

Michael P Lesser

List of Publications by Year in descending order

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111
papers

9,845
citations

50276

46
h-index

38395

95
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115
all docs

115
docs citations

115
times ranked

7381
citing authors

#	ARTICLE	IF	CITATIONS
1	Cophylogeny and convergence shape holobiont evolution in sponge-microbe symbioses. <i>Nature Ecology and Evolution</i> , 2022, 6, 750-762.	7.8	21
2	Trophic ecology of Caribbean sponges in the mesophotic zone. <i>Limnology and Oceanography</i> , 2021, 66, 1113-1124.	3.1	12
3	Gorgonians Are Foundation Species on Sponge-Dominated Mesophotic Coral Reefs in the Caribbean. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	21
4	Biochemical variability in sponges across the Caribbean basin. <i>Invertebrate Biology</i> , 2021, 140, e12341.	0.9	4
5	Incident light and morphology determine coral productivity along a shallow to mesophotic depth gradient. <i>Ecology and Evolution</i> , 2021, 11, 13445-13454.	1.9	9
6	Growth and feeding in the sponge <i>Agelas tubulata</i> from shallow to mesophotic depths on Grand Cayman Island. <i>Ecosphere</i> , 2021, 12, e03764.	2.2	7
7	Eutrophication on Coral Reefs: What Is the Evidence for Phase Shifts, Nutrient Limitation and Coral Bleaching. <i>BioScience</i> , 2021, 71, 1216-1233.	4.9	18
8	Trophic Ecology of the Tropical Pacific Sponge <i>Mycale grandis</i> Inferred from Amino Acid Compound-Specific Isotopic Analyses. <i>Microbial Ecology</i> , 2020, 79, 495-510.	2.8	17
9	Depth-dependent detritus production in the sponge, <i>Halisarca caerulea</i> . <i>Limnology and Oceanography</i> , 2020, 65, 1200-1216.	3.1	24
10	Trophodynamics of the sclerosponge <i>Ceratoporella nicholsoni</i> along a shallow to mesophotic depth gradient. <i>Coral Reefs</i> , 2020, 39, 1829-1839.	2.2	9
11	A New "Business as Usual" Climate Scenario and the Stress Response of the Caribbean Coral <i>Montastraea cavernosa</i> . <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	1
12	The Genome of the Softshell Clam <i>Mya arenaria</i> and the Evolution of Apoptosis. <i>Genome Biology and Evolution</i> , 2020, 12, 1681-1693.	2.5	7
13	Will coral reef sponges be winners in the Anthropocene?. <i>Global Change Biology</i> , 2020, 26, 3202-3211.	9.5	34
14	Gametogenesis in regular sea urchins: Structural, functional, and molecular/genomic biology. <i>Developments in Aquaculture and Fisheries Science</i> , 2020, 43, 29-50.	1.3	3
15	Trait-Based Comparison of Coral and Sponge Microbiomes. <i>Scientific Reports</i> , 2020, 10, 2340.	3.3	15
16	N ₂ fixation, and the relative contribution of fixed N, in corals from Curaçao and Hawaii. <i>Coral Reefs</i> , 2019, 38, 1145-1158.	2.2	8
17	Global community breaks at 60 m on mesophotic coral reefs. <i>Global Ecology and Biogeography</i> , 2019, 28, 1403-1416.	5.8	52
18	The Bahamas and Cayman Islands. <i>Coral Reefs of the World</i> , 2019, , 47-56.	0.7	10

