

Nigel J Walker

List of Publications by Year in descending order

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99
papers

9,928
citations

94433

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40979

93
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102
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102
docs citations

102
times ranked

11280
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. <i>Toxicological Sciences</i> , 2006, 93, 223-241.	3.1	3,071
2	Safe handling of nanotechnology. <i>Nature</i> , 2006, 444, 267-269.	27.8	1,352
3	17 beta-estradiol hydroxylation catalyzed by human cytochrome P450 1B1.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 9776-9781.	7.1	555
4	Carcinogenicity of polychlorinated biphenyls and polybrominated biphenyls. <i>Lancet Oncology</i> , The, 2013, 14, 287-288.	10.7	355
5	Prevalence and sociodemographic correlates of antinuclear antibodies in the United States. <i>Arthritis and Rheumatism</i> , 2012, 64, 2319-2327.	6.7	338
6	A Technique Whose Time Has Come. <i>Science</i> , 2002, 296, 557-559.	12.6	291
7	Metabolism of benzo[a]pyrene and benzo[a]pyrene-7,8-diol by human cytochrome P450 1B1. <i>Carcinogenesis</i> , 1998, 19, 1847-1853.	2.8	245
8	Cerium Dioxide Nanoparticles Induce Apoptosis and Autophagy in Human Peripheral Blood Monocytes. <i>ACS Nano</i> , 2012, 6, 5820-5829.	14.6	203
9	Migration of Intradermally Injected Quantum Dots to Sentinel Organs in Mice. <i>Toxicological Sciences</i> , 2007, 98, 249-257.	3.1	156
10	The Safety and Regulation of Natural Products Used as Foods and Food Ingredients. <i>Toxicological Sciences</i> , 2011, 123, 333-348.	3.1	142
11	Isolation and characterization of a novel gene induced by 2, 3, 7, 8-tetrachlorodibenzo-p-dioxin in rat liver. <i>Carcinogenesis</i> , 1996, 17, 2609-2615.	2.8	115
12	Development of a Refined Database of Mammalian Relative Potency Estimates for Dioxin-like Compounds. <i>Toxicological Sciences</i> , 2006, 89, 4-30.	3.1	115
13	Dose-Additive Carcinogenicity of a Defined Mixture of "Dioxin-like Compounds". <i>Environmental Health Perspectives</i> , 2005, 113, 43-48.	6.0	110
14	Real-time and quantitative PCR: applications to mechanism-based toxicology. <i>Journal of Biochemical and Molecular Toxicology</i> , 2001, 15, 121-127.	3.0	107
15	Subchronic Exposure to TCDD, PeCDF, PCB126, and PCB153: Effect on Hepatic Gene Expression. <i>Environmental Health Perspectives</i> , 2004, 112, 1636-1644.	6.0	107
16	Differential Toxicogenomic Responses to 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Malignant and Nonmalignant Human Airway Epithelial Cells. <i>Toxicological Sciences</i> , 2002, 69, 409-423.	3.1	96
17	Rat CYP1B1: an adrenal cytochrome P450 that exhibits sex-dependent expression in livers and kidneys of TCDD-treated animals. <i>Carcinogenesis</i> , 1995, 16, 1319-1327.	2.8	94
18	Subchronic Exposure to TCDD, PeCDF, PCB126, and PCB153: Effect on Hepatic Gene Expression. <i>Environmental Health Perspectives</i> , 2004, 112, 1636-1644.	6.0	94

