

Stephen R Strzenbaum

List of Publications by Citations

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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.

98
papers

4,459
citations

39
h-index

65
g-index

98
ext. papers

4,857
ext. citations

5.2
avg, IF

5.39
L-index

#	Paper	IF	Citations
98	Control genes in quantitative molecular biological techniques: the variability of invariance. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2001 , 130, 281-9	2.3	197
97	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
96	Microevolution and ecotoxicology of metals in invertebrates. <i>Environmental Science & Technology</i> , 2007 , 41, 1085-96	10.3	165
95	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
94	Bisphosphonate-related osteonecrosis of the jaws - characteristics, risk factors, clinical features, localization and impact on oncological treatment. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2012 , 40, 303-9	3.6	151
93	Hormetins, antioxidants and prooxidants: defining quercetin-, caffeic acid- and rosmarinic acid-mediated life extension in <i>C. elegans</i> . <i>Biogerontology</i> , 2011 , 12, 329-47	4.5	143
92	Cadmium detoxification in earthworms: from genes to cells. <i>Environmental Science & Technology</i> , 2004 , 38, 6283-9	10.3	128
91	Metal ion trafficking in earthworms. Identification of a cadmium-specific metallothionein. <i>Journal of Biological Chemistry</i> , 2001 , 276, 34013-8	5.4	117
90	Catechin induced longevity in <i>C. elegans</i> : from key regulator genes to disposable soma. <i>Mechanisms of Ageing and Development</i> , 2009 , 130, 477-86	5.6	109
89	Quercetin mediated lifespan extension in <i>Caenorhabditis elegans</i> is modulated by age-1, daf-2, sek-1 and unc-43. <i>Biogerontology</i> , 2009 , 10, 565-78	4.5	107
88	Fluorescence-guided bone resection in bisphosphonate-related osteonecrosis of the jaws: first clinical results of a prospective pilot study. <i>Journal of Oral and Maxillofacial Surgery</i> , 2011 , 69, 84-91	1.8	106
87	Bisphosphonate-related osteonecrosis of the jaw: is pH the missing part in the pathogenesis puzzle?. <i>Journal of Oral and Maxillofacial Surgery</i> , 2010 , 68, 1158-61	1.8	102
86	Genes and environment - striking the fine balance between sophisticated biomonitoring and true functional environmental genomics. <i>Science of the Total Environment</i> , 2008 , 400, 142-61	10.2	99
85	Mixtures of chemical pollutants at European legislation safety concentrations: how safe are they?. <i>Toxicological Sciences</i> , 2014 , 141, 218-33	4.4	95
84	The metabolomic responses of <i>Caenorhabditis elegans</i> to cadmium are largely independent of metallothionein status, but dominated by changes in cystathionine and phytochelatins. <i>Journal of Proteome Research</i> , 2009 , 8, 3512-9	5.6	95
83	Osteoporosis and bisphosphonates-related osteonecrosis of the jaw: not just a sporadic coincidence--a multi-centre study. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2011 , 39, 272-7	3.6	92
82	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