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19	Sponge density increases with depth throughout the Caribbean: Reply. <i>Ecosphere</i> , 2019, 10, e02690.	2.2	7
20	Phylogenetic signature of light and thermal stress for the endosymbiotic dinoflagellates of corals (Family Symbiodiniaceae). <i>Limnology and Oceanography</i> , 2019, 64, 1852-1863.	3.1	24
21	Effects of Thermal Stress and Ocean Acidification on the Expression of the Retrotransposon Steamer in the Softshell <i>Mya arenaria</i> . <i>Journal of Shellfish Research</i> , 2019, 38, 535.	0.9	3
22	A member of the Roseobacter clade, <i>Octadecabacter</i> sp., is the dominant symbiont in the brittle star <i>Amphipholis squamata</i> . <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	12
23	Diazotroph diversity and nitrogen fixation in the coral <i>Stylophora pistillata</i> from the Great Barrier Reef. <i>ISME Journal</i> , 2018, 12, 813-824.	9.8	61
24	Sponge density increases with depth throughout the Caribbean. <i>Ecosphere</i> , 2018, 9, e02525.	2.2	27
25	Biodiversity and Functional Ecology of Mesophotic Coral Reefs. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2018, 49, 49-71.	8.3	74
26	To what extent do mesophotic coral ecosystems and shallow reefs share species of conservation interest? A systematic review. <i>Environmental Evidence</i> , 2018, 7, .	2.7	36
27	Allelopathy-mediated competition in microbial mats from Antarctic lakes. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	2.7	2
28	Large-scale invasion of western Atlantic mesophotic reefs by lionfish potentially undermines culling-based management. <i>Biological Invasions</i> , 2017, 19, 939-954.	2.4	67
29	Nutrient Fluxes and Ecological Functions of Coral Reef Sponges in a Changing Ocean. , 2017, , 373-410.		82
30	Comparative Genomics of Color Morphs In the Coral <i>Montastraea cavernosa</i> . <i>Scientific Reports</i> , 2017, 7, 16039.	3.3	16
31	Climate change stressors cause metabolic depression in the blue mussel, <i>Mytilus edulis</i> , from the Gulf of Maine. <i>Limnology and Oceanography</i> , 2016, 61, 1705-1717.	3.1	37
32	Environmental drivers of microbial community shifts in the giant barrel sponge, <i>Xestospongia muta</i> , over a shallow to mesophotic depth gradient. <i>Environmental Microbiology</i> , 2016, 18, 2025-2038.	3.8	52
33	To what extent do mesophotic coral ecosystems and shallow reefs share species of conservation interest?. <i>Environmental Evidence</i> , 2016, 5, .	2.7	16
34	Variability in chemical defense across a shallow to mesophotic depth gradient in the Caribbean sponge <i>Plakortis angulospiculatus</i> . <i>Coral Reefs</i> , 2016, 35, 11-22.	2.2	32
35	Aposematic coloration does not deter corallivory by fish on the coral <i>Montastraea cavernosa</i> . <i>Coral Reefs</i> , 2016, 35, 883-887.	2.2	3
36	Theme section on mesophotic coral ecosystems: advances in knowledge and future perspectives. <i>Coral Reefs</i> , 2016, 35, 1-9.	2.2	162

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37	Transcriptomic Resources for the Rocky Intertidal Blue Mussel <i>Mytilus edulis</i> from the Gulf of Maine. <i>Journal of Shellfish Research</i> , 2016, 35, 435-465.	0.9	6
38	Climate change stressors destabilize the microbiome of the Caribbean barrel sponge, <i>Xestospongia muta</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2016, 475, 11-18.	1.5	87
39	Comparative genomics explains the evolutionary success of reef-forming corals. <i>ELife</i> , 2016, 5, .	6.0	169
40	Transcriptional activity of the giant barrel sponge, <i>Xestospongia muta</i> Holobiont: molecular evidence for metabolic interchange. <i>Frontiers in Microbiology</i> , 2015, 6, 364.	3.5	105
41	Culture-dependent and culture-independent analyses reveal no prokaryotic community shifts or recovery of <i>Serratia marcescens</i> in <i>Acropora palmata</i> with white pox disease. <i>FEMS Microbiology Ecology</i> , 2014, 88, 457-467.	2.7	33
42	Evaluating the causal basis of ecological success within the scleractinia: an integral projection model approach. <i>Marine Biology</i> , 2014, 161, 2719-2734.	1.5	48
43	Allelopathy in the tropical alga <i>Sargassum polyceratum</i> (Sargassaceae): mechanistic basis for a phase shift on mesophotic coral reefs?. <i>Journal of Phycology</i> , 2014, 50, 493-505.	2.3	63
44	Fluorescent epibiotic microbial community on the carapace of a Bahamian ostracod. <i>Archives of Microbiology</i> , 2013, 195, 595-604.	2.2	3
45	Using energetic budgets to assess the effects of environmental stress on corals: are we measuring the right things?. <i>Coral Reefs</i> , 2013, 32, 25-33.	2.2	62
46	The endosymbiotic dinoflagellates (<i>Symbiodinium</i> sp.) of corals are parasites and mutualists. <i>Coral Reefs</i> , 2013, 32, 603-611.	2.2	138
47	Diazotrophic diversity in the Caribbean coral, <i>Montastraea cavernosa</i> . <i>Archives of Microbiology</i> , 2013, 195, 853-859.	2.2	31
48	Symbiotic prokaryotic communities from different populations of the giant barrel sponge, <i>Xestospongia muta</i> . <i>MicrobiologyOpen</i> , 2013, 2, 938-952.	3.0	45
49	Genetic Structure in the Coral, <i>Montastraea cavernosa</i> : Assessing Genetic Differentiation among and within Mesophotic Reefs. <i>PLoS ONE</i> , 2013, 8, e65845.	2.5	96
50	Nitrogen Biogeochemistry in the Caribbean Sponge, <i>Xestospongia muta</i> : A Source or Sink of Dissolved Inorganic Nitrogen?. <i>PLoS ONE</i> , 2013, 8, e72961.	2.5	94
51	Ecology of Caribbean Sponges: Are Top-Down or Bottom-Up Processes More Important?. <i>PLoS ONE</i> , 2013, 8, e79799.	2.5	71
52	Coral Bleaching: Causes and Mechanisms. , 2011, , 405-419.		198
53	Phase shift to algal dominated communities at mesophotic depths associated with lionfish (Pterois) Tj ETQq1 1 0.784314 rgBT /Overl	2.4	216
54	Sea urchin tube feet are photosensory organs that express a rhabdomeric-like opsin and PAX6. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3371-3379.	2.6	64

