Kevin M Crofton

List of Publications by Year in Descending Order

118 papers	8,034 citations	52 h-index	88 g-index
120 ext. papers	8,832 ext. citations	4.5 avg, IF	5.74 L-index

#	Paper	IF	Citations
118	Current status and future directions for a neurotoxicity hazard assessment framework that integrates in silico approaches. *Computational Toxicology*, **2022**, 22, 100223	3.1	1
117	External Scientific Report on the Interpretation of Data from the Developmental Neurotoxicity In Vitro Testing Assays for Use in Integrated Approaches for Testing and Assessment. *EFSA Supporting Publications*, **2021**, 18,	1.1	3
116	Development of Integrated Approaches to Testing and Assessment (IATA) case studies on developmental neurotoxicity (DNT) risk assessment. *EFSA Journal*, **2021**, 19, e06599	2.3	4
115	Evaluating Chemicals for Thyroid Disruption: Opportunities and Challenges with in Vitro Testing and Adverse Outcome Pathway Approaches. *Environmental Health Perspectives*, **2019**, 127, 95001	8.4	44
114	Limited Chemical Structural Diversity Found to Modulate Thyroid Hormone Receptor in the Tox21 Chemical Library. *Environmental Health Perspectives*, **2019**, 127, 97009	8.4	33
113	International Regulatory and Scientific Effort for Improved Developmental Neurotoxicity Testing. *Toxicological Sciences*, **2019**, 167, 45-57	4.4	31
112	Consensus statement on the need for innovation, transition and implementation of developmental neurotoxicity (DNT) testing for regulatory purposes. *Toxicology and Applied Pharmacology*, **2018**, 354, 3-6	4.6	69
111	Recommendation on test readiness criteria for new approach methods in toxicology: Exemplified for developmental neurotoxicity. *ALTEX: Alternatives To Animal Experimentation*, **2018**, 35, 306-352	4.3	71
110	Effects of an environmentally-relevant mixture of pyrethroid insecticides on spontaneous activity in primary cortical networks on microelectrode arrays. *NeuroToxicology*, **2017**, 60, 234-239	4.4	17
109	FutureTox III: Bridges for Translation. *Toxicological Sciences*, **2017**, 155, 22-31	4.4	17
108	Comment on "On the Utility of ToxCast and ToxPi as Methods for Identifying New Obesogens". *Environmental Health Perspectives*, **2017**, 125, A8-A11	8.4	6
107	Tiered High-Throughput Screening Approach to Identify Thyroperoxidase Inhibitors Within the ToxCast Phase I and II Chemical Libraries. *Toxicological Sciences*, **2016**, 151, 160-80	4.4	67
106	The Next Generation of Risk Assessment Multi-Year Study-Highlights of Findings, Applications to Risk Assessment, and Future Directions. *Environmental Health Perspectives*, **2016**, 124, 1671-1682	8.4	59
105	ToxCast Chemical Landscape: Paving the Road to 21st Century Toxicology. *Chemical Research in Toxicology*, **2016**, 29, 1225-51	4	301
104	Editor's Highlight: Analysis of the Effects of Cell Stress and Cytotoxicity on In Vitro Assay Activity Across a Diverse Chemical and Assay Space. *Toxicological Sciences*, **2016**, 152, 323-39	4.4	125
103	Environmentally relevant pyrethroid mixtures: A study on the correlation of blood and brain concentrations of a mixture of pyrethroid insecticides to motor activity in the rat. *Toxicology*, **2016**, 359-360, 19-28	4.4	15
102	International STakeholder NETwork (ISTNET): creating a developmental neurotoxicity (DNT) testing road map for regulatory purposes. *Archives of Toxicology*, **2015**, 89, 269-87	5.8	107

101	Expanding the test set: Chemicals with potential to disrupt mammalian brain development. *Neurotoxicology and Teratology*, **2015**, 52, 25-35	3.9	56
