *Applied Optics*, **2019**, 58, 3790-3806	1.7	6
71	An Inverse Model for Estimating the Optical Absorption and Backscattering Coefficients of Seawater From Remote-Sensing Reflectance Over a Broad Range of Oceanic and Coastal Marine Environments. *Journal of Geophysical Research: Oceans*, **2018**, 123, 2141-2171	3.3	29

70	An overview of approaches and challenges for retrieving marine inherent optical properties from ocean color remote sensing. *Progress in Oceanography*, **2018**, 160, 186-212	3.8	151
69	Measurements of the Volume Scattering Function and the Degree of Linear Polarization of Light Scattered by Contrasting Natural Assemblages of Marine Particles. *Applied Sciences (Switzerland)*, **2018**, 8, 2690	2.6	15
68	Characterization of the Light Field and Apparent Optical Properties in the Ocean Euphotic Layer Based on Hyperspectral Measurements of Irradiance Quartet. *Applied Sciences (Switzerland)*, **2018**, 8, 2677	2.6	4
67	A Color-Index-Based Empirical Algorithm for Determining Particulate Organic Carbon Concentration in the Ocean From Satellite Observations. *Journal of Geophysical Research: Oceans*, **2018**, 123, 7407-7419	3.3	16
66	Optical backscattering by particles in Arctic seawater and relationships to particle mass concentration, size distribution, and bulk composition. *Limnology and Oceanography*, **2016**, 61, 1869-1890	4.8	53
65	Optical classification and characterization of marine particle assemblages within the western Arctic Ocean. *Limnology and Oceanography*, **2016**, 61, 1472-1494	4.8	29
64	Effects of inelastic radiative processes on the determination of water-leaving spectral radiance from extrapolation of underwater near-surface measurements. *Applied Optics*, **2016**, 55, 7050-67	0.2	17
63	A model for partitioning the light absorption coefficient of natural waters into phytoplankton, nonalgal particulate, and colored dissolved organic components: A case study for the Chesapeake Bay. *Journal of Geophysical Research: Oceans*, **2015**, 120, 2601-2621	3.3	29
62	Assessing phytoplankton community composition from hyperspectral measurements of phytoplankton absorption coefficient and remote-sensing reflectance in open-ocean environments. *Remote Sensing of Environment*, **2015**, 171, 58-74	13.2	53
61	Correction of pathlength amplification in the filter-pad technique for measurements of particulate absorption coefficient in the visible spectral region. *Applied Optics*, **2015**, 54, 6763-82	0.2	53
60	Within-day variability of particulate organic carbon and remote-sensing reflectance during a bloom of Phaeocystis antarctica in the Ross Sea, Antarctica. *International Journal of Remote Sensing*, **2014**, 35, 454-477	3.1	2
59	Evaluation of the Quasi-Analytical Algorithm for estimating the inherent optical properties of seawater from ocean color: Comparison of Arctic and lower-latitude waters. *Remote Sensing of Environment*, **2014**, 155, 194-209	13.2	33
58	Contrasting inherent optical properties and particle characteristics between an under-ice phytoplankton bloom and open water in the Chukchi Sea. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2014**, 105, 59-73	2.3	13
57	Characterization of the solar light field within the ocean mesopelagic zone based on radiative transfer simulations. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2014**, 87, 53-69	2.5	10
56	The asymmetry of the underwater horizontal light field and its implications for mirror-based camouflage in silvery pelagic fish. *Limnology and Oceanography*, **2014**, 59, 1839-1852	4.8	13
55	Deep-sea low-light radiometer system. *Optics Express*, **2014**, 22, 30074-91	3.3	4
54	Shedding light on the sea: André Morel's legacy to optical oceanography. *Annual Review of Marine Science*, **2014**, 6, 1-21	15.4	29
53	A model for partitioning the light absorption coefficient of suspended marine particles into phytoplankton and nonalgal components. *Journal of Geophysical Research: Oceans*, **2013**, 118, 2977-2991	3.3	17

52	A model based on stacked-constraints approach for partitioning the light absorption coefficient of seawater into phytoplankton and non-phytoplankton components. *Journal of Geophysical Research: Oceans*, **2013**, 118, 2155-2174	3.3	28
51	Variability in light absorption and scattering of phytoplankton in Patagonian waters: Role of community size structure and pigment composition. *Journal of Geophysical Research: Oceans*, **2013**, 118, 698-714	3.3	20
