

Catherine Mouneyrac

List of Publications by Year in descending order

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74
papers

3,732
citations

159585

30
h-index

133252

59
g-index

75
all docs

75
docs citations

75
times ranked

4181
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro(nano)plastics: A threat to human health?. <i>Current Opinion in Environmental Science and Health</i> , 2018, 1, 17-23.	4.1	450
2	Is there any consistency between the microplastics found in the field and those used in laboratory experiments?. <i>Environmental Pollution</i> , 2016, 211, 111-123.	7.5	392
3	Solutions and Integrated Strategies for the Control and Mitigation of Plastic and Microplastic Pollution. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2411.	2.6	258
4	Behavioural and biochemical responses of two marine invertebrates <i>Scrobicularia plana</i> and <i>Hediste diversicolor</i> to copper oxide nanoparticles. <i>Chemosphere</i> , 2011, 84, 166-174.	8.2	231
5	Contamination issues as a challenge in quality control and quality assurance in microplastics analytics. <i>Journal of Hazardous Materials</i> , 2021, 403, 123660.	12.4	155
6	Biomonitoring in a clean and a multi-contaminated estuary based on biomarkers and chemical analyses in the endobenthic worm <i>Nereis diversicolor</i> . <i>Environmental Pollution</i> , 2007, 148, 445-458.	7.5	138
7	A marine mesocosm study on the environmental fate of silver nanoparticles and toxicity effects on two endobenthic species: The ragworm <i>Hediste diversicolor</i> and the bivalve mollusc <i>Scrobicularia plana</i> . <i>Science of the Total Environment</i> , 2014, 470-471, 1151-1159.	8.0	132
8	Quantification and characterization of microplastics in blue mussels (<i>Mytilus edulis</i>): protocol setup and preliminary data on the contamination of the French Atlantic coast. <i>Environmental Science and Pollution Research</i> , 2018, 25, 6135-6144.	5.3	104
9	Size dependent bioaccumulation and ecotoxicity of gold nanoparticles in an endobenthic invertebrate: The Tellinid clam <i>Scrobicularia plana</i> . <i>Environmental Pollution</i> , 2012, 168, 37-43.	7.5	97
10	Tissue-Specific Biomarker Responses in the Blue Mussel <i>Mytilus</i> spp. Exposed to a Mixture of Microplastics at Environmentally Relevant Concentrations. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	93
11	The Role of Legislation, Regulatory Initiatives and Guidelines on the Control of Plastic Pollution. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	84
12	Fate and effects of metal-based nanoparticles in two marine invertebrates, the bivalve mollusc <i>Scrobicularia plana</i> and the annelid polychaete <i>Hediste diversicolor</i> . <i>Environmental Science and Pollution Research</i> , 2014, 21, 7899-7912.	5.3	81
13	From biomarkers to population responses in <i>Nereis diversicolor</i> : Assessment of stress in estuarine ecosystems. <i>Ecotoxicology and Environmental Safety</i> , 2007, 66, 402-411.	6.0	76
14	Biochemical and behavioural responses of the endobenthic bivalve <i>Scrobicularia plana</i> to silver nanoparticles in seawater and microalgal food. <i>Ecotoxicology and Environmental Safety</i> , 2013, 89, 117-124.	6.0	76
15	Fate of isotopically labeled zinc oxide nanoparticles in sediment and effects on two endobenthic species, the clam <i>Scrobicularia plana</i> and the ragworm <i>Hediste diversicolor</i> . <i>Ecotoxicology and Environmental Safety</i> , 2012, 84, 191-198.	6.0	73
16	Risks of Covid-19 face masks to wildlife: Present and future research needs. <i>Science of the Total Environment</i> , 2021, 792, 148505.	8.0	73
17	Biochemical, physiological and behavioural markers in the endobenthic bivalve <i>Scrobicularia plana</i> as tools for the assessment of estuarine sediment quality. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 1733-1741.	6.0	62
18	Realistic environmental exposure to microplastics does not induce biological effects in the Pacific oyster <i>Crassostrea gigas</i> . <i>Marine Pollution Bulletin</i> , 2020, 150, 110627.	5.0	62

