Michiel Bert Vandegehuchte

List of Publications by Year
in descending order

41 papers	3,546 citations	257450 24 h-index	302126 39 g-index
41 all docs	41 docs citations	41 times ranked	4376 citing authors

#	Article	IF	Citations
1	Microplastics are taken up by mussels (Mytilus edulis) and lugworms (Arenicola marina) living in natural habitats. Environmental Pollution, 2015, 199, 10-17.	7.5	817
2	New techniques for the detection of microplastics in sediments and field collected organisms. Marine Pollution Bulletin, 2013, 70, 227-233.	5.0	726
3	Risk assessment of microplastics in the ocean: Modelling approach and first conclusions. Environmental Pollution, 2018, 242, 1930-1938.	7.5	313
4	Phytoavailability assessment of heavy metals in soils by single extractions and accumulation by Phaseolus vulgaris. Environmental and Experimental Botany, 2007, 60, 385-396.	4.2	189
5	Assessment of marine debris on the Belgian Continental Shelf. Marine Pollution Bulletin, 2013, 73, 161-169.	5.0	163
6	Epigenetics and its implications for ecotoxicology. Ecotoxicology, 2011, 20, 607-624.	2.4	149
7	Epigenetics in an ecotoxicological context. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2014, 764-765, 36-45.	1.7	124
8	Environmental heat stress induces epigenetic transgenerational inheritance of robustness in parthenogenetic Artemia model. FASEB Journal, 2014, 28, 3552-3563.	0.5	116
9	Direct and transgenerational impact on Daphnia magna of chemicals with a known effect on DNA methylation. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2010, 151, 278-285.	2.6	105
10	Occurrence of DNA methylation in Daphnia magna and influence of multigeneration Cd exposure. Environment International, 2009, 35, 700-706.	10.0	87
11	Global cytosine methylation in Daphnia magna depends on genotype, environment, and their interaction. Environmental Toxicology and Chemistry, 2015, 34, 1056-1061.	4.3	53
12	Epigenetic alterations and decreasing insecticide sensitivity of the Asian tiger mosquito Aedes albopictus. Ecotoxicology and Environmental Safety, 2015, 122, 45-53.	6.0	51
13	Zn in the soil solution of unpolluted and polluted soils as affected by soil characteristics. Geoderma, 2006, 136, 107-119.	5.1	48
14	SOIL-SOLUTION SPECIATION OF Cd AS AFFECTED BY SOIL CHARACTERISTICS IN UNPOLLUTED AND POLLUTED SOILS. Environmental Toxicology and Chemistry, 2005, 24, 499.	4.3	46
15	Locust phase polyphenism: Does epigenetic precede endocrine regulation?. General and Comparative Endocrinology, 2011, 173, 120-128.	1.8	43
16	Gene transcription profiles, global DNA methylation and potential transgenerational epigenetic effects related to Zn exposure history in Daphnia magna. Environmental Pollution, 2010, 158, 3323-3329.	7.5	42
17	Microplastic detection and identification by Nile red staining: Towards a semi-automated, cost- and time-effective technique. Science of the Total Environment, 2022, 823, 153441.	8.0	42
18	General health and residential proximity to the coast in Belgium: Results from a cross-sectional health survey. Environmental Research, 2020, 184, 109225.	7.5	41

#	Article	IF	Citations
19	Gene transcription and higher-level effects of multigenerational Zn exposure in Daphnia magna. Chemosphere, 2010, 80, 1014-1020.	8.2	39
20	Can metal stress induce transferable changes in gene transcription in Daphnia magna?. Aquatic Toxicology, 2010, 97, 188-195.	4.0	32
21	Environmentally relevant concentrations and sizes of microplastic do not impede marine diatom growth. Journal of Hazardous Materials, 2021, 409, 124460.	12.4	32
22	Salinity and dissolved organic carbon both affect copper toxicity in mussel larvae: Copper speciation or competition cannot explain everything. Environmental Toxicology and Chemistry, 2015, 34, 1330-1336.	4.3	30
23	Non-lethal heat shock increases tolerance to metal exposure in brine shrimp. Environmental Research, 2016, 151, 663-670.	7.5	30
24	Potential Use of the Plant Antioxidant Network For Environmental Exposure Assessment of Heavy Metals in Soils. Environmental Monitoring and Assessment, 2006, 120, 243-267.	2.7	28
25	Toxicological availability of nickel to the benthic oligochaete Lumbriculus variegatus. Environment International, 2007, 33, 736-742.	10.0	25
26	Validation of a confirmatory method for lipophilic marine toxins in shellfish using UHPLC-HR-Orbitrap MS. Analytical and Bioanalytical Chemistry, 2014, 406, 5303-5312.	3.7	24
27	Quantification and profiling of lipophilic marine toxins in microalgae by UHPLC coupled to high-resolution orbitrap mass spectrometry. Analytical and Bioanalytical Chemistry, 2015, 407, 6345-6356.	3.7	22
28	The Combined Effect of Dissolved Organic Carbon and Salinity on the Bioaccumulation of Copper in Marine Mussel Larvae. Environmental Science & Technology, 2014, 48, 698-705.	10.0	21
29	Common European harmful algal blooms affect the viability and innate immune responses of Mytilus edulis larvae. Fish and Shellfish Immunology, 2015, 47, 175-181.	3.6	19
30	Mechanistic niche modelling to identify favorable growth sites of temperate macroalgae. Algal Research, 2019, 41, 101529.	4.6	18
31	In vivo X-ray elemental imaging of single cell model organisms manipulated by laser-based optical tweezers. Scientific Reports, 2015, 5, 9049.	3.3	14
32	WHOLE SEDIMENT TOXICITY TESTS FOR METAL RISK ASSESSMENTS: ON THE IMPORTANCE OF EQUILIBRATION AND TEST DESIGN TO INCREASE ECOLOGICAL RELEVANCE. Environmental Toxicology and Chemistry, 2013, 32, 1048-1059.	4.3	13
33	Environmental stability of porcine respiratory coronavirus in aquatic environments. PLoS ONE, 2021, 16, e0254540.	2.5	9
34	Using Historical Archives and Landsat Imagery to Explore Changes in the Mangrove Cover of Peninsular Malaysia between 1853 and 2018. Remote Sensing, 2021, 13, 3403.	4.0	9
35	Salinity, dissolved organic carbon, and interpopulation variability hardly influence the accumulation and effect of copper in Mytilus edulis. Environmental Toxicology and Chemistry, 2017, 36, 2074-2082.	4.3	8
36	Evaluation of the mayfly Ephoron virgo for European sediment toxicity assessment. Journal of Soils and Sediments, 2012, 12, 749-757.	3.0	6

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37	Influence of the Belgian Coast on Well-Being During the COVID-19 Pandemic. Psychologica Belgica, 2021, 61, 284-295.	1.9	5
38	Effects of Microplastic on the Population Dynamics of a Marine Copepod: Insights from a Laboratory Experiment and a Mechanistic Model. Environmental Toxicology and Chemistry, 2022, 41, 1663-1674.	4.3	5
39	Monoculture-based consumer-resource models predict species dominance in mixed batch cultures of dinoflagellates. Harmful Algae, 2020, 99, 101921.	4.8	1
40	The Tourism Value of the Coast: Modeling Seaside Amenity Values in Belgium. International Journal of Hospitality and Tourism Administration, 0, , 1-18.	2.5	1
41	Environmental (Hazardous Chemical) Risk Assessment-Era in the European Union.. , 2006, , 696-709.		0