Annick Bricaud

List of Publications by Year
in descending order

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Version: 2024-02-01

41 papers	8,304 citations	172457 29 h-index	276875 41 g-index
41 all docs	41 docs citations	41 times ranked	3970 citing authors

#	Article	IF	Citations
1	Absorption by dissolved organic matter of the sea (yellow substance) in the UV and visible domains1. Limnology and Oceanography, 1981, 26, 43-53.	3.1	1,258
2	Variability in the chlorophyll-specific absorption coefficients of natural phytoplankton: Analysis and parameterization. Journal of Geophysical Research, 1995, 100, 13321.	3.3	902
3	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, .	3.3	758
4	Theoretical results concerning light absorption in a discrete medium, and application to specific absorption of phytoplankton. Deep-sea Research Part A, Oceanographic Research Papers, 1981, 28, 1375-1393.	1.5	661
5	Variations of light absorption by suspended particles with chlorophyllaconcentration in oceanic (case 1) waters: Analysis and implications for bio-optical models. Journal of Geophysical Research, 1998, 103, 31033-31044.	3.3	555
6	Natural variability of phytoplanktonic absorption in oceanic waters: Influence of the size structure of algal populations. Journal of Geophysical Research, 2004, 109, .	3.3	429
7	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.	3.1	425
8	Optical properties of the â€œclearestâ€•natural waters. Limnology and Oceanography, 2007, 52, 217-229.	3.1	328
9	Modeling the inherent optical properties of the ocean based on the detailed composition of the planktonic community. Applied Optics, 2001, 40, 2929.	2.1	316
10	Optical efficiency factors of some phytoplankters1. Limnology and Oceanography, 1983, 28, 816-832.	3.1	290
11	Light attenuation and scattering by phytoplanktonic cells: a theoretical modeling. Applied Optics, 1986, 25, 571.	2.1	231
12	Nitrogen- and irradiance-dependent variations of the maximum quantum yield of carbon fixation in eutrophic, mesotrophic and oligotrophic marine systems. Deep-Sea Research Part I: Oceanographic Research Papers, 1996, 43, 1241-1272.	1.4	226
13	Optical properties of diverse phytoplanktonic species: experimental results and theoretical interpretation. Journal of Plankton Research, 1988, 10, 851-873.	1.8	194
14	Light backscattering efficiency and related properties of some phytoplankters. Deep-sea Research Part A, Oceanographic Research Papers, 1992, 39, 1835-1855.	1.5	192
15	Recommendations for obtaining unbiased chlorophyll estimates from in situ chlorophyll fluorometers: A global analysis of WET Labs ECO sensors. Limnology and Oceanography: Methods, 2017, 15, 572-585.	2.0	191
16	Obtaining Phytoplankton Diversity from Ocean Color: A Scientific Roadmap for Future Development. Frontiers in Marine Science, 2017, 4, .	2.5	133
17	Light absorption properties and absorption budget of Southeast Pacific waters. Journal of Geophysical Research, 2010, 115, .	3.3	130
18	Seasonal variability in the light absorption properties of western Arctic waters: Parameterization of the individual components of absorption for ocean color applications. Journal of Geophysical Research, 2011, 116, .	3.3	127

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19	A Consumer's Guide to Satellite Remote Sensing of Multiple Phytoplankton Groups in the Global Ocean. Frontiers in Marine Science, 2017, 4, .	2.5	115
20	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.	1.8	98
21	Spatial variations in the chlorophyll-specific absorption coefficients of phytoplankton and photosynthetically active pigments in the equatorial Pacific. Journal of Geophysical Research, 1997, 102, 12413-12423.	3.3	88
22	Decomposition of in situ particulate absorption spectra. Methods in Oceanography, 2013, 7, 110-124.	1.6	82
23	Seasonal dynamics of light absorption by chromophoric dissolved organic matter (CDOM) in the NW Mediterranean Sea (BOUSSOLE site). Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 91, 72-85.	1.4	66
24	Retrieval of pigment concentrations and size structure of algal populations from their absorption spectra using multilayered perceptrons. Applied Optics, 2007, 46, 1251.	2.1	60
25	Multivariate approach for the retrieval of phytoplankton size structure from measured light absorption spectra in the Mediterranean Sea (BOUSSOLE site). Applied Optics, 2013, 52, 2257.	1.8	59
26	Modeling the light attenuation and scattering by spherical phytoplanktonic cells: a retrieval of the bulk refractive index. Applied Optics, 1988, 27, 3954.	2.1	57
27	Assessing the Variability in the Relationship Between the Particulate Backscattering Coefficient and the Chlorophyll a Concentration From a Global Biogeochemicalâ€Argo Database. Journal of Geophysical Research: Oceans, 2018, 123, 1229-1250.	2.6	55
28	Bioâ€optical anomalies in the world's oceans: An investigation on the diffuse attenuation coefficients for downward irradiance derived from <scp>B</scp>iogeochemical <scp>A</scp>rgo float measurements. Journal of Geophysical Research: Oceans, 2017, 122, 3543-3564.	2.6	44
29	Spectral absorption and fluorescence excitation properties of phytoplanktonic populations at a mesotrophic and an oligotrophic site in the tropical North Atlantic (EUMELI program). Deep-Sea Research Part I: Oceanographic Research Papers, 1996, 43, 1215-1240.	1.4	33
30	Inversion of spectral absorption coefficients to infer phytoplankton size classes, chlorophyll concentration, and detrital matter. Applied Optics, 2015, 54, 5805.	2.1	28
31	Synergistic Exploitation of Hyper- and Multi-Spectral Precursor Sentinel Measurements to Determine Phytoplankton Functional Types (SynSenPFT). Frontiers in Marine Science, 2017, 4, .	2.5	28
32	Distribution of normalized waterâ€leaving radiances at UV and visible wave bands in relation with chlorophyll a and colored detrital matter content in the southeast Pacific. Journal of Geophysical Research, 2010, 115, .	3.3	26
33	On the discrimination of multiple phytoplankton groups from light absorption spectra of assemblages with mixed taxonomic composition and variable light conditions. Applied Optics, 2017, 56, 3952.	2.1	19
34	Light Absorption by Suspended Particles in the Red Sea: Effect of Phytoplankton Community Size Structure and Pigment Composition. Journal of Geophysical Research: Oceans, 2018, 123, 902-921.	2.6	19
35	A three-step semi analytical algorithm (3SAA) for estimating inherent optical properties over oceanic, coastal, and inland waters from remote sensing reflectance. Remote Sensing of Environment, 2021, 263, 112537.	11.0	18
36	Determination of the absorption coefficient of chromophoric dissolved organic matter from underway spectrophotometry. Optics Express, 2017, 25, A1079.	3.4	15

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37	Retrieval of Colored Detrital Matter (CDM) light absorption coefficients in the Mediterranean Sea using field and satellite ocean color radiometry: Evaluation of bio-optical inversion models. Remote Sensing of Environment, 2016, 186, 297-310.	11.0	14
38	Statistical analysis of a database of absorption spectra of phytoplankton and pigment concentrations using self-organizing maps. Applied Optics, 2006, 45, 8102.	2.1	12
39	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.	9.9	12
40	Simulation of Future Geostationary Ocean Color Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 173-182.	4.9	6
41	Biological production in two contrasted regions of the Mediterranean Sea during the oligotrophic period: an estimate based on the diel cycle of optical properties measured by BioGeoChemical-Argo profiling floats. Biogeosciences, 2022, 19, 1165-1194.	3.3	4