

# Isabel Lopes

## List of Publications by Year in descending order

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124  
papers

4,950  
citations

147801

31  
h-index

102487

66  
g-index

128  
all docs

128  
docs citations

128  
times ranked

5559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental exposure to microplastics: An overview on possible human health effects. <i>Science of the Total Environment</i> , 2020, 702, 134455.	8.0	1,101
2	Effects of microplastics on microalgae populations: A critical review. <i>Science of the Total Environment</i> , 2019, 665, 400-405.	8.0	288
3	Nanoscale materials and their use in water contaminants removal—a review. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1239-1260.	5.3	192
4	Nanoplastics and marine organisms: What has been studied?. <i>Environmental Toxicology and Pharmacology</i> , 2019, 67, 1-7.	4.0	185
5	Identifying a quick and efficient method of removing organic matter without damaging microplastic samples. <i>Science of the Total Environment</i> , 2019, 686, 131-139.	8.0	182
6	Occurrence, fate and effects of azoxystrobin in aquatic ecosystems: A review. <i>Environment International</i> , 2013, 53, 18-28.	10.0	181
7	A One Health perspective of the impacts of microplastics on animal, human and environmental health. <i>Science of the Total Environment</i> , 2021, 777, 146094.	8.0	130
8	AVOIDANCE OF COPPER CONTAMINATION BY FIELD POPULATIONS OF DAPHNIA LONGISPINA. <i>Environmental Toxicology and Chemistry</i> , 2004, 23, 1702.	4.3	109
9	Public views on plastic pollution: Knowledge, perceived impacts, and pro-environmental behaviours. <i>Journal of Hazardous Materials</i> , 2021, 412, 125227.	12.4	98
10	A review on the ecological quality status assessment in aquatic systems using community based indicators and ecotoxicological tools: what might be the added value of their combination?. <i>Ecological Indicators</i> , 2015, 48, 8-16.	6.3	93
11	Impact of organic and inorganic nanomaterials in the soil microbial community structure. <i>Science of the Total Environment</i> , 2012, 424, 344-350.	8.0	80
12	Avoidance tests with small fish: Determination of the median avoidance concentration and of the lowest-observed-effect gradient. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 1576-1582.	4.3	79
13	Genetic Determination of Tolerance to Lethal and Sublethal Copper Concentrations in Field Populations of <i>Daphnia longispina</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2004, 46, 43-51.	4.1	69
14	Label-free disposable immunosensor for detection of atrazine. <i>Talanta</i> , 2016, 146, 430-434.	5.5	69
15	The effects of nanoplastics on marine plankton: A case study with polymethylmethacrylate. <i>Ecotoxicology and Environmental Safety</i> , 2019, 184, 109632.	6.0	68
16	Toxicity and genotoxicity of organic and inorganic nanoparticles to the bacteria <i>Vibrio fischeri</i> and <i>Salmonella typhimurium</i> . <i>Ecotoxicology</i> , 2012, 21, 637-648.	2.4	64
17	Contaminant driven genetic erosion and associated hypotheses on alleles loss, reduced population growth rate and increased susceptibility to future stressors: an essay. <i>Ecotoxicology</i> , 2013, 22, 889-899.	2.4	63
18	Copper-driven avoidance and mortality in temperate and tropical tadpoles. <i>Aquatic Toxicology</i> , 2014, 146, 70-75.	4.0	59

