Monika Mortimer

List of Publications by Year
in descending order

55 papers	4,591 citations	172457 29 h-index	144013 57 g-index
64 all docs	64 docs citations	64 times ranked	6575 citing authors

#	Article	IF	Citations
1	Toxicity of Ag, CuO and ZnO nanoparticles to selected environmentally relevant test organisms and mammalian cells in vitro: a critical review. Archives of Toxicology, 2013, 87, 1181-1200.	4.2	1,016
2	Ecotoxicity of nanoparticles of CuO and ZnO in natural water. Environmental Pollution, 2010, 158, 41-47.	7.5	384
3	Toxicity of ZnO and CuO nanoparticles to ciliated protozoa Tetrahymena thermophila. Toxicology, 2010, 269, 182-189.	4.2	302
4	Mechanisms of toxic action of Ag, ZnO and CuO nanoparticles to selected ecotoxicological test organisms and mammalian cells <i>in vitro</i>: A comparative review. Nanotoxicology, 2014, 8, 57-71.	3.0	297
5	Considerations of Environmentally Relevant Test Conditions for Improved Evaluation of Ecological Hazards of Engineered Nanomaterials. Environmental Science & Technology, 2016, 50, 6124-6145.	10.0	191
6	Photocatalytic antibacterial activity of nano-TiO2 (anatase)-based thin films: Effects on Escherichia coli cells and fatty acids. Journal of Photochemistry and Photobiology B: Biology, 2015, 142, 178-185.	3.8	190
7	Toxicity of 12 metal-based nanoparticles to algae, bacteria and protozoa. Environmental Science: Nano, 2015, 2, 630-644.	4.3	174
8	Evaluation of Exposure Concentrations Used in Assessing Manufactured Nanomaterial Environmental Hazards: Are They Relevant?. Environmental Science & Technology, 2014, 48, 10541-10551.	10.0	169
9	High throughput kinetic Vibrio fischeri bioluminescence inhibition assay for study of toxic effects of nanoparticles. Toxicology in Vitro, 2008, 22, 1412-1417.	2.4	144
10	Adaptive Interactions between Zinc Oxide Nanoparticles and <i>Chlorella</i> sp.. Environmental Science & Technology, 2012, 46, 12178-12185.	10.0	139
11	NanoE-Tox: New and in-depth database concerning ecotoxicity of nanomaterials. Beilstein Journal of Nanotechnology, 2015, 6, 1788-1804.	2.8	116
12	Parabens as chemicals of emerging concern in the environment and humans: A review. Science of the Total Environment, 2021, 778, 146150.	8.0	116
13	Exposure to CuO Nanoparticles Changes the Fatty Acid Composition of Protozoa <i>Tetrahymena thermophila</i>. Environmental Science & Technology, 2011, 45, 6617-6624.	10.0	105
14	Long-Term Effects of Multiwalled Carbon Nanotubes and Graphene on Microbial Communities in Dry Soil. Environmental Science & Technology, 2016, 50, 3965-3974.	10.0	91
15	Potential of Hyperspectral Imaging Microscopy for Semi-quantitative Analysis of Nanoparticle Uptake by Protozoa. Environmental Science & Technology, 2014, 48, 8760-8767.	10.0	84
16	Nanotoxicology and nanomedicine: The Yin and Yang of nano-bio interactions for the new decade. Nano Today, 2021, 39, 101184.	11.9	67
17	Soil biofilms: microbial interactions, challenges, and advanced techniques for ex-situ characterization. Soil Ecology Letters, 2019, 1, 85-93.	4.5	62
18	Bioaccumulation of Multiwall Carbon Nanotubes in <i>Tetrahymena thermophila</i> by Direct Feeding or Trophic Transfer. Environmental Science & Technology, 2016, 50, 8876-8885.	10.0	61

