

Larry W Robertson

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.

108
papers

3,762
citations

37
h-index

57
g-index

111
ext. papers

4,017
ext. citations

5.3
avg, IF

5.11
L-index

#	Paper	IF	Citations
108	Carcinogenicity of polyhalogenated biphenyls: PCBs and PBBs. <i>Critical Reviews in Toxicology</i> , 1990 , 20, 440-96	5.7	247
107	Metabolism and metabolites of polychlorinated biphenyls. <i>Critical Reviews in Toxicology</i> , 2015 , 45, 245-73	3.7	237
106	Identification of catechol and hydroquinone metabolites of 4-monochlorobiphenyl. <i>Chemical Research in Toxicology</i> , 1996 , 9, 158-64	4	129
105	Metabolic activation of PCBs to quinones: reactivity toward nitrogen and sulfur nucleophiles and influence of superoxide dismutase. <i>Chemical Research in Toxicology</i> , 1996 , 9, 623-9	4	124
104	Effects of selected polychlorinated biphenyl (PCB) congeners on hepatic glutathione, glutathione-related enzymes, and selenium status: implications for oxidative stress. <i>Biochemical Pharmacology</i> , 2001 , 62, 273-81	6	83
103	PCB-induced oxidative stress in endothelial cells: modulation by nutrients. <i>International Journal of Hygiene and Environmental Health</i> , 2002 , 205, 95-102	6.9	82
102	Differential potency of atropisomers of polychlorinated biphenyls on cytochrome P450 induction and uroporphyrin accumulation in the chick embryo hepatocyte culture. <i>Biochemical Pharmacology</i> , 1991 , 41, 915-22	6	81
101	Toxicity of hydroxylated and quinoid PCB metabolites: inhibition of gap junctional intercellular communication and activation of aryl hydrocarbon and estrogen receptors in hepatic and mammary cells. <i>Chemical Research in Toxicology</i> , 2004 , 17, 340-7	4	79
100	Sulfated metabolites of polychlorinated biphenyls are high-affinity ligands for the thyroid hormone transport protein transthyretin. <i>Environmental Health Perspectives</i> , 2013 , 121, 657-62	8.4	73
99	Enantiomeric specificity of (-)-2,2,3,3,6,6-hexachlorobiphenyl toward ryanodine receptor types 1 and 2. <i>Chemical Research in Toxicology</i> , 2009 , 22, 201-7	4	71
98	Hydroxylated polychlorinated biphenyls are substrates and inhibitors of human hydroxysteroid sulfotransferase SULT2A1. <i>Chemical Research in Toxicology</i> , 2006 , 19, 1420-5	4	68
97	Analysis of polychlorinated biphenyl-DNA adducts by 32P-postlabeling. <i>Carcinogenesis</i> , 1996 , 17, 109-14	4.6	68
96	Glucuronidation of hydroxylated polychlorinated biphenyls (PCBs). <i>Chemical Research in Toxicology</i> , 2002 , 15, 1259-66	4	67
95	Research recommendations for selected IARC-classified agents. <i>Environmental Health Perspectives</i> , 2010 , 118, 1355-62	8.4	64
94	Detection of PCB adducts by the 32P-postlabeling technique. <i>Chemical Research in Toxicology</i> , 1996 , 9, 165-71	4	63
93	Metabolic Activation of PCBs to Carcinogens in Vivo - A Review. <i>Environmental Toxicology and Pharmacology</i> , 2008 , 25, 241-6	5.8	62
92	Effects of PCB 84 enantiomers on [3H]-phorbol ester binding in rat cerebellar granule cells and 45Ca ²⁺ -uptake in rat cerebellum. <i>Toxicology Letters</i> , 2005 , 156, 391-400	4.4	62

