

Ernesto Weil

List of Publications by Year in descending order

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93
papers

7,712
citations

101543

36
h-index

56724

83
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101
docs citations

101
times ranked

6807
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Third of Reef-Building Corals Face Elevated Extinction Risk from Climate Change and Local Impacts. <i>Science</i> , 2008, 321, 560-563.	12.6	1,142
2	Caribbean Corals in Crisis: Record Thermal Stress, Bleaching, and Mortality in 2005. <i>PLoS ONE</i> , 2010, 5, e13969.	2.5	517
3	Climate Change Influences on Marine Infectious Diseases: Implications for Management and Society. <i>Annual Review of Marine Science</i> , 2014, 6, 249-277.	11.6	484
4	Coral Disease, Environmental Drivers, and the Balance Between Coral and Microbial Associates. <i>Oceanography</i> , 2007, 20, 172-195.	1.0	392
5	Community ecology of mesophotic coral reef ecosystems. <i>Coral Reefs</i> , 2010, 29, 255-275.	2.2	386
6	Bacterial diversity and White Plague Disease-associated community changes in the Caribbean coral <i>Montastraea faveolata</i> . <i>ISME Journal</i> , 2009, 3, 512-521.	9.8	364
7	Climate change and wildlife diseases: When does the host matter the most?. <i>Ecology</i> , 2009, 90, 912-920.	3.2	267
8	Projections of climate conditions that increase coral disease susceptibility and pathogen abundance and virulence. <i>Nature Climate Change</i> , 2015, 5, 688-694.	18.8	252
9	Marine Biodiversity in the Caribbean: Regional Estimates and Distribution Patterns. <i>PLoS ONE</i> , 2010, 5, e11916.	2.5	232
10	INTRODUCTION Status and progress in coral reef disease research Ernesto Weil ^{1,*} , Garriet Smith ² , Diego L. Gil-Agudelo ³ . <i>Diseases of Aquatic Organisms</i> , 2006, 69, 1-7.	1.0	226
11	Coral Reef Diseases in the Wider Caribbean. , 2004, , 35-68.		206
12	Whole transcriptome analysis reveals changes in expression of immune-related genes during and after bleaching in a reef-building coral. <i>Royal Society Open Science</i> , 2015, 2, 140214.	2.4	189
13	Microbial functional structure of <i>Montastraea faveolata</i> , an important Caribbean reef-building coral, differs between healthy and yellow-band diseased colonies. <i>Environmental Microbiology</i> , 2010, 12, 541-556.	3.8	166
14	Connectivity of Caribbean coral populations: complementary insights from empirical and modelled gene flow. <i>Molecular Ecology</i> , 2012, 21, 1143-1157.	3.9	162
15	Global coral disease prevalence associated with sea temperature anomalies and local factors. <i>Diseases of Aquatic Organisms</i> , 2012, 100, 249-261.	1.0	145
16	Immune defenses of healthy, bleached and diseased <i>Montastraea faveolata</i> during a natural bleaching event. <i>Diseases of Aquatic Organisms</i> , 2009, 87, 67-78.	1.0	134
17	Managing marine disease emergencies in an era of rapid change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150364.	4.0	109
18	Short-term ecological consequences of a major oil spill on Panamanian subtidal reef corals. <i>Coral Reefs</i> , 1991, 10, 1-12.	2.2	98