50	Estimates of phytoplankton class-specific and total primary production in the Mediterranean Sea from satellite ocean color observations. *Global Biogeochemical Cycles*, **2012**, 26, n/a-n/a	5.9	60
49	Determination of the volume scattering function of aqueous particle suspensions with a laboratory multi-angle light scattering instrument. *Applied Optics*, **2012**, 51, 3853-73	1.7	12
48	Measurements of high-frequency light fluctuations induced by sea surface waves with an Underwater Porcupine Radiometer System. *Journal of Geophysical Research*, **2011**, 116,		35
47	Vertical changes in the probability distribution of downward irradiance within the near-surface ocean under sunny conditions. *Journal of Geophysical Research*, **2011**, 116,		13
46	Cluster analysis of hyperspectral optical data for discriminating phytoplankton pigment assemblages in the open ocean. *Remote Sensing of Environment*, **2011**, 115, 2578-2593	13.2	79
45	Phytoplankton class-specific primary production in the world's oceans: Seasonal and interannual variability from satellite observations. *Global Biogeochemical Cycles*, **2010**, 24, n/a-n/a	5.9	215
44	Seasonal and interannual variability of particulate organic carbon within the Southern Ocean from satellite ocean color observations. *Journal of Geophysical Research*, **2010**, 115,		25
43	Optical variability of seawater in relation to particle concentration, composition, and size distribution in the nearshore marine environment at Imperial Beach, California. *Journal of Geophysical Research*, **2010**, 115,		76
42	Empirical ocean color algorithms for estimating particulate organic carbon in the Southern Ocean. *Journal of Geophysical Research*, **2010**, 115,		19
41	Variations in the optical properties of a particle suspension associated with viral infection of marine bacteria. *Limnology and Oceanography*, **2010**, 55, 2317-2330	4.8	10
40	MODIS imagery of turbid plumes in San Diego coastal waters during rainstorm events. *Remote Sensing of Environment*, **2010**, 114, 332-344	13.2	48
39	Small-scale effects of underwater bubble clouds on ocean reflectance: 3-D modeling results. *Optics Express*, **2009**, 17, 11747-52	3.3	13
38	Effects of atmospheric particles from Southern California on the optical properties of seawater. *Journal of Geophysical Research*, **2008**, 113,		10
37	Variations in the optical properties of terrigenous mineral-rich particulate matter suspended in seawater. *Limnology and Oceanography*, **2007**, 52, 2418-2433	4.8	87
36	Seasonal and regional differentiation of bio-optical properties within the north polar Atlantic. *Journal of Geophysical Research*, **2006**, 111,		34
35	Spectral dependency of optical backscattering by marine particles from satellite remote sensing of the global ocean. *Journal of Geophysical Research*, **2006**, 111,		135

34	Diffuse attenuation coefficient of downwelling irradiance: An evaluation of remote sensing methods. *Journal of Geophysical Research*, **2005**, 110,		100
33	Variability of particulate organic carbon concentration in the north polar Atlantic based on ocean color observations with Sea-viewing Wide Field-of-view Sensor (SeaWiFS). *Journal of Geophysical Research*, **2005**, 110,		63
32	On the role of colloidal particles in light scattering in the ocean. *Limnology and Oceanography*, **2005**, 50, 1581-1591	4.8	35
31	The role of seawater constituents in light backscattering in the ocean. *Progress in Oceanography*, **2004**, 61, 27-56	3.8	269
30	An evaluation of MODIS and SeaWiFS bio-optical algorithms in the Baltic Sea. *Remote Sensing of Environment*, **2004**, 89, 326-350	13.2	270
29	Modeling the optical properties of mineral particles suspended in seawater and their influence on ocean reflectance and chlorophyll estimation from remote sensing algorithms. *Applied Optics*, **2004**, 43, 3489-503	1.7	123
28	Influence of forward and multiple light scatter on the measurement of beam attenuation in highly scattering marine environments. *Applied Optics*, **2004**, 43, 4723-31	1.7	21
27	Variations in the mass-specific absorption coefficient of mineral particles suspended in water. *Limnology and Oceanography*, **2004**, 49, 756-767	4.8	99
