

# Veerle A.I. Huvenne

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99  
papers

4,260  
citations

37  
h-index

62  
g-index

108  
ext. papers

5,326  
ext. citations

3.8  
avg, IF

5.42  
L-index

#	Paper	IF	Citations
99	Quantifying the Intra-Habitat Variation of Seagrass Beds with Unoccupied Aerial Vehicles (UAVs). <i>Remote Sensing</i> , <b>2022</b> , 14, 480	5	1
98	Bringing seascape ecology to the deep seabed: A review and framework for its application. <i>Limnology and Oceanography</i> , <b>2022</b> , 67, 66	4.8	2
97	Broad-scale Landscape Mapping Provides Insight into the Commonwealth of Dominica and Surrounding Islands Offshore Environment. <i>Remote Sensing</i> , <b>2022</b> , 14, 1820	5	0
96	Suitability analysis and revised strategies for marine environmental carbon capture and storage (CCS) monitoring. <i>International Journal of Greenhouse Gas Control</i> , <b>2021</b> , 112, 103510	4.2	6
95	Linkages between sediment thickness, geomorphology and Mn nodule occurrence: New evidence from AUV geophysical mapping in the Clarion-Clipperton Zone. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2021</b> , 179, 103645	2.5	1
94	Towards improved monitoring of offshore carbon storage: A real-world field experiment detecting a controlled sub-seafloor CO <sub>2</sub> release. <i>International Journal of Greenhouse Gas Control</i> , <b>2021</b> , 106, 103237	4.2	22
93	Fine-Scale Heterogeneity of a Cold-Water Coral Reef and Its Influence on the Distribution of Associated Taxa. <i>Frontiers in Marine Science</i> , <b>2021</b> , 8,	4.5	3
92	Efficient marine environmental characterisation to support monitoring of geological CO <sub>2</sub> storage. <i>International Journal of Greenhouse Gas Control</i> , <b>2021</b> , 109, 103388	4.2	4
91	Tracing Glacial Meltwater From the Greenland Ice Sheet to the Ocean Using Gliders. <i>Journal of Geophysical Research: Oceans</i> , <b>2021</b> , 126, e2021JC017274	3.3	1
90	Environment, ecology, and potential effectiveness of an area protected from deep-sea mining (Clarion Clipperton Zone, abyssal Pacific). <i>Progress in Oceanography</i> , <b>2021</b> , 197, 102653	3.8	10
89	Improving the predictive capability of benthic species distribution models by incorporating oceanographic data – Towards holistic ecological modelling of a submarine canyon. <i>Progress in Oceanography</i> , <b>2020</b> , 184, 102338	3.8	19
88	Bidirectional bedform fields at the head of a submarine canyon (NE Atlantic). <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 542, 116321	5.3	8
87	Assessing the Repeatability of Automated Seafloor Classification Algorithms, with Application in Marine Protected Area Monitoring. <i>Remote Sensing</i> , <b>2020</b> , 12, 1572	5	15
86	Cold-water coral assemblages on vertical walls from the Northeast Atlantic. <i>Diversity and Distributions</i> , <b>2020</b> , 26, 284-298	5	6
85	The biogeochemical impact of glacial meltwater from Southwest Greenland. <i>Progress in Oceanography</i> , <b>2019</b> , 176, 102126	3.8	21
84	Biological effects 26 years after simulated deep-sea mining. <i>Scientific Reports</i> , <b>2019</b> , 9, 8040	4.9	44
83	Seafloor Mapping – The Challenge of a Truly Global Ocean Bathymetry. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	64

