Willie Peijnenburg

List of Publications by Citations

361 papers	**12,420** citations	**57** h-index	**95** g-index
378 ext. papers	**14,463** ext. citations	**7.1** avg, IF	**6.68** L-index

#	Paper	IF	Citations
361	Nano-silver – a review of available data and knowledge gaps in human and environmental risk assessment. *Nanotoxicology*, **2009**, 3, 109-138	5.3	943
360	An integrated assessment of estrogenic contamination and biological effects in the aquatic environment of The Netherlands. *Chemosphere*, **2005**, 59, 511-24	8.4	375
359	Internal metal sequestration and its ecotoxicological relevance: a review. *Environmental Science & Technology*, **2004**, 38, 4705-12	10.3	346
358	Monitoring approaches to assess bioaccessibility and bioavailability of metals: matrix issues. *Ecotoxicology and Environmental Safety*, **2003**, 56, 63-77	7	248
357	Monitoring metals in terrestrial environments within a bioavailability framework and a focus on soil extraction. *Ecotoxicology and Environmental Safety*, **2007**, 67, 163-79	7	242
356	Occurrence of phthalate esters in the environment of The Netherlands. *Ecotoxicology and Environmental Safety*, **2006**, 63, 204-15	7	242
355	Bioaccumulation of heavy metals in terrestrial invertebrates. *Environmental Pollution*, **2001**, 113, 385-93	9.3	206
354	Effective uptake of submicrometre plastics by crop plants via a crack-entry mode. *Nature Sustainability*, **2020**, 3, 929-937	22.1	191
353	Equilibrium partitioning of heavy metals in dutch field soils. I. Relationship between metal partition coefficients and soil characteristics. *Environmental Toxicology and Chemistry*, **1997**, 16, 2470-2478	3.8	157
352	A Review of the Properties and Processes Determining the Fate of Engineered Nanomaterials in the Aquatic Environment. *Critical Reviews in Environmental Science and Technology*, **2015**, 45, 2084-2134	11.1	145
351	Relating environmental availability to bioavailability: soil-type-dependent metal accumulation in the oligochaete Eisenia andrei. *Ecotoxicology and Environmental Safety*, **1999**, 44, 294-310	7	145
350	A conceptual framework for implementation of bioavailability of metals for environmental management purposes. *Ecotoxicology and Environmental Safety*, **1997**, 37, 163-72	7	142
349	From Bioavailability Science to Regulation of Organic Chemicals. *Environmental Science & Technology*, **2015**, 49, 10255-64	10.3	139
348	Physicochemical Properties and Aquatic Toxicity of Poly- and Perfluorinated Compounds. *Critical Reviews in Environmental Science and Technology*, **2013**, 43, 598-678	11.1	129
347	Predicting Soil–Water Partition Coefficients for Cadmium. *Environmental Science & Technology*, **1996**, 30, 3418-3424	10.3	129
346	Natural colloids are the dominant factor in the sedimentation of nanoparticles. *Environmental Toxicology and Chemistry*, **2012**, 31, 1019-22	3.8	124
345	Toxicity and accumulation of Cu and ZnO nanoparticles in Daphnia magna. *Environmental Science & Technology*, **2015**, 49, 4657-64	10.3	122

326	Rhizosphere Microbiome Assembly and Its Impact on Plant Growth. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 5024-5038	5.7	77
325	Particle-specific toxic effects of differently shaped zinc oxide nanoparticles to zebrafish embryos (Danio rerio). *Environmental Toxicology and Chemistry*, **2014**, 33, 2859-68	3.8	76
324	Plasma membrane surface potential: dual effects upon ion uptake and toxicity. *Plant Physiology*, **2011**, 155, 808-20	6.6	75
323	Next-Generation Multifunctional Carbon-Metal Nanohybrids for Energy and Environmental Applications. *Environmental Science & Technology*, **2019**, 53, 7265-7287	10.3	73
322	Species-specific toxicity of copper nanoparticles among mammalian and piscine cell lines. *Nanotoxicology*, **2014**, 8, 383-93	5.3	73
321	Modeling lifetime and degradability of organic compounds in air, soil, and water systems (IUPAC Technical Report). *Pure and Applied Chemistry*, **2001**, 73, 1331-1348	2.1	73
320	Prediction of biodegradability from chemical structure: Modeling of ready biodegradation test data. *Environmental Toxicology and Chemistry*, **1999**, 18, 1763-1768	3.8	73
319	Frameworks and tools for risk assessment of manufactured nanomaterials. *Environment International*, **2016**, 95, 36-53	12.9	73
318	Impact of copper nanoparticles and ionic copper exposure on wheat (Triticum aestivum L.) root morphology and antioxidant response. *Environmental Pollution*, **2018**, 239, 689-697	9.3	70
317	Considerations for Safe Innovation: The Case of Graphene. *ACS Nano*, **2017**, 11, 9574-9593	16.7	68
316	Metal uptake from soils and soil-sediment mixtures by larvae of Tenebrio molitor (L.) (Coleoptera). *Ecotoxicology and Environmental Safety*, **2003**, 54, 277-89	7	68
315	Soil acidification increases metal extractability and bioavailability in old orchard soils of Northeast Jiaodong Peninsula in China. *Environmental Pollution*, **2014**, 188, 144-52	9.3	65
314	New method for calculating comparative toxicity potential of cationic metals in freshwater: application to copper, nickel, and zinc. *Environmental Science & Technology*, **2010**, 44, 5195-201	10.3	65
313	How should the completeness and quality of curated nanomaterial data be evaluated?. *Nanoscale*, **2016**, 8, 9919-43	7.7	65
312	Effect of soil washing with biodegradable chelators on the toxicity of residual metals and soil biological properties. *Science of the Total Environment*, **2018**, 625, 1021-1029	10.2	64
311	Pathways of cadmium fluxes in the root of the halophyte Suaeda salsa. *Ecotoxicology and Environmental Safety*, **2012**, 75, 1-7	7	62
310	A comparative analysis on the in vivo toxicity of copper nanoparticles in three species of freshwater fish. *Chemosphere*, **2015**, 139, 181-9	8.4	61
309	The interactive effects of diclofop-methyl and silver nanoparticles on Arabidopsis thaliana: Growth, photosynthesis and antioxidant system. *Environmental Pollution*, **2018**, 232, 212-219	9.3	61