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19	Biochemical and behavioural responses of the marine polychaete <i>Hediste diversicolor</i> to cadmium sulfide quantum dots (CdS QDs): Waterborne and dietary exposure. <i>Chemosphere</i> , 2014, 100, 63-70.	8.2	56
20	The integrated biomarker response: a suitable tool to evaluate toxicity of metal-based nanoparticles. <i>Nanotoxicology</i> , 2017, 11, 1-6.	3.0	52
21	A Mesocosm Study of Fate and Effects of CuO Nanoparticles on Endobenthic Species (<i>Scrobicularia</i>) Tj ETQq1 1 0.784314 rgBT /Over	10.0	51
22	Accumulation and immunotoxicity of microplastics in the estuarine worm <i>Hediste diversicolor</i> in environmentally relevant conditions of exposure. <i>Environmental Science and Pollution Research</i> , 2020, 27, 3574-3583.	5.3	49
23	Sensitive biomarker responses of the shrimp <i>Palaemonetes argentinus</i> exposed to chlorpyrifos at environmental concentrations: Roles of alpha-tocopherol and metallothioneins. <i>Aquatic Toxicology</i> , 2016, 179, 72-81.	4.0	44
24	Manufactured metal and metal-oxide nanoparticles: Properties and perturbing mechanisms of their biological activity in ecosystems. <i>Comptes Rendus - Geoscience</i> , 2011, 343, 168-176.	1.2	43
25	Omics tools: New challenges in aquatic nanotoxicology?. <i>Aquatic Toxicology</i> , 2017, 193, 72-85.	4.0	41
26	Environmental quality assessment in estuarine ecosystems: Use of biometric measurements and fecundity of the ragworm <i>Nereis diversicolor</i> (Polychaeta, Nereididae). <i>Water Research</i> , 2008, 42, 2157-2165.	11.3	38
27	Linking changes at sub-individual and population levels in <i>Donax trunculus</i> : Assessment of marine stress. <i>Chemosphere</i> , 2010, 81, 692-700.	8.2	37
28	Assessment of the health status of <i>Donax trunculus</i> from the Gulf of Tunis using integrative biomarker indices. <i>Ecological Indicators</i> , 2013, 32, 285-293.	6.3	35
29	The influence of salinity on the fate and behavior of silver standardized nanomaterial and toxicity effects in the estuarine bivalve <i>Scrobicularia plana</i> . <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 2550-2561.	4.3	35
30	Eco-physiological responses to salinity changes across the freshwater-marine continuum on two euryhaline bivalves: <i>Corbicula fluminea</i> and <i>Scrobicularia plana</i> . <i>Ecological Indicators</i> , 2017, 74, 334-342.	6.3	34
31	Is the reproduction of <i>Donax trunculus</i> affected by their sites of origin contrasted by their level of contamination?. <i>Chemosphere</i> , 2011, 84, 1362-1370.	8.2	30
32	Subcellular localization of gold nanoparticles in the estuarine bivalve <i>Scrobicularia plana</i> after exposure through the water. <i>Gold Bulletin</i> , 2013, 46, 47-56.	2.4	30
33	Biomonitoring study of an estuarine coastal ecosystem, the Sacca di Goro lagoon, using <i>Ruditapes philippinarum</i> (Mollusca: Bivalvia). <i>Environmental Pollution</i> , 2013, 177, 82-89.	7.5	29
34	Native crustacean species as a bioindicator of freshwater ecosystem pollution: A multivariate and integrative study of multi-biomarker response in active river monitoring. <i>Chemosphere</i> , 2018, 206, 265-277.	8.2	29
35	Biomarkers as tools for monitoring within the Water Framework Directive context: concept, opinions and advancement of expertise. <i>Environmental Science and Pollution Research</i> , 2019, 26, 32759-32763.	5.3	28
36	Potential influence of confounding factors (size, salinity) on biomarkers in the sentinel species <i>Scrobicularia plana</i> used in programmes monitoring estuarine quality. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1253-1263.	5.3	26