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19	Discriminating the Ecotoxicity due to Metals and to Low pH in Acid Mine Drainage. <i>Ecotoxicology and Environmental Safety</i> , 1999, 44, 207-214.	6.0	52
20	Assessing the ecotoxicity of metal nano-oxides with potential for wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2015, 22, 13212-13224.	5.3	51
21	Diversity of cutaneous microbiome of <i>Pelophylax perezi</i> populations inhabiting different environments. <i>Science of the Total Environment</i> , 2016, 572, 995-1004.	8.0	50
22	Genetic adaptation to metal stress by natural populations of <i>Daphnia longispina</i> . <i>Ecotoxicology and Environmental Safety</i> , 2006, 63, 275-285.	6.0	40
23	Biological treatment with fungi of olive mill wastewater pre-treated by photocatalytic oxidation with nanomaterials. <i>Ecotoxicology and Environmental Safety</i> , 2015, 115, 234-242.	6.0	39
24	Sensitivity of freshwater species under single and multigenerational exposure to seawater intrusion. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180252.	4.0	39
25	Remediation of mercury contaminated saltwater with functionalized silica coated magnetite nanoparticles. <i>Science of the Total Environment</i> , 2016, 557-558, 712-721.	8.0	38
26	Screening evaluation of the ecotoxicity and genotoxicity of soils contaminated with organic and inorganic nanoparticles: The role of ageing. <i>Journal of Hazardous Materials</i> , 2011, 194, 345-354.	12.4	36
27	Polymethylmethacrylate nanoplastics effects on the freshwater cnidarian <i>Hydra viridissima</i> . <i>Journal of Hazardous Materials</i> , 2021, 402, 123773.	12.4	36
28	The water-soluble fraction of potentially toxic elements in contaminated soils: Relationships between ecotoxicity, solubility and geochemical reactivity. <i>Chemosphere</i> , 2011, 84, 1495-1505.	8.2	35
29	Validity of fish, birds and mammals as surrogates for amphibians and reptiles in pesticide toxicity assessment. <i>Ecotoxicology</i> , 2018, 27, 819-833.	2.4	35
30	Integrated ecological risk assessment of pesticides in tropical ecosystems: A case study with carbofuran in Brazil. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 437-445.	4.3	34
31	In situ assays with tropical cladocerans to evaluate edge-of-field pesticide runoff toxicity. <i>Chemosphere</i> , 2007, 67, 2250-2256.	8.2	32
32	Cleanup of atrazine-contaminated soils: ecotoxicological study on the efficacy of a bioremediation tool with <i>Pseudomonas</i> sp. ADP. <i>Journal of Soils and Sediments</i> , 2010, 10, 568-578.	3.0	32
33	Chronic effects of wastewater-borne silver and titanium dioxide nanoparticles on the rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Science of the Total Environment</i> , 2020, 723, 137974.	8.0	32
34	Environmental status of (micro)plastics contamination in Portugal. <i>Ecotoxicology and Environmental Safety</i> , 2020, 200, 110753.	6.0	32
35	GENETICALLY DETERMINED RESISTANCE TO LETHAL LEVELS OF COPPER BY <i>DAPHNIA LONGISPINA</i> : ASSOCIATION WITH SUBLETHAL RESPONSE AND MULTIPLE/CORESISTANCE. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 1414.	4.3	31
36	Effects of NaCl and seawater induced salinity on survival and reproduction of three soil invertebrate species. <i>Chemosphere</i> , 2015, 135, 116-122.	8.2	31