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55	Interactions between stressors on coral reefs: analytical approaches, re-analysis of old data, and different conclusions. <i>Coral Reefs</i> , 2010, 29, 615-619.	2.2	16
56	The annual gametogenic cycle of the sea anemone <i>Metridium senile</i> from the Gulf of Maine. <i>Journal of Experimental Marine Biology and Ecology</i> , 2010, 390, 58-64.	1.5	10
57	Physiological response of the blue mussel <i>Mytilus edulis</i> to differences in food and temperature in the Gulf of Maine. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2010, 156, 541-551.	1.8	68
58	Depth-dependent Effects of Ultraviolet Radiation on Survivorship, Oxidative Stress and DNA Damage in Sea Urchin (<i>Strongylocentrotus droebachiensis</i>) Embryos from the Gulf of Maine. <i>Photochemistry and Photobiology</i> , 2010, 86, 382-388.	2.5	29
59	Photoacclimatization by the coral <i>Montastraea cavernosa</i> in the mesophotic zone: light, food, and genetics. <i>Ecology</i> , 2010, 91, 990-1003.	3.2	227
60	Chlorophyll Fluorescence in Reef Building Corals. , 2010, , 209-222.		53
61	Nitrogen fixation and nitrogen transformations in marine symbioses. <i>Trends in Microbiology</i> , 2010, 18, 455-463.	7.7	183
62	Ecology of mesophotic coral reefs. <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 375, 1-8.	1.5	410
63	Effects of solar ultraviolet radiation on coral reef organisms. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 1276-1294.	2.9	105
64	Mass Culture and Characterization of Tumor Cells From a Naturally Occurring Invertebrate Cancer Model: Applications for Human and Animal Disease and Environmental Health. <i>Biological Bulletin</i> , 2009, 216, 23-39.	1.8	40
65	Effects of ultraviolet radiation on productivity and nitrogen fixation in the Cyanobacterium, <i>Anabaena</i> sp. (Newton's strain). <i>Hydrobiologia</i> , 2008, 598, 1-9.	2.0	41
66	Solving cryptogenic histories using host and parasite molecular genetics: the resolution of <i>Littorina littorea</i> 's North American origin. <i>Molecular Ecology</i> , 2008, 17, 3684-3696.	3.9	79
67	Long-term changes in the chlorophyll fluorescence of bleached and recovering corals from Hawaii. <i>Journal of Experimental Biology</i> , 2008, 211, 2502-2509.	1.7	28
68	Coral reef bleaching and global climate change: Can corals survive the next century?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5259-5260.	7.1	62
69	Stereological analysis of nutritive phagocytes and gametogenic cells during the annual reproductive cycle of the green sea urchin, <i>Strongylocentrotus droebachiensis</i> . <i>Invertebrate Biology</i> , 2007, 126, 202-209.	0.9	26
70	The effects of short-term exposures to ultraviolet radiation in the Hawaiian Coral <i>Montipora verrucosa</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 340, 194-203.	1.5	39
71	Are infectious diseases really killing corals? Alternative interpretations of the experimental and ecological data. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 346, 36-44.	1.5	253
72	Bathymetry, water optical properties, and benthic classification of coral reefs using hyperspectral remote sensing imagery. <i>Coral Reefs</i> , 2007, 26, 819-829.	2.2	118

