

# Dariusz Stramski

## 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.

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	Variations in the light absorption coefficients of phytoplankton, nonalgal particles, and dissolved organic matter in coastal waters around Europe. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		605
86	Light scattering properties of marine particles in coastal and open ocean waters as related to the particle mass concentration. <i>Limnology and Oceanography</i> , <b>2003</b> , 48, 843-859	4.8	384
85	Spectral absorption coefficients of living phytoplankton and nonalgal biogenous matter: A comparison between the Peru upwelling area and the Sargasso Sea. <i>Limnology and Oceanography</i> , <b>1990</b> , 35, 562-582	4.8	302
84	An evaluation of MODIS and SeaWiFS bio-optical algorithms in the Baltic Sea. <i>Remote Sensing of Environment</i> , <b>2004</b> , 89, 326-350	13.2	270
83	The role of seawater constituents in light backscattering in the ocean. <i>Progress in Oceanography</i> , <b>2004</b> , 61, 27-56	3.8	269
82	Light scattering by microorganisms in the open ocean. <i>Progress in Oceanography</i> , <b>1991</b> , 28, 343-383	3.8	253
81	Modeling the inherent optical properties of the ocean based on the detailed composition of the planktonic community. <i>Applied Optics</i> , <b>2001</b> , 40, 2929-45	1.7	233
80	Phytoplankton class-specific primary production in the world's oceans: Seasonal and interannual variability from satellite observations. <i>Global Biogeochemical Cycles</i> , <b>2010</b> , 24, n/a-n/a	5.9	215
79	An overview of approaches and challenges for retrieving marine inherent optical properties from ocean color remote sensing. <i>Progress in Oceanography</i> , <b>2018</b> , 160, 186-212	3.8	151
78	Spectral dependency of optical backscattering by marine particles from satellite remote sensing of the global ocean. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		135
77	Light absorption by aquatic particles in the near-infrared spectral region. <i>Limnology and Oceanography</i> , <b>2002</b> , 47, 911-915	4.8	129
76	Modeling the optical properties of mineral particles suspended in seawater and their influence on ocean reflectance and chlorophyll estimation from remote sensing algorithms. <i>Applied Optics</i> , <b>2004</b> , 43, 3489-503	1.7	123
75	A chlorophyll-dependent semianalytical reflectance model derived from field measurements of absorption and backscattering coefficients within the Southern Ocean. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 7125-7138		122
74	Estimation of the inherent optical properties of natural waters from the irradiance attenuation coefficient and reflectance in the presence of Raman scattering. <i>Applied Optics</i> , <b>2000</b> , 39, 3001-11	1.7	114
73	Diffuse attenuation coefficient of downwelling irradiance: An evaluation of remote sensing methods. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		100
72	Variations in the mass-specific absorption coefficient of mineral particles suspended in water. <i>Limnology and Oceanography</i> , <b>2004</b> , 49, 756-767	4.8	99
71	Variations in the optical properties of terrigenous mineral-rich particulate matter suspended in seawater. <i>Limnology and Oceanography</i> , <b>2007</b> , 52, 2418-2433	4.8	87

70	Diel variations in the optical properties of a marine diatom. <i>Limnology and Oceanography</i> , <b>1993</b> , 38, 1347-1364	4.8	82
69	Effects of temperature, nitrogen, and light limitation on the optical properties of the marine diatom <i>Thalassiosira pseudonana</i> . <i>Limnology and Oceanography</i> , <b>2002</b> , 47, 392-403	4.8	80
68	Cluster analysis of hyperspectral optical data for discriminating phytoplankton pigment assemblages in the open ocean. <i>Remote Sensing of Environment</i> , <b>2011</b> , 115, 2578-2593	13.2	79
67	Optical variability of seawater in relation to particle concentration, composition, and size distribution in the nearshore marine environment at Imperial Beach, California. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		76
66	Bio-optical relationships and ocean color algorithms for the north polar region of the Atlantic. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		73
65	Optical properties of photosynthetic picoplankton in different physiological states as affected by growth irradiance. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , <b>1990</b> , 37, 245-266		72
64	Effects of microbial particles on oceanic optics: A database of single-particle optical properties. <i>Limnology and Oceanography</i> , <b>1997</b> , 42, 538-549	4.8	63
63	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). <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		63
62	Estimates of phytoplankton class-specific and total primary production in the Mediterranean Sea from satellite ocean color observations. <i>Global Biogeochemical Cycles</i> , <b>2012</b> , 26, n/a-n/a	5.9	60
61	Refractive index of planktonic cells as a measure of cellular carbon and chlorophyll a content. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>1999</b> , 46, 335-351	2.5	55
60	Assessing phytoplankton community composition from hyperspectral measurements of phytoplankton absorption coefficient and remote-sensing reflectance in open-ocean environments. <i>Remote Sensing of Environment</i> , <b>2015</b> , 171, 58-74	13.2	53
59	Correction of pathlength amplification in the filter-pad technique for measurements of particulate absorption coefficient in the visible spectral region. <i>Applied Optics</i> , <b>2015</b> , 54, 6763-82	0.2	53
58	Optical backscattering by particles in Arctic seawater and relationships to particle mass concentration, size distribution, and bulk composition. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, 1869-1890	4.8	53
57	MODIS imagery of turbid plumes in San Diego coastal waters during rainstorm events. <i>Remote Sensing of Environment</i> , <b>2010</b> , 114, 332-344	13.2	48
56	Optical properties of Asian mineral dust suspended in seawater. <i>Limnology and Oceanography</i> , <b>2004</b> , 49, 749-755	4.8	44
55	Measurements of high-frequency light fluctuations induced by sea surface waves with an Underwater Porcupine Radiometer System. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		35
54	On the role of colloidal particles in light scattering in the ocean. <i>Limnology and Oceanography</i> , <b>2005</b> , 50, 1581-1591	4.8	35
53	Influences of absorption and scattering on vertical changes in the average cosine of the underwater light field. <i>Limnology and Oceanography</i> , <b>1995</b> , 40, 1347-1357	4.8	35