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19	Examination of the <i>Montastraea annularis</i> Species Complex (Cnidaria: Scleractinia) Using ITS and COI Sequences. <i>Marine Biotechnology</i> , 1999, 1, 89-97.	2.4	98
20	Changes in Caribbean coral disease prevalence after the 2005 bleaching event. <i>Diseases of Aquatic Organisms</i> , 2009, 87, 33-43.	1.0	89
21	Bacterial profiling of <i>W</i> hite <i>P</i> lague Disease across corals and oceans indicates a conserved and distinct disease microbiome. <i>Molecular Ecology</i> , 2014, 23, 965-974.	3.9	83
22	Coral Reef Diseases in the Atlantic-Caribbean. , 2011, , 465-491.		82
23	The <i>M</i> ontastraea faveolata <i>i</i> microbiome: ecological and temporal influences on a <i>C</i> aribbean reef-building coral in decline. <i>Environmental Microbiology</i> , 2013, 15, 2082-2094.	3.8	80
24	Octocoral bleaching during unusual thermal stress. <i>Coral Reefs</i> , 2010, 29, 41-45.	2.2	75
25	Life or death: disease-tolerant coral species activate autophagy following immune challenge. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170771.	2.6	73
26	Temporal variability and impact of coral diseases and bleaching in La Parguera, Puerto Rico from 2003-2007. <i>Caribbean Journal of Science</i> , 2009, 45, 221-246.	0.3	72
27	Spatial variability in distribution and prevalence of Caribbean scleractinian coral and octocoral diseases. I. Community-level analysis. <i>Diseases of Aquatic Organisms</i> , 2009, 83, 195-208.	1.0	68
28	Geomorphology and benthic cover of mesophotic coral ecosystems of the upper insular slope of southwest Puerto Rico. <i>Coral Reefs</i> , 2010, 29, 347-360.	2.2	67
29	Caribbean-Wide, Long-Term Study of Seagrass Beds Reveals Local Variations, Shifts in Community Structure and Occasional Collapse. <i>PLoS ONE</i> , 2014, 9, e90600.	2.5	67
30	Metatranscriptome analysis of the reef-building coral <i>Orbicella faveolata</i> indicates holobiont response to coral disease. <i>Frontiers in Marine Science</i> , 2015, 2, .	2.5	61
31	Yellow band disease compromises the reproductive output of the Caribbean reef-building coral <i>Montastraea faveolata</i> (Anthozoa, Scleractinia). <i>Diseases of Aquatic Organisms</i> , 2009, 87, 45-55.	1.0	60
32	Deciphering Coral Disease Dynamics: Integrating Host, Microbiome, and the Changing Environment. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	58
33	A Conceptual Framework to Develop Long-Term Ecological Research and Management Objectives in the Wider Caribbean Region. <i>BioScience</i> , 2004, 54, 843.	4.9	56
34	Mesophotic coral ecosystems under anthropogenic stress: a case study at Ponce, Puerto Rico. <i>Coral Reefs</i> , 2016, 35, 63-75.	2.2	56
35	RNA-Seq of the Caribbean reef-building coral <i>Orbicella faveolata</i> (Scleractinia-Merulinidae) under bleaching and disease stress expands models of coral innate immunity. <i>PeerJ</i> , 2016, 4, e1616.	2.0	56
36	Spatial variability in distribution and prevalence of Caribbean scleractinian coral and octocoral diseases. II. Genera-level analysis. <i>Diseases of Aquatic Organisms</i> , 2009, 83, 209-222.	1.0	55

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37	Extended geographic distribution of several Indo-Pacific coral reef diseases. <i>Diseases of Aquatic Organisms</i> , 2012, 98, 163-170.	1.0	50
38	Aspergillosis of Gorgonians. , 2004, , 279-287.		45
39	Antimicrobial Resistance of the Coral Pathogen <i>Vibrio coralliilyticus</i> and Caribbean Sister Phylotypes Isolated from a Diseased Octocoral. <i>Microbial Ecology</i> , 2010, 59, 646-657.	2.8	44
40	The link between immunity and life history traits in scleractinian corals. <i>PeerJ</i> , 2014, 2, e628.	2.0	38
41	Relationship between Phylogeny and Immunity Suggests Older Caribbean Coral Lineages Are More Resistant to Disease. <i>PLoS ONE</i> , 2014, 9, e104787.	2.5	37
42	Biology and Ecology of Puerto Rican Coral Reefs. , 2008, , 375-406.		33
43	Persistent shifts in Caribbean coral microbiota are linked to the 2010 warm thermal anomaly. <i>Environmental Microbiology Reports</i> , 2015, 7, 471-479.	2.4	33
44	Dark Spots Disease and Yellow Band Disease, Two Poorly Known Coral Diseases with High Incidence in Caribbean Reefs. , 2004, , 337-349.		32
45	Associations between transcriptional changes and protein phenotypes provide insights into immune regulation in corals. <i>Developmental and Comparative Immunology</i> , 2016, 62, 17-28.	2.3	32
46	Evaluation of thermal acclimation capacity in corals with different thermal histories based on catalase concentrations and antioxidant potentials. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2006, 144, 155-162.	1.8	31
47	Friend or foe: the association of <i>Labyrinthulomycetes</i> with the Caribbean sea fan <i>Gorgonia ventalina</i> . <i>Diseases of Aquatic Organisms</i> , 2012, 101, 1-12.	1.0	28
48	Bacterial communities associated with the mucopolysaccharide layers of three coral species affected and unaffected with dark spots disease. <i>Canadian Journal of Microbiology</i> , 2007, 53, 465-471.	1.7	27
49	Polymorphism in a common Atlantic reef coral (<i>Montastraea cavernosa</i>) and its long-term evolutionary implications. <i>Evolutionary Ecology</i> , 2012, 26, 265-290.	1.2	25
50	Morphological and genetic evaluation of the hydrocoral <i>Millepora</i> species complex in the Caribbean. <i>Zoological Studies</i> , 2014, 53, .	0.3	25
51	Threats to Coral Reefs of Bermuda. <i>Coral Reefs of the World</i> , 2013, , 173-188.	0.7	25
52	Population connectivity of the plating coral <i>Agaricia lamarcki</i> from southwest Puerto Rico. <i>Coral Reefs</i> , 2018, 37, 183-191.	2.2	23
53	A newly documented species of <i>Madracis</i> (Scleractinia: Pocilloporidae) from the Caribbean. <i>Proceedings of the Biological Society of Washington</i> , 2007, 120, 214-226.	0.3	20
54	Spatial and temporal variability in juvenile coral densities, survivorship and recruitment in La Parguera, southwestern Puerto Rico. <i>Caribbean Journal of Science</i> , 2009, 45, 269-281.	0.3	20

