Craig R Mcclain

List of Publications by Year
in descending order

76 papers	4,233 citations	126708 33 h-index	118652 62 g-index
76 all docs	76 docs citations	76 times ranked	4791 citing authors

#	Article	IF	Citations
1	Extremophiles in Earth's Deep Seas: A View Toward Life in Exo-Oceans. Astrobiology, 2022, 22, 1009-1028.	1.5	3
2	The commonness of rarity in a deepâ€sea taxon. Oikos, 2021, 130, 863-878.	1.2	16
3	Visible name changes promote inequity for transgender researchers. PLoS Biology, 2021, 19, e3001104.	2.6	13
4	Traitâ€based diversity of deepâ€sea benthic megafauna communities near the Deepwater Horizon oil spill site. Marine Ecology, 2020, 41, e12611.	0.4	4
5	A Synthesis of Deep Benthic Faunal Impacts and Resilience Following the Deepwater Horizon Oil Spill. Frontiers in Marine Science, 2020, 7, .	1.2	17
6	A Blueprint for an Inclusive, Global Deep-Sea Ocean Decade Field Program. Frontiers in Marine Science, 2020, 7, .	1.2	45
7	Idiographic and nomothetic approaches to heterogeneity are complementary: Response to comments on â€œEvaluating the influences of temperature, primary production, and evolutionary history on bivalve growth ratesâ€. Paleobiology, 2020, 46, 275-277.	1.3	0
8	Ecological variables for developing a global deep-ocean monitoring and conservation strategy. Nature Ecology and Evolution, 2020, 4, 181-192.	3.4	142
9	Metabolic Niches and Biodiversity: A Test Case in the Deep Sea Benthos. Frontiers in Marine Science, 2020, 7, .	1.2	12
10	Evaluating the influences of temperature, primary production, and evolutionary history on bivalve growth rates. Paleobiology, 2019, 45, 405-420.	1.3	22
11	Persistent and substantial impacts of the Deepwater Horizon oil spill on deep-sea megafauna. Royal Society Open Science, 2019, 6, 191164.	1.1	26
12	Alligators in the abyss: The first experimental reptilian food fall in the deep ocean. PLoS ONE, 2019, 14, e0225345.	1.1	9
13	Likes, comments, and shares of marine organism imagery on Facebook. PeerJ, 2019, 7, e6795.	0.9	12
14	Louisiana Universities Marine Consortium (LUMCON). Limnology and Oceanography Bulletin, 2018, 27, 11-13.	0.2	0
15	Energetic tradeoffs control the size distribution of aquatic mammals. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4194-4199.	3.3	89
16	Is biodiversity energy-limited or unbounded? A test in fossil and modern bivalves. Paleobiology, 2018, 44, 385-401.	1.3	9
17	Increased energy differentially increases richness and abundance of optimal body sizes in deepâ€sea wood falls. Ecology, 2018, 99, 184-195.	1.5	12
18	Energetic increases lead to niche packing in deep-sea wood falls. Biology Letters, 2018, 14, 20180294.	1.0	11