81	Polyester-derived microfibre impacts on the soil-dwelling earthworm <i>Lumbricus terrestris</i> . <i>Environmental Pollution</i> , 2019 , 251, 453-459	9.3	86
80	The <i>Caenorhabditis elegans</i> Elongator complex regulates neuronal alpha-tubulin acetylation. <i>PLoS Genetics</i> , 2010 , 6, e1000820	6	84
79	Early-phase immunodetection of metallothionein and heat shock proteins in extruded earthworm coelomocytes after dermal exposure to metal ions. <i>Environmental Pollution</i> , 2005 , 135, 275-80	9.3	81
78	Diversity of polyphenol action in <i>Caenorhabditis elegans</i> : between toxicity and longevity. <i>Journal of Natural Products</i> , 2011 , 74, 1713-20	4.9	80
77	Fluorescence-guided bone resection in bisphosphonate-associated osteonecrosis of the jaws. <i>Journal of Oral and Maxillofacial Surgery</i> , 2009 , 67, 471-6	1.8	76
76	The use of FUDR can cause prolonged longevity in mutant nematodes. <i>Mechanisms of Ageing and Development</i> , 2010 , 131, 364-5	5.6	70
75	Isolation and characterization of a self-sufficient one-domain protein. (Cd)-metallothionein from <i>Eisenia foetida</i> . <i>FEBS Journal</i> , 2000 , 267, 573-82		70
74	Bisphosphonate related osteonecrosis of the jaw: A minipig large animal model. <i>Bone</i> , 2012 , 51, 592-9	4.7	66
73	Humic material induces behavioral and global transcriptional responses in the nematode <i>Caenorhabditis elegans</i> . <i>Environmental Science & Technology</i> , 2005 , 39, 8324-32	10.3	65
72	Hydrogen sulfide is an endogenous regulator of aging in <i>Caenorhabditis elegans</i> . <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 2621-30	8.4	63
71	Gene expression profiling to characterize sediment toxicity--a pilot study using <i>Caenorhabditis elegans</i> whole genome microarrays. <i>BMC Genomics</i> , 2009 , 10, 160	4.5	61
70	Cytochrome P450s and short-chain dehydrogenases mediate the toxicogenomic response of PCB52 in the nematode <i>Caenorhabditis elegans</i> . <i>Journal of Molecular Biology</i> , 2007 , 370, 1-13	6.5	61
69	DNA sequence variation and methylation in an arsenic tolerant earthworm population. <i>Soil Biology and Biochemistry</i> , 2013 , 57, 524-532	7.5	58
68	<i>C. elegans</i> metallothioneins: response to and defence against ROS toxicity. <i>Molecular BioSystems</i> , 2011 , 7, 2397-406		57
67	Tetracycline bone fluorescence: a valuable marker for osteonecrosis characterization and therapy. <i>Journal of Oral and Maxillofacial Surgery</i> , 2010 , 68, 125-9	1.8	56
66	The two <i>Caenorhabditis elegans</i> metallothioneins (CeMT-1 and CeMT-2) discriminate between essential zinc and toxic cadmium. <i>FEBS Journal</i> , 2010 , 277, 2531-42	5.7	54
65	The longevity effect of tannic acid in <i>Caenorhabditis elegans</i> : Disposable Soma meets hormesis. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010 , 65, 626-35	6.4	50
64	Incidence of maxillary sinusitis and oro-antral fistulae in bisphosphonate-related osteonecrosis of the jaw. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2012 , 40, 568-71	3.6	48

63	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
62	A metabolomics based test of independent action and concentration addition using the earthworm <i>Lumbricus rubellus</i> . <i>Ecotoxicology</i> , 2012 , 21, 1436-47	2.9	42
61	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
60	Single and double metallothionein knockout in the nematode <i>C. elegans</i> reveals cadmium dependent and independent toxic effects on life history traits. <i>Environmental Pollution</i> , 2007 , 145, 395-400	8.3	42
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	The significance of genome-wide transcriptional regulation in the evolution of stress tolerance. <i>Evolutionary Ecology</i> , 2010 , 24, 527-539	1.8	39
57	<i>Caenorhabditis elegans</i> metallothioneins protect against toxicity induced by depleted uranium. <i>Toxicological Sciences</i> , 2009 , 111, 345-54	4.4	36
56	Accumulated metal speciation in earthworm populations with multigenerational exposure to metalliferous soils: cell fractionation and high-energy synchrotron analyses. <i>Environmental Science & Technology</i> , 2009 , 43, 6822-9	10.3	36
55	Heavy metals affect the coelomocyte-bacteria balance in earthworms: environmental interactions between abiotic and biotic stressors. <i>Environmental Pollution</i> , 2006 , 142, 373-81	9.3	35
54	In vivo testing of gold nanoparticles using the <i>Caenorhabditis elegans</i> model organism. <i>Acta Biomaterialia</i> , 2017 , 53, 598-609	10.8	33
53	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
52	Toxicogenomics of iron oxide nanoparticles in the nematode <i>C. elegans</i> . <i>Nanotoxicology</i> , 2017 , 11, 647-653	5.3	31
51	Cellular and molecular aspects of metal sequestration and toxicity in earthworms. <i>Invertebrate Reproduction and Development</i> , 1999 , 36, 17-24	0.7	31
50	<i>C. elegans</i> aging is modulated by hydrogen sulfide and the sulfhydrylase/cysteine synthase <i>cysl-2</i> . <i>PLoS ONE</i> , 2013 , 8, e80135	3.7	31
49	Cu and Cd effects on the earthworm <i>Lumbricus rubellus</i> in the laboratory: multivariate statistical analysis of relationships between exposure, biomarkers, and ecologically relevant parameters. <i>Environmental Science & Technology</i> , 2005 , 39, 1757-63	10.3	30
48	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
47	Earthworm genomes, genes and proteins: the (re)discovery of Darwin's worms. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 789-97	4.4	29
46	Knock down of <i>Caenorhabditis elegans</i> <i>cutc-1</i> exacerbates the sensitivity toward high levels of copper. <i>Toxicological Sciences</i> , 2008 , 106, 384-91	4.4	29

