

J Murray Roberts

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

6,311
citations

94269

37
h-index

82410

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. <i>Diversity</i> , 2022, 14, 290.	0.7	5
2	Multiscale mechanical consequences of ocean acidification for cold-water corals. <i>Scientific Reports</i> , 2022, 12, 8052.	1.6	6
3	Exploring ecosystem-based management in the North Atlantic. <i>Journal of Fish Biology</i> , 2022, 101, 342-350.	0.7	9
4	Mapping cold-water coral biomass: an approach to derive ecosystem functions. <i>Coral Reefs</i> , 2021, 40, 215-231.	0.9	16
5	Human impacts on deep-sea sponge grounds: Applying environmental omics to monitoring. <i>Advances in Marine Biology</i> , 2021, 89, 53-78.	0.7	3
6	Tourist Preferences for Seamount Conservation in the Galapagos Marine Reserve. <i>Frontiers in Marine Science</i> , 2021, 7, .	1.2	2
7	North Atlantic Basin-Scale Multi-Criteria Assessment Database to Inform Effective Management and Protection of Vulnerable Marine Ecosystems. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	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. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	12
9	Hidden structural heterogeneity enhances marine hotspots™ biodiversity. <i>Coral Reefs</i> , 2021, 40, 1615-1630.	0.9	7
10	Sensitivity of a cold-water coral reef to interannual variability in regional oceanography. <i>Diversity and Distributions</i> , 2021, 27, 1719-1731.	1.9	5
11	Distribution of Megabenthic Communities Under Contrasting Settings in Deep-Sea Cold Seeps Near Northwest Atlantic Canyons. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	5
12	Using the Goldilocks Principle to model coral ecosystem engineering. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20211260.	1.2	17
13	Biomass Mapping for an Improved Understanding of the Contribution of Cold-Water Coral Carbonate Mounds to C and N Cycling. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	7
14	Recognising Stakeholder Conflict and Encouraging Consensus of Science-Based Management Approaches for Marine Biodiversity Beyond National Jurisdiction (BBNJ). <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	8
15	Assessing the environmental status of selected North Atlantic deep-sea ecosystems. <i>Ecological Indicators</i> , 2020, 119, 106624.	2.6	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. <i>ICES Journal of Marine Science</i> , 2020, 77, 2009-2009.	1.2	2
17	Larval behaviour, dispersal and population connectivity in the deep sea. <i>Scientific Reports</i> , 2020, 10, 10675.	1.6	37
18	Crumbling Reefs and Cold-Water Coral Habitat Loss in a Future Ocean: Evidence of Coral porosis as an Indicator of Habitat Integrity. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	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. <i>Marine Policy</i> , 2020, 121, 104182.	1.5	11
20	Soaking up the oil: Biological impacts of dispersants and crude oil on the sponge <i>Halichondria panicea</i> . <i>Chemosphere</i> , 2020, 257, 127109.	4.2	6
21	Climate-induced changes in the suitable habitat of cold-water corals and commercially important deep-sea fishes in the North Atlantic. <i>Global Change Biology</i> , 2020, 26, 2181-2202.	4.2	109
22	Exceptional 20th Century Ocean Circulation in the Northeast Atlantic. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087577.	1.5	15
23	Global Observational Needs and Resources for Marine Biodiversity. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	77
24	Rockall and Hatton: Resolving a Super Wicked Marine Governance Problem in the High Seas of the Northeast Atlantic Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	7
25	38 Cold-Water Coral in Aquaria: Advances and Challenges. A Focus on the Mediterranean. <i>Coral Reefs of the World</i> , 2019, , 435-471.	0.3	10
26	The Diversity and Ecological Role of Non-scleractinian Corals (<i>Antipatharia</i> and <i>Alcyonacea</i>) on Scleractinian Cold-Water Coral Mounds. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	31
27	Distribution of Deep-Sea Sponge Aggregations in an Area of Multisectoral Activities and Changing Oceanic Conditions. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	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. <i>ICES Journal of Marine Science</i> , 2019, , .	1.2	2
29	Characterization and Mapping of a Deep-Sea Sponge Ground on the Tropic Seamount (Northeast) Tj ETQq1 1 0.784314 rgBT /Overlook 2019, 6, .	1.2	43
30	Multiple feeding strategies observed in the cold-water coral <i>Lophelia pertusa</i> . <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2019, 99, 1281-1283.	0.4	12
31	An Efficient Multi-Objective Optimization Method for Use in the Design of Marine Protected Area Networks. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	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). <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	36