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19	The Evolution of Energetic Scaling across the Vertebrate Tree of Life. American Naturalist, 2017, 190, 185-199.	1.0	114
20	Abundanceâ€“occupancy relationships in deep sea wood fall communities. Ecography, 2017, 40, 1339-1347.	2.1	13
21	Nestedness and species replacement along bathymetric gradients in the deep sea reflect productivity: a test with polychaete assemblages in the oligotrophic northâ€west Gulf of Mexico. Journal of Biogeography, 2017, 44, 548-555.	1.4	23
22	Practices and promises of Facebook for science outreach: Becoming a â€œNerd of Trustâ€• PLoS Biology, 2017, 15, e2002020.	2.6	48
23	Body Size Evolution Across the Geozoic. Annual Review of Earth and Planetary Sciences, 2016, 44, 523-553.	4.6	64
24	Multiple Processes Generate Productivity-Diversity Relationships in Experimental Wood-Fall Communities. Ecology, 2016, , .	1.5	1
25	On some hypotheses of diversity of animal life at great depths on the sea floor. Marine Ecology, 2015, 36, 849-872.	0.4	84
26	Multiple Processes Generate Productivity-Diversity Relationships in Experimental Wood-Fall Communities. Ecology, 2015, 97, 885-98.	1.5	26
27	Marine extinction risk shaped by traitâ€“environment interactions over 500Âmillion years. Global Change Biology, 2015, 21, 3595-3607.	4.2	31
28	Toward a Conceptual Understanding of Î²-Diversity in the Deep-Sea Benthos. Annual Review of Ecology, Evolution, and Systematics, 2015, 46, 623-642.	3.8	45
29	Evolution of the indoor biome. Trends in Ecology and Evolution, 2015, 30, 223-232.	4.2	75
30	Linking Evolution, Ecology, and Health: TriCEM. BioScience, 2015, 65, 748-749.	2.2	0
31	Ten Simple Rules for Effective Online Outreach. PLoS Computational Biology, 2015, 11, e1003906.	1.5	42
32	Paleontological baselines for evaluating extinction risk in the modern oceans. Science, 2015, 348, 567-570.	6.0	111
33	Assemblage structure is related to slope and depth on a deep offshore <scp>P</scp>acific seamount chain. Marine Ecology, 2015, 36, 210-220.	0.4	35
34	Sizing ocean giants: patterns of intraspecific size variation in marine megafauna. PeerJ, 2015, 3, e715.	0.9	104
35	Beta-diversity on deep-sea wood falls reflects gradients in energy availability. Biology Letters, 2014, 10, 20140129.	1.0	52
36	Metabolic dominance of bivalves predates brachiopod diversity decline by more than 150 million years. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133122.	1.2	53

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37	Does energy availability predict gastropod reproductive strategies?. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140400.	1.2	8
38	A critical evaluation of science outreach via social media: its role and impact on scientists. F1000Research, 2014, 3, 300.	0.8	12
39	Contrasting patterns of Î±- and Î²-diversity in deep-sea bivalves of the eastern and western North Atlantic. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 92, 157-164.	0.6	33
40	Unravelling the determinants of insular body size shifts. Biology Letters, 2013, 9, 20120989.	1.0	28
41	Science Incubators: Synthesis Centers and Their Role in the Research Ecosystem. PLoS Biology, 2013, 11, e1001468.	2.6	32
42	Dispersal, environmental niches and oceanic-scale turnover in deep-sea bivalves. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1993-2002.	1.2	54
43	Extinctions in ancient and modern seas. Trends in Ecology and Evolution, 2012, 27, 608-617.	4.2	221
44	Energetics of life on the deep seafloor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15366-15371.	3.3	133
45	A Lack of Attribution: Closing the Citation Gap Through a Reform of Citation and Indexing Practices. Taxon, 2012, 61, 1349-1351.	0.4	7
46	INCREASED ENERGY PROMOTES SIZE-BASED NICHE AVAILABILITY IN MARINE MOLLUSKS. Evolution; International Journal of Organic Evolution, 2012, 66, 2204-2215.	1.1	27
47	Digital Environmentalism: Tools and Strategies for the Evolving Online Ecosystem. , 2012, , 364-372.		14
48	Escargots through time: an energetic comparison of marine gastropod assemblages before and after the Mesozoic Marine Revolution. Paleobiology, 2011, 37, 252-269.	1.3	61
49	Speciesâ€“energy relationships in deep-sea molluscs. Biology Letters, 2011, 7, 718-722.	1.0	71
50	THE GEOZOIC SUPEREON. Palaios, 2011, 26, 251-255.	0.6	5
51	The evolutionary consequences of oxygenic photosynthesis: a body size perspective. Photosynthesis Research, 2011, 107, 37-57.	1.6	107
52	Local-scale faunal turnover on the deep Pacific seafloor. Marine Ecology - Progress Series, 2011, 422, 193-200.	0.9	30
53	Assemblage structure, but not diversity or density, change with depth on a northeast Pacific seamount. Marine Ecology, 2010, 31, 14-25.	0.4	72
54	The dynamics of biogeographic ranges in the deep sea. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3533-3546.	1.2	185

