Anthony A Chariton

List of Publications by Year
in descending order

68	2,167	218677	254184
papers	citations	26 h-index	43 g-index

70	70	70	3476
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	DNA metabarcodingâ€"Need for robust experimental designs to draw sound ecological conclusions. Molecular Ecology, 2019, 28, 1857-1862.	3.9	300
2	Ecological assessment of estuarine sediments by pyrosequencing eukaryotic ribosomal DNA. Frontiers in Ecology and the Environment, 2010, 8, 233-238.	4.0	161
3	Ecosystems monitoring powered by environmental genomics: A review of current strategies with an implementation roadmap. Molecular Ecology, 2021, 30, 2937-2958.	3.9	149
4	Metabarcoding of benthic eukaryote communities predicts the ecological condition of estuaries. Environmental Pollution, 2015, 203, 165-174.	7.5	125
5	Wells provide a distorted view of life in the aquifer: implications for sampling, monitoring and assessment of groundwater ecosystems. Scientific Reports, 2017, 7, 40702.	3.3	74
6	Horizon Scan of the Belt and Road Initiative. Trends in Ecology and Evolution, 2020, 35, 583-593.	8.7	70
7	Environmental DNA can act as a biodiversity barometer of anthropogenic pressures in coastal ecosystems. Scientific Reports, 2020, 10, 8365.	3.3	66
8	Arsenic concentrations and speciation in a temperate mangrove ecosystem, NSW, Australia. Applied Organometallic Chemistry, 2002, 16, 192-201.	3.5	59
9	Impacts of inundation and drought on eukaryote biodiversity in semiâ€arid floodplain soils. Molecular Ecology, 2013, 22, 1746-1758.	3.9	54
10	Social Barriers in Ecological Landscapes: The Social Resistance Hypothesis. Trends in Ecology and Evolution, 2020, 35, 137-148.	8.7	52
11	After decades of stressor research in urban estuarine ecosystems the focus is still on single stressors: A systematic literature review and meta-analysis. Science of the Total Environment, 2019, 684, 753-764.	8.0	50
12	A molecularâ€based approach for examining responses of eukaryotes in microcosms to contaminantâ€spiked estuarine sediments. Environmental Toxicology and Chemistry, 2014, 33, 359-369.	4.3	48
13	Influence of the choice of physical and chemistry variables on interpreting patterns of sediment contaminants and their relationships with estuarine macrobenthic communities. Marine and Freshwater Research, 2010, 61, 1109.	1.3	46
14	Arsenic distribution and species in two Zostera capricorni seagrass ecosystems, New South Wales, Australia. Environmental Chemistry, 2011, 8, 9.	1.5	42
15	Emergent technologies and analytical approaches for understanding the effects of multiple stressors in aquatic environments. Marine and Freshwater Research, 2016, 67, 414.	1.3	41
16	Effects of uranium concentration on microbial community structure and functional potential. Environmental Microbiology, 2017, 19, 3323-3341.	3.8	38
17	Microbial communities are sensitive indicators for freshwater sediment copper contamination. Environmental Pollution, 2019, 247, 1028-1038.	7.5	38
18	Improved Inference of Taxonomic Richness from Environmental DNA. PLoS ONE, 2013, 8, e71974.	2.5	33