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19	The exopolysaccharideâ€“eDNA interaction modulates 3D architecture of Bacillus subtilis biofilm. BMC Microbiology, 2020, 20, 115.	3.3	56
20	Towards a better understanding of Pseudomonas putida biofilm formation in the presence of ZnO nanoparticles (NPs): Role of NP concentration. Environment International, 2020, 137, 105485.	10.0	49
21	Strategies for robust and accurate experimental approaches to quantify nanomaterial bioaccumulation across a broad range of organisms. Environmental Science: Nano, 2019, 6, 1619-1656.	4.3	48
22	Interaction of firefly luciferase and silver nanoparticles and its impact on enzyme activity. Nanotechnology, 2013, 24, 345101.	2.6	47
23	NanoEHS beyond toxicity â€“ focusing on biocorona. Environmental Science: Nano, 2017, 4, 1433-1454.	4.3	43
24	Multiwall Carbon Nanotubes Induce More Pronounced Transcriptomic Responses in <i>Pseudomonas aeruginosa</i> PG201 than Graphene, Exfoliated Boron Nitride, or Carbon Black. ACS Nano, 2018, 12, 2728-2740.	14.6	42
25	Mechanisms of toxic action of silver nanoparticles in the protozoan Tetrahymena thermophila : From gene expression to phenotypic events. Environmental Pollution, 2017, 225, 481-489.	7.5	41
26	Identification and characterization of an arachidonate 11R-lipoxygenase. Archives of Biochemistry and Biophysics, 2006, 445, 147-155.	3.0	37
27	Antibacterial nanomaterials for environmental and consumer product applications. NanoImpact, 2020, 20, 100268.	4.5	37
28	Graphene quantum dots rescue protein dysregulation of pancreatic Î²-cells exposed to human islet amyloid polypeptide. Nano Research, 2019, 12, 2827-2834.	10.4	34
29	Uptake, localization and clearance of quantum dots in ciliated protozoa Tetrahymena thermophila. Environmental Pollution, 2014, 190, 58-64.	7.5	31
30	Alginic Acid-Aided Dispersion of Carbon Nanotubes, Graphene, and Boron Nitride Nanomaterials for Microbial Toxicity Testing. Nanomaterials, 2018, 8, 76.	4.1	30
31	Implications of the Human Gutâ€“Brain and Gutâ€“Cancer Axes for Future Nanomedicine. ACS Nano, 2020, 14, 14391-14416.	14.6	30
32	Extraction of extracellular polymeric substances (EPS) from red soils (Ultisols). Soil Biology and Biochemistry, 2019, 135, 283-285.	8.8	28
33	Toxicity of five anilines to crustaceans, protozoa and bacteria. Journal of the Serbian Chemical Society, 2010, 75, 1291-1302.	0.8	27
34	Extracellular conversion of silver ions into silver nanoparticles by protozoan Tetrahymena thermophila. Environmental Sciences: Processes and Impacts, 2013, 15, 244-250.	3.5	26
35	Physical Properties of Carbon Nanomaterials and Nanoceria Affect Pathways Important to the Nodulation Competitiveness of the Symbiotic N 2 â€Fixing Bacterium Bradyrhizobium diazoefficiens. Small, 2020, 16, 1906055.	10.0	26
36	Humic acids restrict the transformation and the stabilization of Cd by iron (hydr)oxides. Journal of Hazardous Materials, 2022, 430, 128365.	12.4	25

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37	Separation of Bacteria, Protozoa and Carbon Nanotubes by Density Gradient Centrifugation. Nanomaterials, 2016, 6, 181.	4.1	24
38	Elevated amyloidoses of human IAPP and amyloid beta by lipopolysaccharide and their mitigation by carbon quantum dots. Nanoscale, 2020, 12, 12317-12328.	5.6	23
39	Interplay between engineered nanomaterials and microbiota. Environmental Science: Nano, 2020, 7, 2454-2485.	4.3	21
40	Evaluation of frameworks proposed as protective of antimicrobial resistance propagation in the environment. Environment International, 2020, 144, 106053.	10.0	20
41	Nanomaterials as novel agents for amelioration of Parkinsonâ€™s disease. Nano Today, 2021, 41, 101328.	11.9	18
42	Functional group diversity for the adsorption of lead(Pb) to bacterial cells and extracellular polymeric substances. Environmental Pollution, 2022, 295, 118651.	7.5	18
43	Molecular Mechanisms of Nanomaterial-Bacterial Interactions Revealed by Omicsâ€"The Role of Nanomaterial Effect Level. Frontiers in Bioengineering and Biotechnology, 2021, 9, 683520.	4.1	13
44	Chemical transformations of nanoscale zinc oxide in simulated sweat and its impact on the antibacterial efficacy. Journal of Hazardous Materials, 2021, 410, 124568.	12.4	12
45	Transcriptomic responses to silver nanoparticles in the freshwater unicellular eukaryote Tetrahymena thermophila. Environmental Pollution, 2021, 269, 115965.	7.5	12
46	Impact of metal oxide nanoparticles on in vitro DNA amplification. PeerJ, 2019, 7, e7228.	2.0	12
47	Fate of engineered nanomaterials in natural environments and impacts on ecosystems. , 2019, , 61-103.		11
48	Engineered nanomaterials and symbiotic dinitrogen fixation in legumes. Current Opinion in Environmental Science and Health, 2018, 6, 54-59.	4.1	10
49	Interspecific interactions in dual-species biofilms of soil bacteria: effects of fertilization practices. Journal of Soils and Sediments, 2020, 20, 1494-1501.	3.0	6
50	Uptake and depuration of carbon- and boron nitride-based nanomaterials in the protozoa <i>Tetrahymena thermophila</i>. Environmental Science: Nano, 2021, 8, 3613-3628.	4.3	6
51	Stability of Titanium Dioxide Nanoparticle Agglomerates in Transitional Waters and Their Effects Towards Plankton from Lagoon of Venice (Italy). Aquatic Geochemistry, 2015, 21, 343-362.	1.3	4
52	Zooming in to acquire micro-reaction: Application of microfluidics on soil microbiome. Soil Ecology Letters, 2022, 4, 213-223.	4.5	3
53	Omics Approaches in Toxicological Studies. , 2022, , 61-94.		3
54	Bioavailability and toxicity of copper oxide and silver nanoparticles to bacteria, yeasts, crustaceans and protozoa. Toxicology Letters, 2011, 205, S284-S285.	0.8	1

#	Article	IF	Citations
55	Advances in Nanotoxicology: Towards Enhanced Environmental and Physiological Relevance and Molecular Mechanisms. Nanomaterials, 2021, 11, 919.	4.1	1