Eric N Powell

List of Publications by Year
in descending order

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92 papers	3,134 citations	126858 33 h-index	175177 52 g-index
92 all docs	92 docs citations	92 times ranked	1548 citing authors

#	Article	IF	Citations
1	Relative rates of shell dissolution and net sediment accumulation â€•a commentary: can shell beds form by the gradual accumulation of biogenic debris on the sea floor?. Lethaia, 1989, 22, 207-212.	0.6	192
2	Taphonomic signature as a function of environmental process: Shells and shell beds in a hurricane-influenced inlet on the Texas coast. Palaeogeography, Palaeoclimatology, Palaeoecology, 1989, 72, 317-356.	1.0	160
3	Time-averaging, taphonomy, and their impact on paleocommunity reconstruction: Death assemblages in Texas bays. Bulletin of the Geological Society of America, 1986, 97, 428.	1.6	140
4	How long does oyster shell last on an oyster reef?. Estuarine, Coastal and Shelf Science, 2006, 69, 531-542.	0.9	95
5	Distribution of Perkinsus marinus in Gulf Coast Oyster Populations. Estuaries and Coasts, 1989, 12, 82.	1.7	89
6	IS OYSTER SHELL A SUSTAINABLE ESTUARINE RESOURCE?. Journal of Shellfish Research, 2007, 26, 181-194.	0.3	79
7	Long-term Trends in Oyster Population Dynamics in Delaware Bay: Regime Shifts and Response to Disease. Journal of Shellfish Research, 2008, 27, 729-755.	0.3	79
8	Rates of Burial and Disturbance of Experimentally-Deployed Molluscs: Implications for Preservation Potential. Palaios, 1999, 14, 337.	0.6	74
9	Ecosystem effects of shell aggregations and cycling in coastal waters: an example of Chesapeake Bay oyster reefs. Ecology, 2013, 94, 895-903.	1.5	68
10	Biomass: Is it a useful tool in paleocommunity reconstruction?. Lethaia, 1985, 18, 209-232.	0.6	66
11	When Is an "Old" Shell Really Old?. Journal of Geology, 1990, 98, 823-844.	0.7	65
12	Relationship of parasites and pathologies to contaminant body burden in sentinel bivalves: NOAA Status and Trends â€˜Mussel Watchâ€™ Program. Marine Environmental Research, 2008, 65, 101-127.	1.1	64
13	Modeling oyster populations. V. Declining phytoplankton stocks and the population dynamics of American oyster (Crassostrea virginica) populations. Fisheries Research, 1995, 24, 199-222.	0.9	63
14	Local variability of taphonomic attributes in a parautochthonous assemblage: can taphonomic signature distinguish a heterogeneous environment?. Journal of Paleontology, 1990, 64, 648-658.	0.5	58
15	Are molluscan maximum life spans determined by long-term cycles in benthic communities?. Oecologia, 1985, 67, 177-182.	0.9	57
16	The rise and fall of Crassostrea virginica oyster reefs: The role of disease and fishing in their demise and a vignette on their management. Journal of Marine Research, 2012, 70, 505-558.	0.3	55
17	Taphonomic degradation of molluscan remains during thirteen years on the continental shelf and slope of the northwestern Gulf of Mexico. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 312, 209-232.	1.0	53
18	Differential modulation of eastern oyster (Crassostrea virginica) disease parasites by the El-NiÃ±o-Southern Oscillation and the North Atlantic Oscillation. International Journal of Earth Sciences, 2009, 98, 99-114.	0.9	52

