

Robert Frouin

List of Publications by Year in descending order

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102
papers

4,750
citations

94381

37
h-index

102432

66
g-index

105
all docs

105
docs citations

105
times ranked

5144
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Misclassification of Dust as Cloud at an AERONET Site in the Sonoran Desert. <i>Journal of Atmospheric and Oceanic Technology</i> , 2022, 39, 181-191.	0.5	7
2	System vicarious calibration of GCOM-C/SGLI visible and near-infrared channels. <i>Journal of Oceanography</i> , 2022, 78, 245-261.	0.7	5
3	The NASA EPIC/DSCOVR Ocean PAR Product. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	1.3	2
4	Spatial distribution patterns of coral reefs in the Abrolhos region (Brazil, South Atlantic ocean). <i>Continental Shelf Research</i> , 2022, 246, 104808.	0.9	5
5	Automatic Detection of Optical Signatures within and around Floating Tonga-Fiji Pumice Rafts Using MODIS, VIIRS, and OLCI Satellite Sensors. <i>Remote Sensing</i> , 2021, 13, 501.	1.8	7
6	Atmospheric Correction of Satellite Optical Imagery over the R�o de la Plata Highly Turbid Waters Using a SWIR-Based Principal Component Decomposition Technique. <i>Remote Sensing</i> , 2021, 13, 1050.	1.8	2
7	NASA's surface biology and geology designated observable: A perspective on surface imaging algorithms. <i>Remote Sensing of Environment</i> , 2021, 257, 112349.	4.6	148
8	Two-Step Algorithm for Sea Surface Temperature Determination. , 2021, , .		2
9	A New Algorithm to Estimate Diffuse Attenuation Coefficient from Secchi Disk Depth. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 558.	1.2	9
10	Impact of Contrasted Weather Conditions on CDOM Absorption/Fluorescence and Biogeochemistry in the Eastern Lagoon of New Caledonia. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	7
11	Evaluation of the NASA OBPG MERIS ocean surface PAR product in clear sky conditions. <i>Optics Express</i> , 2020, 28, 33157.	1.7	4
12	A Review of Protocols for Fiducial Reference Measurements of Downwelling Irradiance for the Validation of Satellite Remote Sensing Data over Water. <i>Remote Sensing</i> , 2019, 11, 1742.	1.8	37
13	An Ocean-Colour Time Series for Use in Climate Studies: The Experience of the Ocean-Colour Climate Change Initiative (OC-CCI). <i>Sensors</i> , 2019, 19, 4285.	2.1	239
14	Seasonal and Interannual Variability of Satellite�Derived Photosynthetically Available Radiation Over the Tropical Oceans. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3073-3088.	1.0	3
15	A Review of Protocols for Fiducial Reference Measurements of WaterLeaving Radiance for Validation of Satellite Remote-Sensing Data over Water. <i>Remote Sensing</i> , 2019, 11, 2198.	1.8	61
16	Sun Glint Mitigation for the SABIA-Mar Mission. , 2019, , .		0
17	On the Adequacy of Representing Water Reflectance by Semi-Analytical Models in Ocean Color Remote Sensing. <i>Remote Sensing</i> , 2019, 11, 2820.	1.8	7
18	A compilation of global bio-optical in situ data for ocean-colour satellite applications �� version two. <i>Earth System Science Data</i> , 2019, 11, 1037-1068.	3.7	43

