

Andrea G Grotoli

List of Publications by Year in descending order

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61
papers

4,837
citations

117453

34
h-index

118652

62
g-index

72
all docs

72
docs citations

72
times ranked

2906
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterotrophic plasticity and resilience in bleached corals. <i>Nature</i> , 2006, 440, 1186-1189.	13.7	763
2	The cumulative impact of annual coral bleaching can turn some coral species winners into losers. <i>Global Change Biology</i> , 2014, 20, 3823-3833.	4.2	352
3	Energy reserves and metabolism as indicators of coral recovery from bleaching. <i>Limnology and Oceanography</i> , 2007, 52, 1874-1882.	1.6	267
4	Lipids and stable carbon isotopes in two species of Hawaiian corals, <i>Porites compressa</i> and <i>Montipora verrucosa</i> , following a bleaching event. <i>Marine Biology</i> , 2004, 145, 621.	0.7	236
5	Energetics approach to predicting mortality risk from environmental stress: a case study of coral bleaching. <i>Functional Ecology</i> , 2009, 23, 539-550.	1.7	223
6	A review of modern coral $\delta^{18}\text{O}$ and $\delta^{14}\text{C}$ proxy records. <i>Earth-Science Reviews</i> , 2007, 81, 67-91.	4.0	163
7	Considerations for maximizing the adaptive potential of restored coral populations in the western Atlantic. <i>Ecological Applications</i> , 2019, 29, e01978.	1.8	163
8	Coral physiology and microbiome dynamics under combined warming and ocean acidification. <i>PLoS ONE</i> , 2018, 13, e0191156.	1.1	158
9	The importance of zooplankton to the daily metabolic carbon requirements of healthy and bleached corals at two depths. <i>Journal of Experimental Marine Biology and Ecology</i> , 2008, 367, 180-188.	0.7	153
10	Effect of light and zooplankton on skeletal $\delta^{13}\text{C}$ values in the eastern Pacific corals <i>Pavona clavus</i> and <i>Pavona gigantea</i> . <i>Coral Reefs</i> , 1999, 18, 29-41.	0.9	147
11	Coral Energy Reserves and Calcification in a High-CO ₂ World at Two Temperatures. <i>PLoS ONE</i> , 2013, 8, e75049.	1.1	137
12	Heterotrophic Compensation: A Possible Mechanism for Resilience of Coral Reefs to Global Warming or a Sign of Prolonged Stress?. <i>PLoS ONE</i> , 2013, 8, e81172.	1.1	119
13	Microelectrode characterization of coral daytime interior pH and carbonate chemistry. <i>Nature Communications</i> , 2016, 7, 11144.	5.8	115
14	Calcification rate and the stable carbon, oxygen, and nitrogen isotopes in the skeleton, host tissue, and zooxanthellae of bleached and recovering Hawaiian corals. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2781-2789.	1.6	107
15	Annual coral bleaching and the long-term recovery capacity of coral. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151887.	1.2	100
16	Thirty years of coral heat-stress experiments: a review of methods. <i>Coral Reefs</i> , 2020, 39, 885-902.	0.9	96
17	Physiological and Biogeochemical Traits of Bleaching and Recovery in the Mounding Species of Coral <i>Porites lobata</i> : Implications for Resilience in Mounding Corals. <i>PLoS ONE</i> , 2013, 8, e63267.	1.1	85
18	Effect of naturally changing zooplankton concentrations on feeding rates of two coral species in the Eastern Pacific. <i>Journal of Experimental Marine Biology and Ecology</i> , 2006, 331, 99-107.	0.7	84