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19	A model for death assemblage formation: Can sediment shelliness be explained?. Journal of Marine Research, 1992, 50, 229-265.	0.3	51
20	Long-term dynamics in Atlantic surfclam (Spisula solidissima) populations: The role of bottom water temperature. Journal of Marine Systems, 2015, 141, 136-148.	0.9	51
21	A POPULATION DYNAMICS MODEL OF THE HARD CLAM, MERCENARIA MERCENARIA: DEVELOPMENT OF THE AGE- AND LENGTH-FREQUENCY STRUCTURE OF THE POPULATION. Journal of Shellfish Research, 2006, 25, 417-444.	0.3	49
22	Taphonomic Rates of Molluscan Shells Placed in Autochthonous Assemblages on the Louisiana Continental Slope. Palaios, 1994, 9, 60.	0.6	48
23	Oyster Disease and Climate Change. Are Yearly Changes in Perkinsus marinus Parasitism in Oysters (Crassostrea virginica) Controlled by Climatic Cycles in the Gulf of Mexico?. Marine Ecology, 1992, 13, 243-270.	0.4	47
24	Assessing transportation by the covariance of species with comments on contagious and random distributions. Lethaia, 1986, 19, 1-22.	0.6	46
25	Parasites of sentinel bivalves in the NOAA status and trends program: Distribution and relationship to contaminant body burden. Marine Pollution Bulletin, 1998, 37, 45-55.	2.3	45
26	Distinguishing Autochthony, Parautochthony and Allochthony Using Taphofacies Analysis: Can Cold Seep Assemblages Be Discriminated from Assemblages of the Nearshore and Continental Shelf?. Palaios, 1992, 7, 409.	0.6	44
27	Preferential dissolution of carbonate shells driven by petroleum seep activity in the Gulf of Mexico. Earth and Planetary Science Letters, 2006, 248, 227-243.	1.8	43
28	Influence of parasitism in controlling the health, reproduction and PAH body burden of petroleum seep mussels. Deep-Sea Research Part I: Oceanographic Research Papers, 1999, 46, 2053-2078.	0.6	42
29	Trends and change points in surface and bottom thermal environments of the US Northeast Continental Shelf Ecosystem. Fisheries Oceanography, 2020, 29, 396-414.	0.9	42
30	DISTRIBUTION OF PARASITES AND PATHOLOGIES IN SENTINEL BIVALVES: NOAA STATUS AND TRENDS â€œMUSSEL WATCHâ€•PROGRAM. Journal of Shellfish Research, 2007, 26, 1115-1151.	0.3	39
31	Gradients and patterns of sclerobionts on experimentally deployed bivalve shells: Synopsis of bathymetric and temporal trends on a decadal time scale. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 312, 278-304.	1.0	38
32	Ecophysiological dynamic model of individual growth of Ruditapes philippinarum. Aquaculture, 2007, 266, 130-143.	1.7	35
33	Molluscan Shell Condition After Eight Years on the Sea Floorâ€”Taphonomy in the Gulf of Mexico and Bahamas. Journal of Shellfish Research, 2008, 27, 191-225.	0.3	34
34	Modeling larval connectivity of the Atlantic surfclams within the Middle Atlantic Bight: Model development, larval dispersal and metapopulation connectivity. Estuarine, Coastal and Shelf Science, 2015, 153, 38-53.	0.9	34
35	Autochthonous death assemblages from chemoautotrophic communities at petroleum seeps: Palaeoproduction, energy flow, and implications for the fossil record. Historical Biology, 1997, 12, 165-198.	0.7	33
36	Geographical Trends in Weight and Condition Index of Surfclams (Spisula solidissima) in the Mid-Atlantic Bight. Journal of Shellfish Research, 2010, 29, 117-128.	0.3	33

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37	Long-term history of chemoautotrophic clam-dominated faunas of petroleum seeps in the Northwestern Gulf of Mexico. Facies, 2000, 43, 177-204.	0.7	32
38	Hydrates, oil seepage, and chemosynthetic ecosystems on the Gulf of Mexico Slope: An update. Eos, 1987, 68, 498-499.	0.1	31
39	UNDERSTANDING THE SUCCESS AND FAILURE OF OYSTER POPULATIONS: CLIMATIC CYCLES AND PERKINSUS MARINUS. Journal of Shellfish Research, 2006, 25, 83-93.	0.3	31
40	A Shell-Neutral Modeling Approach Yields Sustainable Oyster Harvest Estimates: A Retrospective Analysis of the Louisiana State Primary Seed Grounds. Journal of Shellfish Research, 2012, 31, 1103-1112.	0.3	31
41	Description of a Quantitative Approach to Taphonomy and Taphofacies Analysis: All Dead Things Are Not Created Equal. The Paleontological Society Special Publications, 1990, 5, 328-350.	0.0	29
42	Preservation of Mollusca in Copano Bay, Texas. The long-term record. Palaeogeography, Palaeoclimatology, Palaeoecology, 1992, 95, 209-228.	1.0	29
43	The Potential for Oysters,Crassostrea virginica, to Develop Resistance to Dermo Disease in the Field: Evaluation using a Gene-Based Population Dynamics Model. Journal of Shellfish Research, 2011, 30, 685-712.	0.3	29
44	Understanding the Success and Failure of Oyster Populations: Periodicities ofPerkinsus marinus, and Oyster Recruitment, Mortality, and Size. Journal of Shellfish Research, 2012, 31, 635-646.	0.3	29
45	The Distribution ofPerkinsus marinus in Gulf Coast Oysters: Its Relationship with Temperature, Reproduction, and Pollutant Body Burden. International Review of Hydrobiology, 1990, 75, 533-550.	0.6	28
46	A modeling study of the effects of size- and depth-dependent predation on larval survival. Journal of Plankton Research, 1997, 19, 1583-1598.	0.8	27
47	Onshoreâ€“offshore trends in community structural attributes: death assemblages from the shallow continental shelf of Texas. Continental Shelf Research, 1999, 19, 717-756.	0.9	26
48	Accommodation of the sex-ratio in eastern oysters Crassostrea virginica to variation in growth and mortality across the estuarine salinity gradient. Journal of the Marine Biological Association of the United Kingdom, 2013, 93, 533-555.	0.4	26
49	The effects of salinity change on the free amino acid pools of two nereid polychaetes, Neanthes succinea and Leonereis culveri. Comparative Biochemistry and Physiology A, Comparative Physiology, 1981, 70, 631-637.	0.7	23
50	Atlantic surfclam connectivity within the Middle Atlantic Bight: Mechanisms underlying variation in larval transport and settlement. Estuarine, Coastal and Shelf Science, 2016, 173, 65-78.	0.9	23
51	Development of an Ageâ€”Frequency Distribution for Ocean Quahogs (Arctica islandica) on Georges Bank. Journal of Shellfish Research, 2017, 36, 41-53.	0.3	22
52	An Overview of Factors Affecting Distribution of the Atlantic Surfclam (Spisula solidissima), a Continental Shelf Biomass Dominant, During a Period of Climate Change. Journal of Shellfish Research, 2018, 37, 821-831.	0.3	22
53	The influence of molluscan taxon on taphofacies development over a broad range of environments of preservation: The SSETI experience. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 312, 233-264.	1.0	21
54	Generation time and the stability of sex-determining alleles in oyster populations as deduced using a gene-based population dynamics model. Journal of Theoretical Biology, 2011, 271, 27-43.	0.8	21

