J Murray Roberts

List of Publications by Year in descending order

112 papers	6,311 citations	94433 37 h-index	82547 72 g-index
120 all docs	120 docs citations	120 times ranked	3798 citing authors

#	Article	IF	Citations
1	One on Top of the Other: Exploring the Habitat Cascades Phenomenon in Iconic Biogenic Marine Habitats. Diversity, 2022, 14, 290.	1.7	5
2	Multiscale mechanical consequences of ocean acidification for cold-water corals. Scientific Reports, 2022, 12, 8052.	3.3	6
3	Exploring ecosystemâ€based management in the North Atlantic. Journal of Fish Biology, 2022, 101, 342-350.	1.6	9
4	Mapping cold-water coral biomass: an approach to derive ecosystem functions. Coral Reefs, 2021, 40, 215-231.	2.2	16
5	Human impacts on deep-sea sponge grounds: Applying environmental omics to monitoring. Advances in Marine Biology, 2021, 89, 53-78.	1.4	3
6	Tourist Preferences for Seamount Conservation in the Galapagos Marine Reserve. Frontiers in Marine Science, 2021, 7, .	2.5	2
7	North Atlantic Basin-Scale Multi-Criteria Assessment Database to Inform Effective Management and Protection of Vulnerable Marine Ecosystems. Frontiers in Marine Science, 2021, 8, .	2.5	7
8	Systematic Conservation Planning at an Ocean Basin Scale: Identifying a Viable Network of Deep-Sea Protected Areas in the North Atlantic and the Mediterranean. Frontiers in Marine Science, 2021, 8, .	2.5	12
9	Hidden structural heterogeneity enhances marine hotspotsâ€™ biodiversity. Coral Reefs, 2021, 40, 1615-1630.	2.2	7
10	Sensitivity of a coldâ€water coral reef to interannual variability in regional oceanography. Diversity and Distributions, 2021, 27, 1719-1731.	4.1	5
11	Distribution of Megabenthic Communities Under Contrasting Settings in Deep-Sea Cold Seeps Near Northwest Atlantic Canyons. Frontiers in Marine Science, 2021, 8, .	2.5	5
12	Using the Goldilocks Principle to model coral ecosystem engineering. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211260.	2.6	17
13	Biomass Mapping for an Improved Understanding of the Contribution of Cold-Water Coral Carbonate Mounds to C and N Cycling. Frontiers in Marine Science, 2021, 8, .	2.5	7
14	Recognising Stakeholder Conflict and Encouraging Consensus of â€˜Science-Based Managementâ€™ Approaches for Marine Biodiversity Beyond National Jurisdiction (BBNJ). Frontiers in Marine Science, 2020, 7, .	2.5	8
15	Assessing the environmental status of selected North Atlantic deep-sea ecosystems. Ecological Indicators, 2020, 119, 106624.	6.3	23
16	Environmental controls and anthropogenic impacts on deep-sea sponge grounds in the Faroe-Shetland Channel, NE Atlantic: the importance of considering spatial scale to distinguish drivers of change. ICES Journal of Marine Science, 2020, 77, 2009-2009.	2.5	2
17	Larval behaviour, dispersal and population connectivity in the deep sea. Scientific Reports, 2020, 10, 10675.	3.3	37
18	Crumbling Reefs and Cold-Water Coral Habitat Loss in a Future Ocean: Evidence of â€œCoralporosisâ€•as an Indicator of Habitat Integrity. Frontiers in Marine Science, 2020, 7, .	2.5	36

