

Veerle A.I. Huvenne

List of Publications by Citations

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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	Autonomous Underwater Vehicles (AUVs): Their past, present and future contributions to the advancement of marine geoscience. <i>Marine Geology</i> , 2014 , 352, 451-468	3.3	432
98	Marine litter distribution and density in European seas, from the shelves to deep basins. <i>PLoS ONE</i> , 2014 , 9, e95839	3.7	364
97	The discovery of new deep-sea hydrothermal vent communities in the southern ocean and implications for biogeography. <i>PLoS Biology</i> , 2012 , 10, e1001234	9.7	180
96	Morphology and environment of cold-water coral carbonate mounds on the NW European margin. <i>International Journal of Earth Sciences</i> , 2007 , 96, 37-56	2.2	160
95	A picture on the wall: innovative mapping reveals cold-water coral refuge in submarine canyon. <i>PLoS ONE</i> , 2011 , 6, e28755	3.7	122
94	A multi-method approach for benthic habitat mapping of shallow coastal areas with high-resolution multibeam data. <i>Continental Shelf Research</i> , 2012 , 39-40, 14-26	2.4	108
93	Litter in submarine canyons off the west coast of Portugal. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011 , 58, 2489-2496	2.3	107
92	Textural analyses of sidescan sonar imagery from two mound provinces in the Porcupine Seabight. <i>Marine Geology</i> , 2002 , 189, 323-341	3.3	99
91	Geomorphology and sedimentary features in the Central Portuguese submarine canyons, Western Iberian margin. <i>Geomorphology</i> , 2009 , 103, 310-329	4.3	95
90	Ecological Role of Submarine Canyons and Need for Canyon Conservation: A Review. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	91
89	Effectiveness of a deep-sea cold-water coral Marine Protected Area, following eight years of fisheries closure. <i>Biological Conservation</i> , 2016 , 200, 60-69	6.2	84
88	Abyssal hills [hidden source of increased habitat heterogeneity, benthic megafaunal biomass and diversity in the deep sea. <i>Progress in Oceanography</i> , 2015 , 137, 209-218	3.8	76
87	Europe's Grand Canyon: Nazar's Submarine Canyon. <i>Oceanography</i> , 2009 , 22, 46-57	2.3	74
86	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> , 2003 , 198, 5-25	3.3	71
85	Microdistribution of faunal assemblages at deep-sea hydrothermal vents in the Southern Ocean. <i>PLoS ONE</i> , 2012 , 7, e48348	3.7	68
84	Mingulay reef complex: an interdisciplinary study of cold-water coral habitat, hydrography and biodiversity. <i>Marine Ecology - Progress Series</i> , 2009 , 397, 139-151	2.6	68
83	Acquisition and processing of backscatter data for habitat mapping [Comparison of multibeam and sidescan systems. <i>Applied Acoustics</i> , 2009 , 70, 1248-1257	3.1	67

82	New insights into the morphology, fill, and remarkable longevity (>0.2 m.y.) of modern deep-water erosional scours along the northeast Atlantic margin 2011 , 7, 845-867		66
81	Seafloor Mapping – The Challenge of a Truly Global Ocean Bathymetry. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	64
80	A refreshing 3D view of an ancient sediment collapse and slope failure. <i>Terra Nova</i> , 2002 , 14, 33-40	3	62
79	A new method for ecological surveying of the abyss using autonomous underwater vehicle photography. <i>Limnology and Oceanography: Methods</i> , 2014 , 12, 795-809	2.6	59
78	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> , 2012 , 44, 229-240	3.9	54
77	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> , 2014 , 99, 316-326 ²⁻³	2.3	50
76	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> , 2014 , 139, 47-71	5.5	50
75	The Magellan mound province in the Porcupine Basin. <i>International Journal of Earth Sciences</i> , 2007 , 96, 85-101	2.2	50
74	Efficient burial of carbon in a submarine canyon. <i>Geology</i> , 2010 , 38, 831-834	5	49
73	The Whittard Canyon – A case study of submarine canyon processes. <i>Progress in Oceanography</i> , 2016 , 146, 38-57	3.8	48
72	Megafaunal variation in the abyssal landscape of the Clarion Clipperton Zone. <i>Progress in Oceanography</i> , 2019 , 170, 119-133	3.8	46
71	Biological effects 26 years after simulated deep-sea mining. <i>Scientific Reports</i> , 2019 , 9, 8040	4.9	44
70	Ecology of a polymetallic nodule occurrence gradient: Implications for deep-sea mining. <i>Limnology and Oceanography</i> , 2019 , 64, 1883-1894	4.8	43
69	Autonomous marine environmental monitoring: Application in decommissioned oil fields. <i>Science of the Total Environment</i> , 2019 , 668, 835-853	10.2	42
68	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> , 2013 , 19, 2708-19	11.4	41
67	Negative priming effect on organic matter mineralisation in NE Atlantic slope sediments. <i>PLoS ONE</i> , 2013 , 8, e67722	3.7	41
66	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> , 2019 , 38, 1007-1021 ²	4.2	40
65	Species replacement dominates megabenthos beta diversity in a remote seamount setting. <i>Scientific Reports</i> , 2018 , 8, 4152	4.9	39

