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	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
2	Satelliteâ€"Derived Topography and Morphometry for VHR Coastal Habitat Mapping: The Pleiadesâ€"1 Triâ€"Stereo Enhancement. Remote Sensing, 2022, 14, 219.	1.8	6
3	Very High-Resolution Satellite-Derived Bathymetry and Habitat Mapping Using Pleiades-1 and ICESat-2. Remote Sensing, 2022, 14, 133.	1.8	24
4	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
5	Mapping Sub-Metre 3D Land-Sea Coral Reefscapes Using Superspectral WorldView-3 Satellite Stereoimagery. Oceans, 2021, 2, 315-329.	0.6	5
6	UAV Multispectral Optical Contribution to Coastal 3D Modelling. , 2021, , .		0
7	Towards 3D Mapping of Seagrass Meadows with Topo-Bathymetric Lidar Full Waveform Processing. , 2021, , .		5
8	Object-Based Mangrove Mapping Using Submeter Superspectral Worldview-3 Imagery and Deep Convolutional Neural Network. , 2021, , .		1
9	Spatiotemporal Trends of Bora Boraâ€™s Shoreline Classification and Movement Using High-Resolution Imagery from 1955 to 2019. Remote Sensing, 2021, 13, 4692.	1.8	9
10	Classification of coastal and estuarine ecosystems using full-waveform topo-bathymetric lidar data and artificial intelligence. , 2021, , .		2
11	Coral reefs in Fatu Huku Island, Marquesas Archipelago, French Polynesia. , 2020, , 533-543.		1
12	Using Modern Conservation Tools for Innovative Management of Coral Reefs: The MANACO Consortium. Frontiers in Marine Science, 2020, 7, .	1.2	6
13	Using Multispectral Drone Imagery for Spatially Explicit Modeling of Wave Attenuation through a Salt Marsh Meadow. Drones, 2020, 4, 25.	2.7	8
14	Towards Better Mapping of Seagrass Meadows using UAV Multispectral and Topographic Data. Journal of Coastal Research, 2020, 95, 1117.	0.1	7
15	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
16	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
17	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
18	Improving Intertidal Reef Mapping Using UAV Surface, Red Edge, and Near-Infrared Data. Drones, 2019, 3, 67.	2.7	26

#	Article	IF	Citations
19	Morphology of fore-reef slopes and terraces, Takapoto Atoll (Tuamotu Archipelago, French Polynesia,) Tj ETQq1 1 0.784314 rgBT /Overlo	0.9	14
20	Morpho–Sedimentary Monitoring in a Coastal Area, from 1D to 2.5D, Using Airborne Drone Imagery. Drones, 2019, 3, 62.	2.7	16
21	Long-term coastline monitoring on a coral reef island (Moorea, French Polynesia). Ocean and Coastal Management, 2019, 180, 104928.	2.0	20
22	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
23	High resolution topobathymetry using a Pleiades-1 triplet: Moorea Island in 3D. Remote Sensing of Environment, 2018, 208, 109-119.	4.6	25
24	Coral reef structural complexity provides important coastal protection from waves under rising sea levels. Science Advances, 2018, 4, eaao4350.	4.7	145
25	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
26	Mapping social–ecological vulnerability to inform local decision making. Conservation Biology, 2018, 32, 447-456.	2.4	43
27	Space and time matter in social-ecological vulnerability assessments. Marine Policy, 2018, 88, 213-221.	1.5	28
28	Supervised Classification of Satellite Images with Spatially Inaccurate Training Field Data. , 2018, , .		1
29	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
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	Fine resolution remote sensing of species in terrestrial and coastal ecosystems. International Journal of Remote Sensing, 2018, 39, 5597-5599.	1.3	2
32	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
33	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
34	Mapping coral reefs using consumer-grade drones and structure from motion photogrammetry techniques. Coral Reefs, 2017, 36, 269-275.	0.9	211
35	VHR coastal bathymetry using WorldView-3: colour versus learner. Remote Sensing Letters, 2017, 8, 1072-1081.	0.6	22
36	Combining participatory and socioeconomic approaches to map fishing effort in small-scale fisheries. PLoS ONE, 2017, 12, e0176862.	1.1	43

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37	Wave attenuation and Coastal Protection by Shelly Ridges: Mont-Saint-Michel Bay, France. Journal of Coastal Research, 2016, 75, 398-402.	0.1	3
38	Simulating social-ecological systems: the Island Digital Ecosystem Avatars (IDEA) consortium. GigaScience, 2016, 5, 14.	3.3	15
39	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
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	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
42	Revealing the regime of shallow coral reefs at patch scale by continuous spatial modeling. Frontiers in Marine Science, 2014, 1, .	1.2	5
43	Reefscape Ecology Within the South Pacific: Confluence of the Polynesia Mana Network and Very High Resolution Satellite Remote Sensing. , 2014, , 245-262.		0
44	Modeling reef health from upstream socio-ecological components using GIS and RS. , 2013, , .		0
45	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
46	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
47	Bridging Ridge-to-Reef Patches: Seamless Classification of the Coast Using Very High Resolution Satellite. Remote Sensing, 2013, 5, 3583-3610.	1.8	12
48	Coastal Kelp Forest Habitat in the Baie des Chaleurs, Gulf of St. Lawrence, Canada. , 2012, , 201-211.		1
49	Enhancing Coral Health Detection Using Spectral Diversity Indices from WorldView-2 Imagery and Machine Learners. Remote Sensing, 2012, 4, 3244-3264.	1.8	26
50	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
51	Towards Deeper Measurements of Tropical Reefscape Structure Using the WorldView-2 Spaceborne Sensor. Remote Sensing, 2012, 4, 1425-1447.	1.8	48
52	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
53	What is the value added of 4 bands within the submetric remote sensing of tropical coastscape? QuickBird-2 vs WorldView-2. , 2011, , .		8
54	USING AIRBORNE LIDAR BATHYMETRY TO MAP COASTAL HYDRODYNAMIC PROCESSES. , 2011, , .		2

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55	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
56	Salt-marsh characterization, zonation assessment and mapping through a dual-wavelength LiDAR. Remote Sensing of Environment, 2010, 114, 520-530.	4.6	59
57	RELATING SPATIAL SCALE TO BENTHOSCAPE PATTERNS WITH A HIGH-RESOLUTION BATHYMETRIC LIDAR. , 2009, , .		0
58	Mapping the Shallow Water Seabed Habitat With the SHOALS. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2947-2955.	2.7	79
59	The use of the SHOALS waveforms to mapping habitat within the seamless benthoscape. , 2008, , .		0
60	Statistical classification methodology of SHOALS 3000 backscatter to mapping coastal benthic habitats. , 2007, , .		2
61	What optech&#x2019;s bathymetric LiDAR sees underwater. , 2007, , .		13