Craig J Brown

List of Publications by Year in descending order

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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	Grand Challenges in Acoustic Remote Sensing: Discoveries to Support a Better Understanding of Our Changing Planet. Frontiers in Remote Sensing, 2022, 2, .	3.5	7
2	Applying a Multi-Method Framework to Analyze the Multispectral Acoustic Response of the Seafloor. Frontiers in Remote Sensing, 2022, 3, .	3.5	8
3	Multiple imputation of multibeam angular response data for high resolution full coverage seabed mapping. Marine Geophysical Researches, 2022, 43, 1.	1.2	8
4	Integrating Angular Backscatter Response Analysis Derivatives Into a Hierarchical Classification for Habitat Mapping. Frontiers in Remote Sensing, 2022, 3, .	3.5	2
5	What global biogeochemical consequences will marine animalâ€“sediment interactions have during climate change?. Elementa, 2021, 9, .	3.2	17
6	Mapping seafloor habitats in the Bay of Fundy to assess megafaunal assemblages associated with Modiolus modiolus beds. Estuarine, Coastal and Shelf Science, 2021, 252, 107294.	2.1	13
7	Assessing the use of harmonized multisource backscatter data for thematic benthic habitat mapping. Science of Remote Sensing, 2021, 3, 100015.	4.8	5
8	Editorial: Seafloor Mapping of the Atlantic Ocean. Frontiers in Marine Science, 2021, 8, .	2.5	0
9	Retrieval of abandoned, lost, and discarded fishing gear in Southwest Nova Scotia, Canada: Preliminary environmental and economic impacts to the commercial lobster industry. Marine Pollution Bulletin, 2021, 171, 112766.	5.0	30
10	Seabed habitats of the Bay of Fundy, Atlantic Canada. , 2020, , 243-265.		2
11	Seafloor geomorphology and benthic habitat of the German Bank glaciated shelf, Atlantic Canada. , 2020, , 675-690.		0
12	Geomorphic features and benthos in a deep glacial trough in Atlantic Canada. , 2020, , 691-704.		1
13	Geodiversity as an indicator to benthic habitat distribution: an integrative approach in a tropical continental shelf. Geo-Marine Letters, 2020, 40, 911-923.	1.1	10
14	Benthic marine debris in the Bay of Fundy, eastern Canada: Spatial distribution and categorization using seafloor video footage. Marine Pollution Bulletin, 2020, 150, 110722.	5.0	21
15	Integrating fineâ€scale seafloor mapping and spatial pattern metrics into marine conservation prioritization. Aquatic Conservation: Marine and Freshwater Ecosystems, 2020, 30, 1613-1625.	2.0	7
16	Seafloor mapping to support conservation planning in an ecologically unique fjord in Newfoundland and Labrador, Canada. Journal of Coastal Conservation, 2020, 24, 1.	1.6	7
17	Automated Filtering of Multibeam Water-Column Data to Detect Relative Abundance of Giant Kelp (Macrocystis pyrifera). Remote Sensing, 2020, 12, 1371.	4.0	21
18	Harmonizing Multi-Source Sonar Backscatter Datasets for Seabed Mapping Using Bulk Shift Approaches. Remote Sensing, 2020, 12, 601.	4.0	22

