

David J Spurgeon

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

7,448
citations

46
h-index

85
g-index

126
ext. papers

8,759
ext. citations

6.8
avg, IF

6.04
L-index

#	Paper	IF	Citations
123	Long-term cattle grazing shifts the ecological state of forest soils.. <i>Ecology and Evolution</i> , 2022 , 12, e87868	6.8	0
122	Accumulation of nylon microplastics and polybrominated diphenyl ethers and effects on gut microbial community of <i>Chironomus sancticaroli</i> .. <i>Science of the Total Environment</i> , 2022 , 155089	10.2	0
121	Worst-case ranking of organic chemicals detected in groundwaters and surface waters in England.. <i>Science of the Total Environment</i> , 2022 , 155101	10.2	1
120	Impacts of Life-Time Exposure of Arsenic, Cadmium and Fluoranthene on the Earthworms <i>L. rubellus</i> Global DNA Methylation as Detected by msAFLP. <i>Genes</i> , 2022 , 13, 770	4.2	0
119	Proportional contributions to organic chemical mixture effects in groundwater and surface water. <i>Water Research</i> , 2022 , 220, 118641	12.5	
118	What Is on the Outside Matters-Surface Charge and Dissolve Organic Matter Association Affect the Toxicity and Physiological Mode of Action of Polystyrene Nanoplastics to. <i>Environmental Science & Technology</i> , 2021 , 55, 6065-6075	10.3	9
117	Bridging international approaches on nanoEHS. <i>Nature Nanotechnology</i> , 2021 , 16, 608-611	28.7	3
116	Chemicals with increasingly complex modes of action result in greater variation in sensitivity between earthworm species. <i>Environmental Pollution</i> , 2021 , 272, 115914	9.3	5
115	Mechanistic Effect Modeling of Earthworms in the Context of Pesticide Risk Assessment: Synthesis of the FORESEE Workshop. <i>Integrated Environmental Assessment and Management</i> , 2021 , 17, 352-363	2.5	6
114	Predicting Mixture Effects over Time with Toxicokinetic-Toxicodynamic Models (GUTS): Assumptions, Experimental Testing, and Predictive Power. <i>Environmental Science & Technology</i> , 2021 , 55, 2430-2439	10.3	4
113	Off-Target Stoichiometric Binding Identified from Toxicogenomics Explains Why Some Species Are More Sensitive than Others to a Widely Used Neonicotinoid. <i>Environmental Science & Technology</i> , 2021 , 55, 3059-3069	10.3	5
112	Plasticisers in the terrestrial environment: sources, occurrence and fate. <i>Environmental Chemistry</i> , 2021 , 18, 111	3.2	5
111	Addressing Nanomaterial Immunosafety by Evaluating Innate Immunity across Living Species. <i>Small</i> , 2020 , 16, e2000598	11	18
110	Nanomaterial Transformations in the Environment: Effects of Changing Exposure Forms on Bioaccumulation and Toxicity. <i>Small</i> , 2020 , 16, e2000618	11	19
109	Comparison of species sensitivity distribution modeling approaches for environmental risk assessment of nanomaterials - A case study for silver and titanium dioxide representative materials. <i>Aquatic Toxicology</i> , 2020 , 225, 105543	5.1	8
108	Toxicogenomics in a soil sentinel exposure to Zn nanoparticles and ions reveals the comparative role of toxicokinetic and toxicodynamic mechanisms. <i>Environmental Science: Nano</i> , 2020 , 7, 1464-1480	7.1	1
107	The gut barrier and the fate of engineered nanomaterials: a view from comparative physiology. <i>Environmental Science: Nano</i> , 2020 , 7, 1874-1898	7.1	18