45	Bisphosphonate related osteonecrosis of the jaw--manifestation in a microvascular iliac bone flap. <i>Oral Oncology</i> , 2011 , 47, 425-9	4.4	28
44	Cadmium binding studies to the earthworm <i>Lumbricus rubellus</i> metallothionein by electrospray mass spectrometry and circular dichroism spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 351, 229-33	3.4	26
43	Nematode and snail metallothioneins. <i>Journal of Biological Inorganic Chemistry</i> , 2011 , 16, 1057-65	3.7	24
42	Bio-electrospraying the nematode <i>Caenorhabditis elegans</i> : studying whole-genome transcriptional responses and key life cycle parameters. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 595-601	4.1	24
41	Metal bioaccumulation and cellular fractionation in an epigeic earthworm (<i>Lumbricus rubellus</i>): The interactive influences of population exposure histories, site-specific geochemistry and mitochondrial genotype. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 1566-1573	7.5	23
40	Proanthocyanidins of Natural Origin: Molecular Mechanisms and Implications for Lipid Disorder and Aging-Associated Diseases. <i>Advances in Nutrition</i> , 2019 , 10, 464-478	10	22
39	Metallothionein gene activation in the earthworm (<i>Lumbricus rubellus</i>). <i>Biochemical and Biophysical Research Communications</i> , 2015 , 460, 537-42	3.4	22
38	Therapeutic elastic tape reduces morbidity after wisdom teeth removal--a clinical trial. <i>Clinical Oral Investigations</i> , 2014 , 18, 1205-1212	4.2	22
37	Meta-Analysis of Global Transcriptomics Suggests that Conserved Genetic Pathways are Responsible for Quercetin and Tannic Acid Mediated Longevity in <i>C. elegans</i> . <i>Frontiers in Genetics</i> , 2012 , 3, 48	4.5	22
36	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
35	<i>Caenorhabditis elegans</i> neprilysin NEP-1: an effector of locomotion and pharyngeal pumping. <i>Journal of Molecular Biology</i> , 2005 , 352, 429-37	6.5	21
34	The application of the comet assay to assess the genotoxicity of environmental pollutants in the nematode <i>Caenorhabditis elegans</i> . <i>Environmental Toxicology and Pharmacology</i> , 2016 , 45, 356-61	5.8	20
33	Tools for metal ion sorting: in vitro evidence for partitioning of zinc and cadmium in <i>C. elegans</i> metallothionein isoforms. <i>Chemical Communications</i> , 2011 , 47, 448-50	5.8	20
32	H2S: A New Approach to Lifespan Enhancement and Healthy Ageing?. <i>Handbook of Experimental Pharmacology</i> , 2015 , 230, 269-87	3.2	16
31	Hormesis and longevity with tannins: free of charge or cost-intensive?. <i>Chemosphere</i> , 2013 , 93, 1005-8	8.4	16
30	Metallothionein from Wild Populations of the African Catfish <i>Clarias gariepinus</i> : From Sequence, Protein Expression and Metal Binding Properties to Transcriptional Biomarker of Metal Pollution. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	15
29	Neurotoxic action of microcystin-LR is reflected in the transcriptional stress response of <i>Caenorhabditis elegans</i> . <i>Chemico-Biological Interactions</i> , 2014 , 223, 51-7	5	15
28	The earthworm Expressed Sequence Tag project. <i>Pedobiologia</i> , 2003 , 47, 447-451	1.7	15

