

Chelsea M Rochman

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6044209/chelsea-m-rochman-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

6,807
citations

30
h-index

59
g-index

59
ext. papers

9,316
ext. citations

8.9
avg, IF

6.73
L-index

#	Paper	IF	Citations
51	Ingested plastic transfers hazardous chemicals to fish and induces hepatic stress. <i>Scientific Reports</i> , 2013 , 3, 3263	4.9	924
50	Policy: Classify plastic waste as hazardous. <i>Nature</i> , 2013 , 494, 169-71	50.4	814
49	Anthropogenic debris in seafood: Plastic debris and fibers from textiles in fish and bivalves sold for human consumption. <i>Scientific Reports</i> , 2015 , 5, 14340	4.9	677
48	Microplastics research-from sink to source. <i>Science</i> , 2018 , 360, 28-29	33.3	436
47	Predicted growth in plastic waste exceeds efforts to mitigate plastic pollution. <i>Science</i> , 2020 , 369, 1515-1518	35.8	428
46	Early warning signs of endocrine disruption in adult fish from the ingestion of polyethylene with and without sorbed chemical pollutants from the marine environment. <i>Science of the Total Environment</i> , 2014 , 493, 656-61	10.2	396
45	Rethinking microplastics as a diverse contaminant suite. <i>Environmental Toxicology and Chemistry</i> , 2019 , 38, 703-711	3.8	337
44	Long-term sorption of metals is similar among plastic types: implications for plastic debris in aquatic environments. <i>PLoS ONE</i> , 2014 , 9, e85433	3.7	300
43	The ecological impacts of marine debris: unraveling the demonstrated evidence from what is perceived. <i>Ecology</i> , 2016 , 97, 302-12	4.6	283
42	Scientific Evidence Supports a Ban on Microbeads. <i>Environmental Science & Technology</i> , 2015 , 49, 10759-61	10.3	217
41	Polystyrene plastic: a source and sink for polycyclic aromatic hydrocarbons in the marine environment. <i>Environmental Science & Technology</i> , 2013 , 47, 13976-84	10.3	203
40	Using the Asian clam as an indicator of microplastic pollution in freshwater ecosystems. <i>Environmental Pollution</i> , 2018 , 234, 347-355	9.3	203
39	Long-term field measurement of sorption of organic contaminants to five types of plastic pellets: implications for plastic marine debris. <i>Environmental Science & Technology</i> , 2013 , 47, 1646-54	10.3	171
38	Impacts of temperature and selected chemical digestion methods on microplastic particles. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 91-98	3.8	141
37	Polybrominated diphenyl ethers (PBDEs) in fish tissue may be an indicator of plastic contamination in marine habitats. <i>Science of the Total Environment</i> , 2014 , 476-477, 622-33	10.2	135
36	Microplastics entering northwestern Lake Ontario are diverse and linked to urban sources. <i>Water Research</i> , 2020 , 174, 115623	12.5	92
35	Novel method for the extraction and identification of microplastics in ocean trawl and fish gut matrices. <i>Analytical Methods</i> , 2017 , 9, 1479-1490	3.2	84