52	Seasonal and regional differentiation of bio-optical properties within the north polar Atlantic. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		34
51	Estimation of scattering error in spectrophotometric measurements of light absorption by aquatic particles from three-dimensional radiative transfer simulations. <i>Applied Optics</i> , <b>2003</b> , 42, 3634-46	1.7	34
50	Evaluation of the Quasi-Analytical Algorithm for estimating the inherent optical properties of seawater from ocean color: Comparison of Arctic and lower-latitude waters. <i>Remote Sensing of Environment</i> , <b>2014</b> , 155, 194-209	13.2	33
49	Estimation of the absorption and backscattering coefficients from in-water radiometric measurements. <i>Limnology and Oceanography</i> , <b>2000</b> , 45, 628-641	4.8	31
48	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. <i>Journal of Geophysical Research: Oceans</i> , <b>2015</b> , 120, 2601-2621	3.3	29
47	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. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 2141-2171	3.3	29
46	Shedding light on the sea: Andr�Morell's legacy to optical oceanography. <i>Annual Review of Marine Science</i> , <b>2014</b> , 6, 1-21	15.4	29
45	Optical classification and characterization of marine particle assemblages within the western Arctic Ocean. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, 1472-1494	4.8	29
44	A model based on stacked-constraints approach for partitioning the light absorption coefficient of seawater into phytoplankton and non-phytoplankton components. <i>Journal of Geophysical Research: Oceans</i> , <b>2013</b> , 118, 2155-2174	3.3	28
43	Effects of microbial particles on oceanic optics: Methodology for radiative transfer modeling and example simulations. <i>Limnology and Oceanography</i> , <b>1997</b> , 42, 550-560	4.8	26
42	Seasonal and interannual variability of particulate organic carbon within the Southern Ocean from satellite ocean color observations. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		25
41	The effect of nitrogen limitation on the absorption and scattering properties of the marine diatom <i>Thalassiosira pseudonana</i> . <i>Limnology and Oceanography</i> , <b>1997</b> , 42, 881-892	4.8	22
40	Why Should We Measure the Optical Backscattering Coefficient?. <i>Oceanography</i> , <b>2004</b> , 17, 44-49	2.3	22
39	Influence of forward and multiple light scatter on the measurement of beam attenuation in highly scattering marine environments. <i>Applied Optics</i> , <b>2004</b> , 43, 4723-31	1.7	21
38	Variability in light absorption and scattering of phytoplankton in Patagonian waters: Role of community size structure and pigment composition. <i>Journal of Geophysical Research: Oceans</i> , <b>2013</b> , 118, 698-714	3.3	20
37	Empirical ocean color algorithms for estimating particulate organic carbon in the Southern Ocean. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		19
36	Effect of Raman scattering on the average cosine and diffuse attenuation coefficient of irradiance in the ocean. <i>Limnology and Oceanography</i> , <b>1998</b> , 43, 564-576	4.8	18
35	Artifacts in measuring absorption spectra of phytoplankton collected on a filter. <i>Limnology and Oceanography</i> , <b>1990</b> , 35, 1804-1809	4.8	18