308	Setting the stage for debating the roles of risk assessment and life-cycle assessment of engineered nanomaterials. *Nature Nanotechnology*, **2017**, 12, 727-733	28.7	61
307	Toxicity of different-sized copper nano- and submicron particles and their shed copper ions to zebrafish embryos. *Environmental Toxicology and Chemistry*, **2014**, 33, 1774-82	3.8	60
306	Phytotoxic effects of silver nanoparticles and silver ions to Arabidopsis thaliana as revealed by analysis of molecular responses and of metabolic pathways. *Science of the Total Environment*, **2018**, 644, 1070-1079	10.2	59
305	Extraction and Fractionation Methods for Exposure Assessment of Trace Metals, Metalloids, and Hazardous Organic Compounds in Terrestrial Environments. *Critical Reviews in Environmental Science and Technology*, **2012**, 42, 1117-1171	11.1	57
304	Nanoparticles induce dermal and intestinal innate immune system responses in zebrafish embryos. *Environmental Science: Nano*, **2018**, 5, 904-916	7.1	54
303	How subcellular partitioning can help to understand heavy metal accumulation and elimination kinetics in snails. *Environmental Toxicology and Chemistry*, **2008**, 27, 1284	3.8	52
302	Passive sampling methods for contaminated sediments: state of the science for metals. *Integrated Environmental Assessment and Management*, **2014**, 10, 179-96	2.5	50
301	Comparison of the method of diffusive gels in thin films with conventional extraction techniques for evaluating zinc accumulation in plants and isopods. *Environmental Pollution*, **2005**, 133, 103-16	9.3	49
300	Is it possible to develop a QSPR model for direct photolysis half-lives of PAHs under irradiation of sunlight?. *Environmental Pollution*, **2001**, 114, 137-43	9.3	48
299	Transport behavior of humic acid-modified nano-hydroxyapatite in saturated packed column: effects of Cu, ionic strength, and ionic composition. *Journal of Colloid and Interface Science*, **2011**, 360, 398-407	9.3	47
298	Added risk approach to derive maximum permissible concentrations for heavy metals: how to take natural background levels into account. *Ecotoxicology and Environmental Safety*, **1997**, 37, 112-8	7	47
297	Consideration of the bioavailability of metal/metalloid species in freshwaters: experiences regarding the implementation of biotic ligand model-based approaches in risk assessment frameworks. *Environmental Science and Pollution Research*, **2015**, 22, 7405-21	5.1	46
296	QSARs for predicting reductive transformation rate constants of halogenated aromatic hydrocarbons in anoxic sediment systems. *Environmental Toxicology and Chemistry*, **1992**, 11, 301-314	3.8	46
295	A comparison of fate and toxicity of selenite, biogenically, and chemically synthesized selenium nanoparticles to zebrafish (Danio rerio) embryogenesis. *Nanotoxicology*, **2017**, 11, 87-97	5.3	45
294	Fate assessment of engineered nanoparticles in solids dominated media - Current insights and the way forward. *Environmental Pollution*, **2016**, 218, 1365-1369	9.3	45
293	Toxicological mixture models are based on inadequate assumptions. *Environmental Science & Technology*, **2010**, 44, 4841-2	10.3	44
292	Evaluation of Exposure Metrics for Effect Assessment of Soil Invertebrates. *Critical Reviews in Environmental Science and Technology*, **2012**, 42, 1862-1893	11.1	44
291	Multiwall carbon nanotubes modulate paraquat toxicity in Arabidopsis thaliana. *Environmental Pollution*, **2018**, 233, 633-641	9.3	44

290	Evaluation of the taxonomic and functional variation of freshwater plankton communities induced by trace amounts of the antibiotic ciprofloxacin. *Environment International*, **2019**, 126, 268-278	12.9	43
289	The clearwater consensus: the estimation of metal hazard in fresh water. *International Journal of Life Cycle Assessment*, **2010**, 15, 143-147	4.6	43
288	Silver Nanoparticles, Ions, and Shape Governing Soil Microbial Functional Diversity: Nano Shapes Micro. *Frontiers in Microbiology*, **2016**, 7, 1123	5.7	43
287	A metabolomic study on the responses of daphnia magna exposed to silver nitrate and coated silver nanoparticles. *Ecotoxicology and Environmental Safety*, **2015**, 119, 66-73	7	42
286	Predicting effects of cations on copper toxicity to lettuce (Lactuca sativa) by the biotic ligand model. *Environmental Toxicology and Chemistry*, **2012**, 31, 355-9	3.8	42
285	Implications of considering metal bioavailability in estimates of freshwater ecotoxicity: examination of two case studies. *International Journal of Life Cycle Assessment*, **2011**, 16, 774	4.6	42
284	Impact of metal pools and soil properties on metal accumulation in Folsomia candida (Collembola). *Environmental Toxicology and Chemistry*, **2001**, 20, 712-720	3.8	42
283	Toxicity of mixtures of zinc oxide and graphene oxide nanoparticles to aquatic organisms of different trophic level: particles outperform dissolved ions. *Nanotoxicology*, **2018**, 12, 423-438	5.3	41
282	PBT assessment using the revised annex XIII of REACH: a comparison with other regulatory frameworks. *Integrated Environmental Assessment and Management*, **2012**, 8, 359-71	2.5	41
281	Structure-specificity relationships for haloalkane dehalogenases. *Environmental Toxicology and Chemistry*, **2001**, 20, 2681-2689	3.8	40
280	Both released silver ions and particulate Ag contribute to the toxicity of AgNPs to earthworm Eisenia fetida. *Nanotoxicology*, **2015**, 9, 792-801	5.3	39
279	Humic substances alleviate the aquatic toxicity of polyvinylpyrrolidone-coated silver nanoparticles to organisms of different trophic levels. *Environmental Toxicology and Chemistry*, **2015**, 34, 1239-45	3.8	39
278	Facilitated Transport of Copper with Hydroxyapatite Nanoparticles in Saturated Sand. *Soil Science Society of America Journal*, **2012**, 76, 375-388	2.5	39
277	Metal accumulation in the earthworm Lumbricus rubellus. Model predictions compared to field data. *Environmental Pollution*, **2007**, 146, 428-36	9.3	39
276	Rethinking Nano-TiO Safety: Overview of Toxic Effects in Humans and Aquatic Animals. *Small*, **2020**, 16, e2002019	11	39
275	Characteristics of cadmium uptake and membrane transport in roots of intact wheat (Triticum aestivum L.) seedlings. *Environmental Pollution*, **2017**, 221, 351-358	9.3	38
274	Investigation of Rhizospheric Microbial Communities in Wheat, Barley, and Two Rice Varieties at the Seedling Stage. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 2645-2653	5.7	38
273	Assessment of QSARS for Predicting Fate and Effects of Chemicals in the Environment: An International European Project. *SAR and QSAR in Environmental Research*, **1995**, 3, 223-36	3.5	38

272	Structure-activity relationships for biodegradation: A critical review. *Pure and Applied Chemistry*, **1994**, 66, 1931-1941	2.1	38
271	Toward harmonizing ecotoxicity characterization in life cycle impact assessment. *Environmental Toxicology and Chemistry*, **2018**, 37, 2955-2971	3.8	38
270	Towards Nanowire Tandem Junction Solar Cells on Silicon. *IEEE Journal of Photovoltaics*, **2018**, 8, 733-740	3.7	37
269	The MARINA Risk Assessment Strategy: A Flexible Strategy for Efficient Information Collection and Risk Assessment of Nanomaterials. *International Journal of Environmental Research and Public Health*, **2015**, 12, 15007-21	4.6	37
268	Comparative toxicity of copper nanoparticles across three Lemnaceae species. *Science of the Total Environment*, **2015**, 518-519, 217-24	10.2	35
267	Strategies for determining heteroaggregation attachment efficiencies of engineered nanoparticles in aquatic environments. *Environmental Science: Nano*, **2020**, 7, 351-367	7.1	35
266	Modeling toxicity of binary metal mixtures (Cu(2+) -Ag(+) , Cu(2+) -Zn(2+)) to lettuce, Lactuca sativa, with the biotic ligand model. *Environmental Toxicology and Chemistry*, **2013**, 32, 137-43	3.8	35
265	Evaluation and application of models for the prediction of ready biodegradability in the MITI-I test. *Chemosphere*, **1999**, 38, 1409-17	8.4	35
264	A review of recent advances towards the development of QSAR models for toxicity assessment of ionic liquids. *Journal of Hazardous Materials*, **2020**, 384, 121429	12.8	35
263	Toxicity of copper nanoparticles to Daphnia magna under different exposure conditions. *Science of the Total Environment*, **2016**, 563-564, 81-8	10.2	35
262	Analytical approaches for characterizing and quantifying engineered nanoparticles in biological matrices from an (eco)toxicological perspective: old challenges, new methods and techniques. *Science of the Total Environment*, **2019**, 660, 1283-1293	10.2	35
261	Foliar versus root exposure of AgNPs to lettuce: Phytotoxicity, antioxidant responses and internal translocation. *Environmental Pollution*, **2020**, 261, 114117	9.3	34
260	Quantitative structure-property relationship studies on direct photolysis of selected polycyclic aromatic hydrocarbons in atmospheric aerosol. *Chemosphere*, **2001**, 42, 263-70	8.4	34
259	Development of a structure-reactivity relationship for the photohydrolysis of substituted aromatic halides. *Environmental Science & Technology*, **1992**, 26, 2116-2121	10.3	34
258	C60-DOM interactions and effects on C60 apparent solubility: a molecular mechanics and density functional theory study. *Environment International*, **2011**, 37, 1078-82	12.9	33
257	Offspring toxicity of silver nanoparticles to Arabidopsis thaliana flowering and floral development. *Journal of Hazardous Materials*, **2020**, 386, 121975	12.8	33
256	Remediation of heavy metal contaminated soil by biodegradable chelator-induced washing: Efficiencies and mechanisms. *Environmental Research*, **2020**, 186, 109554	7.9	32
255	Possibilities of implementation of bioavailability methods for organic contaminants in the Dutch Soil Quality Assessment Framework. *Journal of Hazardous Materials*, **2013**, 261, 833-9	12.8	32

