AndrÃ©a G Grottoli

List of Publications by Year
in descending order

61	4,837	117571	118793
papers	citations	34 h-index	62 g-index

72	72	72	2906
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Natural Variability in Caribbean Coral Physiology and Implications for Coral Bleaching Resilience. Frontiers in Marine Science, 2022, 8, .	1.2	8
2	Physiological acclimatization in Hawaiian corals following a 22-month shift in baseline seawater temperature and pH. Scientific Reports, 2022, 12, 3712.	1.6	9
3	Coralâ€bleaching responses to climate change across biological scales. Global Change Biology, 2022, 28, 4229-4250.	4.2	44
4	Increasing comparability among coral bleaching experiments. Ecological Applications, 2021, 31, e02262.	1.8	68
5	Isotopic approaches to estimating the contribution of heterotrophic sources to Hawaiian corals. Limnology and Oceanography, 2021, 66, 2393-2407.	1.6	21
6	Moderate nutrient concentrations are not detrimental to corals under future ocean conditions. Marine Biology, 2021, 168, 1.	0.7	12
7	A review of coral bleaching specimen collection, preservation, and laboratory processing methods. PeerJ, 2021, 9, e11763.	0.9	6
8	The Effects of Temperature, Light, and Feeding on the Physiology of Pocillopora damicornis, Stylophora pistillata, and Turbinaria reniformis Corals. Water (Switzerland), 2021, 13, 2048.	1.2	14
9	Environmental gradients drive physiological variation in Hawaiian corals. Coral Reefs, 2021, 40, 1505-1523.	0.9	8
10	Effect of species, provenance, and coral physiology on the composition of Hawaiian coral-associated microbial communities. Coral Reefs, 2021, 40, 1537-1548.	0.9	4
11	Lipid class composition of annually bleached Caribbean corals. Marine Biology, 2020, 167, 1.	0.7	5
12	Natural Variability of Skeletal Elemental Phosphorus (P/Ca), Lead (Pb/Ca), and Barium (Ba/Ca) in the Western Pacific Sclerosponges Acanthoceatetes wellsi and Astrosclera welleyana. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009245.	1.0	1
13	Thirty years of coral heat-stress experiments: a review of methods. Coral Reefs, 2020, 39, 885-902.	0.9	96
14	Molecular tools for coral reef restoration: Beyond biomarker discovery. Conservation Letters, 2020, 13, e12687.	2.8	44
15	Effects of agricultural and tillage practices on isotopic signatures and fluxes of organic and inorganic carbon in headwater streams. Aquatic Sciences, 2020, 82, 1.	0.6	5
16	Considerations for maximizing the adaptive potential of restored coral populations in the western Atlantic. Ecological Applications, 2019, 29, e01978.	1.8	163
17	Long-term recovery of Caribbean corals from bleaching. Journal of Experimental Marine Biology and Ecology, 2018, 506, 124-134.	0.7	32
18	Quantitative interpretation of vertical profiles of calcium and pH in the coral coelenteron. Marine Chemistry, 2018, 204, 62-69.	0.9	11

#	ARTICLE	IF	CITATIONS
19	Coral physiology and microbiome dynamics under combined warming and ocean acidification. PLoS ONE, 2018, 13, e0191156.	1.1	158
20	Influence of land use and lithology on sources and ages of nutritional resources for stream macroinvertebrates: a multi-isotopic approach. Aquatic Sciences, 2017, 79, 925-939.	0.6	11
21	Coral calcification under environmental change: a direct comparison of the alkalinity anomaly and buoyant weight techniques. Coral Reefs, 2017, 36, 13-25.	0.9	14
22	Physiological and Biogeochemical Responses of Super-Corals to Thermal Stress from the Northern Gulf of Aqaba, Red Sea. Frontiers in Marine Science, 2017, 4, .	1.2	57
23	Microelectrode characterization of coral daytime interior pH and carbonate chemistry. Nature Communications, 2016, 7, 11144.	5.8	115
24	High-temperature acclimation strategies within the thermally tolerant endosymbiont Symbiodinium trenchii and its coral host, Turbinaria reniformis, differ with changing pCO 2 and nutrients. Marine Biology, 2016, 163, 1.	0.7	14
25	Multi-colony calibrations of coral Ba/Ca with a contemporaneous in situ seawater barium record. Geochimica Et Cosmochimica Acta, 2016, 179, 203-216.	1.6	55
26	Can heterotrophic uptake of dissolved organic carbon and zooplankton mitigate carbon budget deficits in annually bleached corals?. Coral Reefs, 2016, 35, 495-506.	0.9	75
27	Physiological response to elevated temperature and pCO2 varies across four Pacific coral species: Understanding the unique host+symbiont response. Scientific Reports, 2015, 5, 18371.	1.6	72
28	Annual coral bleaching and the long-term recovery capacity of coral. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151887.	1.2	100
29	Partitioning of nitrogen sources to algal endosymbionts of corals with long-term 15N-labelling and a mixing model. Ecological Modelling, 2015, 309-310, 163-169.	1.2	59
30	Photoautotrophic and heterotrophic carbon in bleached and non-bleached coral lipid acquisition and storage. Journal of Experimental Marine Biology and Ecology, 2014, 461, 469-478.	0.7	60
31	The cumulative impact of annual coral bleaching can turn some coral species winners into losers. Global Change Biology, 2014, 20, 3823-3833.	4.2	352
32	Kinetic and metabolic isotope effects in coral skeletal carbon isotopes: A re-evaluation using experimental coral bleaching as a case study. Geochimica Et Cosmochimica Acta, 2014, 146, 164-178.	1.6	30
33	Short-Term Coral Bleaching Is Not Recorded by Skeletal Boron Isotopes. PLoS ONE, 2014, 9, e112011.	1.1	17
34	Carbon isotope biogeochemistry of tropical small mountainous river, estuarine, and coastal systems of Puerto Rico. Biogeochemistry, 2013, 112, 589-612.	1.7	38
35	High resolution coral Cd measurements using LA-ICP-MS and ID-ICP-MS: Calibration and interpretation. Chemical Geology, 2013, 356, 151-159.	1.4	14
36	Heterotrophic Compensation: A Possible Mechanism for Resilience of Coral Reefs to Global Warming or a Sign of Prolonged Stress?. PLoS ONE, 2013, 8, e81172.	1.1	119