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55	Variations in eastern oyster (Crassostrea virginica) sex-ratios from three Virginia estuaries: protandry, growth and demographics. Journal of the Marine Biological Association of the United Kingdom, 2013, 93, 519-531.	0.4	21
56	The death assemblage as a marker for habitat and an indicator of climate change: Georges Bank, surfclams and ocean quahogs. Continental Shelf Research, 2017, 142, 14-31.	0.9	21
57	The relationship of bionts and taphonomic processes in molluscan taphofacies formation on the continental shelf and slope: eight-year trends: Gulf of Mexico and Bahamas. Facies, 2011, 57, 15-37.	0.7	20
58	Ocean quahogs (Arctica islandica) and Atlantic surfclams (Spisula solidissima) on the Mid-Atlantic Bight continental shelf and Georges Bank: The death assemblage as a recorder of climate change and the reorganization of the continental shelf benthos. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 537, 109205.	1.0	20
59	Two-hundred year record of increasing growth rates for ocean quahogs (Arctica islandica) from the northwestern Atlantic Ocean. Journal of Experimental Marine Biology and Ecology, 2018, 503, 8-22.	0.7	19
60	The Ectoparasitic Gastropod Boonea (= Odostomia) impressa: Population Ecology and the Influence of Parasitism on Oyster Growth Rates. Marine Ecology, 1984, 5, 283-299.	0.4	18
61	Can we estimate molluscan abundance and biomass on the continental shelf?. Estuarine, Coastal and Shelf Science, 2017, 198, 213-224.	0.9	18
62	What Is Going on with Perkinsus marinus in the Gulf of Mexico?. Estuaries and Coasts, 2017, 40, 105-120.	1.0	18
63	How well do we know the infaunal biomass of the continental shelf?. Continental Shelf Research, 2016, 115, 27-32.	0.9	17
64	Effects of Gas-Producing Platforms on Continental Shelf Megafauna in the Northwest Gulf of Mexico: Reproductive Status and Health. International Review of Hydrobiology, 2000, 85, 293-323.	0.5	13
65	The Atlantic surfclam fishery and offshore wind energy development: 2. Assessing economic impacts. ICES Journal of Marine Science, 2022, 79, 1801-1814.	1.2	13
66	Captains' response to a declining stock as anticipated in the surfclam (Spisula solidissima) fishery on the U.S. Mid-Atlantic coast by model evaluation. Ocean and Coastal Management, 2016, 134, 52-68.	2.0	12
67	Oysters, Sustainability, Management Models, and the World of Reference Points. Journal of Shellfish Research, 2018, 37, 833-849.	0.3	12
68	Population dynamics ofArctica islandicaat Georges Bank (USA): an analysis of sex-based demographics. Journal of the Marine Biological Association of the United Kingdom, 2021, 101, 1003-1018.	0.4	12
69	Effects of Climate Variability on Interannual Variation in Parasites, Pathologies, and Physiological Attributes of Bivalves from the U.S. East, Gulf, and West Coasts. Environmental Bioindicators, 2009, 4, 67-96.	0.4	11
70	The Middle Atlantic Bight Cold Pool is warming and shrinking: Indices from in situ autumn seafloor temperatures. Fisheries Oceanography, 2022, 31, 217-223.	0.9	11
71	Taphonomic Signature and the Imprint of Taphonomic History: Discriminating Between Taphofacies of the Inner Continental Shelf and a Microtidal Inlet. The Paleontological Society Special Publications, 1990, 5, 370-390.	0.0	10
72	Field studies using the oyster Crassostrea virginica to determine mercury accumulation and depuration rates. Bulletin of Environmental Contamination and Toxicology, 1993, 51, 464-70.	1.3	10