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19	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems. <i>Ecological Applications</i> , 2018, 28, 749-760.	1.8	116
20	Evaluation of Semi-Analytical Algorithms to Retrieve Particulate and Dissolved Absorption Coefficients in Gulf of California Optically Complex Waters. <i>Remote Sensing</i> , 2018, 10, 1443.	1.8	5
21	Remote sensing of <i>Trichodesmium</i> spp. mats in the western tropical South Pacific. <i>Biogeosciences</i> , 2018, 15, 5203-5219.	1.3	9
22	Diazotrophic <i>Trichodesmium</i> impact on UV ^a radiance and pigment composition in the western tropical South Pacific. <i>Biogeosciences</i> , 2018, 15, 5249-5269.	1.3	17
23	Bio-Optical Characterization and Ocean Colour Inversion in the Eastern Lagoon of New Caledonia, South Tropical Pacific. <i>Remote Sensing</i> , 2018, 10, 1043.	1.8	18
24	Satellite Radiation Products for Ocean Biology and Biogeochemistry: Needs, State-of-the-Art, Gaps, Development Priorities, and Opportunities. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	30
25	Estimating GOCI daily PAR and validation. , 2018, , .		0
26	Spectral absorption by marine chromophoric dissolved organic matter: Laboratory determination and piecewise regression modeling. <i>Marine Chemistry</i> , 2017, 194, 10-21.	0.9	6
27	Water-leaving contribution to polarized radiation field over ocean. <i>Optics Express</i> , 2017, 25, A689.	1.7	30
28	A Statistical Algorithm for Estimating Chlorophyll Concentration in the New Caledonian Lagoon. <i>Remote Sensing</i> , 2016, 8, 45.	1.8	11
29	SWIR-based atmospheric correction for Satellite Ocean Color using Principal Component Analysis decomposition over the la Plata River highly turbid waters. , 2016, , .		1
30	Net primary productivity estimates and environmental variables in the Arctic Ocean: An assessment of coupled physical-biogeochemical models. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 8635-8669.	1.0	34
31	Bio-optical characteristics along the Straits of Magallanes. <i>Continental Shelf Research</i> , 2016, 119, 56-67.	0.9	11
32	Evaluation of satellite-based algorithms to estimate photosynthetically available radiation (PAR) reaching the ocean surface at high northern latitudes. <i>Remote Sensing of Environment</i> , 2016, 184, 199-211.	4.6	31
33	Estimating photosynthetically available radiation at the ocean surface for primary production (3P) Tj ETQq1 1 0.784314 rgBT _g /Overlo		
34	A compilation of global bio-optical in situ data for ocean-colour satellite applications. <i>Earth System Science Data</i> , 2016, 8, 235-252.	3.7	56
35	Bayesian methodology for inverting satellite ocean-color data. <i>Remote Sensing of Environment</i> , 2015, 159, 332-360.	4.6	26
36	Water Column Correction for Coral Reef Studies by Remote Sensing. <i>Sensors</i> , 2014, 14, 16881-16931.	2.1	79

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37	Ocean-color radiometry across the Southern Atlantic and Southeastern Pacific: Accuracy and remote sensing implications. <i>Remote Sensing of Environment</i> , 2014, 149, 13-32.	4.6	23
38	Bio-Optical Characteristics of the Northern Gulf of California during June 2008. <i>International Journal of Oceanography</i> , 2014, 2014, 1-13.	0.2	6
39	A time series of photosynthetically available radiation at the ocean surface from SeaWiFS and MODIS data. <i>Proceedings of SPIE</i> , 2012, , .	0.8	43
40	Estimating photosynthetically available radiation at the ocean surface from GOCI data. <i>Ocean Science Journal</i> , 2012, 47, 313-321.	0.6	29
41	Inherent optical properties and satellite retrieval of chlorophyll concentration in the lagoon and open ocean waters of New Caledonia. <i>Marine Pollution Bulletin</i> , 2010, 61, 503-518.	2.3	57
42	Seasonal forcing of summer dissolved inorganic carbon and chlorophyll <i>a</i> on the western shelf of the Antarctic Peninsula. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
43	Estimating the altitude of aerosol plumes over the ocean from reflectance ratio measurements in the O2 A-band. <i>Remote Sensing of Environment</i> , 2009, 113, 1899-1911.	4.6	75
44	Consistency of Ridge Function Fields for Varying Nonparametric Regression. <i>Communications in Statistics - Theory and Methods</i> , 2009, 38, 1272-1283.	0.6	0
45	Ocean color response to an episode of heavy rainfall in the lagoon of New Caledonia. , 2009, , .		7
46	A general ocean color atmospheric correction scheme based on principal components analysis: Part I. Performance on Case 1 and Case 2 waters. , 2007, 6680, 9.		9
47	Constrained linear inversion of satellite ocean-color data. <i>Proceedings of SPIE</i> , 2007, 6680, 33.	0.8	0
48	Fields of non-linear regression models for atmospheric correction of satellite ocean-color imagery. <i>Remote Sensing of Environment</i> , 2007, 111, 450-465.	4.6	7
49	Estimating photosynthetically available radiation at the ocean surface from ADEOS-II global imager data. <i>Journal of Oceanography</i> , 2007, 63, 493-503.	0.7	93
50	Evaluation of ADEOS-II GLI ocean color atmospheric correction using SIMBADA handheld radiometer data. <i>Journal of Oceanography</i> , 2007, 63, 533-543.	0.7	6
51	Remote sensing of phytoplankton chlorophyll-a concentration by use of ridge function fields. <i>Applied Optics</i> , 2006, 45, 784.	2.1	8
52	Retrieval of chlorophyll-a concentration via linear combination of ADEOS-II Global Imager data. <i>Journal of Oceanography</i> , 2006, 62, 331-337.	0.7	23
53	Validation of ADEOS-II GLI ocean color products using in-situ observations. <i>Journal of Oceanography</i> , 2006, 62, 373-393.	0.7	22
54	Progressive atmospheric correction of satellite ocean-color imagery. , 2006, , .		0