254   Perspectives for integrating human and environmental risk assessment and synergies with socio-economic analysis. *Science of the Total Environment*, **2013**, 456-457, 307-16   10.2   32

253   Evaluating the Combined Toxicity of Cu and ZnO Nanoparticles: Utility of the Concept of Additivity and a Nested Experimental Design. *Environmental Science & Technology*, **2016**, 50, 5328-37   10.3   32

252   Feasibility of Chinese cabbage (Brassica bara) and lettuce (Lactuca sativa) cultivation in heavily metals—contaminated soil after washing with biodegradable chelators. *Journal of Cleaner Production*, **2018**, 197, 479-490   10.3   32

251   Health Risks Awareness of Electronic Waste Workers in the Informal Sector in Nigeria. *International Journal of Environmental Research and Public Health*, **2017**, 14,   4.6   31

250   Interactions of cadmium and zinc impact their toxicity to the earthworm Aporrectodea caliginosa. *Environmental Toxicology and Chemistry*, **2011**, 30, 2084-93   3.8   31

249   Kinetics of cadmium uptake and subcellular partitioning in the earthworm Eisenia fetida exposed to cadmium-contaminated soil. *Archives of Environmental Contamination and Toxicology*, **2009**, 57, 718-24   3.2   31

248   The application of quantum chemical and statistical technique in developing quantitative structure-property relationships for the photohydrolysis quantum yields of substituted aromatic halides. *Chemosphere*, **1998**, 37, 1169-1186   8.4   31

247   Incorporating availability/bioavailability in risk assessment and decision making of polluted sites, using Germany as an example. *Journal of Hazardous Materials*, **2013**, 261, 854-62   12.8   30

246   Alteration of dominant cyanobacteria in different bloom periods caused by abiotic factors and species interactions. *Journal of Environmental Sciences*, **2021**, 99, 1-9   6.4   30

245   Modelling the toxicity of a large set of metal and metal oxide nanoparticles using the OCHEM platform. *Food and Chemical Toxicology*, **2018**, 112, 507-517   4.7   30

244   Environmental Risk Assessment Strategy for Nanomaterials. *International Journal of Environmental Research and Public Health*, **2017**, 14,   4.6   29

243   Predicting copper toxicity to different earthworm species using a multicomponent Freundlich model. *Environmental Science & Technology*, **2013**, 47, 4796-803   10.3   29

242   Quantitative structure-property relationships for direct photolysis quantum yields of selected polycyclic aromatic hydrocarbons. *Science of the Total Environment*, **2000**, 246, 11-20   10.2   29

241   Impact of water chemistry on the behavior and fate of copper nanoparticles. *Environmental Pollution*, **2018**, 234, 684-691   9.3   28

240   Docking and QSAR study on the binding interactions between polycyclic aromatic hydrocarbons and estrogen receptor. *Ecotoxicology and Environmental Safety*, **2012**, 80, 273-9   7   28

239   Quantitative structure-property relationships (QSPRs) on direct photolysis quantum yields of PCDDs. *Chemosphere*, **2001**, 43, 235-41   8.4   28

238   Reductive transformations of halogenated aromatic hydrocarbons in anaerobic water-sediment systems: Kinetics, mechanisms and products. *Environmental Toxicology and Chemistry*, **1992**, 11, 289-300   3.8   28

237   Impact of metal pools and soil properties on metal accumulation in Folsomia candida (Collembola). *Environmental Toxicology and Chemistry*, **2001**, 20, 712-20   3.8   28

236	Acute toxicity of poly- and perfluorinated compounds to two cladocerans, Daphnia magna and Chydorus sphaericus. *Environmental Toxicology and Chemistry*, **2012**, 31, 605-10	3.8	27
235	Importance of exposure dynamics of metal-based nano-ZnO, -Cu and -Pb governing the metabolic potential of soil bacterial communities. *Ecotoxicology and Environmental Safety*, **2017**, 145, 349-358	7	27
234	A practical approach to determine dose metrics for nanomaterials. *Environmental Toxicology and Chemistry*, **2015**, 34, 1015-22	3.8	27
233	Copper in the terrestrial environment: Verification of a laboratory-derived terrestrial biotic ligand model to predict earthworm mortality with toxicity observed in field soils. *Soil Biology and Biochemistry*, **2006**, 38, 1788-1796	7.5	27
232	Underlying issues including approaches and information needs in risk assessment. *Ecotoxicology and Environmental Safety*, **2003**, 56, 6-19	7	27
231	Prevalence and injury patterns among electronic waste workers in the informal sector in Nigeria. *Injury Prevention*, **2018**, 24, 185-192	3.2	26
230	Impact of water chemistry on the particle-specific toxicity of copper nanoparticles to Daphnia magna. *Science of the Total Environment*, **2018**, 610-611, 1329-1335	10.2	26
229	Determining the fluxes of ions (Pb2+, Cu2+ and Cd2+) at the root surface of wetland plants using the scanning ion-selective electrode technique. *Plant and Soil*, **2017**, 414, 1-12	4.2	26
228	Implications of geographic variability on Comparative Toxicity Potentials of Cu, Ni and Zn in freshwaters of Canadian ecoregions. *Chemosphere*, **2011**, 82, 268-77	8.4	26
227	Evaluating mechanisms for plant-ion (Ca2+, Cu2+, Cd2+ or Ni2+) interactions and their effectiveness on rhizotoxicity. *Plant and Soil*, **2010**, 334, 277-288	4.2	26
226	Prediction of joint algal toxicity of nano-CeO2/nano-TiO2 and florfenicol: Independent action surpasses concentration addition. *Chemosphere*, **2016**, 156, 8-13	8.4	26
225	Impact of imidacloprid on Daphnia magna under different food quality regimes. *Environmental Toxicology and Chemistry*, **2014**, 33, 621-31	3.8	25
224	Modelling metal-metal interactions and metal toxicity to lettuce Lactuca sativa following mixture exposure (Cu+-Zn+ and Cu+-Ag+). *Environmental Pollution*, **2013**, 176, 185-92	9.3	25
223	Experimental assessment of the environmental fate and effects of triazoles and benzotriazole. *ATLA Alternatives To Laboratory Animals*, **2013**, 41, 65-75	2.1	25
222	Development of an electrostatic model predicting copper toxicity to plants. *Journal of Experimental Botany*, **2012**, 63, 659-68	7	25
221	Availability of polycyclic aromatic hydrocarbons to earthworms (Eisenia andrei, Oligochaeta) in field-polluted soils and soil-sediment mixtures. *Environmental Toxicology and Chemistry*, **2003**, 22, 767-75	3.8	25
220	Development of a QSAR model for predicting aqueous reaction rate constants of organic chemicals with hydroxyl radicals. *Environmental Sciences: Processes and Impacts*, **2017**, 19, 350-356	4.3	24
219	Development of methods for extraction and analytical characterization of carbon-based nanomaterials (nanoplastics and carbon nanotubes) in biological and environmental matrices by asymmetrical flow field-flow fractionation. *Environmental Pollution*, **2019**, 255, 113304	9.3	24