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19	Trophic transfer of metals in a seagrass food web: Bioaccumulation of essential and non-essential metals. Marine Pollution Bulletin, 2018, 131, 468-480.	5.0	32
20	DNA Metabarcoding Meets Experimental Ecotoxicology. Advances in Ecological Research, 2014, 51, 79-104.	2.7	31
21	Faster, Higher and Stronger? The Pros and Cons of Molecular Faunal Data for Assessing Ecosystem Condition. Advances in Ecological Research, 2014, 51, 1-40.	2.7	30
22	Recent history of sediment metal contamination in Lake Macquarie, Australia, and an assessment of ash handling procedure effectiveness in mitigating metal contamination from coal-fired power stations. Science of the Total Environment, 2014, 490, 659-670.	8.0	30
23	Time-averaged copper concentrations from continuous exposures predicts pulsed exposure toxicity to the marine diatom, Phaeodactylum tricornutum: Importance of uptake and elimination. Aquatic Toxicology, 2015, 164, 1-9.	4.0	29
24	Using Bayesian networks to predict risk to estuary water quality and patterns of benthic environmental DNA in Queensland. Integrated Environmental Assessment and Management, 2019, 15, 93-111.	2.9	29
25	Spatial variability of cadmium, copper, manganese, nickel and zinc in the Port Curtis Estuary, Queensland, Australia. Marine and Freshwater Research, 2010, 61, 170.	1.3	28
26	A Classification of Floodplains and Wetlands of the Murray-Darling Basin Based on Changes in Flows Following Water Resource Development. Wetlands, 2012, 32, 239-248.	1.5	27
27	Diverse fungal lineages in subtropical ponds are altered by sediment-bound copper. Fungal Ecology, 2018, 34, 28-42.	1.6	26
28	The effect of dissolved nickel and copper on the adult coral Acropora muricata and its microbiome. Environmental Pollution, 2019, 250, 792-806.	7.5	25
29	Towards reproducible metabarcoding data: Lessons from an international crossâ€laboratory experiment. Molecular Ecology Resources, 2021, , .	4.8	25
30	New diagnostics for multiply stressed marine and freshwater ecosystems: integrating models, ecoinformatics and big data. Marine and Freshwater Research, 2016, 67, 391.	1.3	23
31	Towards a general framework for the assessment of interactive effects of multiple stressors on aquatic ecosystems: Results from the Making Aquatic Ecosystems Great Again (MAEGA) workshop. Science of the Total Environment, 2019, 684, 722-726.	8.0	22
32	Prolonged buoyancy and viability of Zostera muelleri Irmisch ex Asch. vegetative fragments indicate a strong dispersal potential. Journal of Experimental Marine Biology and Ecology, 2015, 464, 52-57.	1.5	21
33	Modeling food web structure and selenium biomagnification in lake macquarie, New South Wales, Australia, using stable carbon and nitrogen isotopes. Environmental Toxicology and Chemistry, 2015, 34, 608-617.	4.3	19
34	Saltwater intrusion history shapes the response of bacterial communities upon rehydration. Science of the Total Environment, 2015, 502, 143-148.	8.0	19
35	Ecotoxicological effects of decommissioning offshore petroleum infrastructure: A systematic review. Critical Reviews in Environmental Science and Technology, 2022, 52, 3283-3321.	12.8	19
36	Use of a novel sediment exposure to determine the effects of triclosan on estuarine benthic communities. Environmental Toxicology and Chemistry, 2013, 32, 384-392.	4.3	18