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19	Predicting the hepatocarcinogenic potential of alkenylbenzene flavoring agents using toxicogenomics and machine learning. <i>Toxicology and Applied Pharmacology</i> , 2010, 243, 300-314.	2.8	89
20	Characterization of the Dose-Response of CYP1B1, CYP1A1, and CYP1A2 in the Liver of Female Sprague-Dawley Rats Following Chronic Exposure to 2,3,7,8-Tetrachlorodibenzo-p-dioxin. <i>Toxicology and Applied Pharmacology</i> , 1999, 154, 279-286.	2.8	88
21	Quantitative Determination of Skin Penetration of PEG-Coated CdSe Quantum Dots in Dermabraded but not Intact SKH-1 Hairless Mouse Skin. <i>Toxicological Sciences</i> , 2009, 111, 37-48.	3.1	87
22	A new approach to synergize academic and guideline-compliant research: The CLARITY-BPA research program. <i>Reproductive Toxicology</i> , 2013, 40, 35-40.	2.9	84
23	NIEHS/FDA CLARITY-BPA research program update. <i>Reproductive Toxicology</i> , 2015, 58, 33-44.	2.9	84
24	A 21st Century Paradigm for Evaluating the Health Hazards of Nanoscale Materials?. <i>Toxicological Sciences</i> , 2009, 110, 251-254.	3.1	76
25	Mode of action and dose-response framework analysis for receptor-mediated toxicity: The aryl hydrocarbon receptor as a case study. <i>Critical Reviews in Toxicology</i> , 2014, 44, 83-119.	3.9	69
26	Evaluation of toxic equivalency factors for induction of cytochromes P450 CYP1A1 and CYP1A2 enzyme activity by dioxin-like compounds. <i>Toxicology and Applied Pharmacology</i> , 2004, 194, 156-168.	2.8	63
27	Increase in Cardiovascular Pathology in Female Sprague-Dawley Rats Following Chronic Treatment with 2,3,7,8-Tetrachlorodibenzo-p-Dioxin and 3,3',4,4',5-Pentachlorobiphenyl. <i>Cardiovascular Toxicology</i> , 2003, 3, 299-310.	2.7	61
28	From Immunotoxicity to Nanotherapy: The Effects of Nanomaterials on the Immune System. <i>Toxicological Sciences</i> , 2014, 138, 249-255.	3.1	58
29	Induction of Hepatic 8-Oxo-deoxyguanosine Adducts by 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Sprague-Dawley Rats Is Female-Specific and Estrogen-Dependent. <i>Chemical Research in Toxicology</i> , 2001, 14, 849-855.	3.3	50
30	Drug-Induced Expression of Nonsteroidal Anti-Inflammatory Drug-Activated Gene/Macrophage Inhibitory Cytokine-1/Prostate-Derived Factor, a Putative Tumor Suppressor, Inhibits Tumor Growth. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 899-906.	2.5	49
31	Incidences of Selected Lesions in Control Female Harlan Sprague-Dawley Rats from Two-Year Studies Performed by the National Toxicology Program. <i>Toxicologic Pathology</i> , 2005, 33, 477-483.	1.8	48
32	A Critical Comparison of Murine Pathology and Epidemiological Data of TCDD, PCB126, and PeCDF. <i>Toxicologic Pathology</i> , 2007, 35, 865-879.	1.8	46
33	Induction and localization of cytochrome P450 1B1 (CYP1B1) protein in the livers of TCDD-treated rats: detection using polyclonal antibodies raised to histidine-tagged fusion proteins produced and purified from bacteria. <i>Carcinogenesis</i> , 1998, 19, 395-402.	2.8	44
34	Low dose assessment of the carcinogenicity of furan in male F344/N Nctr rats in a 2-year gavage study. <i>Food and Chemical Toxicology</i> , 2017, 99, 170-181.	3.6	44
35	Naturally complex: Perspectives and challenges associated with Botanical Dietary Supplement Safety assessment. <i>Food and Chemical Toxicology</i> , 2018, 118, 963-971.	3.6	43
36	Gene Expression Alterations in Immune System Pathways in the Thymus after Exposure to Immunosuppressive Chemicals. <i>Environmental Health Perspectives</i> , 2011, 119, 371-376.	6.0	40