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55	Habitat heterogeneity, disturbance, and productivity work in concert to regulate biodiversity in deep submarine canyons. Ecology, 2010, 91, 964-976.	1.5	197
56	An Empire Lacking Food. American Scientist, 2010, 98, 470.	0.1	4
57	Endemicity, Biogeography, Composition, and Community Structure On a Northeast Pacific Seamount. PLoS ONE, 2009, 4, e4141.	1.1	97
58	Biodiversity and body size are linked across metazoans. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2209-2215.	1.2	35
59	Two-phase increase in the maximum size of life over 3.5 billion years reflects biological innovation and environmental opportunity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 24-27.	3.3	260
60	Ichthyofauna on three seamounts off southern and central California, USA. Marine Ecology - Progress Series, 2009, 389, 223-232.	0.9	28
61	Patterns in Deep-Sea Macroecology. , 2009, , 65-100.		26
62	The relationship between the standing stock of deep-sea macrobenthos and surface production in the western North Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2007, 54, 1350-1360.	0.6	79
63	Challenges in the application of geometric constraint models. Global Ecology and Biogeography, 2007, 16, 257-264.	2.7	25
64	Seamounts: identity crisis or split personality?. Journal of Biogeography, 2007, 34, 2001-2008.	1.4	113
65	Global bathymetric patterns of standing stock and body size in the deep-sea benthos. Marine Ecology - Progress Series, 2006, 317, 1-8.	0.9	409
66	The island rule and the evolution of body size in the deep sea. Journal of Biogeography, 2006, 33, 1578-1584.	1.4	65
67	Influence of ecological role on bathymetric patterns of deep-sea species: size clines in parasitic gastropods. Marine Ecology - Progress Series, 2006, 320, 161-167.	0.9	2
68	A Sourceâ€Sink Hypothesis for Abyssal Biodiversity. American Naturalist, 2005, 165, 163-178.	1.0	227
69	BATHYMETRIC PATTERNS OF MORPHOLOGICAL DISPARITY IN DEEP-SEA GASTROPODS FROM THE WESTERN NORTH ATLANTIC BASIN. Evolution; International Journal of Organic Evolution, 2005, 59, 1492-1499.	1.1	32
70	Mid-domain models as predictors of species diversity patterns: bathymetric diversity gradients in the deep sea. Oikos, 2005, 109, 555-566.	1.2	53
71	BATHYMETRIC PATTERNS OF MORPHOLOGICAL DISPARITY IN DEEP-SEA GASTROPODS FROM THE WESTERN NORTH ATLANTIC BASIN. Evolution; International Journal of Organic Evolution, 2005, 59, 1492.	1.1	2
72	Bathymetric patterns of morphological disparity in deep-sea gastropods from the western North Atlantic basin. Evolution; International Journal of Organic Evolution, 2005, 59, 1492-9.	1.1	4

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73	Connecting species richness, abundance and body size in deep-sea gastropods. Global Ecology and Biogeography, 2004, 13, 327-334.	2.7	59
74	MORPHOLOGICAL DISPARITY AS A BIODIVERSITY METRIC IN LOWER BATHYALAND ABYSSAL GASTROPOD ASSEMBLAGES. Evolution; International Journal of Organic Evolution, 2004, 58, 338-348.	1.1	45
75	MOCNESS estimates of the size and abundance of a pelagic gonostomatid fish Cyclothone pallida off the Bahamas. Journal of the Marine Biological Association of the United Kingdom, 2001, 81, 869-871.	0.4	8
76	The macrofaunal metropolis in the sediments around the firstâ€ever deepâ€sea alligator fall. Marine Ecology, 0, , .	0.4	0