100	Developmental Neurotoxicology: History and Outline of Developmental Neurotoxicity Study Guidelines. *Food Safety (Tokyo, Japan)*, **2015**, 3, 48-61	2.1	6
99	Integrated Model of Chemical Perturbations of a Biological Pathway Using 18 In Vitro High-Throughput Screening Assays for the Estrogen Receptor. *Toxicological Sciences*, **2015**, 148, 137-54	4.4	201
98	Putative adverse outcome pathways relevant to neurotoxicity. *Critical Reviews in Toxicology*, **2015**, 45, 83-91	5.7	76
97	The human toxome project. *ALTEX: Alternatives To Animal Experimentation*, **2015**, 32, 112-24	4.3	43
96	Environmentally relevant mixing ratios in cumulative assessments: a study of the kinetics of pyrethroids and their ester cleavage metabolites in blood and brain; and the effect of a pyrethroid mixture on the motor activity of rats. *Toxicology*, **2014**, 320, 15-24	4.4	24
95	Development of a thyroperoxidase inhibition assay for high-throughput screening. *Chemical Research in Toxicology*, **2014**, 27, 387-99	4	52
94	Applying Adverse Outcome Pathways (AOPs) to support Integrated Approaches to Testing and Assessment (IATA). *Regulatory Toxicology and Pharmacology*, **2014**, 70, 629-40	3.4	237
93	In vitro and modelling approaches to risk assessment from the U.S. Environmental Protection Agency ToxCast programme. *Basic and Clinical Pharmacology and Toxicology*, **2014**, 115, 69-76	3.1	96
92	Pathways of Toxicity. *ALTEX: Alternatives To Animal Experimentation*, **2014**, 31, 53-61	4.3	59
91	International STakeholder NETwork (ISTNET) for creating a developmental neurotoxicity testing (DNT) roadmap for regulatory purposes. *ALTEX: Alternatives To Animal Experimentation*, **2014**, 31, 223-4	4.3	12
90	Evidence for triclosan-induced activation of human and rodent xenobiotic nuclear receptors. *Toxicology in Vitro*, **2013**, 27, 2049-60	3.6	40
89	Mechanism-based testing strategy using in vitro approaches for identification of thyroid hormone disrupting chemicals. *Toxicology in Vitro*, **2013**, 27, 1320-46	3.6	143
88	Cross-species analysis of thyroperoxidase inhibition by xenobiotics demonstrates conservation of response between pig and rat. *Toxicology*, **2013**, 312, 97-107	4.4	26
87	In vitro perturbations of targets in cancer hallmark processes predict rodent chemical carcinogenesis. *Toxicological Sciences*, **2013**, 131, 40-55	4.4	60
86	Current perspectives on the use of alternative species in human health and ecological hazard assessments. *Environmental Health Perspectives*, **2013**, 121, 1002-10	8.4	80
85	Using in vitro high throughput screening assays to identify potential endocrine-disrupting chemicals. *Environmental Health Perspectives*, **2013**, 121, 7-14	8.4	119
84	Evaluation of iodide deficiency in the lactating rat and pup using a biologically based dose-response model. *Toxicological Sciences*, **2013**, 132, 75-86	4.4	12

83	An empirical approach to sufficient similarity: combining exposure data and mixtures toxicology data. *Risk Analysis*, **2013**, 33, 1582-95	3.9	12
82	An animal model of marginal iodine deficiency during development: the thyroid axis and neurodevelopmental outcome. *Toxicological Sciences*, **2013**, 132, 177-95	4.4	37
81	Optimal design for the precise estimation of an interaction threshold: the impact of exposure to a mixture of 18 polyhalogenated aromatic hydrocarbons. *Risk Analysis*, **2012**, 32, 1784-97	3.9	1
