emmanuel Devred

List of Publications by Year
in descending order

53 papers	3,182 citations	218677 26 h-index	197818 49 g-index
55 all docs	55 docs citations	55 times ranked	3742 citing authors

#	Article	IF	Citations
1	Comparing Sentinel-2 and WorldView-3 Imagery for Coastal Bottom Habitat Mapping in Atlantic Canada. Remote Sensing, 2022, 14, 1254.	4.0	8
2	Decadal changes in Arctic Ocean Chlorophyll a: Bridging ocean color observations from the 1980s to present time. Remote Sensing of Environment, 2022, 275, 113020.	11.0	12
3	Using satellite remote sensing to improve the prediction of scallop condition in their natural environment: Case study for Georges Bank, Canada. Remote Sensing of Environment, 2021, 254, 112251.	11.0	4
4	Enhanced chlorophyll-<i>a</i> concentration in the wake of Sable Island, eastern Canada, revealed by two decades of satellite observations: a response to grey seal population dynamics?. Biogeosciences, 2021, 18, 6115-6132.	3.3	0
5	Faster Atlantic currents drive poleward expansion of temperate phytoplankton in the Arctic Ocean. Nature Communications, 2020, 11, 1705.	12.8	128
6	Branching Algorithm to Identify Bottom Habitat in the Optically Complex Coastal Waters of Atlantic Canada Using Sentinel-2 Satellite Imagery. Frontiers in Environmental Science, 2020, 8, .	3.3	12
7	Decadal increase in Arctic dimethylsulfide emission. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19311-19317.	7.1	61
8	MDPI Oceans: A New Publication Channel for Open Access Science Focused on the Ocean. Oceans, 2019, 1, 1-5.	1.3	1
9	Evaluation of Satellite-Based Algorithms to Retrieve Chlorophyll-a Concentration in the Canadian Atlantic and Pacific Oceans. Remote Sensing, 2019, 11, 2609.	4.0	17
10	Lipids at the plantâ€“animal interface: a stable isotope labelling method to evaluate the assimilation of essential fatty acids in the marine copepod Calanus finmarchicus. Journal of Plankton Research, 2019, 41, 909-924.	1.8	9
11	A simple and effective method for monitoring floating green macroalgae blooms: a case study in the Yellow Sea. Optics Express, 2019, 27, 4528.	3.4	16
12	Development of a conceptual warning system for toxic levels of Alexandrium fundyense in the Bay of Fundy based on remote sensing data. Remote Sensing of Environment, 2018, 211, 413-424.	11.0	8
13	Sea-surface dimethylsulfide (DMS) concentration from satellite data at global and regional scales. Biogeosciences, 2018, 15, 3497-3519.	3.3	50
14	Northward Expansion and Intensification of Phytoplankton Growth During the Early Iceâ€Free Season in Arctic. Geophysical Research Letters, 2018, 45, 10,590.	4.0	55
15	Satellite remote-sensing observations for definitions of areas for marine conservation: Case study of the Scotian Slope, Eastern Canada. Remote Sensing of Environment, 2018, 214, 33-47.	11.0	6
16	Chlorophyll-a Concentration Retrieval in the Optically Complex Waters of the St. Lawrence Estuary and Gulf Using Principal Component Analysis. Remote Sensing, 2018, 10, 265.	4.0	19
17	Remote Sensing of Phytoplankton Size Class in Northwest Atlantic from 1998 to 2016: Bio-Optical Algorithms Comparison and Application. Remote Sensing, 2018, 10, 1028.	4.0	10
18	Estimation of phytoplankton taxonomic groups in the Arctic Ocean using phytoplankton absorption properties: implication for ocean-color remote sensing. Optics Express, 2018, 26, 32280.	3.4	10

