

Doug Crump

List of Publications by Year in descending order

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84
papers

2,991
citations

201385

27
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174990

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87
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87
docs citations

87
times ranked

2674
citing authors

#	ARTICLE	IF	CITATIONS
1	Adverse Outcome Pathway (AOP) Development I: Strategies and Principles. <i>Toxicological Sciences</i> , 2014, 142, 312-320.	1.4	521
2	Adverse Outcome Pathway Development II: Best Practices. <i>Toxicological Sciences</i> , 2014, 142, 321-330.	1.4	207
3	Rapid in Vitro Metabolism of the Flame Retardant Triphenyl Phosphate and Effects on Cytotoxicity and mRNA Expression in Chicken Embryonic Hepatocytes. <i>Environmental Science & Technology</i> , 2014, 48, 13511-13519.	4.6	180
4	In Ovo Effects of Two Organophosphate Flame Retardants—TCPP and TDCPP—on Pipping Success, Development, mRNA Expression, and Thyroid Hormone Levels in Chicken Embryos. <i>Toxicological Sciences</i> , 2013, 134, 92-102.	1.4	169
5	Effects of Tris(1,3-dichloro-2-propyl) phosphate and Tris(1-chloropropyl) phosphate on Cytotoxicity and mRNA Expression in Primary Cultures of Avian Hepatocytes and Neuronal Cells. <i>Toxicological Sciences</i> , 2012, 126, 140-148.	1.4	122
6	Amino Acid Sequence of the Ligand-Binding Domain of the Aryl Hydrocarbon Receptor 1 Predicts Sensitivity of Wild Birds to Effects of Dioxin-Like Compounds. <i>Toxicological Sciences</i> , 2013, 131, 139-152.	1.4	101
7	Use of an avian hepatocyte assay and the avian toxchip polymerase chain reaction array for testing prioritization of 16 organic flame retardants. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 573-582.	2.2	87
8	In Vitro Metabolism of the Flame Retardant Triphenyl Phosphate in Chicken Embryonic Hepatocytes and the Importance of the Hydroxylation Pathway. <i>Environmental Science and Technology Letters</i> , 2015, 2, 100-104.	3.9	81
9	Tris(1,3-dichloro-2-propyl) phosphate perturbs the expression of genes involved in immune response and lipid and steroid metabolism in chicken embryos. <i>Toxicology and Applied Pharmacology</i> , 2014, 275, 104-112.	1.3	77
10	Persistent, bioaccumulative, and toxic properties of liquid crystal monomers and their detection in indoor residential dust. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26450-26458.	3.3	76
11	In vitro and in ovo effects of four brominated flame retardants on toxicity and hepatic mRNA expression in chicken embryos. <i>Toxicology Letters</i> , 2011, 207, 25-33.	0.4	66
12	Organophosphate Ester, 2-Ethylhexyl Diphenyl Phosphate (EHDPP), Elicits Cytotoxic and Transcriptomic Effects in Chicken Embryonic Hepatocytes and Its Biotransformation Profile Compared to Humans. <i>Environmental Science & Technology</i> , 2019, 53, 2151-2160.	4.6	57
13	Cytochrome P4501A Induction by 2,3,7,8-Tetrachlorodibenzo-p-Dioxin and Two Chlorinated Dibenzofurans in Primary Hepatocyte Cultures of Three Avian Species. <i>Toxicological Sciences</i> , 2010, 113, 380-391.	1.4	54
14	Sequence and In Vitro Function of Chicken, Ring-Necked Pheasant, and Japanese Quail AHR1 Predict In Vivo Sensitivity to Dioxins. <i>Environmental Science & Technology</i> , 2012, 46, 2967-2975.	4.6	54
15	EcoToxChip: A next-generation toxicogenomics tool for chemical prioritization and environmental management. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 279-288.	2.2	47
16	Effects of Hexabromocyclododecane and Polybrominated Diphenyl Ethers on mRNA Expression in Chicken (<i>Gallus domesticus</i>) Hepatocytes. <i>Toxicological Sciences</i> , 2008, 106, 479-487.	1.4	46
17	Tris(2-butoxyethyl)phosphate and triethyl phosphate alter embryonic development, hepatic mRNA expression, thyroid hormone levels, and circulating bile acid concentrations in chicken embryos. <i>Toxicology and Applied Pharmacology</i> , 2014, 279, 303-310.	1.3	46
18	Pipping Success, Isomer-Specific Accumulation, and Hepatic mRNA Expression in Chicken Embryos Exposed to HBCD. <i>Toxicological Sciences</i> , 2010, 115, 492-500.	1.4	38

