

Craig J Brown

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,793
citations

236925

25
h-index

182427

51
g-index

67
all docs

67
docs citations

67
times ranked

2036
citing authors

#	ARTICLE	IF	CITATIONS
1	Benthic habitat mapping: A review of progress towards improved understanding of the spatial ecology of the seafloor using acoustic techniques. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 92, 502-520.	2.1	478
2	Correlation of sidescan backscatter with grain size distribution of surficial seabed sediments. <i>Marine Geology</i> , 2005, 214, 431-449.	2.1	171
3	Developments in the application of multibeam sonar backscatter for seafloor habitat mapping. <i>Applied Acoustics</i> , 2009, 70, 1242-1247.	3.3	168
4	Acoustic mapping using a multibeam echosounder reveals cold-water coral reefs and surrounding habitats. <i>Coral Reefs</i> , 2005, 24, 654-669.	2.2	131
5	Angular range analysis of acoustic themes from Stanton Banks Ireland: A link between visual interpretation and multibeam echosounder angular signatures. <i>Applied Acoustics</i> , 2009, 70, 1298-1304.	3.3	131
6	Spatial scale and geographic context in benthic habitat mapping: review and future directions. <i>Marine Ecology - Progress Series</i> , 2015, 535, 259-284.	1.9	127
7	Small-scale Mapping of Sea-bed Assemblages in the Eastern English Channel Using Sidescan Sonar and Remote Sampling Techniques. <i>Estuarine, Coastal and Shelf Science</i> , 2002, 54, 263-278.	2.1	109
8	A review of oceanographic applications of water column data from multibeam echosounders. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 145, 41-56.	2.1	109
9	Multiple methods, maps, and management applications: Purpose made seafloor maps in support of ocean management. <i>Journal of Sea Research</i> , 2012, 72, 1-13.	1.6	97
10	Mapping benthic habitat in regions of gradational substrata: An automated approach utilising geophysical, geological, and biological relationships. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 78, 203-214.	2.1	94
11	Evaluation of image-based multibeam sonar backscatter classification for benthic habitat discrimination and mapping at Stanton Banks, UK. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 81, 423-437.	2.1	70
12	Multispectral Multibeam Echo Sounder Backscatter as a Tool for Improved Seafloor Characterization. <i>Geosciences (Switzerland)</i> , 2019, 9, 126.	2.2	70
13	Towards a framework for terrain attribute selection in environmental studies. <i>Environmental Modelling and Software</i> , 2017, 89, 19-30.	4.5	69
14	Image-based classification of multibeam sonar backscatter data for objective surficial sediment mapping of Georges Bank, Canada. <i>Continental Shelf Research</i> , 2011, 31, S110-S119.	1.8	59
15	Multisource multibeam backscatter data: developing a strategy for the production of benthic habitat maps using semi-automated seafloor classification methods. <i>Marine Geophysical Researches</i> , 2018, 39, 307-322.	1.2	52
16	Epifaunal colonization of the Loch Linnhe artificial reef: Influence of substratum on epifaunal assemblage structure. <i>Biofouling</i> , 2005, 21, 73-85.	2.2	46
17	A review of sublittoral monitoring methods in temperate waters: a focus on scale. <i>Underwater Technology</i> , 2009, 28, 99-113.	0.3	46
18	Comparing Selections of Environmental Variables for Ecological Studies: A Focus on Terrain Attributes. <i>PLoS ONE</i> , 2016, 11, e0167128.	2.5	46