82	Ecological characterisation of a Mediterranean cold-water coral reef: Cabliers Coral Mound Province (Alboran Sea, western Mediterranean). <i>Progress in Oceanography</i> , <b>2019</b> , 175, 245-262	3.8	31
81	On the Timing and Nature of the Multiple Phases of Slope Instability on Eastern Rockall Bank, Northeast Atlantic. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2019</b> , 20, 594-613	3.6	6
80	Monitoring mosaic biotopes in a marine conservation zone by autonomous underwater vehicle. <i>Conservation Biology</i> , <b>2019</b> , 33, 1174-1186	6	17
79	Autonomous marine environmental monitoring: Application in decommissioned oil fields. <i>Science of the Total Environment</i> , <b>2019</b> , 668, 835-853	10.2	42
78	Ecology of a polymetallic nodule occurrence gradient: Implications for deep-sea mining. <i>Limnology and Oceanography</i> , <b>2019</b> , 64, 1883-1894	4.8	43
77	15 Habitat Mapping of Cold-Water Corals in the Mediterranean Sea. <i>Coral Reefs of the World</i> , <b>2019</b> , 157-171		5
76	Using 3D photogrammetry from ROV video to quantify cold-water coral reef structural complexity and investigate its influence on biodiversity and community assemblage. <i>Coral Reefs</i> , <b>2019</b> , 38, 1007-1021	4.2	40
75	The Diversity and Ecological Role of Non-scleractinian Corals (Antipatharia and Alcyonacea) on Scleractinian Cold-Water Coral Mounds. <i>Frontiers in Marine Science</i> , <b>2019</b> , 6,	4.5	14
74	Fauna of the Kemp Caldera and its upper bathyal hydrothermal vents (South Sandwich Arc, Antarctica). <i>Royal Society Open Science</i> , <b>2019</b> , 6, 191501	3.3	11
73	Megafaunal variation in the abyssal landscape of the Clarion Clipperton Zone. <i>Progress in Oceanography</i> , <b>2019</b> , 170, 119-133	3.8	46
72	On the ecological relevance of landscape mapping and its application in the spatial planning of very large marine protected areas. <i>Science of the Total Environment</i> , <b>2018</b> , 626, 384-398	10.2	17
71	Canyons pride and prejudice: Exploring the submarine canyon research landscape, a history of geographic and thematic bias. <i>Progress in Oceanography</i> , <b>2018</b> , 169, 6-19	3.8	8
70	The effect of local hydrodynamics on the spatial extent and morphology of cold-water coral habitats at Tisler Reef, Norway. <i>Coral Reefs</i> , <b>2018</b> , 37, 253-266	4.2	21
69	Quantifying spatial heterogeneity in submarine canyons. <i>Progress in Oceanography</i> , <b>2018</b> , 169, 181-198	3.8	9
68	Species replacement dominates megabenthos beta diversity in a remote seamount setting. <i>Scientific Reports</i> , <b>2018</b> , 8, 4152	4.9	39
67	Geomorphological evidence of large vertebrates interacting with the seafloor at abyssal depths in a region designated for deep-sea mining. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 180286	3.3	13
66	Submarine Canyons and Gullies. <i>Springer Geology</i> , <b>2018</b> , 251-272	0.8	11
65	ROVs and AUVs. <i>Springer Geology</i> , <b>2018</b> , 93-108	0.8	14

64	A Multidisciplinary Approach for Generating Globally Consistent Data on Mesophotic, Deep-Pelagic, and Bathyal Biological Communities. <i>Oceanography</i> , <b>2018</b> , 31,	2.3	21
63	Ongoing evolution of submarine canyon rockwalls; examples from the Whittard Canyon, Celtic Margin (NE Atlantic). <i>Progress in Oceanography</i> , <b>2018</b> , 169, 79-88	3.8	9
62	New insights on coral mound development from groundtruthed high-resolution ROV-mounted multibeam imaging. <i>Marine Geology</i> , <b>2018</b> , 403, 225-237	3.3	14
61	Partly standing internal tides in a dendritic submarine canyon observed by an ocean glider. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2017</b> , 126, 73-84	2.5	18
60	Using novel acoustic and visual mapping tools to predict the small-scale spatial distribution of live biogenic reef framework in cold-water coral habitats. <i>Coral Reefs</i> , <b>2017</b> , 36, 255-268	4.2	26
59	New approaches to high-resolution mapping of marine vertical structures. <i>Scientific Reports</i> , <b>2017</b> , 7, 9005	4.9	32
58	Ecological Role of Submarine Canyons and Need for Canyon Conservation: A Review. <i>Frontiers in Marine Science</i> , <b>2017</b> , 4,	4.5	91
57	Landscape mapping at sub-Antarctic South Georgia provides a protocol for underpinning large-scale marine protected areas. <i>Scientific Reports</i> , <b>2016</b> , 6, 33163	4.9	18
56	Landscape-scale spatial heterogeneity in phytodetrital cover and megafauna biomass in the abyss links to modest topographic variation. <i>Scientific Reports</i> , <b>2016</b> , 6, 34080	4.9	34
55	The Whittard Canyon [A case study of submarine canyon processes. <i>Progress in Oceanography</i> , <b>2016</b> , 146, 38-57	3.8	48
54	Improving predictive mapping of deep-water habitats: Considering multiple model outputs and ensemble techniques. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2016</b> , 113, 80-89	2.5	37
53	Novel Method to Map the Morphology of Submarine Landslide Headwall Scarps Using Remotely Operated Vehicles. <i>Advances in Natural and Technological Hazards Research</i> , <b>2016</b> , 135-144	1.8	6
52	Reconstruction of the formation history of the Darwin Mounds, N Rockall Trough: How the dynamics of a sandy contourite affected cold-water coral growth. <i>Marine Geology</i> , <b>2016</b> , 378, 186-195	3.3	18
51	Effectiveness of a deep-sea cold-water coral Marine Protected Area, following eight years of fisheries closure. <i>Biological Conservation</i> , <b>2016</b> , 200, 60-69	6.2	84
50	Abyssal hills [hidden source of increased habitat heterogeneity, benthic megafaunal biomass and diversity in the deep sea. <i>Progress in Oceanography</i> , <b>2015</b> , 137, 209-218	3.8	76
49	Objective automated classification technique for marine landscape mapping in submarine canyons. <i>Marine Geology</i> , <b>2015</b> , 362, 17-32	3.3	33
48	Finding the hotspots within a biodiversity hotspot: fine-scale biological predictions within a submarine canyon using high-resolution acoustic mapping techniques. <i>Marine Ecology</i> , <b>2015</b> , 36, 1256-1276	1.4	39
47	Autonomous Underwater Vehicles (AUVs): Their past, present and future contributions to the advancement of marine geoscience. <i>Marine Geology</i> , <b>2014</b> , 352, 451-468	3.3	432