218	Interactive effects of rice straw biochar and AlO on immobilization of Zn. *Journal of Hazardous Materials*, **2019**, 373, 250-257	12.8	24
217	Dissolution and aggregation kinetics of zero valent copper nanoparticles in (simulated) natural surface waters: Simultaneous effects of pH, NOM and ionic strength. *Chemosphere*, **2019**, 226, 841-850	8.4	24
216	Summary and analysis of the currently existing literature data on metal-based nanoparticles published for selected aquatic organisms: Applicability for toxicity prediction by (Q)SARs. *ATLA Alternatives To Laboratory Animals*, **2015**, 43, 221-40	2.1	24
215	A QICAR approach for quantifying binding constants for metal-ligand complexes. *Ecotoxicology and Environmental Safety*, **2011**, 74, 1036-42	7	24
214	On the Usefulness and Reliability of Existing QSBRs for Risk Assessment and Priority Setting. *SAR and QSAR in Environmental Research*, **1996**, 5, 1-16	3.5	24
213	Development of nanostructureactivity relationships assisting the nanomaterial hazard categorization for risk assessment and regulatory decision-making. *RSC Advances*, **2016**, 6, 52227-52235	3.7	24
212	Assessing toxicity of copper nanoparticles across five cladoceran species. *Environmental Toxicology and Chemistry*, **2015**, 34, 1863-9	3.8	23
211	Developing species sensitivity distributions for metallic nanomaterials considering the characteristics of nanomaterials, experimental conditions, and different types of endpoints. *Food and Chemical Toxicology*, **2018**, 112, 563-570	4.7	23
210	Simple in vitro models can predict pulmonary toxicity of silver nanoparticles. *Nanotoxicology*, **2016**, 10, 770-9	5.3	23
209	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. *Environmental Science: Nano*, **2020**, 7, 13-36	7.1	23
208	Method for Extraction and Quantification of Metal-Based Nanoparticles in Biological Media: Number-Based Biodistribution and Bioconcentration. *Environmental Science & Technology*, **2019**, 53, 946-953	10.3	23
207	The effect of capping agents on the toxicity of silver nanoparticles to Danio rerio embryos. *Nanotoxicology*, **2019**, 13, 1-13	5.3	22
206	Pathways of root uptake and membrane transport of Cd in the zinc/cadmium hyperaccumulating plant Sedum plumbizincicola. *Environmental Toxicology and Chemistry*, **2017**, 36, 1038-1046	3.8	22
205	Insights into the transcriptional responses of a microbial community to silver nanoparticles in a freshwater microcosm. *Environmental Pollution*, **2020**, 258, 113727	9.3	22
204	Impact of CeO nanoparticles on the aggregation kinetics and stability of polystyrene nanoplastics: Importance of surface functionalization and solution chemistry. *Water Research*, **2020**, 186, 116324	12.5	22
203	The biodistribution and immuno-responses of differently shaped non-modified gold particles in zebrafish embryos. *Nanotoxicology*, **2019**, 13, 558-571	5.3	21
202	Impact of informal electronic waste recycling on metal concentrations in soils and dusts. *Environmental Research*, **2018**, 164, 385-394	7.9	21
201	Rate constants of hydroxyl radicals reaction with different dissociation species of fluoroquinolones and sulfonamides: Combined experimental and QSAR studies. *Water Research*, **2019**, 166, 115083	12.5	21

200	Assessment and prediction of joint algal toxicity of binary mixtures of graphene and ionic liquids. *Chemosphere*, **2017**, 185, 681-689	8.4	21
199	External validation of EPIWIN biodegradation models. *SAR and QSAR in Environmental Research*, **2005**, 16, 135-48	3.5	21
198	Quantitative structure-property relationships on photodegradation of PCDD/Fs in cuticular waxes of laurel cherry (Prunus laurocerasus). *Science of the Total Environment*, **2001**, 269, 163-70	10.2	21
197	The crucial role of a protein corona in determining the aggregation kinetics and colloidal stability of polystyrene nanoplastics. *Water Research*, **2021**, 190, 116742	12.5	21
196	Quantitative structure-activity relationships for green algae growth inhibition by polymer particles. *Chemosphere*, **2017**, 179, 49-56	8.4	20
195	Evaluating environmental risk assessment models for nanomaterials according to requirements along the product innovation Stage-Gate process. *Environmental Science: Nano*, **2019**, 6, 505-518	7.1	20
194	Green and Clean: Reviewing the Justification of Claims for Nanomaterials from a Sustainability Point of View. *Sustainability*, **2018**, 10, 689	3.6	20
193	Trace amounts of fenofibrate acid sensitize the photodegradation of bezafibrate in effluents: Mechanisms, degradation pathways, and toxicity evaluation. *Chemosphere*, **2019**, 235, 900-907	8.4	20
192	Impacts of major cations (K(+), Na (+), Ca (2+), Mg (2+)) and protons on toxicity predictions of nickel and cadmium to lettuce (Lactuca sativa L.) using exposure models. *Ecotoxicology*, **2014**, 23, 385-95	2.9	20
191	Comparing three approaches in extending biotic ligand models to predict the toxicity of binary metal mixtures (Cu-Ni, Cu-Zn and Cu-Ag) to lettuce (Lactuca sativa L.). *Chemosphere*, **2014**, 112, 282-8	8.4	20
190	Evaluation of an electrostatic toxicity model for predicting Ni(2+) toxicity to barley root elongation in hydroponic cultures and in soils. *New Phytologist*, **2011**, 192, 414-27	9.8	20
189	Impact of pH on Cu accumulation kinetics in earthworm cytosol. *Environmental Science & Technology*, **2007**, 41, 2255-60	10.3	20
188	Transport, Accumulation and Transformation Processes **2007**, 73-158		20
187	Toxicity of polyfluorinated and perfluorinated compounds to lettuce (Lactuca sativa) and green algae (Pseudokirchneriella subcapitata). *Archives of Environmental Contamination and Toxicology*, **2012**, 62, 49-55	3.2	19
186	Metal-specific interactions at the interface of chemistry and biology. *Pure and Applied Chemistry*, **2007**, 79, 2351-2366	2.1	19
185	A model sensitivity analysis to determine the most important physicochemical properties driving environmental fate and exposure of engineered nanoparticles. *Environmental Science: Nano*, **2019**, 6, 2049-2060	7.1	18
184	Internal distribution of Cd in lettuce and resulting effects on Cd trophic transfer to the snail: Achatina fulica. *Chemosphere*, **2015**, 135, 123-8	8.4	18
183	Incorporating bioavailability into toxicity assessment of Cu-Ni, Cu-Cd, and Ni-Cd mixtures with the extended biotic ligand model and the WHAM-F(tox) approach. *Environmental Science and Pollution Research*, **2015**, 22, 19213-23	5.1	18