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19	Towards a common approach to the assessment of the environmental status of deep-sea ecosystems in areas beyond national jurisdiction. Marine Policy, 2020, 121, 104182.	3.2	11
20	Soaking up the oil: Biological impacts of dispersants and crude oil on the sponge Halichondria panicea. Chemosphere, 2020, 257, 127109.	8.2	6
21	Climateâ€induced changes in the suitable habitat of coldâ€water corals and commercially important deepâ€sea fishes in the North Atlantic. Global Change Biology, 2020, 26, 2181-2202.	9.5	109
22	Exceptional 20th Century Ocean Circulation in the Northeast Atlantic. Geophysical Research Letters, 2020, 47, e2020GL087577.	4.0	15
23	Global Observational Needs and Resources for Marine Biodiversity. Frontiers in Marine Science, 2019, 6, .	2.5	77
24	Rockall and Hatton: Resolving a Super Wicked Marine Governance Problem in the High Seas of the Northeast Atlantic Ocean. Frontiers in Marine Science, 2019, 6, .	2.5	7
25	38 Cold-Water Coral in Aquaria: Advances and Challenges. A Focus on the Mediterranean. Coral Reefs of the World, 2019, , 435-471.	0.7	10
26	The Diversity and Ecological Role of Non-scleractinian Corals (Antipatharia and Alcyonacea) on Scleractinian Cold-Water Coral Mounds. Frontiers in Marine Science, 2019, 6, .	2.5	31
27	Distribution of Deep-Sea Sponge Aggregations in an Area of Multisectoral Activities and Changing Oceanic Conditions. Frontiers in Marine Science, 2019, 6, .	2.5	26
28	Environmental controls and anthropogenic impacts on deep-sea sponge grounds in the Faroe-Shetland Channel, NE Atlantic: the importance of considering spatial scale to distinguish drivers of change. ICES Journal of Marine Science, 2019, , .	2.5	2
29	Characterization and Mapping of a Deep-Sea Sponge Ground on the Tropic Seamount (Northeast) Tj ETQq1 1 0.784314 rgBT /Overlock 2019, 6, .	2.5	43
30	Multiple feeding strategies observed in the cold-water coral Lophelia pertusa. Journal of the Marine Biological Association of the United Kingdom, 2019, 99, 1281-1283.	0.8	12
31	An Efficient Multi-Objective Optimization Method for Use in the Design of Marine Protected Area Networks. Frontiers in Marine Science, 2019, 6, .	2.5	20
32	Cold-Water Coral Reefs. , 2019, , 675-687.		21
33	Baseline Assessment of Marine Litter and Microplastic Ingestion by Cold-Water Coral Reef Benthos at the East Mingulay Marine Protected Area (Sea of the Hebrides, Western Scotland). Frontiers in Marine Science, 2019, 6, .	2.5	36
34	The effect of local hydrodynamics on the spatial extent and morphology of cold-water coral habitats at Tisler Reef, Norway. Coral Reefs, 2018, 37, 253-266.	2.2	39
35	Scotland as a case study for how benefits of marine ecosystem services may contribute to the commercial fishing industry. Marine Policy, 2018, 93, 271-283.	3.2	8
36	Mainstreaming marine biodiversity into the SDGs: The role of other effective area-based conservation measures (SDG 14.5). Marine Policy, 2018, 93, 251-261.	3.2	67

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37	Data challenges and opportunities for environmental management of North Sea oil and gas decommissioning in an era of blue growth. Marine Policy, 2018, 97, 130-138.	3.2	38
38	Potential Impacts of Offshore Oil and Gas Activities on Deep-Sea Sponges and the Habitats They Form. Advances in Marine Biology, 2018, 79, 33-60.	1.4	19
39	Protocooperation among small polyps allows the coral Astroides calycularis to prey on large jellyfish. Ecology, 2018, 99, 2400-2401.	3.2	9
40	Ocean sprawl facilitates dispersal and connectivity of protected species. Scientific Reports, 2018, 8, 11346.	3.3	57
41	Using novel acoustic and visual mapping tools to predict the small-scale spatial distribution of live biogenic reef framework in cold-water coral habitats. Coral Reefs, 2017, 36, 255-268.	2.2	38
42	Global Biodiversity in Cold-Water Coral Reef Ecosystems. , 2017, , 235-256.		34
43	Historic scale and persistence of drill cuttings impacts on North Sea benthos. Marine Environmental Research, 2017, 129, 219-228.	2.5	37
44	Major impacts of climate change on deep-sea benthic ecosystems. Elementa, 2017, 5, .	3.2	252
45	Assessing the living and dead proportions of cold-water coral colonies: implications for deep-water Marine Protected Area monitoring in a changing ocean. PeerJ, 2017, 5, e3705.	2.0	27
46	Sensitivity of marine protected area network connectivity to atmospheric variability. Royal Society Open Science, 2016, 3, 160494.	2.4	64
47	The effect of flow speed and food size on the capture efficiency and feeding behaviour of the cold-water coral Lophelia pertusa. Journal of Experimental Marine Biology and Ecology, 2016, 481, 34-40.	1.5	70
48	Fish communities associated with cold-water corals vary with depth and substratum type. Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 114, 43-54.	1.4	32
49	Cold-Water Corals in an Era of Rapid Global Change: Are These the Deep Oceanâ€™s Most Vulnerable Ecosystems?. , 2016, , 593-606.		14
50	North Atlantic ecosystem sensitivity to Holocene shifts in Meridional Overturning Circulation. Geophysical Research Letters, 2016, 43, 291-298.	4.0	10
51	Seamount eggâ€laying grounds of the deepâ€water skate Bathyraja richardsoni. Journal of Fish Biology, 2016, 89, 1473-1481.	1.6	17
52	Deepâ€sea coral Î´¹³C: A tool to reconstruct the difference between seawater pH and Î´¹¹Bâ€derived calcifying fluid pH. Geophysical Research Letters, 2016, 43, 299-308.	4.0	14
53	Improving predictive mapping of deep-water habitats: Considering multiple model outputs and ensemble techniques. Deep-Sea Research Part I: Oceanographic Research Papers, 2016, 113, 80-89.	1.4	51
54	Biodiversity of Spongosorites coralliophaga (Stephens, 1915) on coral rubble at two contrasting cold-water coral reef settings. Coral Reefs, 2016, 35, 193-208.	2.2	34