64	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> , 2015 , 36, 1256-1276	1.4	39
63	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> , 2009 , 98, 865-884	2.2	38
62	Improving predictive mapping of deep-water habitats: Considering multiple model outputs and ensemble techniques. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016 , 113, 80-89	2.5	37
61	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> , 2010 , 271, 260-277	3.3	35
60	Landscape-scale spatial heterogeneity in phytodetrital cover and megafauna biomass in the abyss links to modest topographic variation. <i>Scientific Reports</i> , 2016 , 6, 34080	4.9	34
59	Objective automated classification technique for marine landscape mapping in submarine canyons. <i>Marine Geology</i> , 2015 , 362, 17-32	3.3	33
58	Cold-water coral carbonate mounds as unique palaeo-archives: the Plio-Pleistocene Challenger Mound record (NE Atlantic). <i>Quaternary Science Reviews</i> , 2013 , 73, 14-30	3.9	32
57	New approaches to high-resolution mapping of marine vertical structures. <i>Scientific Reports</i> , 2017 , 7, 9005	4.9	32
56	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> , 2009 , 264, 218-229	3.3	32
55	Ecological characterisation of a Mediterranean cold-water coral reef: Cabliers Coral Mound Province (Alboran Sea, western Mediterranean). <i>Progress in Oceanography</i> , 2019 , 175, 245-262	3.8	31
54	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> , 2013 , 92, 124-135	2.3	28
53	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> , 2011 , 282, 65-78	3.3	28
52	Sediment community responses to marine vs. terrigenous organic matter in a submarine canyon. <i>Biogeosciences</i> , 2013 , 10, 67-80	4.6	27
51	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> , 2017 , 36, 255-268	4.2	26
50	Environmental setting of deep-water oysters in the Bay of Biscay. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010 , 57, 1561-1572	2.5	26
49	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> , 2011 , 282, 53-64	3.3	25
48	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> , 2008 , 55, 1875-1887	3.3	25
47	Megafaunal distribution and biodiversity in a heterogeneous landscape: the iceberg-scoured Rockall Bank, NE Atlantic. <i>Marine Ecology - Progress Series</i> , 2014 , 501, 67-88	2.6	25

46	Sedimentary processes in the middle Nazari Canyon. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011 , 58, 2369-2387	2.3	24
45	Geochemical and visual indicators of hydrothermal fluid flow through a sediment-hosted volcanic ridge in the Central Bransfield Basin (Antarctica). <i>PLoS ONE</i> , 2013 , 8, e54686	3.7	24
44	The Enya mounds: a lost mound-drift competition. <i>International Journal of Earth Sciences</i> , 2009 , 98, 849-863	2.2	22
43	Towards improved monitoring of offshore carbon storage: A real-world field experiment detecting a controlled sub-seafloor CO ₂ release. <i>International Journal of Greenhouse Gas Control</i> , 2021 , 106, 103237	4.2	22
42	The biogeochemical impact of glacial meltwater from Southwest Greenland. <i>Progress in Oceanography</i> , 2019 , 176, 102126	3.8	21
41	The effect of local hydrodynamics on the spatial extent and morphology of cold-water coral habitats at Tisler Reef, Norway. <i>Coral Reefs</i> , 2018 , 37, 253-266	4.2	21
40	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> , 2010 , 268, 85-96	3.3	21
39	A Multidisciplinary Approach for Generating Globally Consistent Data on Mesophotic, Deep-Pelagic, and Bathyal Biological Communities. <i>Oceanography</i> , 2018 , 31,	2.3	21
38	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> , 2020 , 184, 102338	3.8	19
37	Partly standing internal tides in a dendritic submarine canyon observed by an ocean glider. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017 , 126, 73-84	2.5	18
36	Landscape mapping at sub-Antarctic South Georgia provides a protocol for underpinning large-scale marine protected areas. <i>Scientific Reports</i> , 2016 , 6, 33163	4.9	18
35	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> , 2016 , 378, 186-195	3.3	18
34	Monitoring mosaic biotopes in a marine conservation zone by autonomous underwater vehicle. <i>Conservation Biology</i> , 2019 , 33, 1174-1186	6	17
33	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> , 2018 , 626, 384-398	10.2	17
32	A method of estimating the form of fine particulates. <i>Geotechnique</i> , 2009 , 59, 503-511	3.4	17
31	Assessing the Repeatability of Automated Seafloor Classification Algorithms, with Application in Marine Protected Area Monitoring. <i>Remote Sensing</i> , 2020 , 12, 1572	5	15
30	Cold-water coral banks and submarine landslides: a review. <i>International Journal of Earth Sciences</i> , 2009 , 98, 885-899	2.2	15
29	Mapping Giant Scours in the Deep Ocean. <i>Eos</i> , 2009 , 90, 274	1.5	15