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19	Detection of deep water benthic macroalgae using image-based classification techniques on multibeam backscatter at Cashes Ledge, Gulf of Maine, USA. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 91, 87-101.	2.1	44
20	Mapping seabed habitats in the Firth of Lorn off the west coast of Scotland: evaluation and comparison of habitat maps produced using the acoustic ground-discrimination system, RoxAnn, and sidescan sonar. <i>ICES Journal of Marine Science</i> , 2005, 62, 790-802.	2.5	42
21	An evaluation of acoustic seabed classification techniques for marine biotope monitoring over broad-scales (>1Åm2) and meso-scales (10Åm2–1Åm2). <i>Estuarine, Coastal and Shelf Science</i> , 2011, 93, 336-349.	2.1	38
22	Mapping seabed biotopes at Hastings Shingle Bank, eastern English Channel. Part 1. Assessment using sidescan sonar. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2004, 84, 481-488.	0.8	34
23	Mapping seabed assemblages using comparative top-down and bottom-up classification approaches. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006, 63, 1536-1548.	1.4	33
24	Influence of artefacts in marine digital terrain models on habitat maps and species distribution models: a multiscale assessment. <i>Remote Sensing in Ecology and Conservation</i> , 2017, 3, 232-246.	4.3	32
25	A Spatially Explicit Comparison of Quantitative and Categorical Modelling Approaches for Mapping Seabed Sediments Using Random Forest. <i>Geosciences (Switzerland)</i> , 2019, 9, 254.	2.2	32
26	Retrieval of abandoned, lost, and discarded fishing gear in Southwest Nova Scotia, Canada: Preliminary environmental and economic impacts to the commercial lobster industry. <i>Marine Pollution Bulletin</i> , 2021, 171, 112766.	5.0	30
27	Geomorphological Classification of the Benthic Structures on a Tropical Continental Shelf. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	26
28	Effects of Chromated Copper Arsenate (CCA) Wood Preservative on Early Fouling Community Formation. <i>Marine Pollution Bulletin</i> , 2001, 42, 1103-1113.	5.0	25
29	Mapping seabed biotopes at two spatial scales in the eastern English Channel. Part 2. Comparison of two acoustic ground discrimination systems. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2004, 84, 489-500.	0.8	25
30	Harmonizing Multi-Source Sonar Backscatter Datasets for Seabed Mapping Using Bulk Shift Approaches. <i>Remote Sensing</i> , 2020, 12, 601.	4.0	22
31	Benthic marine debris in the Bay of Fundy, eastern Canada: Spatial distribution and categorization using seafloor video footage. <i>Marine Pollution Bulletin</i> , 2020, 150, 110722.	5.0	21
32	Automated Filtering of Multibeam Water-Column Data to Detect Relative Abundance of Giant Kelp (<i>Macrocystis pyrifera</i>). <i>Remote Sensing</i> , 2020, 12, 1371.	4.0	21
33	The impact of scour processes on a smothered reef system in the Irish Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 84, 409-418.	2.1	19
34	Artefacts in Marine Digital Terrain Models: A Multiscale Analysis of Their Impact on the Derivation of Terrain Attributes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 5391-5406.	6.3	19
35	Setting biological reference points for sea scallops (<i>Placopecten magellanicus</i>) allowing for the spatial distribution of productivity and fishing effort. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2017, 74, 650-667.	1.4	17
36	What global biogeochemical consequences will marine animal–sediment interactions have during climate change?. <i>Elementa</i> , 2021, 9, .	3.2	17