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55	Symbiodinium (internal transcribed spacer 2) diversity in the coral host <i>Agaricia lamarcki</i> (Cnidaria: Tj ETQq1 1 0.784314 rgBT /Overlock Ecology, 2016, 37, 1079-1087.	1.1	20
56	Assessing the long-term effects of a catastrophic oil spill on subtidal coral reef communities off the Caribbean coast of Panama (1985â€“2017). <i>Marine Biodiversity</i> , 2020, 50, 1.	1.0	18
57	Hyperspectral Sensing of Disease Stress in the Caribbean Reef-Building Coral, <i>Orbicella faveolata</i> - Perspectives for the Field of Coral Disease Monitoring. <i>PLoS ONE</i> , 2013, 8, e81478.	2.5	18
58	Comparative aspects of sexual reproduction in the Caribbean coral genus <i>Diploria</i> (Scleractinia: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	1.5	17
59	Enhanced ultraviolet radiation can terminate sexual reproduction in the broadcasting coral species <i>Acropora cervicornis</i> Lamarck. <i>Journal of Experimental Marine Biology and Ecology</i> , 2008, 358, 39-45.	1.5	16
60	What does resilience sound like? Coral reef and dry forest acoustic communities respond differently to Hurricane Maria. <i>Ecological Indicators</i> , 2021, 126, 107635.	6.3	16
61	Macroalgae Has No Effect on the Severity and Dynamics of Caribbean Yellow Band Disease. <i>PLoS ONE</i> , 2009, 4, e4514.	2.5	16
62	Spatial Variations in Density and Size of the Echinoid <i>Diadema Antillarum Philippi</i> on some Venezuelan Coral Reefs. <i>Bijdragen Tot De Dierkunde</i> , 1984, 54, 73-82.	0.2	15
63	The corals and coral reefs of Venezuela. , 2003, , 303-330.		15
64	Coralline white band syndrome, a coralline algal affliction in the tropical Atlantic. <i>Coral Reefs</i> , 2005, 24, 117-117.	2.2	15
65	Spatial and temporal patterns in reef sediment accumulation and composition, southwestern insular shelf of Puerto Rico. <i>Caribbean Journal of Science</i> , 2009, 45, 138-150.	0.3	15
66	Disease Problems. <i>Coral Reefs of the World</i> , 2019, , 779-800.	0.7	15
67	Cryptic Species Within the Atlantic-Caribbean Genus <i>Meandrina</i> (Scleractinia): A Multidisciplinary Approach and Description of the New Species <i>Meandrina jacksoni</i>. <i>Bulletin of Marine Science</i> , 2011, 87, 823-853.	0.8	14
68	Temporal dynamics and plasticity in the cellular immune response of the sea fan coral, <i>Gorgonia ventalina</i> . <i>Marine Biology</i> , 2013, 160, 2449-2460.	1.5	14
69	Octocoral co-infection as a balance between host immunity and host environment. <i>Oecologia</i> , 2018, 186, 743-753.	2.0	13
70	Lack of recovery of the long-spined sea urchin <i>Diadema antillarum</i> Philippi in Puerto Rico 33 years after the Caribbean-wide mass mortality. <i>PeerJ</i> , 2020, 8, e8428.	2.0	13
71	Development and application of molecular biomarkers for characterizing Caribbean Yellow Band Disease in <i>Orbicella faveolata</i>. <i>PeerJ</i> , 2015, 3, e1371.	2.0	12
72	Similarities and Differences Between Two Deadly Caribbean Coral Diseases: White Plague and Stony Coral Tissue Loss Disease. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	12