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37	Contribution of mesocosm testing to a single-step and exposure-driven environmental risk assessment of engineered nanomaterials. <i>NanoImpact</i> , 2019, 13, 66-69.	4.5	26
38	Genotoxicity and physiological effects of CeO ₂ NPs on a freshwater bivalve (<i>Corbicula fluminea</i>). <i>Aquatic Toxicology</i> , 2018, 198, 141-148.	4.0	25
39	Safe(r) by design implementation in the nanotechnology industry. <i>NanoImpact</i> , 2020, 20, 100267.	4.5	22
40	Neurodevelopmental and behavioral effects of nonylphenol exposure during gestational and breastfeeding period on F1 rats. <i>NeuroToxicology</i> , 2014, 44, 237-249.	3.0	21
41	Cadmium sulfide quantum dots induce oxidative stress and behavioral impairments in the marine clam <i>Scrobicularia plana</i> . <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 1659-1664.	4.3	19
42	The wedge clam <i>Donax trunculus</i> as sentinel organism for Mediterranean coastal monitoring in a global change context. <i>Regional Environmental Change</i> , 2019, 19, 995-1007.	2.9	19
43	New challenges of marine ecotoxicology in a global change context. <i>Marine Pollution Bulletin</i> , 2021, 166, 112242.	5.0	19
44	Spermatozoa: A relevant biological target for genotoxicity assessment of contaminants in the estuarine bivalve <i>Scrobicularia plana</i> . <i>Marine Pollution Bulletin</i> , 2017, 116, 488-490.	5.0	18
45	The role of high-throughput screening in ecotoxicology and engineered nanomaterials. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 1704-1714.	4.3	17
46	Trophic transfer of CuO NPs and dissolved Cu from sediment to worms to fish – a proof-of-concept study. <i>Environmental Science: Nano</i> , 2019, 6, 1140-1155.	4.3	17
47	Investigating the establishment of primary cultures of hemocytes from <i>Mytilus edulis</i> . <i>Cytotechnology</i> , 2018, 70, 1205-1220.	1.6	16
48	Baseline levels of biochemical biomarkers in the endobenthic ragworm <i>Hediste diversicolor</i> as useful tools in biological monitoring of estuaries under anthropogenic pressure. <i>Marine Pollution Bulletin</i> , 2018, 129, 81-85.	5.0	15
49	Transcriptomic approach: A promising tool for rapid screening nanomaterial-mediated toxicity in the marine bivalve <i>Mytilus edulis</i> – Application to copper oxide nanoparticles. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2018, 205, 26-33.	2.6	15
50	Investigating a transcriptomic approach on marine mussel hemocytes exposed to carbon nanofibers: An in vitro/in vivo comparison. <i>Aquatic Toxicology</i> , 2019, 207, 19-28.	4.0	11
51	Characterization of the nano-bio interaction between metallic oxide nanomaterials and freshwater microalgae using flow cytometry. <i>Nanotoxicology</i> , 2020, 14, 1082-1095.	3.0	11
52	Trophic transfer of CuO NPs from sediment to worms (<i>Tubifex tubifex</i>) to fish (<i>Gasterosteus aculeatus</i>) (Cu). <i>Environmental Science: Nano</i> , 2020, 7, 2360-2372.	4.3	11
53	Vg mRNA induction in an endangered fish species (<i>Anguilla anguilla</i>) from the Loire estuary (France). <i>Ecotoxicology and Environmental Safety</i> , 2013, 97, 103-113.	6.0	10
54	MTs in <i>Palaemonetes argentinus</i> as potential biomarkers of zinc contamination in freshwaters. <i>Ecological Indicators</i> , 2015, 48, 533-541.	6.3	10

