

Stephen R StÃ¼rzenbaum

List of Publications by Year in descending order

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98
papers

5,350
citations

70961

41
h-index

88477

70
g-index

98
all docs

98
docs citations

98
times ranked

6126
citing authors

#	ARTICLE	IF	CITATIONS
1	Control genes in quantitative molecular biological techniques: the variability of invariance. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2001, 130, 281-289.	0.7	231
2	Systems toxicology approaches for understanding the joint effects of environmental chemical mixtures. <i>Science of the Total Environment</i> , 2010, 408, 3725-3734.	3.9	198
3	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, 303-309.	0.7	192
4	Microevolution and Ecotoxicology of Metals in Invertebrates. <i>Environmental Science & Technology</i> , 2007, 41, 1085-1096.	4.6	185
5	'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.	1.7	168
6	Hormetins, antioxidants and prooxidants: defining quercetin-, caffeic acid- and rosmarinic acid-mediated life extension in <i>C. elegans</i> . <i>Biogerontology</i> , 2011, 12, 329-347.	2.0	166
7	Polyester-derived microfibre impacts on the soil-dwelling earthworm <i>Lumbricus terrestris</i> . <i>Environmental Pollution</i> , 2019, 251, 453-459.	3.7	147
8	Cadmium Detoxification in Earthworms: From Genes to Cells. <i>Environmental Science & Technology</i> , 2004, 38, 6283-6289.	4.6	139
9	Metal Ion Trafficking in Earthworms. <i>Journal of Biological Chemistry</i> , 2001, 276, 34013-34018.	1.6	137
10	Quercetin mediated lifespan extension in <i>Caenorhabditis elegans</i> is modulated by <i>age-1</i> , <i>daf-2</i> , <i>sek-1</i> and <i>unc-43</i> . <i>Biogerontology</i> , 2009, 10, 565-578.	2.0	134
11	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.	0.5	124
12	Catechin induced longevity in <i>C. elegans</i> : From key regulator genes to disposable soma. <i>Mechanisms of Ageing and Development</i> , 2009, 130, 477-486.	2.2	122
13	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, 1158-1161.	0.5	122
14	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, 272-277.	0.7	111
15	Mixtures of Chemical Pollutants at European Legislation Safety Concentrations: How Safe Are They?. <i>Toxicological Sciences</i> , 2014, 141, 218-233.	1.4	108
16	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, 3512-3519.	1.8	107
17	Genes and environment – Striking the fine balance between sophisticated biomonitoring and true functional environmental genomics. <i>Science of the Total Environment</i> , 2008, 400, 142-161.	3.9	103
18	The <i>Caenorhabditis elegans</i> Elongator Complex Regulates Neuronal α -tubulin Acetylation. <i>PLoS Genetics</i> , 2010, 6, e1000820.	1.5	99

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19	<i>C. elegans</i> metallothioneins: response to and defence against ROS toxicity. <i>Molecular BioSystems</i> , 2011, 7, 2397.	2.9	98
20	Diversity of Polyphenol Action in <i>Caenorhabditis elegans</i> : Between Toxicity and Longevity. <i>Journal of Natural Products</i> , 2011, 74, 1713-1720.	1.5	98
21	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.	1.2	93
22	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, 275-280.	3.7	85
23	The use of FUDR can cause prolonged longevity in mutant nematodes. <i>Mechanisms of Ageing and Development</i> , 2010, 131, 364-365.	2.2	84
24	Fluorescence-Guided Bone Resection in Bisphosphonate-Associated Osteonecrosis of the Jaws. <i>Journal of Oral and Maxillofacial Surgery</i> , 2009, 67, 471-476.	0.5	83
25	Hydrogen Sulfide Is an Endogenous Regulator of Aging in <i>Caenorhabditis elegans</i> . <i>Antioxidants and Redox Signaling</i> , 2014, 20, 2621-2630.	2.5	79
26	Isolation and characterization of a self-sufficient one-domain protein. <i>FEBS Journal</i> , 2000, 267, 573-582.	0.2	75
27	Bisphosphonate related osteonecrosis of the jaw: A minipig large animal model. <i>Bone</i> , 2012, 51, 592-599.	1.4	73
28	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.	2.0	71
29	Humic Material Induces Behavioral and Global Transcriptional Responses in the Nematode <i>Caenorhabditis elegans</i> . <i>Environmental Science & Technology</i> , 2005, 39, 8324-8332.	4.6	70
30	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.	1.2	68
31	DNA sequence variation and methylation in an arsenic tolerant earthworm population. <i>Soil Biology and Biochemistry</i> , 2013, 57, 524-532.	4.2	68
32	Tetracycline Bone Fluorescence: A Valuable Marker for Osteonecrosis Characterization and Therapy. <i>Journal of Oral and Maxillofacial Surgery</i> , 2010, 68, 125-129.	0.5	66
33	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, 2531-2542.	2.2	56
34	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, 568-571.	0.7	55
35	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, 65A, 626-635.	1.7	54
36	Validation of metabolomics for toxic mechanism of action screening with the earthworm <i>Lumbricus rubellus</i> . <i>Metabolomics</i> , 2009, 5, 72-83.	1.4	48