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73	OXIDATIVE STRESS IN MARINE ENVIRONMENTS: Biochemistry and Physiological Ecology. Annual Review of Physiology, 2006, 68, 253-278.	13.1	1,441
74	Quenching of superoxide radicals by green fluorescent protein. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 1690-1695.	2.4	145
75	Biological weighting functions for DNA damage in sea urchin embryos exposed to ultraviolet radiation. Journal of Experimental Marine Biology and Ecology, 2006, 328, 10-21.	1.5	26
76	Benthicâ€‘pelagic coupling on coral reefs: Feeding and growth of Caribbean sponges. Journal of Experimental Marine Biology and Ecology, 2006, 328, 277-288.	1.5	157
77	The distribution of mycosporine-like amino acids (MAAs) and the phylogenetic identity of symbiotic dinoflagellates in cnidarian hosts from the Mexican Caribbean. Journal of Experimental Marine Biology and Ecology, 2006, 337, 131-146.	1.5	93
78	DNA photorepair in echinoid embryos: effects of temperature on repair rate in Antarctic and non-Antarctic species. Journal of Experimental Biology, 2006, 209, 5017-5028.	1.7	60
79	Nutritive Phagocyte Incubation Chambers Provide a Structural and Nutritive Microenvironment for Germ Cells of <i>Strongylocentrotus droebachiensis</i> , the Green Sea Urchin. Biological Bulletin, 2005, 209, 31-48.	1.8	77
80	Variation in sunscreen compounds (myscosporineâ€‘like amino acids) for marine species along a gradient of ultraviolet radiation transmission within doubtful sound, New Zealand. New Zealand Journal of Marine and Freshwater Research, 2004, 38, 775-793.	2.0	24
81	Transmission of ultraviolet radiation through the Antarctic annual sea ice and its biological effects on sea urchin embryos. Limnology and Oceanography, 2004, 49, 1957-1963.	3.1	44
82	Experimental biology of coral reef ecosystems. Journal of Experimental Marine Biology and Ecology, 2004, 300, 217-252.	1.5	203
83	Seasonal temperature compensation in the horse mussel, <i>Modiolus modiolus</i> : metabolic enzymes, oxidative stress and heat shock proteins. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2004, 137, 495-504.	1.8	85
84	Exposure to solar radiation increases damage to both host tissues and algal symbionts of corals during thermal stress. Coral Reefs, 2004, 23, 367-377.	2.2	374
85	Discovery of Symbiotic Nitrogen-Fixing Cyanobacteria in Corals. Science, 2004, 305, 997-1000.	12.6	413
86	Survivorship, development, and DNA damage in echinoderm embryos and larvae exposed to ultraviolet radiation (290â€‘400 nm). Journal of Experimental Marine Biology and Ecology, 2003, 292, 75-91.	1.5	58
87	Exposure to ultraviolet radiation causes apoptosis in developing sea urchin embryos. Journal of Experimental Biology, 2003, 206, 4097-4103.	1.7	98
88	Highâ€‘resolution determination of coral reef bottom cover from multispectral fluorescence laser line scan imagery. Limnology and Oceanography, 2003, 48, 522-534.	3.1	41
89	Greenâ€‘fluorescent proteins in Caribbean corals. Limnology and Oceanography, 2003, 48, 402-411.	3.1	91
90	EFFECTS OF UV RADIATION ON A CHLOROPHYTE ALGA (<i>SCENEDESMUS</i> SP.) ISOLATED FROM THE FUMAROLE FIELDS OF MT. EREBUS, ANTARCTICA. Journal of Phycology, 2002, 38, 473-481.	2.3	25