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55	Global Biodiversity in Cold-Water Coral Reef Ecosystems. , 2016, , 1-21.		23
56	Physiological response of the cold-water coralDesmophyllum dianthusto thermal stress and ocean acidification. PeerJ, 2016, 4, e1606.	2.0	59
57	Hidden impacts of ocean acidification to live and dead coral framework. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150990.	2.6	102
58	Benthic O2 uptake of two cold-water coral communities estimated with the non-invasive eddy correlation technique. Marine Ecology - Progress Series, 2015, 525, 97-104.	1.9	43
59	Short-term metabolic and growth responses of the cold-water coral Lophelia pertusa to ocean acidification. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 99, 27-35.	1.4	84
60	Global ocean conveyor lowers extinction risk in the deep sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 88, 8-16.	1.4	50
61	Recommendations for best practice in deep-sea habitat classification: Bullimore et al. as a case study. ICES Journal of Marine Science, 2014, 71, 895-898.	2.5	22
62	Effects of high temperature and CO2 on intracellular DMSP in the cold-water coral Lophelia pertusa. Marine Biology, 2014, 161, 1499-1506.	1.5	11
63	Changes in fossil assemblage in sediment cores from Mingulay Reef Complex (NE Atlantic): Implications for coral reef build-up. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 99, 286-296.	1.4	30
64	Cold-water corals in a changing ocean. Current Opinion in Environmental Sustainability, 2014, 7, 118-126.	6.3	92
65	Environmental variability and biodiversity of megabenthos on the Hebrides Terrace Seamount (Northeast Atlantic). Scientific Reports, 2014, 4, 5589.	3.3	26
66	Self-recognition in corals facilitates deep-sea habitat engineering. Scientific Reports, 2014, 4, 6782.	3.3	33
67	Fine-scale nutrient and carbonate system dynamics around cold-water coral reefs in the northeast Atlantic. Scientific Reports, 2014, 4, 3671.	3.3	44
68	Ecohydrodynamics of Cold-Water Coral Reefs: A Case Study of the Mingulay Reef Complex (Western) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.5	28
69	Growth of north-east Atlantic cold-water coral reefs and mounds during the Holocene: A high resolution U-series and 14C chronology. Earth and Planetary Science Letters, 2013, 375, 176-187.	4.4	45
70	Cold-water coral reef habitats benefit recreationally valuable sharks. Biological Conservation, 2013, 161, 67-70.	4.1	73
71	Tidal downwelling and implications for the carbon biogeochemistry of coldâ€water corals in relation to future ocean acidification and warming. Global Change Biology, 2013, 19, 2708-2719.	9.5	51
72	Multi-scale interactions between local hydrography, seabed topography, and community assembly on cold-water coral reefs. Biogeosciences, 2013, 10, 2737-2746.	3.3	44