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37	Classification of Proliferative Hepatocellular Lesions in Harlan Spragueâ€Dawley Rats Chronically Exposed to Dioxin-Like Compounds. <i>Toxicologic Pathology</i> , 2005, 33, 165-174.	1.8	38
38	Characterizing sources of variability in zebrafish embryo screening protocols. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019, 36, 103-120.	1.5	38
39	Dose-dependent localization of TCDD in isolated centrilobular and periportal hepatocytes. <i>Toxicological Sciences</i> , 1999, 52, 9-19.	3.1	36
40	Screening for Developmental Neurotoxicity at the National Toxicology Program: The Future Is Here. <i>Toxicological Sciences</i> , 2019, 167, 6-14.	3.1	36
41	Repeated dose toxicity and relative potency of 1,2,3,4,6,7-hexachloronaphthalene (PCN 66) 1,2,3,5,6,7-hexachloronaphthalene (PCN 67) compared to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) for induction of CYP1A1, CYP1A2 and thymic atrophy in female Harlan Spragueâ€Dawley rats. <i>Toxicology</i> , 2012, 301, 85-93.	4.2	32
42	Gene Interaction Network Suggests Dioxin Induces a Significant Linkage between Aryl Hydrocarbon Receptor and Retinoic Acid Receptor Beta. <i>Environmental Health Perspectives</i> , 2004, 112, 1217-1224.	6.0	31
43	Accumulation of M1dG DNA adducts after chronic exposure to PCBs, but not from acute exposure to polychlorinated aromatic hydrocarbons. <i>Free Radical Biology and Medicine</i> , 2008, 45, 585-591.	2.9	30
44	Advancing human health risk assessment. <i>EFSA Journal</i> , 2019, 17, e170712.	1.8	30
45	Comparison of chronic toxicity and carcinogenicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in 2-year bioassays in female Sprague-Dawley rats. <i>Molecular Nutrition and Food Research</i> , 2006, 50, 934-944.	3.3	28
46	Associations Between Selected Xenobiotics and Antinuclear Antibodies in the National Health and Nutrition Examination Survey, 1999â€2004. <i>Environmental Health Perspectives</i> , 2016, 124, 426-436.	6.0	27
47	Expanding the Concept of Translational Research: Making a Place for Environmental Health Sciences. <i>Environmental Health Perspectives</i> , 2018, 126, 074501.	6.0	27
48	Physiological modeling of a proposed mechanism of enzyme induction by TCDD. <i>Toxicology</i> , 2001, 162, 193-208.	4.2	26
49	Gingival Carcinogenicity in Female Harlan Sprague-Dawley Rats following Two-Year Oral Treatment with 2,3,7,8-Tetrachlorodibenzo-p-dioxin and Dioxin-Like Compounds. <i>Toxicological Sciences</i> , 2004, 83, 64-77.	3.1	26
50	Mixtures research at NIEHS: An evolving program. <i>Toxicology</i> , 2013, 313, 94-102.	4.2	26
51	Exocrine pancreatic pathology in female Harlan Sprague-Dawley rats after chronic treatment with 2,3,7,8-tetrachlorodibenzo-p-dioxin and dioxin-like compounds. <i>Environmental Health Perspectives</i> , 2004, 112, 903-909.	6.0	24
52	Respiratory Tract Lesions in Noninhalation Studies. <i>Toxicologic Pathology</i> , 2007, 35, 170-177.	1.8	23
53	Respiratory toxicity and immunotoxicity evaluations of microparticle and nanoparticle C60 fullerene aggregates in mice and rats following nose-only inhalation for 13 weeks. <i>Nanotoxicology</i> , 2016, 10, 1458-1468.	3.0	23
54	Induction of Lung Lesions in Female Rats Following Chronic Exposure to 2,3,7,8-Tetrachlorodibenzo-p-dioxin. <i>Toxicologic Pathology</i> , 2000, 28, 761-769.	1.8	22