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19	Mapping Arctic clam abundance using multiple datasets, models, and a spatially explicit accuracy assessment. ICES Journal of Marine Science, 2019, 76, 2349-2361.	2.5	2
20	A Spatially Explicit Comparison of Quantitative and Categorical Modelling Approaches for Mapping Seabed Sediments Using Random Forest. Geosciences (Switzerland), 2019, 9, 254.	2.2	32
21	Utilizing benthic habitat maps to inform biodiversity monitoring in marine protected areas. Aquatic Conservation: Marine and Freshwater Ecosystems, 2019, 29, 938-951.	2.0	14
22	Multispectral Multibeam Echo Sounder Backscatter as a Tool for Improved Seafloor Characterization. Geosciences (Switzerland), 2019, 9, 126.	2.2	70
23	Geomorphological Classification of the Benthic Structures on a Tropical Continental Shelf. Frontiers in Marine Science, 2019, 6, .	2.5	26
24	Multisource multibeam backscatter data: developing a strategy for the production of benthic habitat maps using semi-automated seafloor classification methods. Marine Geophysical Researches, 2018, 39, 307-322.	1.2	52
25	Towards a framework for terrain attribute selection in environmental studies. Environmental Modelling and Software, 2017, 89, 19-30.	4.5	69
26	Influence of artefacts in marine digital terrain models on habitat maps and species distribution models: a multiscale assessment. Remote Sensing in Ecology and Conservation, 2017, 3, 232-246.	4.3	32
27	Setting biological reference points for sea scallops (Placopecten magellanicus) allowing for the spatial distribution of productivity and fishing effort. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 650-667.	1.4	17
28	Artefacts in Marine Digital Terrain Models: A Multiscale Analysis of Their Impact on the Derivation of Terrain Attributes. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5391-5406.	6.3	19
29	Comparing Selections of Environmental Variables for Ecological Studies: A Focus on Terrain Attributes. PLoS ONE, 2016, 11, e0167128.	2.5	46
30	Spatial scale and geographic context in benthic habitat mapping: review and future directions. Marine Ecology - Progress Series, 2015, 535, 259-284.	1.9	127
31	A review of oceanographic applications of water column data from multibeam echosounders. Estuarine, Coastal and Shelf Science, 2014, 145, 41-56.	2.1	109
32	Development of low-cost image mosaics of hard-bottom sessile communities using SCUBA: comparisons of optical media and of proxy measures of community structure. Journal of the Marine Biological Association of the United Kingdom, 2012, 92, 49-62.	0.8	13
33	Multiple methods, maps, and management applications: Purpose made seafloor maps in support of ocean management. Journal of Sea Research, 2012, 72, 1-13.	1.6	97
34	Trace metal contamination of Beaufortâ€™s Dyke, North Channel, Irish Sea: A legacy of ordnance disposal. Marine Pollution Bulletin, 2011, 62, 2345-2355.	5.0	6
35	Image-based classification of multibeam sonar backscatter data for objective surficial sediment mapping of Georges Bank, Canada. Continental Shelf Research, 2011, 31, S110-S119.	1.8	59
36	Detection of deep water benthic macroalgae using image-based classification techniques on multibeam backscatter at Cashes Ledge, Gulf of Maine, USA. Estuarine, Coastal and Shelf Science, 2011, 91, 87-101.	2.1	44