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19	Photolytic Degradation Products of Two Highly Brominated Flame Retardants Cause Cytotoxicity and mRNA Expression Alterations in Chicken Embryonic Hepatocytes. <i>Environmental Science & Technology</i> , 2014, 48, 12039-12046.	4.6	38
20	Transcriptomic points-of-departure from short-term exposure studies are protective of chronic effects for fish exposed to estrogenic chemicals. <i>Toxicology and Applied Pharmacology</i> , 2019, 378, 114634.	1.3	36
21	Comparing the effects of tetrabromobisphenol A, bisphenol A, and their potential replacement alternatives, TBBPA bis(2,3-dibromopropyl ether) and bisphenol S, on cell viability and messenger ribonucleic acid expression in chicken embryonic hepatocytes. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 391-401.	2.2	35
22	A luciferase reporter gene assay and aryl hydrocarbon receptor 1 genotype predict the LD50 of polychlorinated biphenyls in avian species. <i>Toxicology and Applied Pharmacology</i> , 2012, 263, 390-401.	1.3	32
23	Time-dependent effects of the flame retardant tris(1,3-dichloro-2-propyl) phosphate (TDCPP) on mRNA expression, in vitro and in ovo, reveal optimal sampling times for rapidly metabolized compounds. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 2842-2849.	2.2	31
24	Bisphenol S alters embryonic viability, development, gallbladder size, and messenger RNA expression in chicken embryos exposed via egg injection. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 1541-1549.	2.2	31
25	Time-dependent transcriptomic and biochemical responses of 6-formylindolo[3,2-b]carbazole (FICZ) and 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) are explained by AHR activation time. <i>Biochemical Pharmacology</i> , 2016, 115, 134-143.	2.0	31
26	Cytochrome P4501A induction in avian hepatocyte cultures exposed to polychlorinated biphenyls: Comparisons with AHR1-mediated reporter gene activity and in ovo toxicity. <i>Toxicology and Applied Pharmacology</i> , 2013, 266, 38-47.	1.3	30
27	Effects of 18 Perfluoroalkyl Compounds on mRNA Expression in Chicken Embryo Hepatocyte Cultures. <i>Toxicological Sciences</i> , 2009, 111, 311-320.	1.4	29
28	Use of a Novel Double-Crested Cormorant ToxCIP PCR Array and the EROD Assay to Determine Effects of Environmental Contaminants in Primary Hepatocytes. <i>Environmental Science & Technology</i> , 2016, 50, 3265-3274.	4.6	29
29	1,2-Dibromo-4-(1,2-dibromoethyl)-cyclohexane and tris(methylphenyl) phosphate cause significant effects on development, mRNA expression, and circulating bile acid concentrations in chicken embryos. <i>Toxicology and Applied Pharmacology</i> , 2014, 277, 279-287.	1.3	27
30	Detection of PBDE effects on mRNA expression in chicken (<i>Gallus domesticus</i>) neuronal cells using real-time RT-PCR and a new differential display method. <i>Toxicology in Vitro</i> , 2008, 22, 1337-1343.	1.1	25
31	Detection of Polybrominated Diphenyl Ethers in Herring Gull (<i>Larus argentatus</i>) brains: Effects on mRNA Expression in Cultured Neuronal Cells. <i>Environmental Science & Technology</i> , 2008, 42, 7715-7721.	4.6	24
32	The effects of Dechlorane Plus on toxicity and mRNA expression in chicken embryos: A comparison of in vitro and in ovo approaches. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2011, 154, 129-134.	1.3	23
33	Prioritization of 10 organic flame retardants using an avian hepatocyte toxicogenomic assay. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 3134-3144.	2.2	23
34	Biochemical and Transcriptomic Effects of Herring Gull Egg Extracts from Variably Contaminated Colonies of the Laurentian Great Lakes in Chicken Hepatocytes. <i>Environmental Science & Technology</i> , 2015, 49, 10190-10198.	4.6	21
35	Extracts of Passive Samplers Deployed in Variably Contaminated Wetlands in the Athabasca Oil Sands Region Elicit Biochemical and Transcriptomic Effects in Avian Hepatocytes. <i>Environmental Science & Technology</i> , 2019, 53, 9192-9202.	4.6	21
36	An Early-Life Stage Alternative Testing Strategy for Assessing the Impacts of Environmental Chemicals in Birds. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 141-154.	2.2	21