182	Combining ex-ante LCA and EHS screening to assist green design: A case study of cellulose nanocrystal foam. *Journal of Cleaner Production*, **2018**, 178, 494-506	10.3	18
181	TiO2 nanoparticles reduce the effects of ZnO nanoparticles and Zn ions on zebrafish embryos (Danio rerio). *NanoImpact*, **2016**, 2, 45-53	5.6	18
180	An electrostatic model predicting Cu and Ni toxicity to microbial processes in soils. *Soil Biology and Biochemistry*, **2013**, 57, 720-730	7.5	18
179	Tannic acid promotes ion release of copper oxide nanoparticles: Impacts from solution pH change and complexation reactions. *Water Research*, **2017**, 127, 59-67	12.5	17
178	Using PM3 Hamiltonian, factor analysis and regression analysis in developing quantitative structure-property relationships for photohydrolysis quantum yields of substituted aromatic halides. *Chemosphere*, **1998**, 36, 2833-2853	8.4	17
177	Minimum requirements for reporting analytical data for environmental samples (IUPAC Technical Report). *Pure and Applied Chemistry*, **2003**, 75, 1097-1106	2.1	17
176	Implementation of bioavailability in standard setting and risk assessment?. *Journal of Soils and Sediments*, **2002**, 2, 169-173	3.4	17
175	Metal sorption onto nanoscale plastic debris and trojan horse effects in Daphnia magna: Role of dissolved organic matter. *Water Research*, **2020**, 186, 116410	12.5	17
174	Life cycle assessment of emerging technologies at the lab scale: The case of nanowire-based solar cells. *Journal of Industrial Ecology*, **2020**, 24, 193-204	7.2	17
173	Health Risks of Polybrominated Diphenyl Ethers (PBDEs) and Metals at Informal Electronic Waste Recycling Sites. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	16
172	Elucidating Toxicodynamic Differences at the Molecular Scale between ZnO Nanoparticles and ZnCl in via Nontargeted Metabolomics. *Environmental Science & Technology*, **2020**, 54, 3487-3498	10.3	16
171	A framework for deciding on the inclusion of emerging impacts in life cycle impact assessment. *Journal of Cleaner Production*, **2014**, 78, 152-163	10.3	16
170	A Review of Recent Advances towards the Development of (Quantitative) Structure-Activity Relationships for Metallic Nanomaterials. *Materials*, **2017**, 10,	3.5	16
169	Current Knowledge on the Use of Computational Toxicology in Hazard Assessment of Metallic Engineered Nanomaterials. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	16
168	Can commonly measurable traits explain differences in metal accumulation and toxicity in earthworm species?. *Ecotoxicology*, **2014**, 23, 21-32	2.9	16
167	A quantitative structure-activity relationship for the direct photohydrolysis of meta-substituted halobenzene derivatives in water. *Chemosphere*, **1993**, 26, 837-849	8.4	16
166	Interactions of CeO nanoparticles with natural colloids and electrolytes impact their aggregation kinetics and colloidal stability. *Journal of Hazardous Materials*, **2020**, 386, 121973	12.8	16
165	Combined effects of dissolved organic matter, pH, ionic strength and halides on photodegradation of oxytetracycline in simulated estuarine waters. *Environmental Sciences: Processes and Impacts*, **2019**, 21, 155-162	4.3	15

164	Statistically significant deviations from additivity: What do they mean in assessing toxicity of mixtures?. *Ecotoxicology and Environmental Safety*, **2015**, 122, 37-44	7	15
163	Understanding Dissolution Rates via Continuous Flow Systems with Physiologically Relevant Metal Ion Saturation in Lysosome. *Nanomaterials*, **2020**, 10,	5.4	15
162	The effect of pesticides on the composition of aquatic macrofauna communities in field ditches. *Basic and Applied Ecology*, **2016**, 17, 125-133	3.2	15
161	Unveiling the important roles of coexisting contaminants on photochemical transformations of pharmaceuticals: Fibrate drugs as a case study. *Journal of Hazardous Materials*, **2018**, 358, 216-221	12.8	15
160	Population responses of Daphnia magna, Chydorus sphaericus and Asellus aquaticus in pesticide contaminated ditches around bulb fields. *Environmental Pollution*, **2014**, 192, 196-203	9.3	15
159	Uptake pathways and toxicity of Cd and Zn in the earthworm Eisenia fetida. *Soil Biology and Biochemistry*, **2010**, 42, 1045-1050	7.5	15
158	The evaluation of the equilibrium partitioning method using sensitivity distributions of species in water and soil. *Chemosphere*, **2003**, 52, 1153-62	8.4	15
157	Photokinetics of Azaarenes and Toxicity of Phototransformation Products to the Marine DiatomPhaeodactylum tricornutum. *Environmental Science & Technology*, **1999**, 33, 4256-4262	10.3	15
156	QSARs for oxidation of phenols in the aqueous environment, suitable for risk assessment. *Journal of Chemometrics*, **1996**, 10, 79-93	1.6	15
155	Cyanobacterial blooms contribute to the diversity of antibiotic-resistance genes in aquatic ecosystems. *Communications Biology*, **2020**, 3, 737	6.7	14
154	Directions in QPPR development to complement the predictive models used in risk assessment of nanomaterials. *NanoImpact*, **2018**, 11, 58-66	5.6	14
153	Evaluation of CADASTER QSAR models for the aquatic toxicity of (benzo)triazoles and prioritisation by consensus prediction. *ATLA Alternatives To Laboratory Animals*, **2013**, 41, 49-64	2.1	14
152	Soil quality in the Lomellina area using in vitro models and ecotoxicological assays. *Environmental Research*, **2014**, 133, 220-31	7.9	14
151	Structural requirements for anaerobic biodegradation of organic chemicals: A fragment model analysis. *Environmental Toxicology and Chemistry*, **1998**, 17, 1943-1950	3.8	14
150	The kinetics of reductive dehalogenation of a set of halogenated aliphatic hydrocarbons in anaerobic sediment slurries. *Environmental Science and Pollution Research*, **1998**, 5, 12-6	5.1	14
149	Comparison of subcellular partitioning, distribution, and internal speciation of Cu between Cu-tolerant and naïve populations of Dendrodrilus rubidus Savigny. *Environmental Science & Technology*, **2008**, 42, 3900-5	10.3	14
148	Shape engineered TiO2 nanoparticles in Caenorhabditis elegans: a Raman imaging based approach to assist tissue-specific toxicological studies. *RSC Advances*, **2016**, 6, 70501-70509	3.7	14
147	Disentanglement of the chemical, physical, and biological processes aids the development of quantitative structure-biodegradation relationships for aerobic wastewater treatment. *Science of the Total Environment*, **2020**, 708, 133863	10.2	14

146	Emerging investigator series: the dynamics of particle size distributions need to be accounted for in bioavailability modelling of nanoparticles. *Environmental Science: Nano*, **2018**, 5, 2473-2481	7.1	14
145	A Method to Assess the Relevance of Nanomaterial Dissolution During Reactivity Testing. *Materials*, **2020**, 13,	3.5	13
144	Investigating short-term exposure to electromagnetic fields on reproductive capacity of invertebrates in the field situation. *Electromagnetic Biology and Medicine*, **2014**, 33, 21-8	2.2	13
143	Quantitative structure-property relationship study on reductive dehalogenation of selected halogenated aliphatic hydrocarbons in sediment slurries. *Chemosphere*, **2001**, 44, 1557-63	8.4	13
142	Modeling reductive dehalogenation with quantum chemically derived descriptors. *SAR and QSAR in Environmental Research*, **1995**, 4, 237-52	3.5	13
141	Simulated sunlight-induced inactivation of tetracycline resistant bacteria and effects of dissolved organic matter. *Water Research*, **2020**, 185, 116241	12.5	13
140	Compositional alterations in soil bacterial communities exposed to TiO nanoparticles are not reflected in functional impacts. *Environmental Research*, **2019**, 178, 108713	7.9	12
139	The cation competition and electrostatic theory are equally valid in quantifying the toxicity of trivalent rare earth ions (Y and Ce) to Triticum aestivum. *Environmental Pollution*, **2019**, 250, 456-463	9.3	12
138	Theoretical investigations on C60 -ionic liquid interactions and their impacts on C60 dispersion behavior. *Environmental Toxicology and Chemistry*, **2014**, 33, 1802-8	3.8	12
137	Effect of cation competition on cadmium uptake from solution by the earthworm Eisenia fetida. *Environmental Toxicology and Chemistry*, **2009**, 28, 1732-8	3.8	12
136	The use of quantitative structure-activity relationships for predicting rates of environmental hydrolysis processes. *Pure and Applied Chemistry*, **1991**, 63, 1667-1676	2.1	12
135	The fate and toxicity of Pb-based perovskite nanoparticles on soil bacterial community: Impacts of pH, humic acid, and divalent cations. *Chemosphere*, **2020**, 249, 126564	8.4	12
134	Use of quantum-chemical descriptors to analyse reaction rate constants between organic chemicals and superoxide/hydroperoxyl (O/HO). *Free Radical Research*, **2018**, 52, 1118-1131	4	12
133	Aqueous-phase photooxygenation of enes, amines, sulfides and polycyclic aromatics by singlet (a1g) oxygen: prediction of rate constants using orbital energies, substituent factors and quantitative structure property relationships. *Environmental Chemistry*, **2017**, 14, 442	3.2	11
132	A Novel Experimental and Modelling Strategy for Nanoparticle Toxicity Testing Enabling the Use of Small Quantities. *International Journal of Environmental Research and Public Health*, **2017**, 14,	4.6	11
131	Uncertainty of water type-specific hazardous copper concentrations derived with biotic ligand models. *Environmental Toxicology and Chemistry*, **2008**, 27, 2311-9	3.8	11
130	Accumulation of heavy metals by enchytraeids and earthworms in a floodplain. *European Journal of Soil Biology*, **2006**, 42, S117-S126	2.9	11
129	Do the joint effects of size, shape and ecocorona influence the attachment and physical eco(cyto)toxicity of nanoparticles to algae?. *Nanotoxicology*, **2020**, 14, 310-325	5.3	11