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73	Growth and branching patterns of Lophelia pertusa (Scleractinia) from the North Sea. Journal of the Marine Biological Association of the United Kingdom, 2011, 91, 831-835.	0.8	27
74	Northeastern Atlantic cold-water coral reefs and climate. Geology, 2011, 39, 743-746.	4.4	88
75	Beta diversity of cold-water coral reef communities off western Scotland. Coral Reefs, 2010, 29, 427-436.	2.2	49
76	Downwelling and deepâ€water bottom currents as food supply mechanisms to the coldâ€water coral Lophelia pertusa (Scleractinia) at the Mingulay Reef Complex. Limnology and Oceanography, 2009, 54, 620-629.	3.1	249
77	Mingulay reef complex: an interdisciplinary study of cold-water coral habitat, hydrography and biodiversity. Marine Ecology - Progress Series, 2009, 397, 139-151.	1.9	88
78	Lipid biomarkers reveal geographical differences in food supply to the cold-water coral Lophelia pertusa (Scleractinia). Marine Ecology - Progress Series, 2009, 397, 113-124.	1.9	87
79	Cold-water coral reef frameworks, megafaunal communities and evidence for coral carbonate mounds on the Hatton Bank, north east Atlantic. Facies, 2008, 54, 297-316.	1.4	79
80	Predicting suitable habitat for the cold-water coral Lophelia pertusa (Scleractinia). Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1048-1062.	1.4	246
81	First record of Bedotella armata (Cnidaria: Hydrozoa) from the Porcupine Seabight: do north-east Atlantic carbonate mound fauna have Mediterranean ancestors?. Marine Biodiversity Records, 2008, 1, .	1.2	2
82	Biodiversity and ecological composition of macrobenthos on cold-water coral mounds and adjacent off-mound habitat in the bathyal Porcupine Seabight, NE Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2007, 54, 654-672.	1.4	241
83	Preserving deep-sea natural heritage: Emerging issues in offshore conservation and management. Biological Conservation, 2007, 138, 299-312.	4.1	205
84	Metabolic tolerance of the cold-water coral Lophelia pertusa (Scleractinia) to temperature and dissolved oxygen change. Journal of Experimental Marine Biology and Ecology, 2007, 349, 205-214.	1.5	207
85	Corals in deep-water: will the unseen hand of ocean acidification destroy cold-water ecosystems?. Coral Reefs, 2007, 26, 445-448.	2.2	130
86	Do bottom-intensified diurnal tidal currents shape the alignment of carbonate mounds in the NE Atlantic?. Geo-Marine Letters, 2007, 27, 391-397.	1.1	49
87	Reefs of the Deep: The Biology and Geology of Cold-Water Coral Ecosystems. Science, 2006, 312, 543-547.	12.6	844
88	The occurrence of the cold-water coral Lophelia pertusa (Scleractinia) on oil and gas platforms in the North Sea: Colony growth, recruitment and environmental controls on distribution. Marine Pollution Bulletin, 2006, 52, 549-559.	5.0	148
89	Acoustic mapping using a multibeam echosounder reveals cold-water coral reefs and surrounding habitats. Coral Reefs, 2005, 24, 654-669.	2.2	131
90	Reef-aggregating behaviour by symbiotic eunicid polychaetes from cold-water corals: do worms assemble reefs?. Journal of the Marine Biological Association of the United Kingdom, 2005, 85, 813-819.	0.8	44

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91	Role of cold-water Lophelia pertusa coral reefs as fish habitat in the NE Atlantic. , 2005, , 771-805.		111
92	Lipids and nitrogen isotopes of two deep-water corals from the North-East Atlantic: initial results and implications for their nutrition. , 2005, , 715-729.		81
93	Monitoring environmental variability around cold-water coral reefs: the use of a benthic photolander and the potential of seafloor observatories. , 2005, , 483-502.		61
94	The cold-water coral Lophelia pertusa (Scleractinia) and enigmatic seabed mounds along the north-east Atlantic margin: are they related?. Marine Pollution Bulletin, 2003, 46, 7-20.	5.0	90
95	The Occurrence of the Coral <I>Lophelia pertusa</I> and Other Conspicuous Epifauna around an Oil Platform in the North Sea. Underwater Technology, 2002, 25, 83-92.	0.3	37
96	A new laboratory method for monitoring deep-water coral polyp behaviour. Hydrobiologia, 2002, 471, 143-148.	2.0	19
97	Ammonium metabolism in the symbiotic sea anemone Anemonia viridis. Hydrobiologia, 2001, 461, 25-35.	2.0	16
98	Video-assisted grabbing: a minimally destructive method of sampling azooxanthellate coral banks. Journal of the Marine Biological Association of the United Kingdom, 2000, 80, 365-366.	0.8	21
99	18O/16O and13C/12C in an ahermatypic deep-water coralLophelia pertusa from the North Atlantic: a case of disequilibrium isotope fractionation. Rapid Communications in Mass Spectrometry, 2000, 14, 1332-1336.	1.5	28
100	Full effects of oil rigs on corals are not yet known. Nature, 2000, 403, 242-242.	27.8	6
101	Title is missing!. Hydrobiologia, 2000, 441, 173-183.	2.0	65
102	Symbiotic anemones can grow when starved: nitrogen budget for Anemonia viridis in ammonium-supplemented seawater. Marine Biology, 1999, 133, 29-35.	1.5	14
103	Primary site and initial products of ammonium assimilation in the symbiotic sea anemone Anemonia viridis. Marine Biology, 1999, 135, 223-236.	1.5	36
104	Behavioural differences in microhabitat use by damselfishes (Pomacentridae): implications for reef fish biodiveristy. Journal of Experimental Marine Biology and Ecology, 1996, 202, 85-95.	1.5	37
105	Impacts and conservation. , 0, , 237-262.		1
106	History and research approaches. , 0, , 1-19.		0
107	Cold-water corals. , 0, , 20-66.		5
108	Palaeontology. , 0, , 175-209.		0

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109	Habitats and ecology. , 0, , 142-174.		1
110	Reefs and mounds. , 0, , 108-141.		0
111	Corals as archives. , 0, , 210-236.		0
112	Marine Sponges in a Snowstorm â€“ Extreme Sensitivity of a Sponge Holobiont to Marine Oil Snow and Chemically Dispersed Oil Pollution. Frontiers in Microbiology, 0, 13, .	3.5	1