

David F Gruber

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,389
citations

279798
23
h-index

214800
47
g-index

56
all docs

56
docs citations

56
times ranked

3001
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward understanding the communication in sperm whales. <i>IScience</i> , 2022, 25, 104393.	4.1	7
2	Advances and future outlooks in soft robotics for minimally invasive marine biology. <i>Science Robotics</i> , 2022, 7, eabm6807.	17.6	19
3	Selection, drift, and constraint in cyprinid luciferases and the diversification of bioluminescent signals in sea fireflies. <i>Molecular Ecology</i> , 2021, 30, 1864-1879.	3.9	14
4	A novel fish sampling system for ROVs. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2021, 167, 103428.	1.4	4
5	First Report of Biofluorescence in Arctic Snailfishes and Rare Occurrence of Multiple Fluorescent Colors in a Single Species. <i>American Museum Novitates</i> , 2021, 2020, .	0.6	5
6	Discovery and Characterization of a Bilirubin Inducible Green Fluorescent Protein From the Moray Eel <i>Gymnothorax zonipectis</i> . <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	3
7	Description of a New Species of Rariphotic Parapercis (Perciformes: Pinguipedidae) from the Solomon Islands. <i>American Museum Novitates</i> , 2021, 2021, .	0.6	0
8	A putative chordate luciferase from a cosmopolitan tunicate indicates convergent bioluminescence evolution across phyla. <i>Scientific Reports</i> , 2020, 10, 17724.	3.3	16
9	Evolutionary Traits that Enable Scleractinian Corals to Survive Mass Extinction Events. <i>Scientific Reports</i> , 2020, 10, 3903.	3.3	21
10	Disrupting Fluorescence by Mutagenesis in a Green Fluorescent Fatty Acid Binding Protein from a Marine Eel. <i>Protein Journal</i> , 2020, 39, 145-151.	1.6	3
11	Ultra-gentle soft robotic fingers induce minimal transcriptomic response in a fragile marine animal. <i>Current Biology</i> , 2020, 30, R157-R158.	3.9	9
12	Bright Green Biofluorescence in Sharks Derives from Bromo-Kynurenine Metabolism. <i>IScience</i> , 2019, 19, 1291-1336.	4.1	27
13	Bioluminescent flashes drive nighttime schooling behavior and synchronized swimming dynamics in flashlight fish. <i>PLoS ONE</i> , 2019, 14, e0219852.	2.5	20
14	Ultragentle manipulation of delicate structures using a soft robotic gripper. <i>Science Robotics</i> , 2019, 4, .	17.6	186
15	Deep Machine Learning Techniques for the Detection and Classification of Sperm Whale Bioacoustics. <i>Scientific Reports</i> , 2019, 9, 12588.	3.3	57
16	A Modular Soft Robotic Wrist for Underwater Manipulation. <i>Soft Robotics</i> , 2018, 5, 399-409.	8.0	98
17	A Dexterous, Glove-Based Teleoperable Low-Power Soft Robotic Arm for Delicate Deep-Sea Biological Exploration. <i>Scientific Reports</i> , 2018, 8, 14779.	3.3	98
18	Shipboard design and fabrication of custom 3D-printed soft robotic manipulators for the investigation of delicate deep-sea organisms. <i>PLoS ONE</i> , 2018, 13, e0200386.	2.5	58