128	Oral bioaccessibility of silver nanoparticles and ions in natural soils: Importance of soil properties. *Environmental Pollution*, **2018**, 243, 364-373	9.3	11
127	Trophic transfer of Cd from duckweed (Lemna minor L.) to tilapia (Oreochromis mossambicus). *Environmental Toxicology and Chemistry*, **2018**, 37, 1367-1377	3.8	10
126	Read-across estimates of aquatic toxicity for selected fragrances. *ATLA Alternatives To Laboratory Animals*, **2013**, 41, 77-90	2.1	10
125	Variability in fish bioconcentration factors: Influences of study design and consequences for regulation. *Chemosphere*, **2020**, 239, 124731	8.4	10
124	Development of a quantitative structure-activity relationship model for mechanistic interpretation and quantum yield prediction of singlet oxygen generation from dissolved organic matter. *Science of the Total Environment*, **2020**, 712, 136450	10.2	9
123	Dose metrics assessment for differently shaped and sized metal-based nanoparticles. *Environmental Toxicology and Chemistry*, **2016**, 35, 2466-2473	3.8	9
122	Interaction of zero valent copper nanoparticles with algal cells under simulated natural conditions: Particle dissolution kinetics, uptake and heteroaggregation. *Science of the Total Environment*, **2019**, 689, 133-140	10.2	9
121	Time-gated luminescence imaging of singlet oxygen photoinduced by fluoroquinolones and functionalized graphenes in Daphnia magna. *Aquatic Toxicology*, **2017**, 191, 105-112	5.1	9
120	Arguments for considering uncertainty in QSAR predictions in hazard and risk assessments. *ATLA Alternatives To Laboratory Animals*, **2013**, 41, 91-110	2.1	9
119	Kinetics, products, mechanisms and QSARs for the hydrolytic transformation of aromatic nitriles in anaerobic sediment slurries. *Environmental Toxicology and Chemistry*, **1993**, 12, 1149-1161	3.8	9
118	Quantitative tracing of uptake and transport of submicrometre plastics in crop plants using lanthanide chelates as a dual-functional tracer.. *Nature Nanotechnology*, **2022**,	28.7	9
117	The promoted dissolution of copper oxide nanoparticles by dissolved humic acid: Copper complexation over particle dispersion. *Chemosphere*, **2020**, 245, 125612	8.4	9
116	An across-species comparison of the sensitivity of different organisms to Pb-based perovskites used in solar cells. *Science of the Total Environment*, **2020**, 708, 135134	10.2	9
115	Particle number-based trophic transfer of gold nanomaterials in an aquatic food chain. *Nature Communications*, **2021**, 12, 899	17.4	9
114	Earthworms and Their Use in Eco(toxico)logical Modeling. *Emerging Topics in Ecotoxicology*, **2009**, 177-204		9
113	Hydrophobic Organic Pollutants in Soils and Dusts at Electronic Waste Recycling Sites: Occurrence and Possible Impacts of Polybrominated Diphenyl Ethers. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	8
112	Colonizing microbiota protect zebrafish larvae against silver nanoparticle toxicity. *Nanotoxicology*, **2020**, 14, 725-739	5.3	8
111	The way forward for risk assessment of nanomaterials in solid media. *Environmental Pollution*, **2016**, 218, 1363-1364	9.3	8

110	Prioritisation of polybrominated diphenyl ethers (PBDEs) by using the QSPR-THESAURUS web tool. *ATLA Alternatives To Laboratory Animals*, **2013**, 41, 127-35	2.1	8
109	Delineating ion-ion interactions by electrostatic modeling for predicting rhizotoxicity of metal mixtures to lettuce Lactuca sativa. *Environmental Toxicology and Chemistry*, **2014**, 33, 1988-95	3.8	8
108	Modeling toxicity of mixtures of perfluorooctanoic acid and triazoles (triadimefon and paclobutrazol) to the benthic cladoceran Chydorus sphaericus. *Environmental Science & Technology*, **2013**, 47, 6621-9	10.3	8
107	The reference-matrix concept applied to chemical testing of soils. *TrAC - Trends in Analytical Chemistry*, **2009**, 28, 51-63	14.6	8
106	Short-term ecological risks of depositing contaminated sediment on arable soil. *Ecotoxicology and Environmental Safety*, **2005**, 60, 1-14	7	8
105	Multivariate QSAR modelling of the rate of reductive dehalogenation of haloalkanes. *Journal of Chemometrics*, **1996**, 10, 483-492	1.6	8
104	Are Technological Developments Improving the Environmental Sustainability of Photovoltaic Electricity?. *Energy Technology*, **2020**, 8, 1901064	3.5	8
103	Quantifying the relative contribution of particulate versus dissolved silver to toxicity and uptake kinetics of silver nanowires in lettuce: impact of size and coating. *Nanotoxicology*, **2020**, 14, 1399-1414	5.3	8
102	Silicon nanoparticles: characterization and toxicity studies. *Environmental Science: Nano*, **2018**, 5, 2945-2951	7.1	8
101	Modelling toxicity of metal mixtures: A generalisation of new advanced methods, considering potential application to terrestrial ecosystems. *Critical Reviews in Environmental Science and Technology*, **2017**, 47, 409-454	11.1	7
100	A tiered approach for environmental impact assessment of chemicals and their alternatives within the context of socio-economic analyses. *Journal of Cleaner Production*, **2015**, 108, 955-964	10.3	7
99	Effective Modeling Framework for Quantifying the Potential Impacts of Coexisting Anions on the Toxicity of Arsenate, Selenite, and Vanadate. *Environmental Science & Technology*, **2020**, 54, 2379-2388	10.3	7
98	Trait modality distribution of aquatic macrofauna communities as explained by pesticides and water chemistry. *Ecotoxicology*, **2016**, 25, 1170-80	2.9	7
97	Substance-related environmental monitoring strategies regarding soil, groundwater and surface water - an overview. *Environmental Science and Pollution Research*, **2013**, 20, 2810-27	5.1	7
96	Influence of bacterial extracellular polymeric substances on the sorption of Zn on γ-alumina: A combination of FTIR and EXAFS studies. *Environmental Pollution*, **2017**, 220, 997-1004	9.3	7
95	The QSPR-THESAURUS: the online platform of the CADASTER project. *ATLA Alternatives To Laboratory Animals*, **2014**, 42, 13-24	2.1	7
94	Comparative study of biodegradability prediction of chemicals using decision trees, functional trees, and logistic regression. *Environmental Toxicology and Chemistry*, **2014**, 33, 2688-93	3.8	7
93	Calcium and magnesium enhance arsenate rhizotoxicity and uptake in Triticum aestivum. *Environmental Toxicology and Chemistry*, **2011**, 30, 1642-8	3.8	7