106	Accumulation of polybrominated diphenyl ethers and microbiome response in the great pond snail <i>Lymnaea stagnalis</i> with exposure to nylon (polyamide) microplastics. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 188, 109882	7	23
105	Probing the immune responses to nanoparticles across environmental species. A perspective of the EU Horizon 2020 project PANDORA. <i>Environmental Science: Nano</i> , 2020 , 7, 3216-3232	7.1	9
104	The Effects of In Vivo Exposure to Copper Oxide Nanoparticles on the Gut Microbiome, Host Immunity, and Susceptibility to a Bacterial Infection in Earthworms. <i>Nanomaterials</i> , 2020 , 10,	5.4	10
103	Species Sensitivity to Toxic Substances: Evolution, Ecology and Applications. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	16
102	Chemical transformation and surface functionalisation affect the potential to group nanoparticles for risk assessment. <i>Environmental Science: Nano</i> , 2020 , 7, 3100-3107	7.1	2
101	Key principles and operational practices for improved nanotechnology environmental exposure assessment. <i>Nature Nanotechnology</i> , 2020 , 15, 731-742	28.7	34
100	Higher than Γ or lower than Γ Evidence for the validity of the extrapolation of laboratory toxicity test results to predict the effects of chemicals and ionising radiation in the field. <i>Journal of Environmental Radioactivity</i> , 2020 , 211, 105757	2.4	1
99	Genomic mutations after multigenerational exposure of <i>Caenorhabditis elegans</i> to pristine and sulfidized silver nanoparticles. <i>Environmental Pollution</i> , 2019 , 254, 113078	9.3	21
98	Microplastic particles reduce reproduction in the terrestrial worm <i>Enchytraeus crypticus</i> in a soil exposure. <i>Environmental Pollution</i> , 2019 , 255, 113174	9.3	72
97	Evaluating environmental risk assessment models for nanomaterials according to requirements along the product innovation Stage-Gate process. <i>Environmental Science: Nano</i> , 2019 , 6, 505-518	7.1	20
96	Current evidence for a role of epigenetic mechanisms in response to ionizing radiation in an ecotoxicological context. <i>Environmental Pollution</i> , 2019 , 251, 469-483	9.3	22
95	Strategies for robust and accurate experimental approaches to quantify nanomaterial bioaccumulation across a broad range of organisms. <i>Environmental Science: Nano</i> , 2019 , 6,	7.1	26
94	Genetic, epigenetic and microbiome characterisation of an earthworm species (<i>Octolasion lacteum</i>) along a radiation exposure gradient at Chernobyl. <i>Environmental Pollution</i> , 2019 , 255, 113238	9.3	10
93	Investigating combined toxicity of binary mixtures in bees: Meta-analysis of laboratory tests, modelling, mechanistic basis and implications for risk assessment. <i>Environment International</i> , 2019 , 133, 105256	12.9	33
92	Influence of soil porewater properties on the fate and toxicity of silver nanoparticles to <i>Caenorhabditis elegans</i> . <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 2609-2618	3.8	12
91	Toward sustainable environmental quality: Priority research questions for Europe. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 2281-2295	3.8	68
90	Phenotypic responses in <i>Caenorhabditis elegans</i> following chronic low-level exposures to inorganic and organic compounds. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 920-930	3.8	1
89	Acute toxicity of organic pesticides to <i>Daphnia magna</i> is unchanged by co-exposure to polystyrene microplastics. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 166, 26-34	7	47