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37	Potential New Method of Mixture Effects Testing Using Metabolomics and <i>Caenorhabditis elegans</i> . <i>Journal of Proteome Research</i> , 2012, 11, 1446-1453.	1.8	48
38	The significance of genome-wide transcriptional regulation in the evolution of stress tolerance. <i>Evolutionary Ecology</i> , 2010, 24, 527-539.	0.5	47
39	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.	3.7	46
40	Linking toxicant physiological mode of action with induced gene expression changes in <i>Caenorhabditis elegans</i> . <i>BMC Systems Biology</i> , 2010, 4, 32.	3.0	46
41	In vivo testing of gold nanoparticles using the <i>Caenorhabditis elegans</i> model organism. <i>Acta Biomaterialia</i> , 2017, 53, 598-609.	4.1	46
42	Proanthocyanidins of Natural Origin: Molecular Mechanisms and Implications for Lipid Disorder and Aging-Associated Diseases. <i>Advances in Nutrition</i> , 2019, 10, 464-478.	2.9	45
43	A metabolomics based test of independent action and concentration addition using the earthworm <i>Lumbricus rubellus</i> . <i>Ecotoxicology</i> , 2012, 21, 1436-1447.	1.1	44
44	Heavy metals affect the coelomocyte-bacteria balance in earthworms: Environmental interactions between abiotic and biotic stressors. <i>Environmental Pollution</i> , 2006, 142, 373-381.	3.7	41
45	Toxicogenomics of iron oxide nanoparticles in the nematode <i>C. elegans</i> . <i>Nanotoxicology</i> , 2017, 11, 647-657.	1.6	40
46	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.	1.3	39
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, 789-797.	1.2	38
48	<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.	1.1	38
49	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, 6822-6829.	4.6	37
50	<i>Caenorhabditis elegans</i> Metallothioneins Protect against Toxicity Induced by Depleted Uranium. <i>Toxicological Sciences</i> , 2009, 111, 345-354.	1.4	36
51	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.	1.3	35
52	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, 1757-1763.	4.6	33
53	Bisphosphonate related osteonecrosis of the jaw – Manifestation in a microvascular iliac bone flap. <i>Oral Oncology</i> , 2011, 47, 425-429.	0.8	33
54	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, 384-391.	1.4	32

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55	Cellular and molecular aspects of metal sequestration and toxicity in earthworms. <i>Invertebrate Reproduction and Development</i> , 1999, 36, 17-24.	0.3	31
56	Nematode and snail metallothioneins. <i>Journal of Biological Inorganic Chemistry</i> , 2011, 16, 1057-1065.	1.1	30
57	The transportation, transformation and (bio)accumulation of pharmaceuticals in the terrestrial ecosystem. <i>Science of the Total Environment</i> , 2021, 781, 146684.	3.9	30
58	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.	1.1	29
59	Therapeutic elastic tape reduces morbidity after wisdom teeth removal—a clinical trial. <i>Clinical Oral Investigations</i> , 2014, 18, 1205-1212.	1.4	29
60	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, 229-233.	1.0	28
61	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, 356-361.	2.0	28
62	<i>Caenorhabditis elegans</i> Neprilysin NEP-1: an Effector of Locomotion and Pharyngeal Pumping. <i>Journal of Molecular Biology</i> , 2005, 352, 429-437.	2.0	27
63	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.	1.5	26
64	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.	1.1	26
65	Lightsheet fluorescence lifetime imaging microscopy with wide-field time-correlated single photon counting. <i>Journal of Biophotonics</i> , 2020, 13, e201960099.	1.1	26
66	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.	4.2	25
67	Metallothionein gene activation in the earthworm (<i>Lumbricus rubellus</i>). <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 537-542.	1.0	25
68	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, 448-450.	2.2	22
69	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, 1548.	1.8	22
70	The earthworm Expressed Sequence Tag project. <i>Pedobiologia</i> , 2003, 47, 447-451.	0.5	21
71	Neurotoxic action of microcystin-LR is reflected in the transcriptional stress response of <i>Caenorhabditis elegans</i> . <i>Chemico-Biological Interactions</i> , 2014, 223, 51-57.	1.7	19
72	H2S: A New Approach to Lifespan Enhancement and Healthy Ageing?. <i>Handbook of Experimental Pharmacology</i> , 2015, 230, 269-287.	0.9	19