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37	Benthic habitat mapping: A review of progress towards improved understanding of the spatial ecology of the seafloor using acoustic techniques. Estuarine, Coastal and Shelf Science, 2011, 92, 502-520.	2.1	478
38	An evaluation of acoustic seabed classification techniques for marine biotope monitoring over broad-scales (>1Âkm2) and meso-scales (10Âm2â€“1Âkm2). Estuarine, Coastal and Shelf Science, 2011, 93, 336-349.	2.1	38
39	The formation and evolution of an isolated submarine valley in the North Channel, Irish Sea: an investigation of Beaufort's Dyke. Journal of Quaternary Science, 2011, 26, 362-373.	2.1	10
40	Development of benthic monitoring methods using photoquadrats and scuba on heterogeneous hardâ€substrata: a boulderâ€slope community case study. Aquatic Conservation: Marine and Freshwater Ecosystems, 2011, 21, 676-689.	2.0	16
41	Fixedâ€station monitoring of a harbour wall community: the utility of lowâ€cost photomosaics and scuba on hardâ€substrata. Aquatic Conservation: Marine and Freshwater Ecosystems, 2011, 21, 690-703.	2.0	6
42	The influence of block shape, water depth and analysis technique on the measured profiles of artificial reefs. Underwater Technology, 2010, 29, 41-47.	0.3	2
43	Operational Parameters, Data Density and Benthic Ecology: Considerations for Image-Based Classification of Multibeam Backscatter. Marine Geodesy, 2010, 33, 16-38.	2.0	11
44	Insonification orientation and its relevance for image-based classification of multibeam backscatter. ICES Journal of Marine Science, 2010, 67, 1010-1023.	2.5	9
45	Evaluation of image-based multibeam sonar backscatter classification for benthic habitat discrimination and mapping at Stanton Banks, UK. Estuarine, Coastal and Shelf Science, 2009, 81, 423-437.	2.1	70
46	The impact of scour processes on a smothered reef system in the Irish Sea. Estuarine, Coastal and Shelf Science, 2009, 84, 409-418.	2.1	19
47	Angular range analysis of acoustic themes from Stanton Banks Ireland: A link between visual interpretation and multibeam echosounder angular signatures. Applied Acoustics, 2009, 70, 1298-1304.	3.3	131
48	Developments in the application of multibeam sonar backscatter for seafloor habitat mapping. Applied Acoustics, 2009, 70, 1242-1247.	3.3	168
49	A review of sublittoral monitoring methods in temperate waters: a focus on scale. Underwater Technology, 2009, 28, 99-113.	0.3	46
50	Mapping benthic habitat in regions of gradational substrata: An automated approach utilising geophysical, geological, and biological relationships. Estuarine, Coastal and Shelf Science, 2008, 78, 203-214.	2.1	94
51	Evaluation of techniques used in the assessment of subtidal epibiotic assemblage structure. Biofouling, 2007, 23, 343-356.	2.2	9
52	Mapping seabed assemblages using comparative top-down and bottom-up classification approaches. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 1536-1548.	1.4	33
53	Correlation of sidescan backscatter with grain size distribution of surficial seabed sediments. Marine Geology, 2005, 214, 431-449.	2.1	171
54	Acoustic mapping using a multibeam echosounder reveals cold-water coral reefs and surrounding habitats. Coral Reefs, 2005, 24, 654-669.	2.2	131

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55	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. ICES Journal of Marine Science, 2005, 62, 790-802.	2.5	42
56	Epifaunal colonization of the Loch Linnhe artificial reef: Influence of substratum on epifaunal assemblage structure. Biofouling, 2005, 21, 73-85.	2.2	46
57	Mapping seabed biotopes at Hastings Shingle Bank, eastern English Channel. Part 1. Assessment using sidescan sonar. Journal of the Marine Biological Association of the United Kingdom, 2004, 84, 481-488.	0.8	34
58	Mapping seabed biotopes at two spatial scales in the eastern English Channel. Part 2. Comparison of two acoustic ground discrimination systems. Journal of the Marine Biological Association of the United Kingdom, 2004, 84, 489-500.	0.8	25
59	Application of a micro-respirometric volumetric method to respiratory measurements of larvae of the Pacific oysterCrassostrea gigas. Aquatic Living Resources, 2004, 17, 195-200.	1.2	10
60	Assessment of Effects of Chromated Copper Arsenate (CCA)?Treated Timber on Nontarget Epibiota by Investigation of Fouling Community Development at Seven European Sites. Archives of Environmental Contamination and Toxicology, 2003, 45, 37-47.	4.1	13
61	Small-scale Mapping of Sea-bed Assemblages in the Eastern English Channel Using Sidescan Sonar and Remote Sampling Techniques. Estuarine, Coastal and Shelf Science, 2002, 54, 263-278.	2.1	109
62	Toxicity of Chromated Copper Arsenate (CCA)-Treated Wood to Non-Target Marine Fouling Communities in Langstone Harbour, Portsmouth, UK. Marine Pollution Bulletin, 2001, 42, 310-318.	5.0	15
63	Effects of Chromated Copper Arsenate (CCA) Wood Preservative on Early Fouling Community Formation. Marine Pollution Bulletin, 2001, 42, 1103-1113.	5.0	25
64	Effects of CCA (copperâ€chromeâ€arsenic) preservative treatment of wood on the settlement and recruitment of barnacles and tube building polychaete worms. Biofouling, 2000, 15, 151-164.	2.2	6