80	Developmental triclosan exposure decreases maternal, fetal, and early neonatal thyroxine: a dynamic and kinetic evaluation of a putative mode-of-action. *Toxicology*, **2012**, 300, 31-45	4.4	91
79	Developmental neurotoxicity guideline study: issues with methodology, evaluation and regulation. *Congenital Anomalies (discontinued)*, **2012**, 52, 122-8	1.1	55
78	Developmental neurotoxicity testing: a path forward. *Congenital Anomalies (discontinued)*, **2012**, 52, 140-61	1.1	79
77	Juvenile toxicity testing protocols for chemicals. *Reproductive Toxicology*, **2012**, 34, 482-6	3.4	13
76	Environmentally relevant mixtures in cumulative assessments: an acute study of toxicokinetics and effects on motor activity in rats exposed to a mixture of pyrethroids. *Toxicological Sciences*, **2012**, 130, 309-18	4.4	43
75	Advancing the science of developmental neurotoxicity (DNT): testing for better safety evaluation. *ALTEX: Alternatives To Animal Experimentation*, **2012**, 29, 202-15	4.3	86
74	Additivity of pyrethroid actions on sodium influx in cerebrocortical neurons in primary culture. *Environmental Health Perspectives*, **2011**, 119, 1239-46	8.4	41
73	Correlation of tissue concentrations of the pyrethroid bifenthrin with neurotoxicity in the rat. *Toxicology*, **2011**, 290, 1-6	4.4	49
72	Risk assessment of combined exposure to multiple chemicals: A WHO/IPCS framework. *Regulatory Toxicology and Pharmacology*, **2011**, 60, S1-S1	3.4	190
71	Defining and modeling known adverse outcome pathways: Domoic acid and neuronal signaling as a case study. *Environmental Toxicology and Chemistry*, **2011**, 30, 9-21	3.8	52
70	Critical analysis of literature on low-dose synergy for use in screening chemical mixtures for risk assessment. *Critical Reviews in Toxicology*, **2011**, 41, 369-83	5.7	109
69	Developmental neurotoxicity testing: recommendations for developing alternative methods for the screening and prioritization of chemicals. *ALTEX: Alternatives To Animal Experimentation*, **2011**, 28, 9-15	4.3	80
68	In utero and lactational exposure to bisphenol A, in contrast to ethinyl estradiol, does not alter sexually dimorphic behavior, puberty, fertility, and anatomy of female LE rats. *Toxicological Sciences* , **2010**, 114, 133-48	4.4	147
67	Short-term exposure to triclosan decreases thyroxine in vivo via upregulation of hepatic catabolism in Young Long-Evans rats. *Toxicological Sciences*, **2010**, 113, 367-79	4.4	106
66	"Flawed Experimental Design Reveals the Need for Guidelines Requiring Appropriate Positive Controls in Endocrine Disruption Research" by (Vom Saal 2010). *Toxicological Sciences*, **2010**, 115, 614-620	4.4	16

65	Comparison of PC12 and cerebellar granule cell cultures for evaluating neurite outgrowth using high content analysis. *Neurotoxicology and Teratology*, **2010**, 32, 25-35	3.9	55
64	Developmental triclosan exposure decreases maternal and neonatal thyroxine in rats. *Environmental Toxicology and Chemistry*, **2010**, 29, 2840-4	3.8	59
63	Splice variant specific increase in Ca2+/calmodulin-dependent protein kinase 1-gamma mRNA expression in response to acute pyrethroid exposure. *Journal of Biochemical and Molecular Toxicology*, **2010**, 24, 174-86	3.4	1
62	Predictive modeling of a mixture of thyroid hormone disrupting chemicals that affect production and clearance of thyroxine. *International Journal of Toxicology*, **2009**, 28, 368-81	2.4	27
61	Thyroid-disrupting chemicals: interpreting upstream biomarkers of adverse outcomes. *Environmental Health Perspectives*, **2009**, 117, 1033-41	8.4	196
