Antoine Collin

List of Publications by Year
in descending order

61 papers	1,229 citations	430442 18 h-index	395343 33 g-index
63 all docs	63 docs citations	63 times ranked	1631 citing authors

#	Article	IF	Citations
1	Mapping coral reefs using consumer-grade drones and structure from motion photogrammetry techniques. Coral Reefs, 2017, 36, 269-275.	0.9	211
2	Coral reef structural complexity provides important coastal protection from waves under rising sea levels. Science Advances, 2018, 4, eaao4350.	4.7	145
3	Mapping the Shallow Water Seabed Habitat With the SHOALS. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2947-2955.	2.7	79
4	Salt-marsh characterization, zonation assessment and mapping through a dual-wavelength LiDAR. Remote Sensing of Environment, 2010, 114, 520-530.	4.6	59
5	Very high resolution mapping of coral reef state using airborne bathymetric LiDAR surface-intensity and drone imagery. International Journal of Remote Sensing, 2018, 39, 5676-5688.	1.3	53
6	Towards Deeper Measurements of Tropical Reefscape Structure Using the WorldView-2 Spaceborne Sensor. Remote Sensing, 2012, 4, 1425-1447.	1.8	48
7	Mapping social–ecological vulnerability to inform local decision making. Conservation Biology, 2018, 32, 447-456.	2.4	43
8	Predicting Species Diversity of Benthic Communities within Turbid Nearshore Using Full-Waveform Bathymetric LiDAR and Machine Learners. PLoS ONE, 2011, 6, e21265.	1.1	43
9	Combining participatory and socioeconomic approaches to map fishing effort in small-scale fisheries. PLoS ONE, 2017, 12, e0176862.	1.1	43
10	Merging land-marine realms: Spatial patterns of seamless coastal habitats using a multispectral LiDAR. Remote Sensing of Environment, 2012, 123, 390-399.	4.6	39
11	Space and time matter in social-ecological vulnerability assessments. Marine Policy, 2018, 88, 213-221.	1.5	28
12	Enhancing Coral Health Detection Using Spectral Diversity Indices from WorldView-2 Imagery and Machine Learners. Remote Sensing, 2012, 4, 3244-3264.	1.8	26
13	Improving Intertidal Reef Mapping Using UAV Surface, Red Edge, and Near-Infrared Data. Drones, 2019, 3, 67.	2.7	26
14	Mapping VHR Water Depth, Seabed and Land Cover Using Google Earth Data. ISPRS International Journal of Geo-Information, 2014, 3, 1157-1179.	1.4	25
15	High resolution topobathymetry using a Pleiades-1 triplet: Moorea Island in 3D. Remote Sensing of Environment, 2018, 208, 109-119.	4.6	25
16	Very High-Resolution Satellite-Derived Bathymetry and Habitat Mapping Using Pleiades-1 and ICESat-2. Remote Sensing, 2022, 14, 133.	1.8	24
17	VHR coastal bathymetry using WorldView-3: colour versus learner. Remote Sensing Letters, 2017, 8, 1072-1081.	0.6	22
18	Satellite-based salt marsh elevation, vegetation height, and species composition mapping using the superspectral WorldView-3 imagery. International Journal of Remote Sensing, 2018, 39, 5619-5637.	1.3	22

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19	Long-term coastline monitoring on a coral reef island (Moorea, French Polynesia). Ocean and Coastal Management, 2019, 180, 104928.	2.0	20
20	Very high-resolution mapping of emerging biogenic reefs using airborne optical imagery and neural network: the honeycomb worm (<i>Sabellaria alveolata</i>) case study. International Journal of Remote Sensing, 2018, 39, 5660-5675.	1.3	18
21	Morpho–Sedimentary Monitoring in a Coastal Area, from 1D to 2.5D, Using Airborne Drone Imagery. Drones, 2019, 3, 62.	2.7	16
22	Simulating social-ecological systems: the Island Digital Ecosystem Avatars (IDEA) consortium. GigaScience, 2016, 5, 14.	3.3	15
23	Morphology of fore-reef slopes and terraces, Takapoto Atoll (Tuamotu Archipelago, French Polynesia,) Tj ETQq1 1 0.784314 rgBT /Overl	0.9	14
24	What optech&#x2019;s bathymetric LiDAR sees underwater. , 2007, , .		13
25	Benthic Classifications Using Bathymetric LIDAR Waveforms and Integration of Local Spatial Statistics and Textural Features. Journal of Coastal Research, 2011, 62, 86-98.	0.1	13
26	Spatial location and ecological content of support vectors in an SVM classification of tropical vegetation. Remote Sensing Letters, 2013, 4, 686-695.	0.6	13
27	Bridging Ridge-to-Reef Patches: Seamless Classification of the Coast Using Very High Resolution Satellite. Remote Sensing, 2013, 5, 3583-3610.	1.8	12
28	High Resolution Shoreline and Shelly Ridge Monitoring over Stormy Winter Events: A Case Study in the Megatidal Bay of Mont-Saint-Michel (France). Journal of Marine Science and Engineering, 2019, 7, 97.	1.2	11
29	Classification of Land-Water Continuum Habitats Using Exclusively Airborne Topobathymetric Lidar Green Waveforms and Infrared Intensity Point Clouds. Remote Sensing, 2022, 14, 341.	1.8	11
30	Understanding Interactions between Shoreline Changes and Reef Outer Slope Morphometry on Takapoto Atoll (French Polynesia). Journal of Coastal Research, 2018, 85, 496-500.	0.1	10
31	Spatiotemporal Trends of Bora Bora's Shoreline Classification and Movement Using High-Resolution Imagery from 1955 to 2019. Remote Sensing, 2021, 13, 4692.	1.8	9
32	What is the value added of 4 bands within the submetric remote sensing of tropical coastscape? QuickBird-2 vs WorldView-2. , 2011, , .		8
33	Using Multispectral Drone Imagery for Spatially Explicit Modeling of Wave Attenuation through a Salt Marsh Meadow. Drones, 2020, 4, 25.	2.7	8
34	Towards Better Mapping of Seagrass Meadows using UAV Multispectral and Topographic Data. Journal of Coastal Research, 2020, 95, 1117.	0.1	7
35	Using Modern Conservation Tools for Innovative Management of Coral Reefs: The MANACO Consortium. Frontiers in Marine Science, 2020, 7, .	1.2	6
36	Satellite–Derived Topography and Morphometry for VHR Coastal Habitat Mapping: The Pleiades–1 Tri–Stereo Enhancement. Remote Sensing, 2022, 14, 219.	1.8	6