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37	Development of benthic monitoring methods using photoquadrats and scuba on heterogeneous hard-substrata: a boulder-slope community case study. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2011, 21, 676-689.	2.0	16
38	Toxicity of Chromated Copper Arsenate (CCA)-Treated Wood to Non-Target Marine Fouling Communities in Langstone Harbour, Portsmouth, UK. <i>Marine Pollution Bulletin</i> , 2001, 42, 310-318.	5.0	15
39	Utilizing benthic habitat maps to inform biodiversity monitoring in marine protected areas. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2019, 29, 938-951.	2.0	14
40	Assessment of Effects of Chromated Copper Arsenate (CCA)-Treated Timber on Nontarget Epibiota by Investigation of Fouling Community Development at Seven European Sites. <i>Archives of Environmental Contamination and Toxicology</i> , 2003, 45, 37-47.	4.1	13
41	Development of low-cost image mosaics of hard-bottom sessile communities using SCUBA: comparisons of optical media and of proxy measures of community structure. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2012, 92, 49-62.	0.8	13
42	Mapping seafloor habitats in the Bay of Fundy to assess megafaunal assemblages associated with <i>Modiolus modiolus</i> beds. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 252, 107294.	2.1	13
43	Operational Parameters, Data Density and Benthic Ecology: Considerations for Image-Based Classification of Multibeam Backscatter. <i>Marine Geodesy</i> , 2010, 33, 16-38.	2.0	11
44	Application of a micro-respirometric volumetric method to respiratory measurements of larvae of the Pacific oyster <i>Crassostrea gigas</i> . <i>Aquatic Living Resources</i> , 2004, 17, 195-200.	1.2	10
45	The formation and evolution of an isolated submarine valley in the North Channel, Irish Sea: an investigation of Beaufort's Dyke. <i>Journal of Quaternary Science</i> , 2011, 26, 362-373.	2.1	10
46	Geodiversity as an indicator to benthic habitat distribution: an integrative approach in a tropical continental shelf. <i>Geo-Marine Letters</i> , 2020, 40, 911-923.	1.1	10
47	Evaluation of techniques used in the assessment of subtidal epibiotic assemblage structure. <i>Biofouling</i> , 2007, 23, 343-356.	2.2	9
48	Insonification orientation and its relevance for image-based classification of multibeam backscatter. <i>ICES Journal of Marine Science</i> , 2010, 67, 1010-1023.	2.5	9
49	Applying a Multi-Method Framework to Analyze the Multispectral Acoustic Response of the Seafloor. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	3.5	8
50	Multiple imputation of multibeam angular response data for high resolution full coverage seabed mapping. <i>Marine Geophysical Researches</i> , 2022, 43, 1.	1.2	8
51	Integrating fine-scale seafloor mapping and spatial pattern metrics into marine conservation prioritization. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2020, 30, 1613-1625.	2.0	7
52	Seafloor mapping to support conservation planning in an ecologically unique fjord in Newfoundland and Labrador, Canada. <i>Journal of Coastal Conservation</i> , 2020, 24, 1.	1.6	7
53	Grand Challenges in Acoustic Remote Sensing: Discoveries to Support a Better Understanding of Our Changing Planet. <i>Frontiers in Remote Sensing</i> , 2022, 2, .	3.5	7
54	Effects of CCA (copper-chrome-arsenic) preservative treatment of wood on the settlement and recruitment of barnacles and tube building polychaete worms. <i>Biofouling</i> , 2000, 15, 151-164.	2.2	6

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55	Trace metal contamination of Beaufort's Dyke, North Channel, Irish Sea: A legacy of ordnance disposal. <i>Marine Pollution Bulletin</i> , 2011, 62, 2345-2355.	5.0	6
56	Fixed-station monitoring of a harbour wall community: the utility of low-cost photomosaics and scuba on hard substrata. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2011, 21, 690-703.	2.0	6
57	Assessing the use of harmonized multisource backscatter data for thematic benthic habitat mapping. <i>Science of Remote Sensing</i> , 2021, 3, 100015.	4.8	5
58	The influence of block shape, water depth and analysis technique on the measured profiles of artificial reefs. <i>Underwater Technology</i> , 2010, 29, 41-47.	0.3	2
59	Mapping Arctic clam abundance using multiple datasets, models, and a spatially explicit accuracy assessment. <i>ICES Journal of Marine Science</i> , 2019, 76, 2349-2361.	2.5	2
60	Seabed habitats of the Bay of Fundy, Atlantic Canada. , 2020, , 243-265.		2
61	Integrating Angular Backscatter Response Analysis Derivatives Into a Hierarchical Classification for Habitat Mapping. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	3.5	2
62	Geomorphic features and benthos in a deep glacial trough in Atlantic Canada. , 2020, , 691-704.		1
63	Seafloor geomorphology and benthic habitat of the German Bank glaciated shelf, Atlantic Canada. , 2020, , 675-690.		0
64	Editorial: Seafloor Mapping of the Atlantic Ocean. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	0