34	A model for partitioning the light absorption coefficient of suspended marine particles into phytoplankton and nonalgal components. <i>Journal of Geophysical Research: Oceans</i> , <b>2013</b> , 118, 2977-2993	3.3	17
33	Can heterotrophic bacteria be important to marine light absorption?. <i>Journal of Plankton Research</i> , <b>1998</b> , 20, 1489-1500	2.2	17
32	Effects of inelastic radiative processes on the determination of water-leaving spectral radiance from extrapolation of underwater near-surface measurements. <i>Applied Optics</i> , <b>2016</b> , 55, 7050-67	0.2	17
31	A Color-Index-Based Empirical Algorithm for Determining Particulate Organic Carbon Concentration in the Ocean From Satellite Observations. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 7407-7419	3.3	16
30	Measurements of the Volume Scattering Function and the Degree of Linear Polarization of Light Scattered by Contrasting Natural Assemblages of Marine Particles. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2690	2.6	15
29	Assessing the effects of particle size and composition on light scattering through measurements of size-fractionated seawater samples. <i>Limnology and Oceanography</i> , <b>2020</b> , 65, 173-190	4.8	14
28	Contrasting inherent optical properties and particle characteristics between an under-ice phytoplankton bloom and open water in the Chukchi Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2014</b> , 105, 59-73	2.3	13
27	The asymmetry of the underwater horizontal light field and its implications for mirror-based camouflage in silvery pelagic fish. <i>Limnology and Oceanography</i> , <b>2014</b> , 59, 1839-1852	4.8	13
26	Vertical changes in the probability distribution of downward irradiance within the near-surface ocean under sunny conditions. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		13
25	Small-scale effects of underwater bubble clouds on ocean reflectance: 3-D modeling results. <i>Optics Express</i> , <b>2009</b> , 17, 11747-52	3.3	13
24	Determination of the volume scattering function of aqueous particle suspensions with a laboratory multi-angle light scattering instrument. <i>Applied Optics</i> , <b>2012</b> , 51, 3853-73	1.7	12
23	Light scattering by pure water and seawater: the depolarization ratio and its variation with salinity. <i>Applied Optics</i> , <b>2019</b> , 58, 991-1004	1.7	11
22	Characterization of the solar light field within the ocean mesopelagic zone based on radiative transfer simulations. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2014</b> , 87, 53-69	2.5	10
21	Variations in the optical properties of a particle suspension associated with viral infection of marine bacteria. <i>Limnology and Oceanography</i> , <b>2010</b> , 55, 2317-2330	4.8	10
20	Effects of atmospheric particles from Southern California on the optical properties of seawater. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		10
19	Estimation of downward irradiance attenuation from a single moored instrument. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , <b>1992</b> , 39, 567-584		10
18	Changes in the optical properties of a particle suspension caused by protist grazing. <i>Journal of Plankton Research</i> , <b>1992</b> , 14, 961-977	2.2	9
17	Polarized light scattering measurements as a means to characterize particle size and composition of natural assemblages of marine particles. <i>Applied Optics</i> , <b>2020</b> , 59, 8314-8334	1.7	9

16	Patterns of suspended particulate matter across the continental margin in the Canadian Beaufort Sea during summer. <i>Biogeosciences</i> , <b>2019</b> , 16, 1583-1605	4.6	7
15	Inherent optical properties and particle characteristics of the sea-surface microlayer. <i>Progress in Oceanography</i> , <b>2019</b> , 176, 102117	3.8	7
14	Optical characterization of marine phytoplankton assemblages within surface waters of the western Arctic Ocean. <i>Limnology and Oceanography</i> , <b>2019</b> , 64, 2478-2496	4.8	6
13	Model for separating the contributions of non-algal particles and colored dissolved organic matter to light absorption by seawater. <i>Applied Optics</i> , <b>2019</b> , 58, 3790-3806	1.7	6
12	A global compilation of in situ aquatic high spectral resolution inherent and apparent optical property data for remote sensing applications. <i>Earth System Science Data</i> , <b>2020</b> , 12, 1123-1139	10.5	6
11	Evaluation of Particle Size Distribution Metrics to Estimate the Relative Contributions of Different Size Fractions Based on Measurements in Arctic Waters. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2020JC016218	3.3	5
10	Deep-sea low-light radiometer system. <i>Optics Express</i> , <b>2014</b> , 22, 30074-91	3.3	4
9	Characterization of the Light Field and Apparent Optical Properties in the Ocean Euphotic Layer Based on Hyperspectral Measurements of Irradiance Quartet. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2677	2.6	4
8	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. <i>Remote Sensing of Environment</i> , <b>2022</b> , 269, 112776	13.2	3
7	Within-day variability of particulate organic carbon and remote-sensing reflectance during a bloom of <i>Phaeocystis antarctica</i> in the Ross Sea, Antarctica. <i>International Journal of Remote Sensing</i> , <b>2014</b> , 35, 454-477	3.1	2
6	Variability in Oceanic Particle Size Distributions and Estimation of Size Class Contributions Using a Non-parametric Approach. <i>Journal of Geophysical Research: Oceans</i> , <b>2021</b> , 126, e2021JC017946	3.3	1
5	Polarized light scattering measurements as a means to characterize particle size and composition of natural assemblages of marine particles: publisher's note. <i>Applied Optics</i> , <b>2020</b> , 59, 9233	0.2	1
4	Characterization of suspended particulate matter in contrasting coastal marine environments with angle-resolved polarized light scattering measurements.. <i>Applied Optics</i> , <b>2021</b> , 60, 11161-11179	1.7	1
3	The MALINA oceanographic expedition: how do changes in ice cover, permafrost and UV radiation impact biodiversity and biogeochemical fluxes in the Arctic Ocean?. <i>Earth System Science Data</i> , <b>2021</b> , 13, 1561-1592	10.5	1
2	Polarized light scattering measurements as a means to characterize particle size and composition of natural assemblages of marine particles: erratum. <i>Applied Optics</i> , <b>2021</b> , 60, 380-382	1.7	1
1	Hyperspectral optical absorption closure experiment in complex coastal waters. <i>Limnology and Oceanography: Methods</i> , <b>2021</b> , 19, 589-625	2.6	0