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37	Revealing the regime of shallow coral reefs at patch scale by continuous spatial modeling. Frontiers in Marine Science, 2014, 1, .	1.2	5
38	Mapping Sub-Metre 3D Land-Sea Coral Reefscapes Using Superspectral WorldView-3 Satellite Stereoimagery. Oceans, 2021, 2, 315-329.	0.6	5
39	Towards 3D Mapping of Seagrass Meadows with Topo-Bathymetric Lidar Full Waveform Processing. , 2021, , .		5
40	Mapping the Socio-Economic and Ecological Resilience of Japanese Coral Reefscapes across a Decade. ISPRS International Journal of Geo-Information, 2015, 4, 900-927.	1.4	4
41	Modelling 2D Coastal Flooding at Fine-scale Over Vulnerable Lowlands using Satellite-derived Topobathymetry, Hydrodynamic and Overflow Simulations. Journal of Coastal Research, 2020, 95, 1052.	0.1	4
42	Mapping Nature-based Marine Flooding Risk using VHR Wave, Airborne LiDAR and Satellite Imagery: The Case Study of the Dol Marsh (Bay of Mont-Saint-Michel, France). Journal of Coastal Research, 2020, 95, 743.	0.1	4
43	High-energy events, boulder deposits and the use of very high resolution remote sensing in coral reef environments. Journal of Coastal Research, 2013, 65, 690-695.	0.1	3
44	Wave attenuation and Coastal Protection by Shelly Ridges: Mont-Saint-Michel Bay, France. Journal of Coastal Research, 2016, 75, 398-402.	0.1	3
45	Modelling Saltmarsh Spatial Evolution at High Resolution from 1948 to 2100 (Beaussais's Bay, France). Journal of Coastal Research, 2018, 85, 676-680.	0.1	3
46	Characterisation of long-term evolution (1950â€"2016) and vulnerability of Mayotteâ€™s shoreline using aerial photographs and a multidisciplinary vulnerability index. Regional Studies in Marine Science, 2022, 55, 102537.	0.4	3
47	Statistical classification methodology of SHOALS 3000 backscatter to mapping coastal benthic habitats. , 2007, , .		2
48	USING AIRBORNE LIDAR BATHYMETRY TO MAP COASTAL HYDRODYNAMIC PROCESSES. , 2011, , .		2
49	Three-dimensional structure of coral reef boulders transported by stormy waves using the very high resolution WorldView-2 satellite. Journal of Coastal Research, 2016, 75, 572-576.	0.1	2
50	Fine resolution remote sensing of species in terrestrial and coastal ecosystems. International Journal of Remote Sensing, 2018, 39, 5597-5599.	1.3	2
51	Wave Attenuation Service by Intertidal Coastal Ecogeosystems in the Bay of Mont-Saint-Michel, France: Review and Meta-Analysis. Springer Water, 2020, , 555-572.	0.2	2
52	Classification of coastal and estuarine ecosystems using full-waveform topo-bathymetric lidar data and artificial intelligence. , 2021, , .		2
53	Coastal Kelp Forest Habitat in the Baie des Chaleurs, Gulf of St. Lawrence, Canada. , 2012, , 201-211.		1
54	Supervised Classification of Satellite Images with Spatially Inaccurate Training Field Data. , 2018, , .		1

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55	Coral reefs in Fatu Huku Island, Marquesas Archipelago, French Polynesia. , 2020, , 533-543.		1
56	Object-Based Mangrove Mapping Using Submeter Superspectral Worldview-3 Imagery and Deep Convolutional Neural Network. , 2021, , .		1
57	The use of the SHOALS waveforms to mapping habitat within the seamless benthoscape. , 2008, , .		0
58	Modeling reef health from upstream socio-ecological components using GIS and RS. , 2013, , .		0
59	UAV Multispectral Optical Contribution to Coastal 3D Modelling. , 2021, , .		0
60	RELATING SPATIAL SCALE TO BENTHOSCAPE PATTERNS WITH A HIGH-RESOLUTION BATHYMETRIC LIDAR. , 2009, , .		0
61	Reefscape Ecology Within the South Pacific: Confluence of the Polynesia Mana Network and Very High Resolution Satellite Remote Sensing. , 2014, , 245-262.		0