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55	Toward aerosol optical depth retrievals over land from GOES visible radiances: determining surface reflectance. <i>International Journal of Remote Sensing</i> , 2005, 26, 4097-4116.	1.3	105
56	Evaluation of SeaWiFS chlorophyll <i>a</i> in the Black and Mediterranean Seas. <i>International Journal of Remote Sensing</i> , 2005, 26, 2045-2060.	1.3	26
57	Maritime aerosol optical thickness measured by handheld sun photometers. <i>Remote Sensing of Environment</i> , 2004, 93, 87-106.	4.6	104
58	Regional evaluation of an advanced very high resolution radiometer (AVHRR) two-channel aerosol retrieval algorithm. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	26
59	Environmental snapshots from ACE-Asia. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	42
60	Fields of nonlinear regression models for inversion of satellite data. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	6
61	Water vapor retrieval over ocean using near-infrared radiometry. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	52
62	SIMBAD: a field radiometer for satellite ocean-color validation. <i>Applied Optics</i> , 2004, 43, 4055.	2.1	46
63	Maritime component in aerosol optical models derived from Aerosol Robotic Network data. <i>Journal of Geophysical Research</i> , 2003, 108, AAC 14-1.	3.3	115
64	Influence of submicron absorptive aerosol on Sea-viewing Wide Field-of-view Sensor (SeaWiFS)-derived marine reflectance during Aerosol Characterization Experiment (ACE)-Asia. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	20
65	Atmospheric response to solar radiation absorbed by phytoplankton. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	44
66	Potential Feedbacks Between Pacific Ocean Ecosystems and Interdecadal Climate Variations. <i>Bulletin of the American Meteorological Society</i> , 2003, 84, 617-634.	1.7	55
67	Influence of phytoplankton on the global radiation budget. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 5-1.	3.3	25
68	Seasonal and inter-annual variability of particulate organic matter in the global ocean. <i>Geophysical Research Letters</i> , 2002, 29, 49-1-49-4.	1.5	85
69	Chlorophyll modulation of mixed layer thermodynamics in a mixed-layer isopycnal General Circulation Model " An example from Arabian Sea and equatorial Pacific. <i>Journal of Earth System Science</i> , 2002, 111, 339-349.	0.6	2
70	Biospheric Primary Production During an ENSO Transition. <i>Science</i> , 2001, 291, 2594-2597.	6.0	523
71	Response of the equatorial Pacific to chlorophyll pigment in a mixed layer isopycnal ocean general circulation model. <i>Geophysical Research Letters</i> , 2001, 28, 2021-2024.	1.5	108
72	Influence of oceanic whitecaps on the Global Radiation Budget. <i>Geophysical Research Letters</i> , 2001, 28, 1523-1526.	1.5	38