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55	Signaling pathways involved in metal-based nanomaterial toxicity towards aquatic organisms. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2017, 196, 61-70.	2.6	10
56	Metallothionein-Like Proteins and Energy Reserve Levels after Ni and Pb Exposure in the Pacific White Prawn <i>Penaeus vannamei</i> . <i>Journal of Toxicology</i> , 2010, 2010, 1-9.	3.0	9
57	Ecotoxicity of Zinc Oxide Nanoparticles in the Marine Environment. , 2014, , 1-17.		9
58	Investigating the Impact of Manufacturing Processes on the Ecotoxicity of Carbon Nanofibers: A Multi- ⁴ Aquatic Species Comparison. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 2314-2325.	4.3	9
59	Is there a link between acetylcholinesterase, behaviour and density populations of the ragworm <i>Hediste diversicolor</i> ?. <i>Marine Pollution Bulletin</i> , 2019, 142, 178-182.	5.0	9
60	The Role of Laboratory Experiments in the Validation of Field Data. <i>Comprehensive Analytical Chemistry</i> , 2017, 75, 241-273.	1.3	6
61	Towards the development of a high throughput screening approach for <i>Mytilus edulis</i> hemocytes: A case study on silicon-based nanomaterials. <i>Marine Environmental Research</i> , 2018, 142, 306-318.	2.5	6
62	A sub-individual multilevel approach for an integrative assessment of CuO nanoparticle effects on <i>Corbicula fluminea</i> . <i>Environmental Pollution</i> , 2019, 254, 112976.	7.5	6
63	Dietary uptake and effects of copper in Sticklebacks at environmentally relevant exposures utilizing stable isotope-labeled ⁶⁵ CuCl ₂ and ⁶⁵ CuO NPs. <i>Science of the Total Environment</i> , 2021, 757, 143779.	8.0	6
64	Ecotoxicological Risk of Nanomaterials. , 2015, , 417-440.		5
65	Predictive Ecotoxicology and Environmental Assessment. , 2015, , 463-496.		5
66	<i>Corbicula fluminea</i> gene expression modulated by CeO ₂ nanomaterials and salinity. <i>Environmental Science and Pollution Research</i> , 2019, 26, 15174-15186.	5.3	5
67	The necessity of investigating a freshwater-marine continuum using a mesocosm approach in nanosafety: The case study of TiO ₂ MNM-based photocatalytic cement. <i>NanoImpact</i> , 2020, 20, 100254.	4.5	5
68	Impact of apple orchard management strategies on earthworm (<i>Allolobophora chlorotica</i>) energy reserves. <i>Soil Biology and Biochemistry</i> , 2016, 100, 252-254.	8.8	3
69	Combined influence of oxygenation and salinity on aggregation kinetics of the silver reference nanomaterial NM ^{300K} . <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1007-1013.	4.3	3
70	Oxidative stress responses and biological indices in the giant clam <i>Tridacna maxima</i> and the reef fish <i>Epinephelus merra</i> from the French Polynesian Moorea Island. <i>Marine Pollution Bulletin</i> , 2012, 64, 2233-2237.	5.0	2
71	Is metallothionein in <i>Mimachlamys varia</i> a suitable biomarker of trace elements in the waters of the French Atlantic coast?. <i>Environmental Science and Pollution Research</i> , 2020, 27, 20259-20272.	5.3	2
72	Comparison of uptake and elimination kinetics of metallic oxide nanomaterials on the freshwater microcrustacean <i>Daphnia magna</i> . <i>Nanotoxicology</i> , 2021, 15, 1168-1179.	3.0	2

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73	Microplastic in Aquatic Environments. , 2019, , 149-179.		1
74	Assessment of carbamazepine acute toxicity in the cockle <i>Cerastoderma edule</i> through chemical, physiological and biochemical tools. Brazilian Journal of Biology, 2021, 82, e247035.	0.9	1