46	Marine litter distribution and density in European seas, from the shelves to deep basins. <i>PLoS ONE</i> , <b>2014</b> , 9, e95839	3.7	364
45	A new method for ecological surveying of the abyss using autonomous underwater vehicle photography. <i>Limnology and Oceanography: Methods</i> , <b>2014</b> , 12, 795-809	2.6	59
44	The West Melilla cold water coral mounds, Eastern Alboran Sea: Morphological characterization and environmental context. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2014</b> , 99, 316-326	2.3	50
43	Composition of hydrothermal fluids and mineralogy of associated chimney material on the East Scotia Ridge back-arc spreading centre. <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 139, 47-71	5.5	50
42	Megafaunal distribution and biodiversity in a heterogeneous landscape: the iceberg-scoured Rockall Bank, NE Atlantic. <i>Marine Ecology - Progress Series</i> , <b>2014</b> , 501, 67-88	2.6	25
41	Getting the bigger picture: Using precision Remotely Operated Vehicle (ROV) videography to acquire high-definition mosaic images of newly discovered hydrothermal vents in the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2013</b> , 92, 124-135	2.3	28
40	Cold-water coral carbonate mounds as unique palaeo-archives: the Plio-Pleistocene Challenger Mound record (NE Atlantic). <i>Quaternary Science Reviews</i> , <b>2013</b> , 73, 14-30	3.9	32
39	Sediment community responses to marine vs. terrigenous organic matter in a submarine canyon. <i>Biogeosciences</i> , <b>2013</b> , 10, 67-80	4.6	27
38	Tidal downwelling and implications for the carbon biogeochemistry of cold-water corals in relation to future ocean acidification and warming. <i>Global Change Biology</i> , <b>2013</b> , 19, 2708-19	11.4	41
37	Geochemical and visual indicators of hydrothermal fluid flow through a sediment-hosted volcanic ridge in the Central Bransfield Basin (Antarctica). <i>PLoS ONE</i> , <b>2013</b> , 8, e54686	3.7	24
36	Negative priming effect on organic matter mineralisation in NE Atlantic slope sediments. <i>PLoS ONE</i> , <b>2013</b> , 8, e67722	3.7	41
35	A multi-method approach for benthic habitat mapping of shallow coastal areas with high-resolution multibeam data. <i>Continental Shelf Research</i> , <b>2012</b> , 39-40, 14-26	2.4	108
34	The discovery of new deep-sea hydrothermal vent communities in the southern ocean and implications for biogeography. <i>PLoS Biology</i> , <b>2012</b> , 10, e1001234	9.7	180
33	Ice-rafting from the British-Irish ice sheet since the earliest Pleistocene (2.6 million years ago): implications for long-term mid-latitude ice-sheet growth in the North Atlantic region. <i>Quaternary Science Reviews</i> , <b>2012</b> , 44, 229-240	3.9	54
32	Habitat Heterogeneity in the Nazaré Deep-Sea Canyon Offshore Portugal <b>2012</b> , 691-701		2
31	Microdistribution of faunal assemblages at deep-sea hydrothermal vents in the Southern Ocean. <i>PLoS ONE</i> , <b>2012</b> , 7, e48348	3.7	68
30	Sedimentary processes in the middle Nazaré Canyon. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2011</b> , 58, 2369-2387	2.3	24
29	Litter in submarine canyons off the west coast of Portugal. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2011</b> , 58, 2489-2496	2.3	107