60	Evidence for dose-additive effects of pyrethroids on motor activity in rats. *Environmental Health Perspectives*, **2009**, 117, 1563-70	8.4	42
59	In vivo acute exposure to polychlorinated biphenyls: effects on free and total thyroxine in rats. *International Journal of Toxicology*, **2009**, 28, 382-91	2.4	8
58	The effects of triclosan on puberty and thyroid hormones in male Wistar rats. *Toxicological Sciences*, **2009**, 107, 56-64	4.4	203
57	A retrospective performance assessment of the developmental neurotoxicity study in support of OECD test guideline 426. *Environmental Health Perspectives*, **2009**, 117, 17-25	8.4	120
56	Thyroid disrupting chemicals: mechanisms and mixtures. *Journal of Developmental and Physical Disabilities*, **2008**, 31, 209-23		176
55	Transcriptional response of rat frontal cortex following acute in vivo exposure to the pyrethroid insecticides permethrin and deltamethrin. *BMC Genomics*, **2008**, 9, 546	4.5	17
54	Undertaking positive control studies as part of developmental neurotoxicity testing: a report from the ILSI Research Foundation/Risk Science Institute expert working group on neurodevelopmental endpoints. *Neurotoxicology and Teratology*, **2008**, 30, 266-87	3.9	42
53	Identification and interpretation of developmental neurotoxicity effects: a report from the ILSI Research Foundation/Risk Science Institute expert working group on neurodevelopmental endpoints. *Neurotoxicology and Teratology*, **2008**, 30, 349-81	3.9	33
52	Meeting report: moving upstream-evaluating adverse upstream end points for improved risk assessment and decision-making. *Environmental Health Perspectives*, **2008**, 116, 1568-75	8.4	56
51	Workgroup report: incorporating in vitro alternative methods for developmental neurotoxicity into international hazard and risk assessment strategies. *Environmental Health Perspectives*, **2007**, 115, 924-31	8.4	123
50	Comments on: Effect of prenatal exposure of deltamethrin on the ontogeny of xenobiotic metabolizing cytochrome P450s in the brain and liver of offsprings [Johri et al. Toxicol Appl Pharmacol. 214:279-289, 2006]. *Toxicology and Applied Pharmacology*, **2007**, 218, 96-7; author reply 98	4.6	2
49	The impact of exposure to a mixture of eighteen polyhalogenated aromatic hydrocarbons on thyroid function: Estimation of an interaction threshold. *Journal of Agricultural, Biological, and Environmental Statistics*, **2007**, 12, 96-111	1.9	8
48	Inhalational exposure to carbonyl sulfide produces altered brainstem auditory and somatosensory-evoked potentials in Fischer 344N rats. *Toxicological Sciences*, **2007**, 95, 118-35	4.4	13

47	The flame retardants, polybrominated diphenyl ethers, are pregnane X receptor activators. *Toxicological Sciences*, **2007**, 97, 94-102	4.4	118
46	Low-dose effects of ammonium perchlorate on the hypothalamic-pituitary-thyroid axis of adult male rats pretreated with PCB126. *Toxicological Sciences*, **2007**, 97, 308-17	4.4	26
45	Concentration-dependent accumulation of [3H]-deltamethrin in sodium channel Nav1.2/beta1 expressing Xenopus laevis oocytes. *Toxicology in Vitro*, **2007**, 21, 1672-7	3.6	3
44	Short-term in vivo exposure to the water contaminant triclosan: Evidence for disruption of thyroxine. *Environmental Toxicology and Pharmacology*, **2007**, 24, 194-7	5.8	174
43	Effect of PCB 126 on hepatic metabolism of thyroxine and perturbations in the hypothalamic-pituitary-thyroid axis in the rat. *Toxicological Sciences*, **2006**, 90, 87-95	4.4	56