34	Direct and indirect effects of different types of microplastics on freshwater prey (<i>Corbicula fluminea</i>) and their predator (<i>Acipenser transmontanus</i>). <i>PLoS ONE</i> , 2017 , 12, e0187664	3.7	80
33	Reporting Guidelines to Increase the Reproducibility and Comparability of Research on Microplastics. <i>Applied Spectroscopy</i> , 2020 , 74, 1066-1077	3.1	77
32	Plastics and priority pollutants: a multiple stressor in aquatic habitats. <i>Environmental Science & Technology</i> , 2013 , 47, 2439-40	10.3	75
31	Sampling and Quality Assurance and Quality Control: A Guide for Scientists Investigating the Occurrence of Microplastics Across Matrices. <i>Applied Spectroscopy</i> , 2020 , 74, 1099-1125	3.1	75
30	Capturing microfibers - marketed technologies reduce microfiber emissions from washing machines. <i>Marine Pollution Bulletin</i> , 2019 , 139, 40-45	6.7	72
29	Plastic debris and policy: Using current scientific understanding to invoke positive change. <i>Environmental Toxicology and Chemistry</i> , 2016 , 35, 1617-26	3.8	68
28	Increasing the Accessibility for Characterizing Microplastics: Introducing New Application-Based and Spectral Libraries of Plastic Particles (SLoPP and SLoPP-E). <i>Analytical Chemistry</i> , 2020 , 92, 2443-2451	7.8	61
27	Critical Review of Processing and Classification Techniques for Images and Spectra in Microplastic Research. <i>Applied Spectroscopy</i> , 2020 , 74, 989-1010	3.1	57
26	Microplastic Spectral Classification Needs an Open Source Community: Open Specy to the Rescue!. <i>Analytical Chemistry</i> , 2021 , 93, 7543-7548	7.8	40
25	The uptake of microfibers by freshwater Asian clams (<i>Corbicula fluminea</i>) varies based upon physicochemical properties. <i>Chemosphere</i> , 2019 , 221, 107-114	8.4	32
24	Multiyear Water Quality Performance and Mass Accumulation of PCBs, Mercury, Methylmercury, Copper, and Microplastics in a Bioretention Rain Garden. <i>Journal of Sustainable Water in the Built Environment</i> , 2019 , 5, 04019004	2.4	31
23	Bioretention cells remove microplastics from urban stormwater. <i>Water Research</i> , 2021 , 191, 116785	12.5	31
22	Conservation Needs Diverse Values, Approaches, and Practitioners. <i>Conservation Letters</i> , 2015 , 8, 385-387	7.9	29
21	Recommended best practices for collecting, analyzing, and reporting microplastics in environmental media: Lessons learned from comprehensive monitoring of San Francisco Bay. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124770	12.8	26
20	Biological Responses to Climate Change and Nanoplastics Are Altered in Concert: Full-Factor Screening Reveals Effects of Multiple Stressors on Primary Producers. <i>Environmental Science & Technology</i> , 2020 , 54, 2401-2410	10.3	25
19	Urban Stormwater Runoff: A Major Pathway for Anthropogenic Particles, Black Rubbery Fragments, and Other Types of Microplastics to Urban Receiving Waters. <i>ACS ES&T Water</i> , 2021 , 1, 1420-1428		22
18	Microplastic and other anthropogenic microparticles in water and sediments of Lake Simcoe. <i>Journal of Great Lakes Research</i> , 2021 , 47, 180-189	3	17
17	Microplastics and other anthropogenic particles are prevalent in mussels from San Francisco Bay, and show no correlation with PAHs. <i>Environmental Pollution</i> , 2021 , 271, 116260	9.3	16

16	Evidence of Microplastic Translocation in Wild-Caught Fish and Implications for Microplastic Accumulation Dynamics in Food Webs. <i>Environmental Science & Technology</i> , 2021 , 55, 12372-12382	10.3	15
15	Towards Raman Automation for Microplastics: Developing Strategies for Particle Adhesion and Filter Subsampling. <i>Applied Spectroscopy</i> , 2020 , 74, 976-988	3.1	12
14	Rapid fingerprinting of source and environmental microplastics using direct analysis in real time-high resolution mass spectrometry. <i>Analytica Chimica Acta</i> , 2020 , 1100, 107-117	6.6	11
13	No evidence of spherical microplastics (10-300 nm) translocation in adult rainbow trout (<i>Oncorhynchus mykiss</i>) after a two-week dietary exposure. <i>PLoS ONE</i> , 2020 , 15, e0239128	3.7	11
12	ATR-FTIR Spectral Libraries of Plastic Particles (FLOPP and FLOPP-e) for the Analysis of Microplastics. <i>Analytical Chemistry</i> , 2021 , 93, 15878-15885	7.8	8
11	Aryl hydrocarbon receptor-mediated potencies in field-deployed plastics vary by type of polymer. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 9079-9088	5.1	8
10	Think Global, Act Local: Local Knowledge Is Critical to Inform Positive Change When It Comes to Microplastics. <i>Environmental Science & Technology</i> , 2021 , 55, 4-6	10.3	7
9	Plastic pollution in the Arctic. <i>Nature Reviews Earth & Environment</i> ,	30.2	5
8	Kicking Pellet Emissions to the Curb. <i>Integrated Environmental Assessment and Management</i> , 2020 , 16, 788-790	2.5	4
7	Impacts to Larval Fathead Minnows Vary between Preconsumer and Environmental Microplastics. <i>Environmental Toxicology and Chemistry</i> , 2021 ,	3.8	3
6	Holistic Assessment of Microplastics and Other Anthropogenic Microdebris in an Urban Bay Sheds Light on Their Sources and Fate. <i>ACS ES&T Water</i> , 2021 , 1, 1401-1410		3
5	Effects of Hydrogen Peroxide on Cyanobacterium <i>Microcystis aeruginosa</i> in the Presence of Nanoplastics. <i>ACS ES&T Water</i> , 2021 , 1, 1596-1607		3
4	Microplastic contamination in Great Lakes fish. <i>Conservation Biology</i> , 2021 ,	6	3
3	The potential of aerial insectivores for monitoring microplastics in terrestrial environments. <i>Science of the Total Environment</i> , 2022 , 807, 150453	10.2	2
2	Association of zoonotic protozoan parasites with microplastics in seawater and implications for human and wildlife health.. <i>Scientific Reports</i> , 2022 , 12, 6532	4.9	2
1	Washing Machine Filters Reduce Microfiber Emissions: Evidence From a Community-Scale Pilot in Parry Sound, Ontario. <i>Frontiers in Marine Science</i> ,8,	4.5	1