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37	Treatment of real industrial wastewaters through nano-TiO <sub>2</sub> and nano-Fe <sub>2</sub> O <sub>3</sub> photocatalysis: case study of mining and kraft pulp mill effluents. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1586-1596.	2.2	31
38	Salinization effects on coastal ecosystems: a terrestrial model ecosystem approach. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180251.	4.0	31
39	Validation of a two-generational reproduction test in <i>Daphnia magna</i> : An interlaboratory exercise. <i>Science of the Total Environment</i> , 2017, 579, 1073-1083.	8.0	29
40	Toxicity of solid residues resulting from wastewater treatment with nanomaterials. <i>Aquatic Toxicology</i> , 2015, 165, 172-178.	4.0	28
41	Unraveling the interactive effects of climate change and oil contamination on laboratory-simulated estuarine benthic communities. <i>Global Change Biology</i> , 2015, 21, 1871-1886.	9.5	28
42	Effects of virgin and weathered polystyrene and polypropylene microplastics on <i>Raphidocelis subcapitata</i> and embryos of <i>Danio rerio</i> under environmental concentrations. <i>Science of the Total Environment</i> , 2022, 816, 151642.	8.0	28
43	Resistance to metal contamination by historically-stressed populations of <i>Ceriodaphnia pulchella</i> : Environmental influence versus genetic determination. <i>Chemosphere</i> , 2005, 61, 1189-1197.	8.2	27
44	Evaluation of the Potential Toxicity of Effluents from the Textile Industry before and after Treatment. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3804.	2.5	27
45	Toxicity of organic and inorganic nanoparticles to four species of white-rot fungi. <i>Science of the Total Environment</i> , 2013, 458-460, 290-297.	8.0	26
46	Lethal and sublethal toxicity assessment of <i>Bacillus thuringiensis</i> var. <i>israelensis</i> and <i>Beauveria bassiana</i> based bioinsecticides to the aquatic insect <i>Chironomus riparius</i> . <i>Science of the Total Environment</i> , 2020, 698, 134155.	8.0	26
47	Impact of wastewater-borne nanoparticles of silver and titanium dioxide on the swimming behaviour and biochemical markers of <i>Daphnia magna</i> : An integrated approach. <i>Aquatic Toxicology</i> , 2020, 220, 105404.	4.0	26
48	Development and Sensitivity of a 12-h Laboratory Test with <i>Daphnia magna</i> Straus Based on Avoidance of Pulp Mill Effluents. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2008, 81, 464-469.	2.7	25
49	Comparison of a test battery for assessing the toxicity of a bleached-kraft pulp mill effluent before and after secondary treatment implementation. <i>Environmental Monitoring and Assessment</i> , 2010, 161, 439-451.	2.7	24
50	Gold nanorods induce early embryonic developmental delay and lethality in zebrafish ( <i>Danio rerio</i> ). <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 2450-2458.	2.3	24
51	Sensitivity to salinization and acclimation potential of amphibian ( <i>Pelophylax perezi</i> ) and fish ( <i>Lepomis microlophus</i> ). <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 2459-2468.	6.0	24
52	Contaminant driven genetic erosion: A case study with <i>Daphnia longispina</i> . <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 977-982.	4.3	23
53	Soil microarthropod community testing: A new approach to increase the ecological relevance of effect data for pesticide risk assessment. <i>Applied Soil Ecology</i> , 2014, 83, 200-209.	4.3	23
54	Microevolution due to pollution in amphibians: A review on the genetic erosion hypothesis. <i>Environmental Pollution</i> , 2015, 204, 181-190.	7.5	23