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19	Can heterotrophic uptake of dissolved organic carbon and zooplankton mitigate carbon budget deficits in annually bleached corals?. <i>Coral Reefs</i> , 2016, 35, 495-506.	0.9	75
20	Physiological response to elevated temperature and pCO ₂ varies across four Pacific coral species: Understanding the unique host+symbiont response. <i>Scientific Reports</i> , 2015, 5, 18371.	1.6	72
21	Lipid class composition of bleached and recovering <i>Porites compressa</i> Dana, 1846 and <i>Montipora capitata</i> Dana, 1846 corals from Hawaii. <i>Journal of Experimental Marine Biology and Ecology</i> , 2008, 358, 136-143.	0.7	69
22	Increasing comparability among coral bleaching experiments. <i>Ecological Applications</i> , 2021, 31, e02262.	1.8	68
23	Variability of stable isotopes and maximum linear extension in reef-coral skeletons at Kaneohe Bay, Hawaii. <i>Marine Biology</i> , 1999, 135, 437-449.	0.7	61
24	Photoautotrophic and heterotrophic carbon in bleached and non-bleached coral lipid acquisition and storage. <i>Journal of Experimental Marine Biology and Ecology</i> , 2014, 461, 469-478.	0.7	60
25	Partitioning of nitrogen sources to algal endosymbionts of corals with long-term ¹⁵ N-labelling and a mixing model. <i>Ecological Modelling</i> , 2015, 309-310, 163-169.	1.2	59
26	Physiological and Biogeochemical Responses of Super-Corals to Thermal Stress from the Northern Gulf of Aqaba, Red Sea. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	57
27	Multi-colony calibrations of coral Ba/Ca with a contemporaneous in situ seawater barium record. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 179, 203-216.	1.6	55
28	Coral skeleton P/Ca proxy for seawater phosphate: Multi-colony calibration with a contemporaneous seawater phosphate record. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1282-1293.	1.6	52
29	Skeletal P/Ca tracks upwelling in Gulf of Panamá; coral: Evidence for a new seawater phosphate proxy. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	45
30	Molecular tools for coral reef restoration: Beyond biomarker discovery. <i>Conservation Letters</i> , 2020, 13, e12687.	2.8	44
31	Coral bleaching responses to climate change across biological scales. <i>Global Change Biology</i> , 2022, 28, 4229-4250.	4.2	44
32	A multiproxy record of terrestrial inputs to the coastal ocean using minor and trace elements (Ba/Ca, Tj ETQq0 0 0 rgBT /Overlock 10 Tf Puerto Rico. <i>Paleoceanography</i> , 2012, 27, .	3.0	39
33	Carbon isotope biogeochemistry of tropical small mountainous river, estuarine, and coastal systems of Puerto Rico. <i>Biogeochemistry</i> , 2013, 112, 589-612.	1.7	38
34	Bleached <i>Porites compressa</i> and <i>Montipora capitata</i> corals catabolize ¹³ C-enriched lipids. <i>Coral Reefs</i> , 2011, 30, 687.	0.9	37
35	Upwelling, species, and depth effects on coral skeletal cadmium-to-calcium ratios (Cd/Ca). <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4537-4550.	1.6	36
36	Long-term recovery of Caribbean corals from bleaching. <i>Journal of Experimental Marine Biology and Ecology</i> , 2018, 506, 124-134.	0.7	32