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55	Reproductive Lesions in Female Harlan Sprague-Dawley Rats Following Two-Year Oral Treatment with Dioxin and Dioxin-like Compounds. <i>Toxicologic Pathology</i> , 2009, 37, 921-937.	1.8	22
56	<i>Aloe vera</i> Non-Decolorized Whole Leaf Extract-Induced Large Intestinal Tumors in F344 Rats Share Similar Molecular Pathways with Human Sporadic Colorectal Tumors. <i>Toxicologic Pathology</i> , 2011, 39, 1065-1074.	1.8	22
57	EGR1 Is a Novel Target for AhR Agonists in Human Lung Epithelial Cells. <i>Toxicological Sciences</i> , 2004, 82, 429-435.	3.1	21
58	The Putative Tumor Suppressor Tsc-22 is Downregulated Early in Chemically Induced Hepatocarcinogenesis and may be a Suppressor of Gadd45b. <i>Toxicological Sciences</i> , 2007, 99, 43-50.	3.1	21
59	Cerium dioxide nanoparticles do not modulate the lipopolysaccharide-induced inflammatory response in human monocytes. <i>International Journal of Nanomedicine</i> , 2012, 7, 1387.	6.7	21
60	Regulation of 2,3,7,8-Tetrachlorodibenzo-p-dioxin-Induced Tumor Promotion by 17 β -Estradiol in Female Sprague-Dawley Rats. <i>Toxicology and Applied Pharmacology</i> , 2001, 173, 7-17.	2.8	19
61	Absolute estimation of initial concentrations of amplicon in a real-time RT-PCR process. <i>BMC Bioinformatics</i> , 2007, 8, 409.	2.6	19
62	Mechanisms of Exocrine Pancreatic Toxicity Induced by Oral Treatment with 2,3,7,8-Tetrachlorodibenzo-p-Dioxin in Female Harlan Sprague-Dawley Rats. <i>Toxicological Sciences</i> , 2005, 85, 594-606.	3.1	18
63	Nanotoxicology: "the end of the beginning" Signs on the roadmap to a strategy for assuring the safe application and use of nanomaterials. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2011, 28, 236-241.	1.5	18
64	Animal Models of Human Response to Dioxins. <i>Environmental Health Perspectives</i> , 1998, 106, 761.	6.0	17
65	Differences in kinetics of induction and reversibility of TCDD-induced changes in cell proliferation and CYP1A1 expression in female Sprague-Dawley rat liver. <i>Carcinogenesis</i> , 1998, 19, 1427-1435.	2.8	16
66	Effects of TCDD upon I β B and IKK subunits localized in microsomes by proteomics. <i>Archives of Biochemistry and Biophysics</i> , 2002, 406, 153-164.	3.0	16
67	Characterization of Bronchiolar Metaplasia of the Alveolar Epithelium in Female Sprague-Dawley Rats Exposed to 3,3',4,4',5-Pentachlorobiphenyl (PCB126). <i>Toxicologic Pathology</i> , 2004, 32, 333-337.	1.8	16
68	Olfactory Epithelial Metaplasia and Hyperplasia in Female Harlan Sprague-Dawley Rats Following Chronic Treatment with Polychlorinated Biphenyls. <i>Toxicologic Pathology</i> , 2005, 33, 371-377.	1.8	15
69	Dioxin (2,3,7,8-tetrachlorodibenzo-p-dioxin) Enhances Triggered Afterdepolarizations in Rat Ventricular Myocytes. <i>Cardiovascular Toxicology</i> , 2006, 6, 99-110.	2.7	15
70	Polychlorinated Biphenyls Induce Oxidative DNA Adducts in Female Sprague-Dawley Rats. <i>Chemical Research in Toxicology</i> , 2016, 29, 1335-1344.	3.3	15
71	Using Tox21 High-Throughput Screening Assays for the Evaluation of Botanical and Dietary Supplements. <i>Applied in Vitro Toxicology</i> , 2019, 5, 10-25.	1.1	15
72	Hepatocarcinogenesis in Female Sprague-Dawley Rats following Discontinuous Treatment with 2,3,7,8-Tetrachlorodibenzo-p-dioxin. <i>Toxicological Sciences</i> , 2000, 54, 330-337.	3.1	14