92	The use of PLS algorithms and quantum chemical parameters derived from PM3 hamiltonian in QSPR studies on direct photolysis quantum yields of substituted aromatic halides. *Chemosphere*, **2000**, 40, 1319-26	8.4	7
91	QSARs for predicting biotic and abiotic reductive transformation rate constants of halogenated hydrocarbons in anoxic sediment systems. *Science of the Total Environment*, **1991**, 109-110, 283-300	10.2	7
90	The effects of substituents and solvent polarity oh photochemical [1,3] sigmatropic shifts. Experimental evidence in favour of the occurrence of sudden. *Tetrahedron*, **1988**, 44, 4927-4940	2.4	7
89	How can we justify grouping of nanoforms for hazard assessment? Concepts and tools to quantify similarity.. *NanoImpact*, **2022**, 25, 100366	5.6	7
88	Bioavalibility in Soils **2011**, 721-746		7
87	Effect of UV/chlorine treatment on photophysical and photochemical properties of dissolved organic matter. *Water Research*, **2021**, 192, 116857	12.5	7
86	A Dose Metrics Perspective on the Association of Gold Nanomaterials with Algal Cells. *Environmental Science and Technology Letters*, **2019**, 6, 732-738	11	7
85	Development of a nano-QSPR model to predict band gaps of spherical metal oxide nanoparticles.. *RSC Advances*, **2019**, 9, 8426-8434	3.7	6
84	Oxidative stress actuated by cellulose nanocrystals and nanofibrils in aquatic organisms of different trophic levels. *NanoImpact*, **2020**, 17, 100211	5.6	6
83	The shuttling effects and associated mechanisms of different types of iron oxide nanoparticles for Cu(II) reduction by Geobacter sulfurreducens. *Journal of Hazardous Materials*, **2020**, 393, 122390	12.8	6
82	The application of QSAR approaches to nanoparticles. *ATLA Alternatives To Laboratory Animals*, **2014**, 42, 43-50	2.1	6
81	Predicting reductive transformation rates of halogenated aliphatic compounds using different QSAR approaches. *Environmental Science and Pollution Research*, **1997**, 4, 47-54	5.1	6
80	Soil type-specific environmental quality standards for zinc in Dutch soil. *Integrated Environmental Assessment and Management*, **2005**, 1, 252-8	2.5	6
79	On the use of backpropagation neural networks in modeling environmental degradation. *SAR and QSAR in Environmental Research*, **1995**, 4, 219-35	3.5	6
78	A non-Woodward and Hoffmann reaction path for photochemical sigmatropic rearrangements. *Computational and Theoretical Chemistry*, **1985**, 119, 367-378		6
77	Parental and trophic transfer of nanoscale plastic debris in an assembled aquatic food chain as a function of particle size. *Environmental Pollution*, **2021**, 269, 116066	9.3	6
76	Application of low dosage of copper oxide and zinc oxide nanoparticles boosts bacterial and fungal communities in soil. *Science of the Total Environment*, **2021**, 757, 143807	10.2	6
75	Multiscale Coupling Strategy for Nano Ecotoxicology Prediction. *Environmental Science & Technology*, **2018**, 52, 7598-7600	10.3	6

74	Dissipative particle dynamic simulation and experimental assessment of the impacts of humic substances on aqueous aggregation and dispersion of engineered nanoparticles. *Environmental Toxicology and Chemistry*, **2018**, 37, 1024-1031	3.8	5
73	Experimental determinations of soil copper toxicity to lettuce (Lactuca sativa) growth in highly different copper spiked and aged soils. *Environmental Science and Pollution Research*, **2015**, 22, 5283-92	5.1	5
72	Predictive models for estimating the vapor pressure of poly- and perfluorinated compounds at different temperatures. *Atmospheric Environment*, **2013**, 75, 147-152	5.3	5
71	Quantumchemical calculations on the photochemistry of germacrene and germacrol. The exclusive role of the exocyclic double bond isomerization. *Tetrahedron*, **1988**, 44, 2339-2350	2.4	5
70	. *Environmental Toxicology and Chemistry*, **2001**, 20, 2681	3.8	5
69	Environmental impacts of III–V/silicon photovoltaics: life cycle assessment and guidance for sustainable manufacturing. *Energy and Environmental Science*, **2020**, 13, 4280-4290	35.4	5
68	DFT/TDDFT insights into effects of dissociation and metal complexation on photochemical behavior of enrofloxacin in water. *Environmental Science and Pollution Research*, **2018**, 25, 30609-30616	5.1	5
67	Graphene nanoplatelets and reduced graphene oxide elevate the microalgal cytotoxicity of nano-zirconium oxide. *Chemosphere*, **2021**, 276, 130015	8.4	5
66	Systematic selection of a dose metric for metal-based nanoparticles. *NanoImpact*, **2019**, 13, 70-75	5.6	4
65	Compositional and predicted functional dynamics of soil bacterial community in response to single pulse and repeated dosing of titanium dioxide nanoparticles. *NanoImpact*, **2019**, 16, 100187	5.6	4
64	Modeling cadmium and nickel toxicity to earthworms with the free ion approach. *Environmental Toxicology and Chemistry*, **2014**, 33, 438-46	3.8	4
63	The development of quantitative structure activity relationships for the direct photolysis of substituted haloaromatics in aqueous environments. *Science of the Total Environment*, **1993**, 134, 1397-1408	10.2	4
62	Prediction of octanol-air partition coefficients for PCBs at different ambient temperatures based on the solvation free energy and the dimer ratio. *Chemosphere*, **2020**, 242, 125246	8.4	4
61	Interaction between a nano-formulation of atrazine and rhizosphere bacterial communities: atrazine degradation and bacterial community alterations. *Environmental Science: Nano*, **2020**, 7, 3372-3384	7.1	4
60	Effects of lomefloxacin on survival, growth and reproduction of Daphnia magna under simulated sunlight radiation. *Ecotoxicology and Environmental Safety*, **2018**, 166, 63-70	7	4
59	Probing nano-QSAR to assess the interactions between carbon nanoparticles and a SARS-CoV-2 RNA fragment. *Ecotoxicology and Environmental Safety*, **2021**, 219, 112357	7	4
58	Development of a Quasi-QSAR Model for Prediction of the Immobilization Response of Daphnia magna Exposed to Metal-Based Nanomaterials.. *Environmental Toxicology and Chemistry*, **2022**,	3.8	4
57	Toxicity models of metal mixtures established on the basis of "additivity" and "interactions" *Frontiers of Environmental Science and Engineering*, **2017**, 11, 1	5.8	3

56	Coupling mixture reference models with DGT-perceived metal flux for deciphering the nonadditive effects of rare earth mixtures to wheat in soils. *Environmental Research*, **2020**, 188, 109736	7.9	3
55	Implementation of Bioavailability in Prospective and Retrospective Risk Assessment of Chemicals in Soils and Sediments. *Handbook of Environmental Chemistry*, **2020**, 391-422	0.8	3
54	Experimental and theoretical studies in the EU FP7 Marie Curie Initial Training Network Project, Environmental ChemOinformatics (ECO). *ATLA Alternatives To Laboratory Animals*, **2014**, 42, 7-11	2.1	3
53	Initial assessment of the hazards and risks of new chemicals to man and the environment. *Science of the Total Environment*, **1993**, 134, 1597-1615	10.2	3
52	An experimental study on the mechanism and stereochemistry of a photochemical [1,3]-oh shift. A non-woodward and hoffmann reaction path for photochemic. *Tetrahedron*, **1988**, 44, 4821-4836	2.4	3
51	. *Environmental Toxicology and Chemistry*, **2003**, 22, 767	3.8	3
50	Bioavailability and phytotoxicity of rare earth metals to Triticum aestivum under various exposure scenarios. *Ecotoxicology and Environmental Safety*, **2020**, 205, 111346	7	3
49	Ex ante life cycle assessment of GaAs/Si nanowire‒based tandem solar cells: a benchmark for industrialization. *International Journal of Life Cycle Assessment*, **2020**, 25, 1767-1782	4.6	3
48	Adsorption of titanium dioxide nanoparticles onto zebrafish eggs affects colonizing microbiota. *Aquatic Toxicology*, **2021**, 232, 105744	5.1	3
47	Compositional and functional responses of bacterial community to titanium dioxide nanoparticles varied with soil heterogeneity and exposure duration. *Science of the Total Environment*, **2021**, 773, 144895	10.2	3
46	Identification of emerging safety and sustainability issues of advanced materials: Proposal for a systematic approach.. *NanoImpact*, **2021**, 23, 100342	5.6	3
45	Transition-state rate theory sheds light on ‒black-box‒ biodegradation algorithms. *Green Chemistry*, **2020**, 22, 3558-3571	10	3
44	Method for extraction of nanoscale plastic debris from soil. *Analytical Methods*, **2021**, 13, 1576-1583	3.2	3
43	Effects of extracellular polymeric substances on silver nanoparticle bioaccumulation and toxicity to Triticum aestivum L. *Chemosphere*, **2021**, 280, 130863	8.4	3
42	The analytical quest for sub-micron plastics in biological matrices. *Nano Today*, **2021**, 41, 101296	17.9	3
41	Engineered nanoselenium supplemented fish diet: toxicity comparison with ionic selenium and stability against particle dissolution, aggregation and release. *Environmental Science: Nano*, **2020**, 7, 2325-2336	7.1	2
40	Exemplification of the implementation of alternatives to experimental testing in chemical risk assessment - case studies from the CADASTER Project. Preface. *ATLA Alternatives To Laboratory Animals*, **2013**, 41, 13-7	2.1	2
39	Smart nanotoxicity testing for biodiversity conservation. *Environmental Science & Technology*, **2011**, 45, 6229-30	10.3	2