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73	Variability of aspergillosis in <i>Gorgonia ventalina</i> in La Parguera, Puerto Rico. Caribbean Journal of Science, 2009, 45, 215-220.	0.3	11
74	Warming and pollutants interact to modulate octocoral immunity and shape disease outcomes. Ecological Applications, 2020, 30, e02024.	3.8	11
75	Widespread local chronic stressors in Caribbean coastal habitats. PLoS ONE, 2017, 12, e0188564.	2.5	10
76	Diversidad y abundancia relativa de corales, octocorales y esponjas en el Parque Nacional Jaragua, República Dominicana. Revista De Biología Tropical, 2014, 54, 423.	0.4	10
77	Population characteristics of the sea urchin <i>Diadema antillarum</i> in La Parguera, Puerto Rico, 17 years after the mass mortality event. Revista De Biología Tropical, 2005, 53 Suppl 3, 219-31.	0.4	10
78	Emergency response for marine diseases. Science, 2015, 347, 1210-1210.	12.6	8
79	Growth dynamics in <i>Acropora cervicornis</i> and <i>A. prolifera</i> in southwest Puerto Rico. PeerJ, 2020, 8, e8435.	2.0	8
80	Octocoral Diseases in a Changing Ocean. , 2017, , 1109-1163.		7
81	Natural Prey Preferences and Spatial Variability of Predation Pressure by <i>Cyphoma gibbosum</i> (Mollusca: Gastropoda) on Octocoral Communities off La Parguera, Puerto Rico. International Scholarly Research Notices, 2014, 2014, 1-13.	0.9	6
82	Recent recovery in <i>Acropora cervicornis</i> and abundance of <i>A. prolifera</i> off La Parguera, Puerto Rico. Marine Biodiversity, 2016, 46, 531-532.	1.0	6
83	Octocoral Diseases in a Changing Ocean. , 2016, , 1-55.		6
84	Sexual reproduction in the Caribbean coral genus <i>Isophyllia</i> (Scleractinia: Mussidae). PeerJ, 2016, 4, e2665.	2.0	5
85	Incidence and Spatial Distribution of Caribbean Yellow Band Disease in La Parguera, Puerto Rico. Journal of Marine Biology, 2012, 2012, 1-7.	1.0	4
86	Ecological Factors Mediate Immunity and Parasitic Co-Infection in Sea Fan Octacorals. Frontiers in Immunology, 2020, 11, 608066.	4.8	4
87	A biological condition gradient for coral reefs in the US Caribbean Territories: Part I. Coral narrative rules. Ecological Indicators, 2022, 138, 108805.	6.3	4
88	The Zoeal Stages of the Decorator Crab <i>Stenocionops furcatus</i> Coelatus (a. Milne Edwards, 1878)	0.3	3
89	Intra-Annual Variation in Mesophotic Benthic Assemblages on the Insular Slope of Southwest Puerto Rico as a Function of Depth and Geomorphology. Frontiers in Marine Science, 2021, 8, .	2.5	3
90	Spatial and Temporal Variability of Caribbean Yellow Band Disease Prevalence in <i>Orbicella</i> spp. off La Parguera, Puerto Rico. Caribbean Journal of Science, 2014, 48, 81-102.	0.3	2

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91	Erratum to "Incidence and Spatial Distribution of Caribbean Yellow Band Disease in La Parguera, Puerto Rico", <i>Journal of Marine Biology</i> , 2013, 2013, 1-2.	1.0	0
92	Coral and Cnidarian Welfare in a Changing Sea. <i>Animal Welfare</i> , 2019, , 123-145.	1.0	0
93	Polychaetes (Annelida, Polychaeta) Associated with Mesophotic Coral Ecosystems in Puerto Rico and the U.S. Virgin Islands. <i>Caribbean Journal of Science</i> , 2022, 52, .	0.3	0