88	Microplastics in freshwater and terrestrial environments: Evaluating the current understanding to identify the knowledge gaps and future research priorities. <i>Science of the Total Environment</i> , 2017 , 586, 127-141	10.2	1226
87	Genetic variation in populations of the earthworm, <i>Lumbricus rubellus</i> , across contaminated mine sites. <i>BMC Genetics</i> , 2017 , 18, 97	2.6	20
86	Comparative toxicity of pesticides and environmental contaminants in bees: Are honey bees a useful proxy for wild bee species?. <i>Science of the Total Environment</i> , 2017 , 578, 357-365	10.2	71
85	Large microplastic particles in sediments of tributaries of the River Thames, UK - Abundance, sources and methods for effective quantification. <i>Marine Pollution Bulletin</i> , 2017 , 114, 218-226	6.7	420
84	Comparing bee species responses to chemical mixtures: Common response patterns?. <i>PLoS ONE</i> , 2017 , 12, e0176289	3.7	38
83	Soil pH effects on the interactions between dissolved zinc, non-nano- and nano-ZnO with soil bacterial communities. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 4120-8	5.1	63
82	Multigenerational exposure to silver ions and silver nanoparticles reveals heightened sensitivity and epigenetic memory in <i>Caenorhabditis elegans</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283,	4.4	45
81	Earthworm Uptake Routes and Rates of Ionic Zn and ZnO Nanoparticles at Realistic Concentrations, Traced Using Stable Isotope Labeling. <i>Environmental Science & Technology</i> , 2016 , 50, 412-9	10.3	46
80	Variable Temperature Stress in the Nematode <i>Caenorhabditis elegans</i> (Maupas) and Its Implications for Sensitivity to an Additional Chemical Stressor. <i>PLoS ONE</i> , 2016 , 11, e0140277	3.7	16
79	EFSA Scientific Colloquium 22 [Epigenetics and Risk Assessment: Where do we stand?. <i>EFSA Supporting Publications</i> , 2016 , 13, 1129E	1.1	1
78	Ecological drivers influence the distributions of two cryptic lineages in an earthworm morphospecies. <i>Applied Soil Ecology</i> , 2016 , 108, 8-15	5	9
77	Different routes, same pathways: Molecular mechanisms under silver ion and nanoparticle exposures in the soil sentinel <i>Eisenia fetida</i> . <i>Environmental Pollution</i> , 2015 , 205, 385-93	9.3	52
76	Unique metabolites protect earthworms against plant polyphenols. <i>Nature Communications</i> , 2015 , 6, 7869	17.4	53
75	Uptake routes and toxicokinetics of silver nanoparticles and silver ions in the earthworm <i>Lumbricus rubellus</i> . <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 2263-70	3.8	43
74	Short-term soil bioassays may not reveal the full toxicity potential for nanomaterials; bioavailability and toxicity of silver ions (AgNO ₃) and silver nanoparticles to earthworm <i>Eisenia fetida</i> in long-term aged soils. <i>Environmental Pollution</i> , 2015 , 203, 191-198	9.3	77
73	Hormesis depends upon the life-stage and duration of exposure: Examples for a pesticide and a nanomaterial. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 120, 117-23	7	31
72	Analytical approaches to support current understanding of exposure, uptake and distributions of engineered nanoparticles by aquatic and terrestrial organisms. <i>Ecotoxicology</i> , 2015 , 24, 239-61	2.9	42
71	Metalloproteins and phytochelatin synthase may confer protection against zinc oxide nanoparticle induced toxicity in <i>Caenorhabditis elegans</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2014 , 160, 75-85	3.2	29