38	Potential Application of Machine-Learning-Based Quantum Chemical Methods in Environmental Chemistry.. *Environmental Science & Technology*, **2022**,	10.3	2
37	Refinement of the selection of physicochemical properties for grouping and read-across of nanoforms.. *NanoImpact*, **2022**, 25, 100375	5.6	2
36	Thermochemical unification of molecular descriptors to predict radical hydrogen abstraction with low computational cost. *Physical Chemistry Chemical Physics*, **2020**, 22, 23215-23225	3.6	2
35	Ordered weighted average based grouping of nanomaterials with Arsinh and dose response similarity models.. *NanoImpact*, **2022**, 25, 100370	5.6	2
34	Environmental Risk Assessment (ERA) of the application of nanoscience and nanotechnology in the food and feed chain. *EFSA Supporting Publications*, **2020**, 17, 1948E	1.1	2
33	The stochastic association of nanoparticles with algae at the cellular level: Effects of NOM, particle size and particle shape. *Ecotoxicology and Environmental Safety*, **2021**, 218, 112280	7	2
32	Dynamic release and transformation of metallic copper colloids in flooded paddy soil: Role of soil reducible sulfate and temperature. *Journal of Hazardous Materials*, **2021**, 402, 123462	12.8	2
31	Prediction of the Joint Toxicity of Multiple Engineered Nanoparticles: The Integration of Classic Mixture Models and Methods. *Chemical Research in Toxicology*, **2021**, 34, 176-178	4	2
30	Effects of humic substances on the aqueous stability of cerium dioxide nanoparticles and their toxicity to aquatic organisms. *Science of the Total Environment*, **2021**, 781, 146583	10.2	2
29	The dispersion, stability, and resuspension of C in environmental water matrices. *Environmental Science and Pollution Research*, **2019**, 26, 25538-25549	5.1	1
28	Chapter 9 Fate of contaminants in soil. *Developments in Soil Science*, **2004**, 29, 245-280	1.3	1
27	Feeding behaviour of Eisenia andrei in two different field contaminated soils. *Pedobiologia*, **2003**, 47, 670-675	1.7	1
26	Bayesian based similarity assessment of nanomaterials to inform grouping.. *NanoImpact*, **2022**, 25, 100389	5.6	1
25	The Differences between the Effects of a Nanoformulation and a Conventional Form of Atrazine to Lettuce: Physiological Responses, Defense Mechanisms, and Nutrient Displacement. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 12527-12540	5.7	1
24	Effects of natural organic matter on the joint toxicity and accumulation of Cu nanoparticles and ZnO nanoparticles in Daphnia magna. *Environmental Pollution*, **2022**, 292, 118413	9.3	1
23	Development of a toxicokinetic-toxicodynamic model simulating chronic copper toxicity to the Zebra mussel based on subcellular fractionation. *Aquatic Toxicology*, **2021**, 241, 106015	5.1	1
22	A DFT/TDDFT study on the mechanisms of direct and indirect photodegradation of tetrabromobisphenol A in water. *Chemosphere*, **2019**, 220, 40-46	8.4	1
21	Particle-Specific Toxicity of Copper Nanoparticles to Soybean (Glycine max L.): Effects of Nanoparticle Concentration and Natural Organic Matter. *Environmental Toxicology and Chemistry*, **2021**, 40, 2825-2835	3.8	1

20	Delineation of the exposure-response causality chain of chronic copper toxicity to the zebra mussel, Dreissena polymorpha, with a TK-TD model based on concepts of biotic ligand model and subcellular metal partitioning model. *Chemosphere*, **2022**, 286, 131930	8.4	1
19	Immunotoxic effects of metal-based nanoparticles in fish and bivalves.. *Nanotoxicology*, **2022**, 1-26	5.3	1
18	Machine learning predicts ecological risks of nanoparticles to soil microbial communities. *Environmental Pollution*, **2022**, 119528	9.3	1
17	Copper accumulation and physiological markers of soybean (Glycine max) grown in agricultural soil amended with copper nanoparticles.. *Ecotoxicology and Environmental Safety*, **2021**, 229, 113088	7	0
16	Taxon-toxicity study of fish to typical transition metals: Most sensitive species are edible fish. *Environmental Pollution*, **2021**, 284, 117154	9.3	0
15	An Overview of Methodologies for Tracing and Quantifying Microplastics in Environmental Samples **2022**, 21-46		0
14	Emerging investigator series: Perspectives on toxicokinetics of nanoscale plastic debris in organisms. *Environmental Science: Nano*,	7.1	0
13	Similarity assessment of metallic nanoparticles within a risk assessment framework: A case study on metallic nanoparticles and lettuce.. *NanoImpact*, **2022**, 26, 100397	5.6	0
12	Aggregation, solubility and cadmium-adsorption capacity of CuO nanoparticles in aquatic environments: Effects of pH, natural organic matter and component addition sequence.. *Journal of Environmental Management*, **2022**, 310, 114770	7.9	0
11	Applicability of nanomaterial-specific guidelines within long-term Daphnia magna toxicity assays: A case study on multigenerational effects of nTiO and nCeO exposure in the presence of artificial daylight.. *Regulatory Toxicology and Pharmacology*, **2022**, 131, 105156	3.4	0
10	UV/ozone induced physicochemical transformations of polystyrene nanoparticles and their aggregation tendency and kinetics with natural organic matter in aqueous systems.. *Journal of Hazardous Materials*, **2022**, 433, 128790	12.8	0
9	Microbiota-dependent TLR2 signaling reduces silver nanoparticle toxicity to zebrafish larvae.. *Ecotoxicology and Environmental Safety*, **2022**, 237, 113522	7	0
8	Best Paper Award. *Environmental Toxicology and Chemistry*, **2018**, 37, 1783-1785	3.8	
7	44th IUPAC Congress: Environmental Chemistry. *Pure and Applied Chemistry*, **2014**, 86, 1083-1084	2.1	
6	A universal free energy relationship for both hard and soft radical addition in water. *Journal of Physical Organic Chemistry*,e4317	2.1	
5	Improved science-based transformation pathways for the development of safe and sustainable plastics.. *Environment International*, **2022**, 160, 107055	12.9	
4	383 Incidence and injury patterns among electronic waste workers in informal sector in Ibadan, Nigeria. *Injury Prevention*, **2016**, 22, A140.2-A140	3.2	
3	The Relative Contributions of Complexation, Dispersing, and Adsorption of Tannic Acid to the Dissolution of Copper Oxide Nanoparticles. *Water, Air, and Soil Pollution*, **2021**, 232, 1	2.6	

2	Stoichiometric ratios for biotics and xenobiotics capture effective metabolic coupling to re(de)fine biodegradation.. *Water Research*, **2022**, 217, 118333	12.5
1	Photochemical degradation pathways of cell-free antibiotic resistance genes in water under simulated sunlight irradiation: Experimental and quantum chemical studies.. *Chemosphere*, **2022**, 302, 134879	8.4