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37	Sensitivity of avian species to the aryl hydrocarbon receptor ligand 6-formylindolo [3,2-b] carbazole (FICZ). <i>Chemico-Biological Interactions</i> , 2014, 221, 61-69.	1.7	20
38	Sunlight Irradiation of Highly Brominated Polyphenyl Ethers Generates Polybenzofuran Products That Alter Dioxin-responsive mRNA Expression in Chicken Hepatocytes. <i>Environmental Science & Technology</i> , 2016, 50, 2318-2327.	4.6	19
39	Athabasca Oil Sands Petcoke Extract Elicits Biochemical and Transcriptomic Effects in Avian Hepatocytes. <i>Environmental Science & Technology</i> , 2017, 51, 5783-5792.	4.6	18
40	Computational evaluation of interactions between organophosphate esters and nuclear hormone receptors. <i>Environmental Research</i> , 2020, 182, 108982.	3.7	17
41	Drivers of and Obstacles to the Adoption of Toxicogenomics for Chemical Risk Assessment: Insights from Social Science Perspectives. <i>Environmental Health Perspectives</i> , 2020, 128, 105002.	2.8	17
42	Highly purified hexachlorobenzene induces cytochrome P4501A in primary cultures of chicken embryo hepatocytes. <i>Toxicology and Applied Pharmacology</i> , 2010, 248, 185-193.	1.3	16
43	Polycyclic aromatic compounds (PACs) and trace elements in four marine bird species from northern Canada in a region of natural marine oil and gas seeps. <i>Science of the Total Environment</i> , 2020, 744, 140959.	3.9	16
44	EcoToxModules: Custom Gene Sets to Organize and Analyze Toxicogenomics Data from Ecological Species. <i>Environmental Science & Technology</i> , 2020, 54, 4376-4387.	4.6	16
45	Ultrafast functional profiling of RNA-seq data for nonmodel organisms. <i>Genome Research</i> , 2021, 31, 713-720.	2.4	15
46	Cross-Model Comparison of Transcriptomic Dose-Response of Short-Chain Chlorinated Paraffins. <i>Environmental Science & Technology</i> , 2021, 55, 8149-8158.	4.6	15
47	T1000: a reduced gene set prioritized for toxicogenomic studies. <i>PeerJ</i> , 2019, 7, e7975.	0.9	15
48	Cytochrome P4501A induction in primary cultures of embryonic European starling hepatocytes exposed to TCDD, PeCDF and TCDF. <i>Ecotoxicology</i> , 2013, 22, 731-739.	1.1	14
49	Bis(3-allyl-4-hydroxyphenyl) sulfone decreases embryonic viability and alters hepatic mRNA expression at two distinct developmental stages in chicken embryos exposed via egg injection. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 530-537.	2.2	14
50	Factors Affecting the Perception of New Approach Methodologies (NAMs) in the Ecotoxicology Community. <i>Integrated Environmental Assessment and Management</i> , 2020, 16, 269-281.	1.6	14
51	ToxChip PCR Arrays for Two Arctic-Breeding Seabirds: Applications for Regional Environmental Assessments. <i>Environmental Science & Technology</i> , 2021, 55, 7521-7530.	4.6	14
52	Assessing the Toxicity of 17 β -Ethinylestradiol in Rainbow Trout Using a 4-Day Transcriptomics Benchmark Dose (BMD) Embryo Assay. <i>Environmental Science & Technology</i> , 2021, 55, 10608-10618.	4.6	14
53	Photolysis of highly brominated flame retardants leads to time-dependent dioxin-responsive mRNA expression in chicken embryonic hepatocytes. <i>Chemosphere</i> , 2018, 194, 352-359.	4.2	13
54	Development of a Comprehensive Toxicity Pathway Model for 17 β -Ethinylestradiol in Early Life Stage Fathead Minnows (<i>Pimephales promelas</i>). <i>Environmental Science & Technology</i> , 2021, 55, 5024-5036.	4.6	13