70	Toxicity of cerium oxide nanoparticles to the earthworm <i>Eisenia fetida</i> : subtle effects. <i>Environmental Chemistry</i> , 2014 , 11, 268	3.2	42
69	Identifying biochemical phenotypic differences between cryptic species. <i>Biology Letters</i> , 2014 , 10,	3.6	12
68	Nanopesticides: guiding principles for regulatory evaluation of environmental risks. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 4227-40	5.7	210
67	The importance of experimental time when assessing the effect of temperature on toxicity in poikilotherms. <i>Environmental Toxicology and Chemistry</i> , 2014 , 33, 1363-71	3.8	6
66	Soil pH effects on the comparative toxicity of dissolved zinc, non-nano and nano ZnO to the earthworm <i>Eisenia fetida</i> . <i>Nanotoxicology</i> , 2014 , 8, 559-72	5.3	94
65	Modelling the effects of copper on soil organisms and processes using the free ion approach: towards a multi-species toxicity model. <i>Environmental Pollution</i> , 2013 , 178, 244-53	9.3	22
64	Land-use and land-management change: relationships with earthworm and fungi communities and soil structural properties. <i>BMC Ecology</i> , 2013 , 13, 46	2.7	86
63	Metabolomics and its use in ecology. <i>Austral Ecology</i> , 2013 , 38, 713-720	1.5	53
62	A new medium for <i>Caenorhabditis elegans</i> toxicology and nanotoxicology studies designed to better reflect natural soil solution conditions. <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 1711-7	3.8	31
61	DNA sequence variation and methylation in an arsenic tolerant earthworm population. <i>Soil Biology and Biochemistry</i> , 2013 , 57, 524-532	7.5	58
60	Low temperatures enhance the toxicity of copper and cadmium to <i>Enchytraeus crypticus</i> through different mechanisms. <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 2274-83	3.8	20
59	Potential new method of mixture effects testing using metabolomics and <i>Caenorhabditis elegans</i> . <i>Journal of Proteome Research</i> , 2012 , 11, 1446-53	5.6	39
58	Toxicogenomic responses of the model organism <i>Caenorhabditis elegans</i> to gold nanoparticles. <i>Environmental Science & Technology</i> , 2012 , 46, 4115-24	10.3	83
57	Metabolic profiling detects early effects of environmental and lifestyle exposure to cadmium in a human population. <i>BMC Medicine</i> , 2012 , 10, 61	11.4	98
56	How does growth temperature affect cadmium toxicity measured on different life history traits in the soil nematode <i>Caenorhabditis elegans</i> ?. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 787-93	3.8	17
55	Modelling the joint effects of a metal and a pesticide on reproduction and toxicokinetics in Lumbricid earthworms. <i>Environment International</i> , 2011 , 37, 663-70	12.9	42
54	Comparative chronic toxicity of nanoparticulate and ionic zinc to the earthworm <i>Eisenia veneta</i> in a soil matrix. <i>Environment International</i> , 2011 , 37, 1111-7	12.9	80
53	Toxicokinetic studies reveal variability in earthworm pollutant handling. <i>Pedobiologia</i> , 2011 , 54, S217-S227		25

52	An assessment of the fate, behaviour and environmental risk associated with sunscreen TiO ₂ nanoparticles in UK field scenarios. <i>Science of the Total Environment</i> , 2011 , 409, 2503-10	10.2	126
51	Outdoor and indoor cadmium distributions near an abandoned smelting works and their relations to human exposure. <i>Environmental Pollution</i> , 2011 , 159, 3425-32	9.3	11
50	Application of physiologically based modelling and transcriptomics to probe the systems toxicology of aldicarb for <i>Caenorhabditis elegans</i> (Maupas 1900). <i>Ecotoxicology</i> , 2011 , 20, 397-408	2.9	22
49	A critical review of current methods in earthworm ecology: From individuals to populations. <i>European Journal of Soil Biology</i> , 2010 , 46, 67-73	2.9	75
48	Interactions between effects of environmental chemicals and natural stressors: a review. <i>Science of the Total Environment</i> , 2010 , 408, 3746-62	10.2	519
47	Three-phase metal kinetics in terrestrial invertebrates exposed to high metal concentrations. <i>Science of the Total Environment</i> , 2010 , 408, 3794-802	10.2	28
46	Systems toxicology approaches for understanding the joint effects of environmental chemical mixtures. <i>Science of the Total Environment</i> , 2010 , 408, 3725-34	10.2	170
45	Linking toxicant physiological mode of action with induced gene expression changes in <i>Caenorhabditis elegans</i> . <i>BMC Systems Biology</i> , 2010 , 4, 32	3.5	42
44	Similarity, independence, or interaction for binary mixture effects of nerve toxicants for the nematode <i>Caenorhabditis elegans</i> . <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 1182-91	3.8	38
43	Trace Metal Exposure and Effects on Soil-Dwelling Species and Their Communities 2010 , 155-174		1
42	Validation of metabolomics for toxic mechanism of action screening with the earthworm <i>Lumbricus rubellus</i> . <i>Metabolomics</i> , 2009 , 5, 72-83	4.7	46
41	Measurement and modeling of the toxicity of binary mixtures in the nematode <i>Caenorhabditis elegans</i> —a test of independent action. <i>Environmental Toxicology and Chemistry</i> , 2009 , 28, 97-104	3.8	47
40	Combined chemical (fluoranthene) and drought effects on <i>Lumbricus rubellus</i> demonstrate the applicability of the independent action model for multiple stressor assessment. <i>Environmental Toxicology and Chemistry</i> , 2009 , 28, 629-36	3.8	27
39	Measuring and modelling mixture toxicity of imidacloprid and thiacloprid on <i>Caenorhabditis elegans</i> and <i>Eisenia fetida</i> . <i>Ecotoxicology and Environmental Safety</i> , 2009 , 72, 71-79	7	84
38	Glutathione transferase (GST) as a candidate molecular-based biomarker for soil toxin exposure in the earthworm <i>Lumbricus rubellus</i> . <i>Environmental Pollution</i> , 2009 , 157, 2459-69	9.3	51
37	Transcriptome profiling of developmental and xenobiotic responses in a keystone soil animal, the oligochaete annelid <i>Lumbricus rubellus</i> . <i>BMC Genomics</i> , 2008 , 9, 266	4.5	90
36	Current research in soil invertebrate ecotoxicogenomics. <i>Advances in Experimental Biology</i> , 2008 , 2, 133-326		6
35	Geographical and pedological drivers of distribution and risks to soil fauna of seven metals (Cd, Cu, Cr, Ni, Pb, V and Zn) in British soils. <i>Environmental Pollution</i> , 2008 , 153, 273-83	9.3	56