28	The Diversity and Ecological Role of Non-scleractinian Corals (Antipatharia and Alcyonacea) on Scleractinian Cold-Water Coral Mounds. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	14
27	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> , 2010 , 30, 1814-1829	2.4	14
26	ROVs and AUVs. <i>Springer Geology</i> , 2018 , 93-108	0.8	14
25	New insights on coral mound development from groundtruthed high-resolution ROV-mounted multibeam imaging. <i>Marine Geology</i> , 2018 , 403, 225-237	3.3	14
24	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> , 2018 , 5, 180286	3.3	13
23	The importance of the terrigenous fraction within a cold-water coral mound: A case study. <i>Marine Geology</i> , 2011 , 282, 13-25	3.3	11
22	Submarine Canyons and Gullies. <i>Springer Geology</i> , 2018 , 251-272	0.8	11
21	Fauna of the Kemp Caldera and its upper bathyal hydrothermal vents (South Sandwich Arc, Antarctica). <i>Royal Society Open Science</i> , 2019 , 6, 191501	3.3	11
20	Environment, ecology, and potential effectiveness of an area protected from deep-sea mining (Clarion Clipperton Zone, abyssal Pacific). <i>Progress in Oceanography</i> , 2021 , 197, 102653	3.8	10
19	Quantifying spatial heterogeneity in submarine canyons. <i>Progress in Oceanography</i> , 2018 , 169, 181-198	3.8	9
18	Ongoing evolution of submarine canyon rockwalls; examples from the Whittard Canyon, Celtic Margin (NE Atlantic). <i>Progress in Oceanography</i> , 2018 , 169, 79-88	3.8	9
17	Bidirectional bedform fields at the head of a submarine canyon (NE Atlantic). <i>Earth and Planetary Science Letters</i> , 2020 , 542, 116321	5.3	8
16	Canyons pride and prejudice: Exploring the submarine canyon research landscape, a history of geographic and thematic bias. <i>Progress in Oceanography</i> , 2018 , 169, 6-19	3.8	8
15	On the Timing and Nature of the Multiple Phases of Slope Instability on Eastern Rockall Bank, Northeast Atlantic. <i>Geochemistry, Geophysics, Geosystems</i> , 2019 , 20, 594-613	3.6	6
14	Cold-water coral assemblages on vertical walls from the Northeast Atlantic. <i>Diversity and Distributions</i> , 2020 , 26, 284-298	5	6
13	Suitability analysis and revised strategies for marine environmental carbon capture and storage (CCS) monitoring. <i>International Journal of Greenhouse Gas Control</i> , 2021 , 112, 103510	4.2	6
12	Novel Method to Map the Morphology of Submarine Landslide Headwall Scarps Using Remotely Operated Vehicles. <i>Advances in Natural and Technological Hazards Research</i> , 2016 , 135-144	1.8	6
11	15 Habitat Mapping of Cold-Water Corals in the Mediterranean Sea. <i>Coral Reefs of the World</i> , 2019 , 157-171		5

10	Efficient marine environmental characterisation to support monitoring of geological CO2 storage. <i>International Journal of Greenhouse Gas Control</i> , 2021 , 109, 103388	4.2	4
9	Fine-Scale Heterogeneity of a Cold-Water Coral Reef and Its Influence on the Distribution of Associated Taxa. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	3
8	Habitat Heterogeneity in the Nazaré Deep-Sea Canyon Offshore Portugal 2012 , 691-701		2
7	Bringing seascape ecology to the deep seabed: A review and framework for its application. <i>Limnology and Oceanography</i> , 2022 , 67, 66	4.8	2
6	Food quality determines sediment community responses to marine vs. terrigenous organic matter in a submarine canyon		2
5	Quantifying the Intra-Habitat Variation of Seagrass Beds with Unoccupied Aerial Vehicles (UAVs). <i>Remote Sensing</i> , 2022 , 14, 480	5	1
4	AURORA, a multi-sensor dataset for robotic ocean exploration. <i>International Journal of Robotics Research</i> , 027836492210786	5.7	1
3	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> , 2021 , 179, 103645	2.5	1
2	Tracing Glacial Meltwater From the Greenland Ice Sheet to the Ocean Using Gliders. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2021JC017274	3.3	1
1	Broadscale Landscape Mapping Provides Insight into the Commonwealth of Dominica and Surrounding Islands Offshore Environment. <i>Remote Sensing</i> , 2022 , 14, 1820	5	0