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19	Rotary-actuated folding polyhedrons for midwater investigation of delicate marine organisms. <i>Science Robotics</i> , 2018, 3, .	17.6	59
20	In situ Observations of the Meso-Bathypelagic Scyphozoan, <i>Deepstaria enigmatica</i> (Semaestomeae: Ulmaridae). <i>American Museum Novitates</i> , 2018, 3900, 1-14.	0.6	3
21	Luciferin production and luciferase transcription in the bioluminescent copepod <i>Metridia lucens</i> . <i>PeerJ</i> , 2018, 6, e5506.	2.0	8
22	Glowing Worms: Biological, Chemical, and Functional Diversity of Bioluminescent Annelids. <i>Integrative and Comparative Biology</i> , 2017, 57, 18-32.	2.0	51
23	First Evidence of Bioluminescence on a "Black Smoker" Hydrothermal Chimney. <i>Oceanography</i> , 2016, 29, .	1.0	2
24	Novel Adaptive Photosynthetic Characteristics of Mesophotic Symbiotic Microalgae within the Reef-Building Coral, <i>Stylophora pistillata</i> . <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	48
25	Soft Robotic Grippers for Biological Sampling on Deep Reefs. <i>Soft Robotics</i> , 2016, 3, 23-33.	8.0	624
26	Biofluorescence in Catsharks (Scyliorhinidae): Fundamental Description and Relevance for Elasmobranch Visual Ecology. <i>Scientific Reports</i> , 2016, 6, 24751.	3.3	35
27	Observations of in situ deep-sea marine bioluminescence with a high-speed, high-resolution sCMOS camera. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 111, 102-109.	1.4	20
28	Comparative genomics explains the evolutionary success of reef-forming corals. <i>ELife</i> , 2016, 5, .	6.0	169
29	First Observation of Fluorescence in Marine Turtles. <i>American Museum Novitates</i> , 2015, 3845, 1-8.	0.6	32
30	Transcriptome sequencing and annotation of the polychaete <i>Hermodice carunculata</i> (Annelida). <i>Tj ETQqO O O rgBT /Qverlock 10 Tf 50 30</i>	2.8	23
31	Adaptive Evolution of Eel Fluorescent Proteins from Fatty Acid Binding Proteins Produces Bright Fluorescence in the Marine Environment. <i>PLoS ONE</i> , 2015, 10, e0140972.	2.5	31
32	Distribution of the <i>Lamellibrachia</i> spp. (Siboglinidae, Annelida) and their trophosome endosymbiont phylotypes in the Mediterranean Sea. <i>Marine Biology</i> , 2014, 161, 1229-1239.	1.5	7
33	Epigenome: Biosensor of Cumulative Exposure to Chemical and Nonchemical Stressors Related to Environmental Justice. <i>American Journal of Public Health</i> , 2014, 104, 1816-1821.	2.7	40
34	The Covert World of Fish Biofluorescence: A Phylogenetically Widespread and Phenotypically Variable Phenomenon. <i>PLoS ONE</i> , 2014, 9, e83259.	2.5	135
35	Seasonal Mesophotic Coral Bleaching of <i>Stylophora pistillata</i> in the Northern Red Sea. <i>PLoS ONE</i> , 2014, 9, e84968.	2.5	51
36	Transcriptome deep-sequencing and clustering of expressed isoforms from <i>Favia</i> corals. <i>BMC Genomics</i> , 2013, 14, 546.	2.8	22

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37	Symbiotic transition of algaeâ€“coral triggered by paleoclimatic events?. Trends in Ecology and Evolution, 2012, 27, 194-195.	8.7	4
38	A New Mesophotic Clingfish (Teleostei: Gobiesocidae) from the Bahamas. Copeia, 2012, 2012, 251-256.	1.3	16
39	Changes in scleractinian coral Seriatopora hystrix morphology and its endocellular Symbiodinium characteristics along a bathymetric gradient from shallow to mesophotic reef. Coral Reefs, 2011, 30, 1089-1100.	2.2	64
40	Photoacclimation mechanisms of corallimorpharians on coral reefs: Photosynthetic parameters of zooxanthellae and host cellular responses to variation in irradiance. Journal of Experimental Marine Biology and Ecology, 2010, 394, 53-62.	1.5	21
41	A new bright greenâ€“emitting fluorescent protein â€“ engineered monomeric and dimeric forms. FEBS Journal, 2010, 277, 1967-1978.	4.7	39
42	The Correlation between Rates of Cancer and Autism: An Exploratory Ecological Investigation. PLoS ONE, 2010, 5, e9372.	2.5	36
43	Characterization of New and Improved Fluorescent Proteins and their Applications. Biophysical Journal, 2010, 98, 603a.	0.5	0
44	Novel Internal Regions of Fluorescent Proteins Undergo Divergent Evolutionary Patterns. Molecular Biology and Evolution, 2009, 26, 2841-2848.	8.9	7
45	Three's company. Nature Medicine, 2009, 15, 232-235.	30.7	2
46	Growth Phase and Elemental Stoichiometry of Bacterial Prey Influences Ciliate Grazing Selectivity. Journal of Eukaryotic Microbiology, 2009, 56, 466-471.	1.7	17
47	Preliminary studies find DNA erosion in mental disorders. Nature Medicine, 2008, 14, 1295-1295.	30.7	0
48	Strict regulation of gene expression from a high-copy plasmid utilizing a dual vector system. Protein Expression and Purification, 2008, 60, 53-57.	1.3	17
49	Patterns of Fluorescent Protein Expression in Scleractinian Corals. Biological Bulletin, 2008, 215, 143-154.	1.8	35
50	Dynamic Regulation of Fluorescent Proteins from a Single Species of Coral. Marine Biotechnology, 2007, 9, 733-746.	2.4	27
51	Dynamics and Characterization of Refractory Dissolved Organic Matter Produced by a Pure Bacterial Culture in an Experimental Predator-Prey System. Applied and Environmental Microbiology, 2006, 72, 4184-4191.	3.1	85