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55	Ethoxyresorufin O-deethylase induction by TCDD, PeCDF and TCDF in ring-necked pheasant and Japanese quail hepatocytes: Time-dependent effects on concentrationâ€“response curves. <i>Toxicology in Vitro</i> , 2010, 24, 1301-1305.	1.1	12
56	Toxicity Screening of Bisphenol A Replacement Compounds: Cytotoxicity and mRNA Expression in Primary Hepatocytes of Chicken and Doubleâ€“Crested Cormorant. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 1368-1378.	2.2	12
57	Using Transcriptomics and Metabolomics to Understand Species Differences in Sensitivity to Chlorpyrifos in Japanese Quail and Doubleâ€“Crested Cormorant Embryos. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 3019-3033.	2.2	11
58	A rapid method of preparing complex organohalogen extracts from avian eggs: Applications to in vitro toxicogenomics screening. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 811-819.	2.2	10
59	Effects on Apical Outcomes of Regulatory Relevance of Earlyâ€“Life Stage Exposure of Doubleâ€“Crested Cormorant Embryos to 4 Environmental Chemicals. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 390-401.	2.2	10
60	Envisioning an international validation process for New Approach Methodologies in chemical hazard and risk assessment. <i>Environmental Advances</i> , 2021, 4, 100061.	2.2	10
61	Comparative analysis of transcriptomic points-of-departure (tPODs) and apical responses in embryo-larval fathead minnows exposed to fluoxetine. <i>Environmental Pollution</i> , 2022, 295, 118667.	3.7	10
62	Toxicogenomic Assessment of Complex Chemical Signatures in Double-Crested Cormorant Embryos from Variably Contaminated Great Lakes Sites. <i>Environmental Science & Technology</i> , 2020, 54, 7504-7512.	4.6	9
63	In vitro microarray analysis identifies genes in acute-phase response pathways that are down-regulated in the liver of chicken embryos exposed in ovo to PFUdA. <i>Toxicology in Vitro</i> , 2013, 27, 1649-1658.	1.1	8
64	Down-Regulation of <i>hspb9</i> and <i>hspb11</i> Contributes to Wavy Notochord in Zebrafish Embryos Following Exposure to Polychlorinated Diphenylsulfides. <i>Environmental Science & Technology</i> , 2018, 52, 12829-12840.	4.6	7
65	A comparative study of 3 alternative avian toxicity testing methods: Effects on hepatic gene expression in the chicken embryo. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 2546-2555.	2.2	7
66	Occurrence, partitioning, and bioaccumulation of an emerging class of PBT substances (polychlorinated diphenyl sulfides) in Chaohu Lake, Southeast China. <i>Water Research</i> , 2022, 218, 118498.	5.3	7
67	Catbirds are the New Chickens: High Sensitivity to a Dioxin-like Compound in a Wildlife Species. <i>Environmental Science & Technology</i> , 2017, 51, 5252-5258.	4.6	6
68	Polycyclic Aromatic Hydrocarbons Alter the Hepatic Expression of Genes Involved in Sanderling (<i>Calidris alba</i>) Preâ€“migratory Fueling. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 1981-1989.	2.2	6
69	Polychlorinated Diphenyl Sulfides: An Emerging Class of Persistent, Bioaccumulative, and Toxic Substances in the Environment. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 2657-2666.	2.2	6
70	EcoToxXplorer: Leveraging Design Thinking to Develop a Standardized Webâ€“Based Transcriptomics Analytics Platform for Diverse Users. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 21-29.	2.2	6
71	Stage of development affects dry weight mercury concentrations in bird eggs: Laboratory evidence and adjustment method. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1168-1174.	2.2	5
72	Characterizing toxicity pathways of fluoxetine to predict adverse outcomes in adult fathead minnows (<i>Pimephales promelas</i>). <i>Science of the Total Environment</i> , 2022, 817, 152747.	3.9	5