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73	The application of guild and tier structure and energy flow in paleoecologic analysis: An example using parautochthonous death assemblages from a variable salinity bay. Historical Biology, 1995, 10, 281-327.	0.7	10
74	Application of trophic transfer efficiency and age structure in the trophic analysis of fossil assemblages. Lethaia, 2001, 34, 97-118.	0.6	10
75	Temporal Structure and Trends of Parasites and Pathologies in U.S. Oysters and Mussels: 16 Years of Mussel Watch. Journal of Shellfish Research, 2015, 34, 967-993.	0.3	10
76	Assessment of the Relationship of Stock and Recruitment in the Atlantic Surfclam Spisula solidissima in the Northwestern Atlantic Ocean. Journal of Shellfish Research, 2018, 37, 965.	0.3	10
77	Vessel time allocation in the US Illex illecebrosus fishery. Fisheries Research, 2003, 61, 35-55.	0.9	9
78	The intermingling of benthic macroinvertebrate communities during a period of shifting range: The â€œEast of Nantucketâ€•Atlantic Surfclam Survey and the existence of transient multiple stable states. Marine Ecology, 2019, 40, e12546.	0.4	9
79	Effect of the amino acid histidine on the uptake of cadmium from the digestive system of the blue crab,Callinectes sapidus. Bulletin of Environmental Contamination and Toxicology, 1981, 27-27, 34-41.	1.3	8
80	Attainability of Accurate Age Frequencies for Ocean Quahogs (Arctica islandica) Using Large Datasets: Protocol, Reader Precision, and Error Assessment. Journal of Shellfish Research, 2021, 40, .	0.3	8
81	The Atlantic surfclam fishery and offshore wind energy development: 1. Model development and verification. ICES Journal of Marine Science, 2022, 79, 1787-1800.	1.2	8
82	The Regional Spatial Structure of Parasites and Pathologies in Oysters and Mussels in the United States: 16 Years of Mussel Watch. Journal of Shellfish Research, 2015, 34, 939-965.	0.3	6
83	Prospects for the Sustainable Management of Public Oyster Resources. Journal of Shellfish Research, 2019, 38, 337.	0.3	6
84	Growth and longevity in surfclams east of Nantucket: Range expansion in response to the post-2000 warming of the North Atlantic. Continental Shelf Research, 2020, 195, 104059.	0.9	5
85	Historical biogeographic range shifts and the influence of climate change on ocean quahogs (Arctica islandica) on the Mid-Atlantic Bight. Holocene, 2022, 32, 964-976.	0.9	5
86	The effect of abundance changes on a management strategy evaluation for the Atlantic surfclam (Spisula solidissima) using a spatially explicit, vessel-based fisheries model. Ocean and Coastal Management, 2019, 169, 68-85.	2.0	4
87	Efficiency estimates from depletion experiments for sedentary invertebrates: evaluation of sources of uncertainty in experimental design. Fisheries Research, 2021, 234, 105806.	0.9	3
88	Predicting Oyster Harvests at Maximum Sustained Yield: Application of Cultch and Stock Benchmarks to Depleted Public Oyster Reefs in the Northern Gulf of Mexico. Journal of Shellfish Research, 2022, 40, .	0.3	2
89	Preservation of Mollusca in Copano Bay, Texas. The long-term record. The Paleontological Society Special Publications, 1992, 6, 237-237.	0.0	1
90	The conundrum of biont-free substrates on a high-energy continental shelf: Burial and scour on Nantucket Shoals, Great South Channel. Estuarine, Coastal and Shelf Science, 2021, 249, 107089.	0.9	1

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91	Time averaging and temporal persistence in chemoautotrophic molluscan-dominated death assemblages on the Louisiana continental slope. The Paleontological Society Special Publications, 1992, 6, 49-49.	0.0	0
92	Response of petroleum seep mussels to changing environmental conditions: Parasite transmission, infection intensification, and health. Deep-Sea Research Part I: Oceanographic Research Papers, 2020, 166, 103408.	0.6	0