34	A metabolomics based approach to assessing the toxicity of the polyaromatic hydrocarbon pyrene to the earthworm <i>Lumbricus rubellus</i> . <i>Chemosphere</i> , 2008 , 71, 601-9	8.4	109
33	'Systems toxicology' approach identifies coordinated metabolic responses to copper in a terrestrial non-model invertebrate, the earthworm <i>Lumbricus rubellus</i> . <i>BMC Biology</i> , 2008 , 6, 25	7.3	152
32	Effect of temperature and season on reproduction, neutral red retention and metallothionein responses of earthworms exposed to metals in field soils. <i>Environmental Pollution</i> , 2007 , 147, 83-93	9.3	22
31	Metabolic profile biomarkers of metal contamination in a sentinel terrestrial species are applicable across multiple sites. <i>Environmental Science & Technology</i> , 2007 , 41, 4458-64	10.3	93
30	Factors influencing the national distribution of polycyclic aromatic hydrocarbons and polychlorinated biphenyls in British soils. <i>Environmental Science & Technology</i> , 2006 , 40, 7629-35	10.3	94
29	Developing a critical load approach for national risk assessments of atmospheric metal deposition. <i>Environmental Toxicology and Chemistry</i> , 2006 , 25, 883-90	3.8	20
28	Effect of pH on metal speciation and resulting metal uptake and toxicity for earthworms. <i>Environmental Toxicology and Chemistry</i> , 2006 , 25, 788-96	3.8	66
27	Fractions affected and probabilistic risk assessment of Cu, Zn, Cd, and Pb in soils using the free ion approach. <i>Environmental Science & Technology</i> , 2005 , 39, 8533-40	10.3	19
26	Establishing principal soil quality parameters influencing earthworms in urban soils using bioassays. <i>Environmental Pollution</i> , 2005 , 133, 199-211	9.3	18
25	Earthworm responses to Cd and Cu under fluctuating environmental conditions: a comparison with results from laboratory exposures. <i>Environmental Pollution</i> , 2005 , 136, 443-52	9.3	52
24	Hierarchical responses of soil invertebrates (earthworms) to toxic metal stress. <i>Environmental Science & Technology</i> , 2005 , 39, 5327-34	10.3	42
23	Pedological characterisation of sites along a transect from a primary cadmium/lead/zinc smelting works. <i>Ecotoxicology</i> , 2004 , 13, 725-37	2.9	46
22	Environmental metabolomics: applying combination biomarker analysis in earthworms at a metal contaminated site. <i>Ecotoxicology</i> , 2004 , 13, 797-806	2.9	117
21	Metal effects on soil invertebrate feeding: measurements using the bait lamina method. <i>Ecotoxicology</i> , 2004 , 13, 807-16	2.9	49
20	Critical analysis of soil invertebrate biomarkers: a field case study in Avonmouth, UK. <i>Ecotoxicology</i> , 2004 , 13, 817-22	2.9	29
19	Deriving soil critical limits for Cu, Zn, Cd, and Pb: a method based on free ion concentrations. <i>Environmental Science & Technology</i> , 2004 , 38, 3623-31	10.3	167
18	Toxicological, cellular and gene expression responses in earthworms exposed to copper and cadmium. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2004 , 138, 11-21	3.2	32
17	Responses of earthworms (<i>Lumbricus rubellus</i>) to copper and cadmium as determined by measurement of juvenile traits in a specifically designed test system. <i>Ecotoxicology and Environmental Safety</i> , 2004 , 57, 54-64	7	59