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73	In Vitro Screening of 21 Bisphenol A Replacement Alternatives: Compared with Bisphenol A, the Majority of Alternatives Are More Cytotoxic and Dysregulate More Genes in Avian Hepatocytes. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 2024-2031.	2.2	4
74	Evaluation of the Aryl Hydrocarbon Receptor Response in LMH 3D Spheroids. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 1693-1701.	2.2	3
75	Targeted Metabolomics to Assess Exposure to Environmental Chemicals of Concern in Japanese Quail at Two Life Stages. <i>Metabolites</i> , 2021, 11, 850.	1.3	3
76	Consideration of metabolomics and transcriptomics data in the context of using avian embryos for toxicity testing. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2022, 258, 109370.	1.3	3
77	Concentration- and time-dependent induction of Cyp1a and DNA damage response by benzo(a)pyrene in LMH three-dimensional spheroids. <i>Environmental and Molecular Mutagenesis</i> , 2021, 62, 319-327.	0.9	2
78	Effects of two Bisphenol A replacement compounds, 1,7-bis (4-hydroxyphenylthio)-3,5-dioxahexane and Bisphenol AF, on development and mRNA expression in chicken embryos. <i>Ecotoxicology and Environmental Safety</i> , 2021, 215, 112140.	2.9	2
79	Cytotoxic and Transcriptomic Effects in Avian Hepatocytes Exposed to a Complex Mixture from Air Samples, and Their Relation to the Organic Flame Retardant Signature. <i>Toxics</i> , 2021, 9, 324.	1.6	2
80	Developmental and Hepatic Gene Expression Changes in Chicken Embryos Exposed to <i>p</i> -Tert-Butylphenyl Diphenyl Phosphate and Isopropylphenyl Phosphate via Egg Injection. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 739-747.	2.2	2
81	Effects of Avian Eggshell Oiling With Diluted Bitumen Show Sublethal Embryonic Polycyclic Aromatic Compound Exposure. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 159-174.	2.2	2
82	Chemical risk governance: Exploring stakeholder participation in Canada, the USA, and the EU. <i>Ambio</i> , 2021, , .	2.8	2
83	Extracts from Dated Lake Sediment Cores in the Athabasca Oil Sands Region Alter Ethoxyresorufin-O-deethylase Activity and Gene Expression in Avian Hepatocytes. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 1881-1891.	2.2	0
84	Toxicity screening of bisphenol A replacement compounds: cytotoxicity and mRNA expression in LMH 3D spheroids. <i>Environmental Science and Pollution Research</i> , 2022, , 1.	2.7	0