34	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.	0.9	39
35	Scotland as a case study for how benefits of marine ecosystem services may contribute to the commercial fishing industry. <i>Marine Policy</i> , 2018, 93, 271-283.	1.5	8
36	Mainstreaming marine biodiversity into the SDGs: The role of other effective area-based conservation measures (SDG 14.5). <i>Marine Policy</i> , 2018, 93, 251-261.	1.5	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. <i>Marine Policy</i> , 2018, 97, 130-138.	1.5	38
38	Potential Impacts of Offshore Oil and Gas Activities on Deep-Sea Sponges and the Habitats They Form. <i>Advances in Marine Biology</i> , 2018, 79, 33-60.	0.7	19
39	Protocooperation among small polyps allows the coral <i>Astroides calycularis</i> to prey on large jellyfish. <i>Ecology</i> , 2018, 99, 2400-2401.	1.5	9
40	Ocean sprawl facilitates dispersal and connectivity of protected species. <i>Scientific Reports</i> , 2018, 8, 11346.	1.6	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. <i>Coral Reefs</i> , 2017, 36, 255-268.	0.9	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. <i>Marine Environmental Research</i> , 2017, 129, 219-228.	1.1	37
44	Major impacts of climate change on deep-sea benthic ecosystems. <i>Elementa</i> , 2017, 5, .	1.1	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. <i>PeerJ</i> , 2017, 5, e3705.	0.9	27
46	Sensitivity of marine protected area network connectivity to atmospheric variability. <i>Royal Society Open Science</i> , 2016, 3, 160494.	1.1	64
47	The effect of flow speed and food size on the capture efficiency and feeding behaviour of the cold-water coral <i>Lophelia pertusa</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2016, 481, 34-40.	0.7	70
48	Fish communities associated with cold-water corals vary with depth and substratum type. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 114, 43-54.	0.6	32
49	Cold-Water Corals in an Era of Rapid Global Change: Are These the Deep Ocean's Most Vulnerable Ecosystems?. , 2016, , 593-606.		14
50	North Atlantic ecosystem sensitivity to Holocene shifts in Meridional Overturning Circulation. <i>Geophysical Research Letters</i> , 2016, 43, 291-298.	1.5	10
51	Seamount egg-laying grounds of the deep-water skate <i>Bathyraja richardsoni</i> . <i>Journal of Fish Biology</i> , 2016, 89, 1473-1481.	0.7	17
52	Deep-sea coral $\delta^{13}\text{C}$: A tool to reconstruct the difference between seawater pH and $\delta^{11}\text{B}$ -derived calcifying fluid pH. <i>Geophysical Research Letters</i> , 2016, 43, 299-308.	1.5	14
53	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.	0.6	51
54	Biodiversity of <i>Spongosorites coralliophaga</i> (Stephens, 1915) on coral rubble at two contrasting cold-water coral reef settings. <i>Coral Reefs</i> , 2016, 35, 193-208.	0.9	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 coral <i>Desmophyllum dianthus</i> to thermal stress and ocean acidification. PeerJ, 2016, 4, e1606.	0.9	59
57	Hidden impacts of ocean acidification to live and dead coral framework. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150990.	1.2	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.	0.9	43
59	Short-term metabolic and growth responses of the cold-water coral <i>Lophelia pertusa</i> to ocean acidification. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 99, 27-35.	0.6	84
60	Global ocean conveyor lowers extinction risk in the deep sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 88, 8-16.	0.6	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.	1.2	22
62	Effects of high temperature and CO2 on intracellular DMSP in the cold-water coral <i>Lophelia pertusa</i> . Marine Biology, 2014, 161, 1499-1506.	0.7	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.	0.6	30
64	Cold-water corals in a changing ocean. Current Opinion in Environmental Sustainability, 2014, 7, 118-126.	3.1	92
65	Environmental variability and biodiversity of megabenthos on the Hebrides Terrace Seamount (Northeast Atlantic). Scientific Reports, 2014, 4, 5589.	1.6	26
66	Self-recognition in corals facilitates deep-sea habitat engineering. Scientific Reports, 2014, 4, 6782.	1.6	33
67	Fine-scale nutrient and carbonate system dynamics around cold-water coral reefs in the northeast Atlantic. Scientific Reports, 2014, 4, 3671.	1.6	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	1.1	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.	1.8	45
70	Cold-water coral reef habitats benefit recreationally valuable sharks. Biological Conservation, 2013, 161, 67-70.	1.9	73
71	Tidal downwelling and implications for the carbon biogeochemistry of cold-water corals in relation to future ocean acidification and warming. Global Change Biology, 2013, 19, 2708-2719.	4.2	51
72	Multi-scale interactions between local hydrography, seabed topography, and community assembly on cold-water coral reefs. Biogeosciences, 2013, 10, 2737-2746.	1.3	44