42	NTP-CERHR Expert Panel Report on the reproductive and developmental toxicity of methylphenidate. *Birth Defects Research Part B: Developmental and Reproductive Toxicology*, **2005**, 74, 300-81		19
41	Overview: Using mode of action and life stage information to evaluate the human relevance of animal toxicity data. *Critical Reviews in Toxicology*, **2005**, 35, 664-72	5.7	142
40	Time and concentration dependent accumulation of [3H]-deltamethrin in Xenopus laevis oocytes. *Toxicology Letters*, **2005**, 157, 79-88	4.4	12
39	Mode of action: developmental thyroid hormone insufficiency--neurological abnormalities resulting from exposure to propylthiouracil. *Critical Reviews in Toxicology*, **2005**, 35, 771-81	5.7	78
38	Behavioral test methods workshop. *Neurotoxicology and Teratology*, **2005**, 27, 417-27	3.9	27
37	NTP-CERHR Expert Panel Report on the reproductive and developmental toxicity of amphetamine and methamphetamine. *Birth Defects Research Part B: Developmental and Reproductive Toxicology*, **2005**, 74, 471-584		37
36	Thyroid-hormone-disrupting chemicals: evidence for dose-dependent additivity or synergism. *Environmental Health Perspectives*, **2005**, 113, 1549-54	8.4	159
35	Developmental neurotoxicity of pyrethroid insecticides: critical review and future research needs. *Environmental Health Perspectives*, **2005**, 113, 123-36	8.4	374
34	Mode of action: neurotoxicity induced by thyroid hormone disruption during development--hearing loss resulting from exposure to PHAHs. *Critical Reviews in Toxicology*, **2005**, 35, 757-69	5.7	58
33	Accumulation of PBDE-47 in primary cultures of rat neocortical cells. *Toxicological Sciences*, **2004**, 82, 164-9	4.4	49
32	Assessment of DE-71, a commercial polybrominated diphenyl ether (PBDE) mixture, in the EDSP male and female pubertal protocols. *Toxicological Sciences*, **2004**, 78, 144-55	4.4	207
31	Comparative responsiveness of hypothyroxinemia and hepatic enzyme induction in Long-Evans rats versus C57BL/6J mice exposed to TCDD-like and phenobarbital-like polychlorinated biphenyl congeners. *Toxicological Sciences*, **2002**, 68, 372-80	4.4	73
30	Perinatal exposure to Aroclor 1254 impairs distortion product otoacoustic emissions (DPOAEs) in rats. *Toxicological Sciences*, **2002**, 68, 458-64	4.4	47

29	Developmental exposure to brominated diphenyl ethers results in thyroid hormone disruption. *Toxicological Sciences*, **2002**, 66, 105-16	4.4	397
28	Spatial reversal learning in Aroclor 1254-exposed rats: sex-specific deficits in associative ability and inhibitory control. *Toxicology and Applied Pharmacology*, **2001**, 174, 188-98	4.6	80
27	Flash-, somatosensory-, and peripheral nerve-evoked potentials in rats perinatally exposed to Aroclor 1254. *Neurotoxicology and Teratology*, **2001**, 23, 591-601	3.9	11
26	Effects of short-term in vivo exposure to polybrominated diphenyl ethers on thyroid hormones and hepatic enzyme activities in weanling rats. *Toxicological Sciences*, **2001**, 61, 76-82	4.4	349
25	Methods to Identify and Characterize Developmental Neurotoxicity for Human Health Risk Assessment. I: Behavioral Effects. *Environmental Health Perspectives*, **2001**, 109, 79	8.4	17
24	Hearing loss following exposure during development to polychlorinated biphenyls: a cochlear site of action. *Hearing Research*, **2000**, 144, 196-204	3.9	76
23	Low-frequency hearing loss following perinatal exposure to 3,3Q4,4Q5-pentachlorobiphenyl (PCB 126) in rats. *Neurotoxicology and Teratology*, **1999**, 21, 299-301	3.9	35