#	ARTICLE	IF	CITATIONS
19	Shelfâ€basin gradients shape ecological phytoplankton niches and community composition in the coastal Arctic Ocean (Beaufort Sea). Limnology and Oceanography, 2017, 62, 2113-2132.	3.1	50
20	Effects of increase glacier discharge on phytoplankton bloom dynamics and pelagic geochemistry in a high Arctic fjord. Progress in Oceanography, 2017, 159, 195-210.	3.2	46
21	Advection, Surface Area, and Sediment Load of the Fraser River Plume Under Variable Wind and River Forcing. Atmosphere - Ocean, 2017, 55, 293-313.	1.6	14
22	Enhanced sea surface temperature due to kelp canopies. Marine Ecology - Progress Series, 2017, 581, 103-117.	1.9	0
23	CDOM Sources and Photobleaching Control Quantum Yields for Oceanic DMS Photolysis. Environmental Science & Technology, 2016, 50, 13361-13370.	10.0	22
24	An assessment of phytoplankton primary productivity in the Arctic Ocean from satellite ocean color/in situ chlorophyllâ€a based models. Journal of Geophysical Research: Oceans, 2015, 120, 6508-6541.	2.6	90
25	A 50 % increase in the mass of terrestrial particles delivered by the Mackenzie River into the Beaufort Sea (Canadian Arctic Ocean) over the last 10 years. Biogeosciences, 2015, 12, 3551-3565.	3.3	51
26	A remote sensing algorithm for planktonic dimethylsulfoniopropionate (DMSP) and an analysis of global patterns. Remote Sensing of Environment, 2015, 171, 171-184.	11.0	80
27	The Ocean Colour Climate Change Initiative: III. A round-robin comparison on in-water bio-optical algorithms. Remote Sensing of Environment, 2015, 162, 271-294.	11.0	161
28	Estimating concentrations of essential omega-3 fatty acids in the ocean: supply and demand. ICES Journal of Marine Science, 2014, 71, 1885-1893.	2.5	37
29	Recent Arctic Ocean sea ice loss triggers novel fall phytoplankton blooms. Geophysical Research Letters, 2014, 41, 6207-6212.	4.0	306
30	Ecosystem function and particle flux dynamics across the Mackenzie Shelf (Beaufort Sea, Arctic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 2833-2866.	3.3	42
31	Generalized ocean color inversion model for retrieving marine inherent optical properties. Applied Optics, 2013, 52, 2019.	1.8	366
32	Parameterization of vertical chlorophyll <i>a</i> in the Arctic Ocean: impact of the subsurface chlorophyll maximum on regional, seasonal, and annual primary production estimates. Biogeosciences, 2013, 10, 4383-4404.	3.3	156
33	Future Retrievals of Water Column Bio-Optical Properties using the Hyperspectral Infrared Imager (HysplRI). Remote Sensing, 2013, 5, 6812-6837.	4.0	57
34	Variation in ocean colour may help predict cod and haddock recruitment. Marine Ecology - Progress Series, 2013, 491, 187-197.	1.9	15
35	An intercomparison of bio-optical techniques for detecting dominant phytoplankton size class from satellite remote sensing. Remote Sensing of Environment, 2011, 115, 325-339.	11.0	138
36	A three component classification of phytoplankton absorption spectra: Application to ocean-color data. Remote Sensing of Environment, 2011, 115, 2255-2266.	11.0	126

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37	Regional-scale changes in diatom distribution in the Humboldt upwelling system as revealed by remote sensing: implications for fisheries. ICES Journal of Marine Science, 2011, 68, 729-736.	2.5	25
38	Diagnostic Properties of Phytoplankton Time Series from Remote Sensing. Estuaries and Coasts, 2010, 33, 428-439.	2.2	48
39	Seasonal and geographic variations in phytoplankton losses from the mixed layer on the Northwest Atlantic Shelf. Journal of Marine Systems, 2010, 80, 36-46.	2.1	14
40	Decadal changes in ecological provinces of the Northwest Atlantic Ocean revealed by satellite observations. Geophysical Research Letters, 2009, 36, .	4.0	23
41	Operational estimation of primary production at large geographical scales. Remote Sensing of Environment, 2008, 112, 3437-3448.	11.0	67
42	Remote sensing of phytoplankton functional types. Remote Sensing of Environment, 2008, 112, 3366-3375.	11.0	207
43	A summer phytoplankton bloom triggered by high wind events in the Labrador Sea, July 2006. Geophysical Research Letters, 2008, 35, .	4.0	17
44	Possible biogeochemical response to the passage of Hurricane Fabian observed by satellites. Journal of Plankton Research, 2007, 29, 687-697.	1.8	23
45	Seasonal pigment patterns of surface phytoplankton in the subtropical southern hemisphere. Deep-Sea Research Part I: Oceanographic Research Papers, 2007, 54, 1687-1703.	1.4	65
46	Relationship between the Q factor and inherent optical properties: Relevance to oceanâ€colour inversion algorithms. Geophysical Research Letters, 2007, 34, .	4.0	3
47	Delineation of ecological provinces using ocean colour radiometry. Marine Ecology - Progress Series, 2007, 346, 1-13.	1.9	110
48	Computation of primary production from remote sensing of ocean colour at the northwestern Atlantic C-SOLAS Lagrangian site. Marine Ecology - Progress Series, 2007, 352, 27-38.	1.9	9
49	A two-component model of phytoplankton absorption in the open ocean: Theory and applications. Journal of Geophysical Research, 2006, 111, .	3.3	118
50	Physical forcing and phytoplankton distributions. Scientia Marina, 2005, 69, 55-73.	0.6	65
51	Discrimination of diatoms from other phytoplankton using ocean-colour data. Marine Ecology - Progress Series, 2004, 272, 59-68.	1.9	200
52	Environmental drivers of beluga whales distribution in a changing climate: A case study of summering aggregations in the Mackenzie Estuary and Tarium Niryutait Marine Protected Area. Arctic Science, 0, , .	2.3	2
53	Delineation of Eastern Beaufort Sea Sub-regions Using Self-Organizing Maps Applied to 17 Years of MODIS-Aqua Data. Frontiers in Marine Science, 0, 9, .	2.5	2