27	Transfer RNA reduces the formation of primer artifacts during quantitative PCR. <i>BioTechniques</i> , 1999 , 27, 50-2	2.5	14
26	Earthworm <i>Lumbricus rubellus</i> MT-2: Metal Binding and Protein Folding of a True Cadmium-MT. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	13
25	Lightsheet fluorescence lifetime imaging microscopy with wide-field time-correlated single photon counting. <i>Journal of Biophotonics</i> , 2020 , 13, e201960099	3.1	12
24	Valosine-containing proteins (VCP) in an annelid: identification of a novel spermatogenesis related factor. <i>Gene</i> , 2005 , 362, 11-8	3.8	11
23	The transportation, transformation and (bio)accumulation of pharmaceuticals in the terrestrial ecosystem. <i>Science of the Total Environment</i> , 2021 , 781, 146684	10.2	11
22	Deletion of Phytochelatin Synthase Modulates the Metal Accumulation Pattern of Cadmium Exposed <i>C. elegans</i> . <i>International Journal of Molecular Sciences</i> , 2016 , 17, 257	6.3	10
21	Metallothionein 2 and Heat Shock Protein 72 Protect <i>Allolobophora chlorotica</i> from Cadmium But Not Nickel or Copper Exposure: Body Malformation and Coelomocyte Functioning. <i>Archives of Environmental Contamination and Toxicology</i> , 2016 , 71, 267-77	3.2	8
20	Two organobromines trigger lifespan, growth, reproductive and transcriptional changes in <i>Caenorhabditis elegans</i> . <i>Environmental Science and Pollution Research</i> , 2014 , 21, 10419-31	5.1	7
19	The toxicological assessment of two anti-obesity drugs in <i>C. elegans</i> . <i>Toxicology Research</i> , 2013 , 2, 145	2.6	7
18	The double mutation of cytochrome P450 β and fatty acid desaturases affect lipid regulation and longevity in. <i>Biochemistry and Biophysics Reports</i> , 2015 , 2, 172-178	2.2	7
17	Extra-long PCR, an identifier of DNA adducts in single nematodes (<i>Caenorhabditis elegans</i>). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2006 , 144, 279-85	3.2	7
16	Rapid direct analysis of river water and machine learning assisted suspect screening of emerging contaminants in passive sampler extracts. <i>Analytical Methods</i> , 2021 , 13, 595-606	3.2	6
15	Estrogenicity of chemical mixtures revealed by a panel of bioassays. <i>Science of the Total Environment</i> , 2021 , 785, 147284	10.2	6
14	Proanthocyanidin trimer gallate modulates lipid deposition and fatty acid desaturation in. <i>FASEB Journal</i> , 2017 , 31, 4891-4902	0.9	5
13	The Nematode <i>Caenorhabditis elegans</i> , Stress and Aging: Identifying the Complex Interplay of Genetic Pathways Following the Treatment with Humic Substances. <i>Frontiers in Genetics</i> , 2012 , 3, 50	4.5	5
12	<i>Caenorhabditis elegans</i> in regenerative medicine: a simple model for a complex discipline. <i>Drug Discovery Today</i> , 2014 , 19, 730-4	8.8	4
11	Transcript expression patterns illuminate the mechanistic background of hormesis in <i>caenorhabditis elegans</i> maupas. <i>Dose-Response</i> , 2013 , 11, 558-76	2.3	3
10	Intergenerational toxicity of nonylphenol ethoxylate (NP-9) in <i>Caenorhabditis elegans</i> . <i>Ecotoxicology and Environmental Safety</i> , 2020 , 197, 110588	7	3

9	Benzo[a]pyrene and Caenorhabditis elegans: defining the genotoxic potential in an organism lacking the classical CYP1A1 pathway. <i>Archives of Toxicology</i> , 2021 , 95, 1055-1069	5.8	3
8	Molecular genetic and biochemical characterization of a putative family of zinc metalloproteins in Caenorhabditis elegans. <i>Metallomics</i> , 2018 , 10, 1814-1823	4.5	2
7	Toxicogenomics in non-mammalian species-Editorial. <i>Frontiers in Genetics</i> , 2012 , 3, 216	4.5	1
6	Construction of a Bacterial Artificial Chromosome (BAC) library and the genomic analysis of valosine-containing proteins in the earthworm Eisenia fetida. <i>European Journal of Soil Biology</i> , 2008 , 44, 202-206	2.9	1
5	Nutritive Manganese and Zinc Overdosing in Aging C. elegans Result in a Metallothionein-Mediated Alteration in Metal Homeostasis. <i>Molecular Nutrition and Food Research</i> , 2021 , 65, e2001176	5.9	1
4	Cryptic speciation and blurred species boundaries of the earthworm: A challenge for soil-based toxicological risk assessments. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021 , 239, 108880	3.2	1
3	Perchlorate detection an invertebrate biosensor. <i>Analytical Methods</i> , 2021 , 13, 327-336	3.2	1
2	A miniaturized passive sampling-based workflow for monitoring chemicals of emerging concern in water. <i>Science of the Total Environment</i> , 2022 , 839, 156260	10.2	1
1	Adsorbable organic bromine compounds (AOBr) in aquatic samples: a nematode-based toxicogenomic assessment of the exposure hazard. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 14862-73	5.1	