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73	ONE Nano: NIEHS's Strategic Initiative on the Health and Safety Effects of Engineered Nanomaterials. <i>Environmental Health Perspectives</i> , 2013, 121, 410-414.	6.0	14
74	Relative Potency for Altered Humoral Immunity Induced by Polybrominated and Polychlorinated Dioxins/Furans in Female B6C3F1/N Mice. <i>Toxicological Sciences</i> , 2014, 139, 488-500.	3.1	14
75	Inhalation exposure to multi-walled carbon nanotubes alters the pulmonary allergic response of mice to house dust mite allergen. <i>Inhalation Toxicology</i> , 2019, 31, 192-202.	1.6	14
76	Impact of Physiologically Based Pharmacokinetic Modeling on Benchmark Dose Calculations for TCDD-Induced Biochemical Responses. <i>Regulatory Toxicology and Pharmacology</i> , 2002, 36, 287-296.	2.7	13
77	Follicular Epithelial Cell Hypertrophy Induced by Chronic Oral Administration of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin in Female Harlan Sprague-Dawley Rats. <i>Toxicologic Pathology</i> , 2004, 32, 41-49.	1.8	12
78	Getting to the Root of the Matter: Challenges and Recommendations for Assessing the Safety of Botanical Dietary Supplements. <i>Clinical Pharmacology and Therapeutics</i> , 2018, 104, 429-431.	4.7	12
79	Promotion of Altered Hepatic Foci by 2,3,7,8-Tetrachlorodibenzo-p-dioxin and 17beta-estradiol in Male Sprague-Dawley Rats. <i>Toxicological Sciences</i> , 2002, 68, 295-303.	3.1	11
80	Pulmonary Lesions in Female Harlan Sprague-Dawley Rats Following Two-Year Oral Treatment with Dioxin-Like Compounds. <i>Toxicologic Pathology</i> , 2007, 35, 880-889.	1.8	11
81	Toxicity of Chronic Exposure to 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Diethylnitrosamine-Initiated Ovariectomized Rats Implanted with Subcutaneous 17 beta-Estradiol Pellets. <i>Toxicological Sciences</i> , 2000, 54, 493-499.	3.1	10
82	Oral and Dermal Exposure to 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) Induces Cutaneous Papillomas and Squamous Cell Carcinomas in Female Hemizygous Tg.AC Transgenic Mice. <i>Toxicological Sciences</i> , 2004, 82, 34-45.	3.1	10
83	Lung deposition and clearance of microparticle and nanoparticle C60 fullerene aggregates in B6C3F1 mice and Wistar Han rats following nose-only inhalation for 13 weeks. <i>Toxicology</i> , 2016, 339, 87-96.	4.2	10
84	Thyroid Follicular Lesions Induced by Oral Treatment for 2 Years with 2,3,7,8-Tetrachlorodibenzo-p-dioxin and Dioxin-like Compounds in Female Harlan Sprague-Dawley Rats. <i>Toxicologic Pathology</i> , 2010, 38, 1037-1050.	1.8	9
85	Endotoxin (Lipopolysaccharide)-Induced Nitric Oxide Production in 2,3,7,8-Tetrachlorodibenzo-p-dioxin-Treated Fischer Rats: Detection of Nitrosyl Hemoproteins by EPR Spectroscopy. <i>Chemical Research in Toxicology</i> , 2000, 13, 1051-1055.	3.3	8
86	Unraveling the Complexities of the Mechanism of Action of Dioxins. <i>Toxicological Sciences</i> , 2006, 95, 297-299.	3.1	8
87	Area under the curve as a dose metric for promotional responses following 2,3,7,8-tetrachlorodibenzo-p-dioxin exposure. <i>Toxicology and Applied Pharmacology</i> , 2003, 191, 12-21.	2.8	6
88	Complexities in Understanding the Nature of the Dose-Response for Dioxins and Related Compounds. <i>Dose-Response</i> , 2005, 3, dose-response.0.	1.6	6
89	Development of a consensus approach for botanical safety evaluation – A roundtable report. <i>Toxicology Letters</i> , 2019, 314, 10-17.	0.8	6
90	Toxicology of Dioxins and Dioxinlike Compounds. , 2005, , 137-157.		5

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91	DNA Product Formation in Female Spragueâ€Dawley Rats Following Polyhalogenated Aromatic Hydrocarbon (PHAH) Exposure. <i>Chemical Research in Toxicology</i> , 2017, 30, 794-803.	3.3	5
92	Disposition of fullerene C60 in rats following intratracheal or intravenous administration. <i>Xenobiotica</i> , 2019, 49, 1078-1085.	1.1	5
93	Characterization of an assortment of commercially available multiwalled carbon nanotubes. <i>Mikrochimica Acta</i> , 2014, 181, 171-179.	5.0	4
94	Experimental Toxicology: Carcinogenesis. , 2005, , 457-490.		1
95	Erratum to â€Nano Risk Analysis: Advancing the Science for Nanomaterials Risk Managementâ€by Jo Anne Shatkin, Linda Carolyn Abbott, Ann E. Bradley, Richard Alan Canady, Tee Guidotti, Kristen M. Kulinowski, Ragnar E. LÃƒfstedt, Garrick Louis, Margaret MacDon. <i>Risk Analysis</i> , 2011, 31, 184-184.	2.7	1
96	Receptor Mediated Toxicity: The Dioxin Receptor as an Example of Biological Complexity and Experimental Approaches. , 1995, , 21-35.		1
97	Real-Time and Quantitative PCR. , 2005, , 147-163.		0
98	Dose-Response Modeling for 2,3,7,8-Tetrachlorodibenzo-p-Dioxin. , 2005, , 247-298.		0
99	New approaches addressing the challenge of evaluating safety of botanical dietary supplements. <i>Toxicology Letters</i> , 2017, 280, S40-S41.	0.8	0