22	Thyroxine replacement attenuates hypothyroxinemia, hearing loss, and motor deficits following developmental exposure to Aroclor 1254 in rats. *Toxicological Sciences*, **1998**, 45, 94-105	4.4	41
21	Thyroxine Replacement Attenuates Hypothyroxinemia, Hearing Loss, and Motor Deficits Following Developmental Exposure to Aroclor 1254 in Rats. *Toxicological Sciences*, **1998**, 45, 94-105	4.4	109
20	Trichloroethylene Ototoxicity: Evidence for a Cochlear Origin. *Toxicological Sciences*, **1998**, 42, 28-35	4.4	40
19	Setting Exposure Standards: A Decision Process. *Environmental Health Perspectives*, **1996**, 104, 401	8.4	2
18	Developmental Exposure to Aroclor 1254 Produces Low-Frequency Alterations in Adult Rat Brainstem Auditory Evoked Responses. *Toxicological Sciences*, **1996**, 33, 120-128	4.4	
17	Characterization of Olfactory Deficits in the Rat Following Administration of 2,6-Dichlorobenzonitrile (Dichlobenil), 3,3?-Iminodipropionitrile, or Methimazole. *Toxicological Sciences*, **1996**, 29, 71-77	4.4	1
16	Use of Biological Markers in the Quantitative Assessment of Neurotoxic Risk **1995**, 789-803		1
15	Developmental Neurotoxicity: Evaluation of Testing Procedures with Methylazoxymethanol and Methylmercury. *Toxicological Sciences*, **1994**, 23, 447-464	4.4	
14	Effects of 3,3Qminodipropionitrile on acquisition and performance of spatial tasks in rats. *Neurotoxicology and Teratology*, **1994**, 16, 583-91	3.9	10
13	Effects of toluene inhalation on detection of auditory signals in rats. *Neurotoxicology and Teratology*, **1994**, 16, 149-60	3.9	78
12	Solvent-induced ototoxicity in rats: an atypical selective mid-frequency hearing deficit. *Hearing Research*, **1994**, 80, 25-30	3.9	117

11	Developmental neurotoxicity: evaluation of testing procedures with methylazoxymethanol and methylmercury. *Fundamental and Applied Toxicology*, **1994**, 23, 447-64		43
10	The sensitivity to 3,3Ǫminodipropionitrile differs for high- and midfrequency hearing loss in the developing rat. *Hearing Research*, **1993**, 69, 221-8	3.9	19
9	Characterization of Disulfoton-Induced Behavioral and Neurochemical Effects Following Repeated Exposure. *Toxicological Sciences*, **1993**, 20, 163-169	4.4	1
8	Triadimefon, a triazole fungicide, induces stereotyped behavior and alters monoamine metabolism in rats. *Toxicology and Applied Pharmacology*, **1990**, 102, 474-85	4.6	38
7	Acute effects of amitraz on the acoustic startle response and motor activity. *Pest Management Science*, **1989**, 27, 1-11		3
6	The Effects of Type I and II Pyrethroids on Motor Activity and the Acoustic Startle Response in the Rat. *Toxicological Sciences*, **1988**, 10, 624-634	4.4	2
5	Pyrethroid insecticides and radioligand displacement from the GABA receptor chloride ionophore complex. *Toxicology Letters*, **1987**, 35, 183-90	4.4	26
4	Pyrethroid effects on schedule-controlled behavior: time and dosage relationships. *Neurotoxicology and Teratology*, **1987**, 9, 387-94	3.9	27
3	Postnatal evaluation of prenatal exposure to p-xylene in the rat. *Toxicology Letters*, **1986**, 34, 223-9	4.4	9
2	Effects of two pyrethroid insecticides on motor activity and the acoustic startle response in the rat. *Toxicology and Applied Pharmacology*, **1984**, 75, 318-28	4.6	68
1	Developmental neurotoxicity testing: recommendations for developing alternative methods for the screening and prioritization of chemicals. *ALTEX: Alternatives To Animal Experimentation*,9-15	4.3	43