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73	Estrogenicity of chemical mixtures revealed by a panel of bioassays. <i>Science of the Total Environment</i> , 2021, 785, 147284.	3.9	19
74	Hormesis and longevity with tannins: Free of charge or cost-intensive?. <i>Chemosphere</i> , 2013, 93, 1005-1008.	4.2	17
75	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, 65.	1.8	17
76	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.	1.3	17
77	Benzo[a]pyrene and <i>Caenorhabditis elegans</i> : defining the genotoxic potential in an organism lacking the classical CYP1A1 pathway. <i>Archives of Toxicology</i> , 2021, 95, 1055-1069.	1.9	17
78	The double mutation of cytochrome P450's and fatty acid desaturases affect lipid regulation and longevity in <i>C. elegans</i> . <i>Biochemistry and Biophysics Reports</i> , 2015, 2, 172-178.	0.7	15
79	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.	1.8	15
80	Transfer RNA Reduces the Formation of Primer Artifacts During Quantitative PCR. <i>BioTechniques</i> , 1999, 27, 50-52.	0.8	14
81	Valosine-containing proteins (VCP) in an annelid: Identification of a novel spermatogenesis related factor. <i>Gene</i> , 2005, 362, 11-18.	1.0	11
82	Intergenerational toxicity of nonylphenol ethoxylate (NP-9) in <i>Caenorhabditis elegans</i> . <i>Ecotoxicology and Environmental Safety</i> , 2020, 197, 110588.	2.9	11
83	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.	1.1	10
84	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, 267-277.	2.1	10
85	A miniaturized passive sampling-based workflow for monitoring chemicals of emerging concern in water. <i>Science of the Total Environment</i> , 2022, 839, 156260.	3.9	10
86	Proanthocyanidin trimer gallate modulates lipid deposition and fatty acid desaturation in <i>Caenorhabditis elegans</i> . <i>FASEB Journal</i> , 2017, 31, 4891-4902.	0.2	9
87	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, 279-285.	1.3	8
88	Two organobromines trigger lifespan, growth, reproductive and transcriptional changes in <i>Caenorhabditis elegans</i> . <i>Environmental Science and Pollution Research</i> , 2014, 21, 10419-10431.	2.7	8
89	Perchlorate detection via an invertebrate biosensor. <i>Analytical Methods</i> , 2021, 13, 327-336.	1.3	8
90	The toxicological assessment of two anti-obesity drugs in <i>C. elegans</i> . <i>Toxicology Research</i> , 2013, 2, 145.	0.9	7

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91	Caenorhabditis elegans in regenerative medicine: a simple model for a complex discipline. Drug Discovery Today, 2014, 19, 730-734.	3.2	6
92	Nutritive Manganese and Zinc Overdosing in Aging <i>C. elegans</i> Result in a Metallothionein-Mediated Alteration in Metal Homeostasis. Molecular Nutrition and Food Research, 2021, 65, e2001176.	1.5	6
93	Transcript Expression Patterns Illuminate the Mechanistic Background of Hormesis in <i>Caenorhabditis Elegans</i> Maupas. Dose-Response, 2013, 11, dose-response.1.	0.7	5
94	Molecular genetic and biochemical characterization of a putative family of zinc metalloproteins in <i>Caenorhabditis elegans</i> . Metallomics, 2018, 10, 1814-1823.	1.0	2
95	Cryptic speciation and blurred species boundaries of the earthworm: A challenge for soil-based toxicological risk assessments. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2021, 239, 108880.	1.3	2
96	Construction of a Bacterial Artificial Chromosome (BAC) library and the genomic analysis of valosine-containing proteins in the earthworm <i>Eisenia fetida</i> . European Journal of Soil Biology, 2008, 44, 202-206.	1.4	1
97	Toxicogenomics in non-mammalian species—Editorial. Frontiers in Genetics, 2012, 3, 216.	1.1	1
98	Adsorbable organic bromine compounds (AOBr) in aquatic samples: a nematode-based toxicogenomic assessment of the exposure hazard. Environmental Science and Pollution Research, 2015, 22, 14862-14873.	2.7	0