26	Optical properties of Asian mineral dust suspended in seawater. *Limnology and Oceanography*, **2004**, 49, 749-755	4.8	44
25	Why Should We Measure the Optical Backscattering Coefficient?. *Oceanography*, **2004**, 17, 44-49	2.3	22
24	Light scattering properties of marine particles in coastal and open ocean waters as related to the particle mass concentration. *Limnology and Oceanography*, **2003**, 48, 843-859	4.8	384
23	Variations in the light absorption coefficients of phytoplankton, nonalgal particles, and dissolved organic matter in coastal waters around Europe. *Journal of Geophysical Research*, **2003**, 108,		605
22	Bio-optical relationships and ocean color algorithms for the north polar region of the Atlantic. *Journal of Geophysical Research*, **2003**, 108,		73
21	Estimation of scattering error in spectrophotometric measurements of light absorption by aquatic particles from three-dimensional radiative transfer simulations. *Applied Optics*, **2003**, 42, 3634-46	1.7	34
20	Effects of temperature, nitrogen, and light limitation on the optical properties of the marine diatom Thalassiosira pseudonana. *Limnology and Oceanography*, **2002**, 47, 392-403	4.8	80
19	Light absorption by aquatic particles in the near-infrared spectral region. *Limnology and Oceanography*, **2002**, 47, 911-915	4.8	129
18	A chlorophyll-dependent semianalytical reflectance model derived from field measurements of absorption and backscattering coefficients within the Southern Ocean. *Journal of Geophysical Research*, **2001**, 106, 7125-7138		122
17	Modeling the inherent optical properties of the ocean based on the detailed composition of the planktonic community. *Applied Optics*, **2001**, 40, 2929-45	1.7	233

16	Estimation of the absorption and backscattering coefficients from in?water radiometric measurements. *Limnology and Oceanography*, **2000**, 45, 628-641	4.8	31
15	Estimation of the inherent optical properties of natural waters from the irradiance attenuation coefficient and reflectance in the presence of Raman scattering. *Applied Optics*, **2000**, 39, 3001-11	1.7	114
14	Refractive index of planktonic cells as a measure of cellular carbon and chlorophyll a content. *Deep-Sea Research Part I: Oceanographic Research Papers*, **1999**, 46, 335-351	2.5	55
13	Can heterotrophic bacteria be important to marine light absorption?. *Journal of Plankton Research*, **1998**, 20, 1489-1500	2.2	17
12	Effect of Raman scattering on the average cosine and diffuse attenuation coefficient of irradiance in the ocean. *Limnology and Oceanography*, **1998**, 43, 564-576	4.8	18
11	The effect of nitrogren limitation on the absorption and scattering properties of the marine diatom Thalassiosira pseudonana. *Limnology and Oceanography*, **1997**, 42, 881-892	4.8	22
10	Effects of microbial particles on oceanic optics: A database of single-particle optical properties. *Limnology and Oceanography*, **1997**, 42, 538-549	4.8	63
9	Effects of microbial particles on oceanic optics: Methodology for radiative transfer modeling and example simulations. *Limnology and Oceanography*, **1997**, 42, 550-560	4.8	26
8	Influences of absorption and scattering on vertical changes in the average cosine of the underwater light field. *Limnology and Oceanography*, **1995**, 40, 1347-1357	4.8	35
7	Diel variations in the optical properties of a marine diatom. *Limnology and Oceanography*, **1993**, 38, 1347-1364	4.8	82
6	Changes in the optical properties of a particle suspension caused by protist grazing. *Journal of Plankton Research*, **1992**, 14, 961-977	2.2	9
5	Estimation of downward irradiance attenuation from a single moored instrument. *Deep-sea Research Part A, Oceanographic Research Papers*, **1992**, 39, 567-584		10
4	Light scattering by microorganisms in the open ocean. *Progress in Oceanography*, **1991**, 28, 343-383	3.8	253
3	Artifacts in measuring absorption spectra of phytoplankton collected on a filter. *Limnology and Oceanography*, **1990**, 35, 1804-1809	4.8	18
2	Spectral absorption coefficients of living phytoplankton and nonalgal biogenous matter: A comparison between the Peru upwelling areaand the Sargasso Sea. *Limnology and Oceanography*, **1990**, 35, 562-582	4.8	302
1	Optical properties of photosynthetic picoplankton in different physiological states as affected by growth irradiance. *Deep-sea Research Part A, Oceanographic Research Papers*, **1990**, 37, 245-266		72