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37	Recent shoaling of the nutricline and thermocline in the western tropical Pacific. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	31
38	Coral skeletal carbon isotopes ($\delta^{13}\text{C}$ and $\delta^{14}\text{C}$) record the delivery of terrestrial carbon to the coastal waters of Puerto Rico. <i>Coral Reefs</i> , 2011, 30, 791.	0.9	30
39	Kinetic and metabolic isotope effects in coral skeletal carbon isotopes: A re-evaluation using experimental coral bleaching as a case study. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 146, 164-178.	1.6	30
40	Long-term changes in the chlorophyll fluorescence of bleached and recovering corals from Hawaii. <i>Journal of Experimental Biology</i> , 2008, 211, 2502-2509.	0.8	28
41	Decadal Timescale Shift in the ^{14}C Record of a Central Equatorial Pacific Coral. <i>Radiocarbon</i> , 2003, 45, 91-99.	0.8	24
42	Isotopic approaches to estimating the contribution of heterotrophic sources to Hawaiian corals. <i>Limnology and Oceanography</i> , 2021, 66, 2393-2407.	1.6	21
43	Short-Term Coral Bleaching Is Not Recorded by Skeletal Boron Isotopes. <i>PLoS ONE</i> , 2014, 9, e112011.	1.1	17
44	Growth rates, stable oxygen isotopes ($\delta^{18}\text{O}$), and strontium (Sr/Ca) composition in two species of Pacific sclerosponges (<i>Acanthocheatetes wellsi</i> and <i>Astrosclera</i>) of Geophysical Research, 2010, 115, .	3.3	15
45	High resolution coral Cd measurements using LA-ICP-MS and ID-ICP-MS: Calibration and interpretation. <i>Chemical Geology</i> , 2013, 356, 151-159.	1.4	14
46	High-temperature acclimation strategies within the thermally tolerant endosymbiont <i>Symbiodinium trenchii</i> and its coral host, <i>Turbinaria reniformis</i> , differ with changing pCO ₂ and nutrients. <i>Marine Biology</i> , 2016, 163, 1.	0.7	14
47	Coral calcification under environmental change: a direct comparison of the alkalinity anomaly and buoyant weight techniques. <i>Coral Reefs</i> , 2017, 36, 13-25.	0.9	14
48	The Effects of Temperature, Light, and Feeding on the Physiology of <i>Pocillopora damicornis</i> , <i>Stylophora pistillata</i> , and <i>Turbinaria reniformis</i> Corals. <i>Water (Switzerland)</i> , 2021, 13, 2048.	1.2	14
49	Moderate nutrient concentrations are not detrimental to corals under future ocean conditions. <i>Marine Biology</i> , 2021, 168, 1.	0.7	12
50	Influence of land use and lithology on sources and ages of nutritional resources for stream macroinvertebrates: a multi-isotopic approach. <i>Aquatic Sciences</i> , 2017, 79, 925-939.	0.6	11
51	Quantitative interpretation of vertical profiles of calcium and pH in the coral coelenteron. <i>Marine Chemistry</i> , 2018, 204, 62-69.	0.9	11
52	Cadmium measurements in coral skeleton using isotope dilution-inductively coupled plasma-mass spectrometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	10
53	Stable oxygen isotope records of corals and a sclerosponge in the Western Pacific warm pool. <i>Coral Reefs</i> , 2010, 29, 413-418.	0.9	10
54	Physiological acclimatization in Hawaiian corals following a 22-month shift in baseline seawater temperature and pH. <i>Scientific Reports</i> , 2022, 12, 3712.	1.6	9

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55	Environmental gradients drive physiological variation in Hawaiian corals. <i>Coral Reefs</i> , 2021, 40, 1505-1523.	0.9	8
56	Natural Variability in Caribbean Coral Physiology and Implications for Coral Bleaching Resilience. <i>Frontiers in Marine Science</i> , 2022, 8, .	1.2	8
57	A review of coral bleaching specimen collection, preservation, and laboratory processing methods. <i>PeerJ</i> , 2021, 9, e11763.	0.9	6
58	Lipid class composition of annually bleached Caribbean corals. <i>Marine Biology</i> , 2020, 167, 1.	0.7	5
59	Effects of agricultural and tillage practices on isotopic signatures and fluxes of organic and inorganic carbon in headwater streams. <i>Aquatic Sciences</i> , 2020, 82, 1.	0.6	5
60	Effect of species, provenance, and coral physiology on the composition of Hawaiian coral-associated microbial communities. <i>Coral Reefs</i> , 2021, 40, 1537-1548.	0.9	4
61	Natural Variability of Skeletal Elemental Phosphorus (P/Ca), Lead (Pb/Ca), and Barium (Ba/Ca) in the Western Pacific Sclerosponges <i>Acanthoecetetes wellsi</i> and <i>Astrosclera welleyana</i> . <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009245.	1.0	1