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55	Excreted Thiocyanate Detects Live Reef Fishes Illegally Collected Using Cyanide—A Non-Invasive and Non-Destructive Testing Approach. PLoS ONE, 2012, 7, e35355.	2.5	22
56	Testing hypotheses on the resistance to metals by <i>Daphnia longispina</i> : Differential acclimation, endpoints association, and fitness costs. Environmental Toxicology and Chemistry, 2012, 31, 909-915.	4.3	22
57	Salinity and copper interactive effects on perez's frog <i>Pelophylax perezii</i> . Environmental Toxicology and Chemistry, 2013, 32, 1864-1872.	4.3	22
58	Biochemical and metabolic effects of a short-term exposure to nanoparticles of titanium silicate in tadpoles of <i>Pelophylax perezii</i> (Seoane). Aquatic Toxicology, 2013, 128-129, 190-192.	4.0	22
59	Perspectives on Micro(Nano)Plastics in the Marine Environment: Biological and Societal Considerations. Water (Switzerland), 2020, 12, 3208.	2.7	22
60	Seawater intrusion: an appraisal of taxa at most risk and safe salinity levels. Biological Reviews, 2022, 97, 361-382.	10.4	21
61	Does increased salinity influence the competitive outcome of two producer species?. Environmental Science and Pollution Research, 2017, 24, 5888-5897.	5.3	20
62	Multigenerational effects of salinity in six clonal lineages of <i>Daphnia longispina</i> . Science of the Total Environment, 2018, 619-620, 194-202.	8.0	20
63	Ecotoxicological tools in the remediation of acid mine drainage. Toxicological and Environmental Chemistry, 1999, 70, 441-460.	1.2	19
64	DIFFERENTIAL RESISTANCE TO COPPER AND MINE DRAINAGE IN DAPHNIA LONGISPINA: RELATIONSHIP WITH ALLOZYME GENOTYPES. Environmental Toxicology and Chemistry, 2007, 26, 1904.	4.3	19
65	GENETIC EROSION AND POPULATION RESILIENCE IN DAPHNIA LONGISPINA O.F. MÄLLER UNDER SIMULATED PREDATION AND METAL PRESSURES. Environmental Toxicology and Chemistry, 2009, 28, 1912.	4.3	19
66	Impact of organic nano-vesicles in soil: The case of sodium dodecyl sulphate/didodecyl dimethylammonium bromide. Science of the Total Environment, 2016, 547, 413-421.	8.0	19
67	Active emigration from climate change-caused seawater intrusion into freshwater habitats. Environmental Pollution, 2020, 258, 113805.	7.5	19
68	Development and validation of an experimental life support system for assessing the effects of global climate change and environmental contamination on estuarine and coastal marine benthic communities. Global Change Biology, 2013, 19, 2584-2595.	9.5	18
69	Mutagenicity assessment of aerosols in emissions from domestic combustion processes. Environmental Science and Pollution Research, 2016, 23, 10799-10807.	5.3	17
70	In vitro toxicity of indoor and outdoor PM10 from residential wood combustion. Science of the Total Environment, 2021, 782, 146820.	8.0	17
71	Role of surfactant headgroups on the toxicity of SLEnS-LAS mixed micelles: A case study using microtox test. Science of the Total Environment, 2018, 643, 1366-1372.	8.0	16
72	Tolerance to Copper and to Salinity in <i>Daphnia longispina</i> : Implications within a Climate Change Scenario. PLoS ONE, 2013, 8, e68702.	2.5	16

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73	Polymethylmethacrylate nanoplastics can cause developmental malformations in early life stages of <i>Xenopus laevis</i> . <i>Science of the Total Environment</i> , 2022, 806, 150491.	8.0	15
74	Photocatalytic Treatment of Olive Oil Mill Wastewater Using TiO <sub>2</sub> and Fe <sub>2</sub> O <sub>3</sub> Nanomaterials. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	14
75	Engineered nanomaterials for (waste)water treatment - A scientometric assessment and sustainability aspects. <i>NanoImpact</i> , 2021, 22, 100316.	4.5	14
76	Survival Time of <i>Ceriodaphnia dubia</i> in Acid Waters with Metal Contamination. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2000, 64, 130-136.	2.7	13
77	European bee-eater ( <i>Merops apiaster</i> ) populations under arsenic and metal stress: evaluation of exposure at a mining site. <i>Environmental Monitoring and Assessment</i> , 2010, 161, 237-245.	2.7	13
78	On the path to minimize plastic pollution: The perceived importance of education and knowledge dissemination strategies. <i>Marine Pollution Bulletin</i> , 2021, 171, 112890.	5.0	13
79	Optimization of a pressurization methodology for extracting pore-water. <i>Chemosphere</i> , 2005, 61, 1505-1511.	8.2	12
80	Salinity induced effects on the growth rates and mycelia composition of basidiomycete and zygomycete fungi. <i>Environmental Pollution</i> , 2017, 231, 1633-1641.	7.5	12
81	Hydrophobic modifications of hydroxyethyl cellulose polymers: Their influence on the acute toxicity to aquatic biota. <i>Journal of Hazardous Materials</i> , 2021, 409, 124966.	12.4	12
82	The influence of salinization on seed germination and plant growth under mono and polyculture. <i>Environmental Pollution</i> , 2020, 260, 113993.	7.5	12
83	Determination and validation of an aquatic Maximum Acceptable Concentration-Environmental Quality Standard (MAC-EQS) value for the agricultural fungicide azoxystrobin. <i>Environmental Pollution</i> , 2017, 221, 150-158.	7.5	11
84	Effects of wastewater-spiked nanoparticles of silver and titanium dioxide on survival, growth, reproduction and biochemical markers of <i>Daphnia magna</i> . <i>Science of the Total Environment</i> , 2022, 839, 156079.	8.0	11
85	Suitability of five cladoceran species from Mexico for in situ experimentation. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 111-116.	6.0	10
86	Multiple Stressor Differential Tolerances: Possible Implications at the Population Level. <i>PLoS ONE</i> , 2016, 11, e0151847.	2.5	10
87	Ecotoxicological responses of isolated mitochondrial systems to complex effluents. Are they worthwhile?. <i>Chemosphere</i> , 1998, 37, 2695-2701.	8.2	9
88	Maternal response to environmental unpredictability. <i>Ecology and Evolution</i> , 2015, 5, 4567-4577.	1.9	9
89	Treatment of a textile effluent by adsorption with cork granules and titanium dioxide nanomaterial. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018, 53, 524-536.	1.7	9
90	Characterization of the Skin Cultivable Microbiota Composition of the Frog <i>Pelophylax perezii</i> Inhabiting Different Environments. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2585.	2.6	9