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91	EFFECTS OF UV RADIATION ON A CHLOROPHYTE ALGA (SCENEDESMUS SP.) ISOLATED FROM THE FUMAROLE FIELDS OF MT. EREBUS, ANTARCTICA ¹ . <i>Journal of Phycology</i> , 2002, 38, 473-481.	2.3	4
92	Exposure to Ultraviolet Radiation (290–400 nm) Causes Oxidative Stress, DNA Damage, and Expression of p53/p73 in Laboratory Experiments on Embryos of the Spotted Salamander, <i>Ambystoma maculatum</i> . <i>Physiological and Biochemical Zoology</i> , 2001, 74, 733-741.	1.5	36
93	Photosynthesis and photoprotection in symbiotic corals. <i>Limnology and Oceanography</i> , 2001, 46, 75-85.	3.1	253
94	Expression of homologues for p53 and p73 in the softshell clam (<i>Mya arenaria</i>), a naturally-occurring model for human cancer. <i>Oncogene</i> , 2001, 20, 748-758.	5.9	86
95	Fast repetition rate (FRR) fluorometry: variability of chlorophyll a fluorescence yields in colonies of the corals, <i>Montastraea faveolata</i> (w.) and <i>Diploria labyrinthiformes</i> (h.) recovering from bleaching. <i>Journal of Experimental Marine Biology and Ecology</i> , 2000, 252, 75-84.	1.5	28
96	Effects of ultraviolet radiation on primary productivity in a high altitude tropical lake. <i>Hydrobiologia</i> , 1998, 385, 23-32.	2.0	34
97	UV-absorbing compounds in the coral <i>Pocillopora damicornis</i> : Interactive effects of UV radiation, photosynthetically active radiation, and water flow. <i>Limnology and Oceanography</i> , 1997, 42, 1468-1473.	3.1	52
98	EFFECTS OF ULTRAVIOLET RADIATION ON PHOTOSYNTHESIS IN THE SUBTROPICAL MARINE DIATOM, <i>CHAETOCEROS GRACILIS</i> (BACILLARIOPHYCEAE) ¹ . <i>Journal of Phycology</i> , 1997, 33, 960-968.	2.3	41
99	Ecology of the hagfish, <i>Myxine glutinosa</i> L. in the Gulf of Maine I. Metabolic rates and energetics. <i>Journal of Experimental Marine Biology and Ecology</i> , 1997, 208, 215-225.	1.5	27
100	Ecology of the hagfish, <i>Myxine glutinosa</i> L., in the gulf of Maine: II. Potential impact on benthic communities and commercial fisheries. <i>Journal of Experimental Marine Biology and Ecology</i> , 1997, 214, 97-106.	1.5	22
101	Effects of ultraviolet radiation on corals and other coral reef organisms. <i>Global Change Biology</i> , 1996, 2, 527-545.	9.5	219
102	Elevated temperatures and ultraviolet radiation cause oxidative stress and inhibit photosynthesis in symbiotic dinoflagellates. <i>Limnology and Oceanography</i> , 1996, 41, 271-283.	3.1	511
103	Effects of morphology and water motion on carbon delivery and productivity in the reef coral, <i>Pocillopora damicornis</i> (Linnaeus): Diffusion barriers, inorganic carbon limitation, and biochemical plasticity. <i>Journal of Experimental Marine Biology and Ecology</i> , 1994, 178, 153-179.	1.5	236
104	CARBON UPTAKE IN A MARINE DIATOM DURING ACUTE EXPOSURE TO ULTRAVIOLET B RADIATION: RELATIVE IMPORTANCE OF DAMAGE AND REPAIR ¹ . <i>Journal of Phycology</i> , 1994, 30, 183-192.	2.3	181
105	Irradiance-induced variability in light scatter from marine phytoplankton in culture. <i>Journal of Plankton Research</i> , 1993, 15, 737-759.	1.8	23
106	Impact of fouling organisms on mussel rope culture: interspecific competition for food among suspension-feeding invertebrates. <i>Journal of Experimental Marine Biology and Ecology</i> , 1992, 165, 91-102.	1.5	155
107	Effects of visible and ultraviolet radiation on the ultrastructure of zooxanthellae (<i>Symbiodinium</i> sp.) in culture and in situ. <i>Cell and Tissue Research</i> , 1990, 261, 501-508.	2.9	31
108	Photoadaptation and Protection against Active Forms of Oxygen in the Symbiotic Prokaryote <i>Prochloron</i> sp. and Its Ascidian Host. <i>Applied and Environmental Microbiology</i> , 1990, 56, 1530-1535.	3.1	44

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109	Description of a Novel Symbiotic Bacterium from the Brittle Star, <i>Amphipholis squamata</i> . Applied and Environmental Microbiology, 1990, 56, 2436-2440.	3.1	16
110	Photobiology of natural populations of zooxanthellae from the sea anemone <i>Aiptasia pallida</i> : Assessment of the host's role in protection against ultraviolet radiation. Cytometry, 1989, 10, 653-658.	1.8	23
111	Photoadaptation and defenses against oxygen toxicity in zooxanthellae from natural populations of symbiotic cnidarians. Journal of Experimental Marine Biology and Ecology, 1989, 134, 129-141.	1.5	47