28	New insights into the morphology, fill, and remarkable longevity (>0.2 m.y.) of modern deep-water erosional scours along the northeast Atlantic margin <b>2011</b> , 7, 845-867		66
27	The importance of the terrigenous fraction within a cold-water coral mound: A case study. <i>Marine Geology</i> , <b>2011</b> , 282, 13-25	3.3	11
26	The Moira Mounds, small cold-water coral banks in the Porcupine Seabight, NE Atlantic: Part A – An early stage growth phase for future coral carbonate mounds?. <i>Marine Geology</i> , <b>2011</b> , 282, 53-64	3.3	25
25	The Moira Mounds, small cold-water coral mounds in the Porcupine Seabight, NE Atlantic: Part B – Evaluating the impact of sediment dynamics through high-resolution ROV-borne bathymetric mapping. <i>Marine Geology</i> , <b>2011</b> , 282, 65-78	3.3	28
24	A picture on the wall: innovative mapping reveals cold-water coral refuge in submarine canyon. <i>PLoS ONE</i> , <b>2011</b> , 6, e28755	3.7	122
23	The sediment composition and predictive mapping of facies on the Propeller Mound – a cold-water coral mound (Porcupine Seabight, NE Atlantic). <i>Continental Shelf Research</i> , <b>2010</b> , 30, 1814-1829	2.4	14
22	Environmental setting of deep-water oysters in the Bay of Biscay. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2010</b> , 57, 1561-1572	2.5	26
21	Efficient burial of carbon in a submarine canyon. <i>Geology</i> , <b>2010</b> , 38, 831-834	5	49
20	Sedimentology and depositional history of Holocene sandy contourites on the lower slope of the Faroe-Shetland Channel, northwest of the UK. <i>Marine Geology</i> , <b>2010</b> , 268, 85-96	3.3	21
19	The 2.6 Ma depositional sequence from the Challenger cold-water coral carbonate mound (IODP Exp. 307): Sediment contributors and hydrodynamic palaeo-environments. <i>Marine Geology</i> , <b>2010</b> , 271, 260-277	3.3	35
18	Europe's Grand Canyon: Nazaré Submarine Canyon. <i>Oceanography</i> , <b>2009</b> , 22, 46-57	2.3	74
17	The Enya mounds: a lost mound-drift competition. <i>International Journal of Earth Sciences</i> , <b>2009</b> , 98, 849-863		22
16	Sediment dynamics of a sandy contourite: the sedimentary context of the Darwin cold-water coral mounds, Northern Rockall Trough. <i>International Journal of Earth Sciences</i> , <b>2009</b> , 98, 865-884	2.2	38
15	Cold-water coral banks and submarine landslides: a review. <i>International Journal of Earth Sciences</i> , <b>2009</b> , 98, 885-899	2.2	15
14	Cold-water coral mounds in an erosive environmental setting: TOBI side-scan sonar data and ROV video footage from the northwest Porcupine Bank, NE Atlantic. <i>Marine Geology</i> , <b>2009</b> , 264, 218-229	3.3	32
13	Acquisition and processing of backscatter data for habitat mapping – Comparison of multibeam and sidescan systems. <i>Applied Acoustics</i> , <b>2009</b> , 70, 1248-1257	3.1	67
12	A method of estimating the form of fine particulates. <i>Geotechnique</i> , <b>2009</b> , 59, 503-511	3.4	17
11	Geomorphology and sedimentary features in the Central Portuguese submarine canyons, Western Iberian margin. <i>Geomorphology</i> , <b>2009</b> , 103, 310-329	4.3	95

10	Mapping Giant Scours in the Deep Ocean. <i>Eos</i> , <b>2009</b> , 90, 274	1.5	15
9	Mingulay reef complex: an interdisciplinary study of cold-water coral habitat, hydrography and biodiversity. <i>Marine Ecology - Progress Series</i> , <b>2009</b> , 397, 139-151	2.6	68
8	Influence of benthic sediment transport on cold-water coral bank morphology and growth: the example of the Darwin Mounds, north-east Atlantic. <i>Sedimentology</i> , <b>2008</b> , 55, 1875-1887	3.3	25
7	The Magellan mound province in the Porcupine Basin. <i>International Journal of Earth Sciences</i> , <b>2007</b> , 96, 85-101	2.2	50
6	Morphology and environment of cold-water coral carbonate mounds on the NW European margin. <i>International Journal of Earth Sciences</i> , <b>2007</b> , 96, 37-56	2.2	160
5	A 3D seismic study of the morphology and spatial distribution of buried coral banks in the Porcupine Basin, SW of Ireland. <i>Marine Geology</i> , <b>2003</b> , 198, 5-25	3.3	71
4	A refreshing 3D view of an ancient sediment collapse and slope failure. <i>Terra Nova</i> , <b>2002</b> , 14, 33-40	3	62
3	Textural analyses of sidescan sonar imagery from two mound provinces in the Porcupine Seabight. <i>Marine Geology</i> , <b>2002</b> , 189, 323-341	3.3	99
2	AURORA, a multi-sensor dataset for robotic ocean exploration. <i>International Journal of Robotics Research</i> , 027836492210786	5.7	1
1	Food quality determines sediment community responses to marine vs. terrigenous organic matter in a submarine canyon		2