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91	Is the toxicity of nanosized polymethylmethacrylate particles dependent on the exposure route and food items?. <i>Journal of Hazardous Materials</i> , 2021, 413, 125443.	12.4	9
92	Effects of long-term exposure to colloidal gold nanorods on freshwater microalgae. <i>Science of the Total Environment</i> , 2019, 682, 70-79.	8.0	8
93	Responses of benthic macroinvertebrate communities to a Bti-based insecticide in artificial microcosm streams. <i>Environmental Pollution</i> , 2021, 282, 117030.	7.5	8
94	Field validation of specific ecotoxicological tools for aquatic systems impacted with acid mine drainage. <i>International Journal of Environmental Studies</i> , 2000, 58, 3-20.	1.6	7
95	Cytochrome B Gene Partial Sequence and RAPD Analysis of Two <i>Daphnia longispina</i> Lineages Differing in their Resistance to Copper. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2005, 74, 755-760.	2.7	7
96	Optical fiber based methodology for assessment of thiocyanate in seawater. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1811.	2.1	7
97	An integrated approach to assess the sublethal effects of colloidal gold nanorods in tadpoles of <i>Xenopus laevis</i> . <i>Journal of Hazardous Materials</i> , 2020, 400, 123237.	12.4	7
98	Efficiency of a cleanup technology to remove mercury from natural waters by means of rice husk biowaste: ecotoxicological and chemical approach. <i>Environmental Science and Pollution Research</i> , 2014, 21, 8146-8156.	5.3	6
99	Biological relevance of the magnitude of effects (considering mortality, sublethal and reproductive) of microplastics on amphibians and reptiles. <i>EFSA Supporting Publications</i> , 2017, 14, 1251E.	0.7	6
100	Ecotoxicity of cationic cellulose polymers to aquatic biota: The influence of charge density. <i>Science of the Total Environment</i> , 2022, 806, 150560.	8.0	6
101	Considerations when using microplates and Neubauer counting chamber in ecotoxicity tests on microplastics. <i>Marine Pollution Bulletin</i> , 2021, 170, 112615.	5.0	6
102	Influence of salinity on the toxicity of copper and cadmium to Zebrafish embryos. <i>Aquatic Toxicology</i> , 2021, 241, 106003.	4.0	6
103	Potential re-colonisation by cladocerans of an acidic tropical pond. <i>Chemosphere</i> , 2011, 82, 1072-1079.	8.2	5
104	In vitro toxicity of particulate matter emissions from residential pellet combustion. <i>Journal of Environmental Sciences</i> , 2022, 115, 215-226.	6.1	5
105	Lack of Evidence for Metallothionein Role in Tolerance to Copper by Natural Populations of <i>Daphnia longispina</i> . <i>Bulletin of Environmental Contamination and Toxicology</i> , 2005, 74, 761-768.	2.7	4
106	Suitability of enzymatic markers to assess the environmental condition of natural populations of <i>Gambusia affinis</i> and <i>Daphnia magna</i> a case study. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 208.	2.7	4
107	Application of a standard risk assessment scheme to a North Africa contaminated site (Sfax, Tunisia) -Tier 1. <i>Chemosphere</i> , 2021, 263, 128326.	8.2	4
108	Feeding exposure and feeding behaviour as relevant approaches in the assessment of the effects of micro(nano)plastics to early life stages of amphibians. <i>Environmental Research</i> , 2022, 212, 113476.	7.5	4