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73	Growth and branching patterns of <i>Lophelia pertusa</i> (Scleractinia) from the North Sea. Journal of the Marine Biological Association of the United Kingdom, 2011, 91, 831-835.	0.4	27
74	Northeastern Atlantic cold-water coral reefs and climate. Geology, 2011, 39, 743-746.	2.0	88
75	Beta diversity of cold-water coral reef communities off western Scotland. Coral Reefs, 2010, 29, 427-436.	0.9	49
76	Downwelling and deep-water bottom currents as food supply mechanisms to the cold-water coral <i>Lophelia pertusa</i> (Scleractinia) at the Mingulay Reef Complex. Limnology and Oceanography, 2009, 54, 620-629.	1.6	249
77	Mingulay reef complex: an interdisciplinary study of cold-water coral habitat, hydrography and biodiversity. Marine Ecology - Progress Series, 2009, 397, 139-151.	0.9	88
78	Lipid biomarkers reveal geographical differences in food supply to the cold-water coral <i>Lophelia pertusa</i> (Scleractinia). Marine Ecology - Progress Series, 2009, 397, 113-124.	0.9	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.	0.7	79
80	Predicting suitable habitat for the cold-water coral <i>Lophelia pertusa</i> (Scleractinia). Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1048-1062.	0.6	246
81	First record of <i>Bedotella armata</i> (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.	0.6	241
83	Preserving deep-sea natural heritage: Emerging issues in offshore conservation and management. Biological Conservation, 2007, 138, 299-312.	1.9	205
84	Metabolic tolerance of the cold-water coral <i>Lophelia pertusa</i> (Scleractinia) to temperature and dissolved oxygen change. Journal of Experimental Marine Biology and Ecology, 2007, 349, 205-214.	0.7	207
85	Corals in deep-water: will the unseen hand of ocean acidification destroy cold-water ecosystems?. Coral Reefs, 2007, 26, 445-448.	0.9	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.	0.5	49
87	Reefs of the Deep: The Biology and Geology of Cold-Water Coral Ecosystems. Science, 2006, 312, 543-547.	6.0	844
88	The occurrence of the cold-water coral <i>Lophelia pertusa</i> (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.	2.3	148
89	Acoustic mapping using a multibeam echosounder reveals cold-water coral reefs and surrounding habitats. Coral Reefs, 2005, 24, 654-669.	0.9	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.	0.4	44

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91	Role of cold-water <i>Lophelia pertusa</i> 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 <i>Lophelia pertusa</i> (Scleractinia) and enigmatic seabed mounds along the north-east Atlantic margin: are they related?. <i>Marine Pollution Bulletin</i> , 2003, 46, 7-20.	2.3	90
95	The Occurrence of the Coral &Lophelia pertusa& and Other Conspicuous Epifauna around an Oil Platform in the North Sea. <i>Underwater Technology</i> , 2002, 25, 83-92.	0.3	37
96	A new laboratory method for monitoring deep-water coral polyp behaviour. <i>Hydrobiologia</i> , 2002, 471, 143-148.	1.0	19
97	Ammonium metabolism in the symbiotic sea anemone <i>Anemonia viridis</i> . <i>Hydrobiologia</i> , 2001, 461, 25-35.	1.0	16
98	Video-assisted grabbing: a minimally destructive method of sampling azooxanthellate coral banks. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2000, 80, 365-366.	0.4	21
99	$^{18}\text{O}/^{16}\text{O}$ and $^{13}\text{C}/^{12}\text{C}$ in an ahermatypic deep-water coral <i>Lophelia pertusa</i> from the North Atlantic: a case of disequilibrium isotope fractionation. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1332-1336.	0.7	28
100	Full effects of oil rigs on corals are not yet known. <i>Nature</i> , 2000, 403, 242-242.	13.7	6
101	Title is missing!. <i>Hydrobiologia</i> , 2000, 441, 173-183.	1.0	65
102	Symbiotic anemones can grow when starved: nitrogen budget for <i>Anemonia viridis</i> in ammonium-supplemented seawater. <i>Marine Biology</i> , 1999, 133, 29-35.	0.7	14
103	Primary site and initial products of ammonium assimilation in the symbiotic sea anemone <i>Anemonia viridis</i> . <i>Marine Biology</i> , 1999, 135, 223-236.	0.7	36
104	Behavioural differences in microhabitat use by damselfishes (Pomacentridae): implications for reef fish biodiversity. <i>Journal of Experimental Marine Biology and Ecology</i> , 1996, 202, 85-95.	0.7	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 “ Extreme Sensitivity of a Sponge Holobiont to Marine Oil Snow and Chemically Dispersed Oil Pollution. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	1