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37	Physiological and Biogeochemical Traits of Bleaching and Recovery in the Mounding Species of Coral Porites lobata: Implications for Resilience in Mounding Corals. PLoS ONE, 2013, 8, e63267.	1.1	85
38	Coral Energy Reserves and Calcification in a High-CO2 World at Two Temperatures. PLoS ONE, 2013, 8, e75049.	1.1	137
39	A multiproxy record of terrestrial inputs to the coastal ocean using minor and trace elements (Ba/Ca,) Tj ETQq1 1 0.784314 rgBT /Ove Puerto Rico. Paleoceanography, 2012, 27, .	3.0	39
40	Bleached Porites compressa and Montipora capitata corals catabolize Î´13C-enriched lipids. Coral Reefs, 2011, 30, 687.	0.9	37
41	Coral skeletal carbon isotopes (Î´13C and Î”14C) record the delivery of terrestrial carbon to the coastal waters of Puerto Rico. Coral Reefs, 2011, 30, 791.	0.9	30
42	Stable oxygen isotope records of corals and a sclerosponge in the Western Pacific warm pool. Coral Reefs, 2010, 29, 413-418.	0.9	10
43	Growth rates, stable oxygen isotopes (Î´¹⁸O), and strontium (Sr/Ca) composition in two species of Pacific sclerosponges (Acanthocheatetes wellsi and Astrosclera) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 of Geophysical Research, 2010, 115, .	3.3	15
44	Recent shoaling of the nutricline and thermocline in the western tropical Pacific. Geophysical Research Letters, 2010, 37, .	1.5	31
45	Coral skeleton P/Ca proxy for seawater phosphate: Multi-colony calibration with a contemporaneous seawater phosphate record. Geochimica Et Cosmochimica Acta, 2010, 74, 1282-1293.	1.6	52
46	Energetics approach to predicting mortality risk from environmental stress: a case study of coral bleaching. Functional Ecology, 2009, 23, 539-550.	1.7	223
47	Lipid class composition of bleached and recovering Porites compressa Dana, 1846 and Montipora capitata Dana, 1846 corals from Hawaii. Journal of Experimental Marine Biology and Ecology, 2008, 358, 136-143.	0.7	69
48	The importance of zooplankton to the daily metabolic carbon requirements of healthy and bleached corals at two depths. Journal of Experimental Marine Biology and Ecology, 2008, 367, 180-188.	0.7	153
49	Skeletal P/Ca tracks upwelling in Gulf of PanamÃ¡ coral: Evidence for a new seawater phosphate proxy. Geophysical Research Letters, 2008, 35, .	1.5	45
50	Upwelling, species, and depth effects on coral skeletal cadmium-to-calcium ratios (Cd/Ca). Geochimica Et Cosmochimica Acta, 2008, 72, 4537-4550.	1.6	36
51	Long-term changes in the chlorophyll fluorescence of bleached and recovering corals from Hawaii. Journal of Experimental Biology, 2008, 211, 2502-2509.	0.8	28
52	Energy reserves and metabolism as indicators of coral recovery from bleaching. Limnology and Oceanography, 2007, 52, 1874-1882.	1.6	267
53	A review of modern coral Î´18O and Î”14C proxy records. Earth-Science Reviews, 2007, 81, 67-91.	4.0	163
54	Cadmium measurements in coral skeleton using isotope dilution-inductively coupled plasma-mass spectrometry. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	10

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55	Calcification rate and the stable carbon, oxygen, and nitrogen isotopes in the skeleton, host tissue, and zooxanthellae of bleached and recovering Hawaiian corals. Geochimica Et Cosmochimica Acta, 2006, 70, 2781-2789.	1.6	107
56	Heterotrophic plasticity and resilience in bleached corals. Nature, 2006, 440, 1186-1189.	13.7	763
57	Effect of naturally changing zooplankton concentrations on feeding rates of two coral species in the Eastern Pacific. Journal of Experimental Marine Biology and Ecology, 2006, 331, 99-107.	0.7	84
58	Lipids and stable carbon isotopes in two species of Hawaiian corals, Porites compressa and Montipora verrucosa, following a bleaching event. Marine Biology, 2004, 145, 621.	0.7	236
59	Decadal Timescale Shift in the 14C Record of a Central Equatorial Pacific Coral. Radiocarbon, 2003, 45, 91-99.	0.8	24
60	Effect of light and zooplankton on skeletal Î´ 13 C values in the eastern Pacific corals Pavona clavus and Pavona gigantea. Coral Reefs, 1999, 18, 29-41.	0.9	147
61	Variability of stable isotopes and maximum linear extension in reef-coral skeletons at Kaneohe Bay, Hawaii. Marine Biology, 1999, 135, 437-449.	0.7	61