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109	A Multidisciplinary Approach to Evaluate the Efficiency of a Clean-Up Technology to Remove Mercury from Water. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2014, 93, 138-143.	2.7	3
110	Survival recovery rates by six clonal lineages of <i>Daphnia longispina</i> after intermittent exposures to copper. <i>Chemosphere</i> , 2021, 264, 128403.	8.2	3
111	Effects of Long-Term Exposure to Increased Salinity on the Amphibian Skin Bacterium <i>Erwinia toletana</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2021, 80, 779-788.	4.1	3
112	Saprolegniosis in Amphibians: An Integrated Overview of a Fluffy Killer Disease. <i>Journal of Fungi</i> (Basel, Switzerland), 2022, 8, 537.	3.5	3
113	Genetically inherited tolerance may unveil trait dominance patterns in an amphibian model. <i>Scientific Reports</i> , 2019, 9, 19179.	3.3	2
114	Studying the toxicity of SLEnS-LAS micelles to collembolans and plants: Influence of ethylene oxide units in the head groups. <i>Journal of Hazardous Materials</i> , 2020, 394, 122522.	12.4	2
115	Mutagenicity of PM10-bound PAHs from non-exhaust sources. <i>Air Quality, Atmosphere and Health</i> , 2022, 15, 657-665.	3.3	2
116	Humane acute testing with tadpoles for risk assessment of chemicals: Avoidance instead of lethality. <i>Chemosphere</i> , 2022, 303, 135197.	8.2	2
117	Mutagenicity assessment of aerosols in emissions from domestic combustion processes. <i>Environmental Science and Pollution Research</i> , 2017, 24, 11867-11867.	5.3	1
118	Dataset of the preparation and characterization of an artificial sludge for ecotoxicological purposes. <i>Data in Brief</i> , 2019, 25, 104385.	1.0	1
119	Cytotoxicity and mutagenicity of particulate matter from the open burning of pruning wastes. <i>Air Quality, Atmosphere and Health</i> , 2022, 15, 299.	3.3	1
120	Prediction of salinisation effects on freshwater ecosystems due to climate changes. <i>Toxicology Letters</i> , 2014, 229, S133.	0.8	0
121	Evidences of salt stress on terrestrial fungi: The use of NaCl as a surrogate to predicted toxicity effects within scenarios of climate change. <i>Toxicology Letters</i> , 2015, 238, S119.	0.8	0
122	Ecotoxicity and Toxicity of Nanomaterials with Potential for Wastewater Treatment Applications. , 2017, , 1182-1216.		0
123	O MÃ©todo de Paulo Freire na EducaÃ§Ã£o Ambiental com o uso de aplicativo de informÃ¡tica para dispositivos mÃ³veis. <i>AmbientalMENTEsustentable</i> , 2018, 23-24, 371-385.	0.1	0
124	Ecotoxicity and Toxicity of Nanomaterials with Potential for Wastewater Treatment Applications. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 0, , 294-329.	0.4	0