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73	Spectral reflectance of oceanic whitecaps in the visible and near infrared: Aircraft measurements over open ocean. <i>Geophysical Research Letters</i> , 2001, 28, 4445-4448.	1.5	23
74	Satellite-Derived Surface Radiation Budget over the African Continent. Part II: Climatologies of the Various Components. <i>Journal of Climate</i> , 2001, 14, 60-76.	1.2	33
75	Satellite-Derived Surface Radiation Budget over the African Continent. Part I: Estimation of Downward Solar Irradiance and Albedo. <i>Journal of Climate</i> , 2001, 14, 45-58.	1.2	18
76	A Study of Global Aerosol Optical Climatology with Two-Channel AVHRR Remote Sensing. <i>Journal of Climate</i> , 2000, 13, 2011-2027.	1.2	77
77	Airborne lidar measurements of aerosol spatial distribution and optical properties over the Atlantic Ocean during a European pollution outbreak of ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 662-677.	0.8	27
78	Chlorophyll modulation of sea surface temperature in the Arabian Sea in a mixed-layer isopycnal general circulation model. <i>Geophysical Research Letters</i> , 2000, 27, 747-750.	1.5	62
79	Artificial neural networks for modeling the transfer function between marine reflectance and phytoplankton pigment concentration. <i>Journal of Geophysical Research</i> , 2000, 105, 3483-3495.	3.3	76
80	Early phase analysis of OCTS radiance data for aerosol remote sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1999, 37, 1575-1585.	2.7	18
81	Vicarious calibration of the POLDER ocean color spectral bands using in situ measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1999, 37, 1567-1574.	2.7	21
82	Applying artificial neural network methodology to ocean color remote sensing. <i>Ecological Modelling</i> , 1999, 120, 237-246.	1.2	53
83	Reduction of skylight reflection effects in the above-water measurement of diffuse marine reflectance. <i>Applied Optics</i> , 1999, 38, 3844.	2.1	86
84	Coverage opportunities for global ocean color in a multimission era. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998, 36, 1620-1627.	2.7	50
85	Spectral reflectance of sea foam in the visible and near-infrared: In situ measurements and remote sensing implications. <i>Journal of Geophysical Research</i> , 1996, 101, 14361-14371.	3.3	211
86	Estimating Photosynthetically Active Radiation (PAR) at the earth's surface from satellite observations. <i>Remote Sensing of Environment</i> , 1995, 51, 98-107.	4.6	221
87	A review of satellite methods to derive surface shortwave irradiance. <i>Remote Sensing of Environment</i> , 1995, 51, 108-124.	4.6	228
88	Radiometric calibration of GOES-7 VISSR solar channels during the GOES pathfinder benchmark period. <i>Remote Sensing of Environment</i> , 1995, 52, 95-115.	4.6	15
89	Methodology for estimating burned area from AVHRR reflectance data. <i>Remote Sensing of Environment</i> , 1995, 54, 273-289.	4.6	46
90	Global Shortwave Energy Budget at the Earth's Surface from ERBE Observations. <i>Journal of Climate</i> , 1994, 7, 309-324.	1.2	16

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91	A Technique for Global Monitoring of Net Solar Irradiance at the Ocean Surface. Part I: Model. Journal of Applied Meteorology and Climatology, 1992, 31, 1056-1066.	1.7	50
92	Upscale integration of normalized difference vegetation index: the problem of spatial heterogeneity. IEEE Transactions on Geoscience and Remote Sensing, 1992, 30, 326-338.	2.7	57
93	Global Monitoring of Net Solar Irradiance at the Ocean Surface: Climatological Variability and the 1982-1983 El Niño. Journal of Climate, 1991, 4, 639-650.	1.2	23
94	A simple analytical formula to compute clear sky total and photosynthetically available solar irradiance at the ocean surface. Journal of Geophysical Research, 1989, 94, 9731-9742.	3.3	145
95	An attempt to remotely sense from space the surface heat budget over the Indian Ocean during the 1979 Monsoon. Geophysical Research Letters, 1988, 15, 1121-1124.	1.5	7
96	Relation between photosynthetically available radiation and total insolation at the ocean surface under clear skies. Limnology and Oceanography, 1987, 32, 1370-1377.	1.6	97
97	Calibration of NOAA-7 AVHRR, GOES-5, and GOES-6 VISSR/VAS solar channels. Remote Sensing of Environment, 1987, 22, 73-101.	4.6	67
98	Large Diurnal Heating of the Sea Surface Observed by the HCMR Experiment. Journal of Physical Oceanography, 1984, 14, 177-184.	0.7	38
99	Satellite Determination of the Mesoscale Variability of the Sea Surface Temperature. Journal of Physical Oceanography, 1981, 11, 864-870.	0.7	46
100	Self-organized mapping of aerosol mixtures at aeronet coastal and island sites. , 0, , .		0
101	Water vapor retrieval over ocean using POLDER near-IR channels. , 0, , .		0
102	Measurements of a Dusty Density Current in the Western Sonoran Desert. Journal of Geophysical Research D: Atmospheres, 0, , .	1.2	0