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37	Direct and indirect effects of copper-contaminated sediments on the functions of model freshwater ecosystems. Ecotoxicology, 2015, 24, 61-70.	2.4	17
38	Effects of micronized and nanoâ€copper azole on marine benthic communities. Environmental Toxicology and Chemistry, 2018, 37, 362-375.	4.3	17
39	Insights from the Genomes of Microbes Thriving in Uranium-Enriched Sediments. Microbial Ecology, 2018, 75, 970-984.	2.8	17
40	Recolonisation of translocated metal-contaminated sediments by estuarine macrobenthic assemblages. Ecotoxicology, 2011, 20, 706-718.	2.4	16
41	Germination and early-stage development in the seagrass, Zostera muelleri Irmisch ex Asch. in response to multiple stressors. Aquatic Botany, 2016, 128, 18-25.	1.6	16
42	Changes in Prokaryote and Eukaryote Assemblages Along a Gradient of Hydrocarbon Contamination in Groundwater. Geomicrobiology Journal, 2013, 30, 623-634.	2.0	15
43	Long-term copper partitioning of metal-spiked sediments used in outdoor mesocosms. Environmental Science and Pollution Research, 2014, 21, 7130-7139.	5.3	15
44	Global Change. , 2016, , 273-313.		14
45	History of metal contamination in Lake Illawarra, NSW, Australia. Chemosphere, 2015, 119, 377-386.	8.2	13
46	An integrated risk-assessment framework for multiple threats to floodplain values in the Kakadu Region, Australia, under a changing climate. Marine and Freshwater Research, 2018, 69, 1159.	1.3	13
47	Invertebrate community responses to a particulateâ€and dissolvedâ€copper exposure in model freshwater ecosystems. Environmental Toxicology and Chemistry, 2014, 33, 2724-2732.	4.3	11
48	Mainstreaming Microbes across Biomes. BioScience, 2020, 70, 589-596.	4.9	11
49	Extent and effect of the 2019-20 Australian bushfires on upland peat swamps in the Blue Mountains, NSW. International Journal of Wildland Fire, 2021, 30, 294.	2.4	9
50	Improving aquatic ecological assessments. Integrated Environmental Assessment and Management, 2010, 6, 187-188.	2.9	8
51	Comparison of an extracellular v. total DNA extraction approach for environmental DNA-based monitoring of sediment biota. Marine and Freshwater Research, 2021, , .	1.3	8
52	Saline mine-water alters the structure and function of prokaryote communities in shallow groundwater below a tropical stream. Environmental Pollution, 2021, 284, 117318.	7.5	8
53	Bacteria in tropical floodplain soils are sensitive to changes in saltwater. Marine and Freshwater Research, 2018, 69, 1110.	1.3	7
54	Metabarcoding Reveals Changes in Benthic Eukaryote and Prokaryote Community Composition along a Tropical Marine Sediment Nickel Gradient. Environmental Toxicology and Chemistry, 2021, 40, 1892-1905.	4.3	7

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55	Impact assessment of ephemeral discharge of contamination downstream of two legacy base metal mines using environmental DNA. Journal of Hazardous Materials, 2021, 419, 126483.	12.4	7
56	A weight-of-evidence approach for identifying potential sources of untreated sewage inputs into a complex urbanized catchment. Environmental Pollution, 2021, 275, 116575.	7.5	6
57	Characterizing the spatial distributions of soil biota at a legacy base metal mine using environmental DNA. Chemosphere, 2022, 286, 131899.	8.2	5
58	A Cause for Alarm: Increasing Translocation Success of Captive Individuals Through Alarm Communication. Frontiers in Conservation Science, 2021, 2, .	1.9	4
59	Application of environmental DNA for assessment of contamination downstream of a legacy base metal mine. Journal of Hazardous Materials, 2021, 416, 125794.	12.4	4
60	Short and informative DNA products to indirectly measure vascular plant biodiversity. Molecular Ecology, 2012, 21, 3637-3639.	3.9	3
61	Use of a multi-proxy method to support the restoration of estuaries receiving inputs from industry. Ecological Engineering, 2015, 85, 247-256.	3.6	3
62	The use of diversity indices for local assessment of marine sediment quality. Scientific Reports, 2021, 11, 14991.	3.3	3
63	Sea-level rise in northern Australia's Kakadu National Park: a survey of floodplain eukaryotes. Marine and Freshwater Research, 2018, 69, 1134.	1.3	2
64	Kakadu's wetlands: more change is afoot. Marine and Freshwater Research, 2018, 69, iii.	1.3	1
65	Connectivity of the seagrass Zostera muelleri within south-eastern Australia. Marine and Freshwater Research, 2019, 70, 1056.	1.3	1
66	Can eDNA be an indicator of tree groundwater use? A perspective. Marine and Freshwater Research, 2022, , NULL.	1.3	1
67	What happens to groundwater ecosystems when you take out the groundwater?. ARPHA Conference Abstracts, 0, 1, .	0.0	0
68	Biotic distribution within groundwater- is it really unpredictable?. ARPHA Conference Abstracts, 0, 1, .	0.0	0