16	A summary of eleven years progress in earthworm ecotoxicology: The 7th international symposium on earthworm ecology □Cardiff □Wales □2002. <i>Pedobiologia</i> , 2003 , 47, 588-606	1.7	132
15	Closing the loop: A spatial analysis to link observed environmental damage to predicted heavy metal emissions. <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 970-976	3.8	18
14	Quantifying copper and cadmium impacts on intrinsic rate of population increase in the terrestrial oligochaete <i>Lumbricus rubellus</i> . <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 1465-1472	3.8	40
13	Explaining density-dependent regulation in earthworm populations using life-history analysis. <i>Oikos</i> , 2003 , 100, 89-95	4	29
12	A summary of eleven years progress in earthworm ecotoxicology. <i>Pedobiologia</i> , 2003 , 47, 588-606	1.7	22
11	Closing the loop: A spatial analysis to link observed environmental damage to predicted heavy metal emissions 2003 , 22, 970		2
10	Quantifying copper and cadmium impacts on intrinsic rate of population increase in the terrestrial oligochaete <i>Lumbricus rubellus</i> . <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 1465-72	3.8	8
9	Metabonomic assessment of toxicity of 4-fluoroaniline, 3,5-difluoroaniline and 2-fluoro-4-methylaniline to the earthworm <i>Eisenia veneta</i> (rosa): Identification of new endogenous biomarkers. <i>Environmental Toxicology and Chemistry</i> , 2002 , 21, 1966-1972	3.8	104
8	Relative sensitivity of life-cycle and biomarker responses in four earthworm species exposed to zinc. <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 1800-1808	3.8	114
7	Relative sensitivity of life-cycle and biomarker responses in four earthworm species exposed to zinc 2000 , 19, 1800		3
6	Life-History Patterns in Reference and Metal-Exposed Earthworm Populations. <i>Ecotoxicology</i> , 1999 , 8, 133-141	2.9	26
5	Risk assessment of the threat of secondary poisoning by metals to predators of earthworms in the vicinity of a primary smelting works. <i>Science of the Total Environment</i> , 1996 , 187, 167-183	10.2	65
4	Effects of metal-contaminated soils on the growth, sexual development, and early cocoon production of the earthworm <i>Eisenia fetida</i> , with particular reference to zinc. <i>Ecotoxicology and Environmental Safety</i> , 1996 , 35, 86-95	7	110
3	The effects of metal contamination on earthworm populations around a smelting works: quantifying species effects. <i>Applied Soil Ecology</i> , 1996 , 4, 147-160	5	123
2	Extrapolation of the laboratory-based OECD earthworm toxicity test to metal-contaminated field sites. <i>Ecotoxicology</i> , 1995 , 4, 190-205	2.9	196
1	Biological Methods for Assessing Potentially Contaminated Soils 163-205		2