

Heidi Dierssen

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,557
citations

394421

19
h-index

552781

26
g-index

29
all docs

29
docs citations

29
times ranked

2164
citing authors

#	ARTICLE	IF	CITATIONS
1	Ocean color remote sensing of seagrass and bathymetry in the Bahamas Banks by high-resolution airborne imagery. <i>Limnology and Oceanography</i> , 2003, 48, 444-455.	3.1	236
2	NASA's surface biology and geology designated observable: A perspective on surface imaging algorithms. <i>Remote Sensing of Environment</i> , 2021, 257, 112349.	11.0	148
3	Perspectives on empirical approaches for ocean color remote sensing of chlorophyll in a changing climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17073-17078.	7.1	144
4	Red and black tides: Quantitative analysis of water-leaving radiance and perceived color for phytoplankton, colored dissolved organic matter, and suspended sediments. <i>Limnology and Oceanography</i> , 2006, 51, 2646-2659.	3.1	125
5	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems. <i>Ecological Applications</i> , 2018, 28, 749-760.	3.8	116
6	Atmospheric Correction of Satellite Ocean-Color Imagery During the PACE Era. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	98
7	A regional comparison of particle size distributions and the power law approximation in oceanic and estuarine surface waters. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	84
8	Portable Remote Imaging Spectrometer coastal ocean sensor: design, characteristics, and first flight results. <i>Applied Optics</i> , 2014, 53, 1363.	1.8	81
9	Evaluating Light Availability, Seagrass Biomass, and Productivity Using Hyperspectral Airborne Remote Sensing in Saint Joseph's Bay, Florida. <i>Estuaries and Coasts</i> , 2014, 37, 1467-1489.	2.2	55
10	Potential export of unattached benthic macroalgae to the deep sea through wind-driven Langmuir circulation. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	49
11	Optics and remote sensing of Bahamian carbonate sediment whittings and potential relationship to wind-driven Langmuir circulation. <i>Biogeosciences</i> , 2009, 6, 487-500.	3.3	45
12	A physics-based method for the remote sensing of seagrasses. <i>Remote Sensing of Environment</i> , 2016, 174, 134-147.	11.0	45
13	Living up to the Hype of Hyperspectral Aquatic Remote Sensing: Science, Resources and Outlook. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	39
14	Impacts of coal dust from an active mine on the spectral reflectance of Arctic surface snow in Svalbard, Norway. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1767-1778.	3.3	28
15	The Optical Properties of Greater Florida Bay: Implications for Seagrass Abundance. <i>Estuaries and Coasts</i> , 2011, 34, 1150-1160.	2.2	27
16	Hyperspectral Measurements, Parameterizations, and Atmospheric Correction of Whitecaps and Foam From Visible to Shortwave Infrared for Ocean Color Remote Sensing. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	26
17	Use of Hyperspectral Imagery to Assess Cryptic Color Matching in Sargassum Associated Crabs. <i>PLoS ONE</i> , 2015, 10, e0136260.	2.5	23
18	Spectral characterization, radiative forcing and pigment content of coastal Antarctic snow algae: approaches to spectrally discriminate red and green communities and their impact on snowmelt. <i>Cryosphere</i> , 2021, 15, 133-148.	3.9	22

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19	Remote Sensing of Seagrass Leaf Area Index and Species: The Capability of a Model Inversion Method Assessed by Sensitivity Analysis and Hyperspectral Data of Florida Bay. <i>Frontiers in Marine Science</i> , 0, 4, .	2.5	21
20	Extending Landsat 8: Retrieval of an Orange contra-Band for Inland Water Quality Applications. <i>Remote Sensing</i> , 2020, 12, 637.	4.0	20
21	Benthic classification and IOP retrievals in shallow water environments using MERIS imagery. <i>Remote Sensing of Environment</i> , 2020, 249, 112015.	11.0	19
22	The Influence of a Sandy Substrate, Seagrass, or Highly Turbid Water on Albedo and Surface Heat Flux. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 53-73.	2.6	17
23	Remote Sensing of Ocean Color. , 2013, , 439-472.		16
24	Water Column Optical Properties of Pacific Coral Reefs Across Geomorphic Zones and in Comparison to Offshore Waters. <i>Remote Sensing</i> , 2019, 11, 1757.	4.0	16
25	Pushing the Limits of Seagrass Remote Sensing in the Turbid Waters of Elkhorn Slough, California. <i>Remote Sensing</i> , 2019, 11, 1664.	4.0	15
26	Uncertainty in global downwelling plane irradiance estimates from sintered polytetrafluoroethylene plaque radiance measurements. <i>Applied Optics</i> , 2019, 58, 4497.	1.8	13
27	Influence of Three-Dimensional Coral Structures on Hyperspectral Benthic Reflectance and Water-Leaving Reflectance. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2688.	2.5	12
28	QWIP: A Quantitative Metric for Quality Control of Aquatic Reflectance Spectral Shape Using the Apparent Visible Wavelength. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	3.5	9
29	Bright Oceans: Spectral Differentiation of Whitecaps, Sea Ice, Plastics, and Other Flotsam. , 2020, , 197-208.		8