91	Polychlorinated biphenyls as initiators in liver carcinogenesis: resistant hepatocyte model. <i>Toxicology and Applied Pharmacology</i> , 2003 , 186, 55-62	4.6	61
90	Chlorination increases the persistence of semiquinone free radicals derived from polychlorinated biphenyl hydroquinones and quinones. <i>Journal of Organic Chemistry</i> , 2008 , 73, 8296-304	4.2	60
89	Synthesis of hydroxylated PCB metabolites with the Suzuki-coupling. <i>Chemosphere</i> , 2001 , 45, 1119-27	8.4	60
88	PCB126-Induced Disruption in Gluconeogenesis and Fatty Acid Oxidation Precedes Fatty Liver in Male Rats. <i>Toxicological Sciences</i> , 2016 , 149, 98-110	4.4	57
87	Enantioselective disposition of PCB 136 (2,2,3,3,4,6,6-hexachlorobiphenyl) in C57BL/6 mice after oral and intraperitoneal administration. <i>Chirality</i> , 2007 , 19, 56-66	2.1	57
86	Identification of sulfated metabolites of 4-chlorobiphenyl (PCB3) in the serum and urine of male rats. <i>Chemical Research in Toxicology</i> , 2012 , 25, 2796-804	4	56
85	Polychlorinated biphenyls (PCBs) as initiating agents in hepatocellular carcinoma. <i>Cancer Letters</i> , 2013 , 334, 46-55	9.9	54
84	Acute toxicity of 3,3',4,4',5-pentachlorobiphenyl (PCB 126) in male Sprague-Dawley rats: effects on hepatic oxidative stress, glutathione and metals status. <i>Environment International</i> , 2010 , 36, 918-23	12.9	54
83	Receptor interactions by polybrominated diphenyl ethers versus polychlorinated biphenyls: a theoretical Structure-activity assessment. <i>Environmental Toxicology and Pharmacology</i> , 2008 , 25, 202-10	5.8	54
82	Synthesis of polychlorinated biphenyls (PCBs) using the Suzuki-coupling. <i>Chemosphere</i> , 2001 , 45, 137-43	8.4	54
81	Polychlorinated biphenyl quinone metabolites poison human topoisomerase IIalpha: altering enzyme function by blocking the N-terminal protein gate. <i>Biochemistry</i> , 2006 , 45, 10140-52	3.2	53
80	Redox cycling of 2-(p-chlorophenyl)-1,4-benzoquinones, oxidation products of polychlorinated biphenyls. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 376, 449-55	4.1	53
79	A new strategy for the synthesis of polychlorinated biphenyl metabolites. <i>Chemical Research in Toxicology</i> , 1995 , 8, 92-5	4	47
78	PCBs and PBBs: biologic and toxic effects on C57BL/6J and DBA/2J inbred mice. <i>Toxicology</i> , 1984 , 31, 191-206	4.4	47
77	4-monochlorobiphenyl (PCB3) induces mutations in the livers of transgenic Fisher 344 rats. <i>Carcinogenesis</i> , 2007 , 28, 471-8	4.6	45
76	Effects of polychlorinated biphenyls on cytochrome P450 induction in the chick embryo hepatocyte culture. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 275, 252-62	4.1	44
75	Structure-activity relationships for hydroxylated polychlorinated biphenyls as inhibitors of the sulfation of dehydroepiandrosterone catalyzed by human hydroxysteroid sulfotransferase SULT2A1. <i>Chemical Research in Toxicology</i> , 2011 , 24, 1720-8	4	42
74	Sources and toxicities of phenolic polychlorinated biphenyls (OH-PCBs). <i>Environmental Science and Pollution Research</i> , 2018 , 25, 16277-16290	5.1	41

73	Polychlorobiphenyls are selective inhibitors of human phenol sulfotransferase 1A1 with 4-nitrophenol as a substrate. <i>Chemico-Biological Interactions</i> , 2006 , 159, 235-46	5	39
72	A new player in environmentally induced oxidative stress: polychlorinated biphenyl congener, 3,3-dichlorobiphenyl (PCB11). <i>Toxicological Sciences</i> , 2013 , 136, 39-50	4-4	37
71	Initiating activity of 4-chlorobiphenyl metabolites in the resistant hepatocyte model. <i>Toxicological Sciences</i> , 2004 , 79, 41-6	4-4	37
70	Disposition of phenolic and sulfated metabolites after inhalation exposure to 4-chlorobiphenyl (PCB3) in female rats. <i>Chemical Research in Toxicology</i> , 2014 , 27, 1411-20	4	35
69	N-acetylcysteine (NAC) diminishes the severity of PCB 126-induced fatty liver in male rodents. <i>Toxicology</i> , 2012 , 302, 25-33	4-4	35
68	Structure-activity relationships for hydroxylated polychlorinated biphenyls as substrates and inhibitors of rat sulfotransferases and modification of these relationships by changes in thiol status. <i>Drug Metabolism and Disposition</i> , 2009 , 37, 1065-72	4	33
67	Quinoid metabolites of 4-monochlorobiphenyl induce gene mutations in cultured Chinese hamster v79 cells. <i>Toxicological Sciences</i> , 2007 , 100, 88-98	4-4	32
66	Tissue Distribution, Metabolism, and Excretion of 3,3-dichloro-4-sulfoxy-biphenyl in the Rat. <i>Environmental Science & Technology</i> , 2015 , 49, 8087-95	10-3	31
65	An efficient approach to sulfate metabolites of polychlorinated biphenyls. <i>Environment International</i> , 2010 , 36, 843-8	12-9	31
64	Comparison of the actions of 4-chlorobiphenyl and its hydroxylated metabolites on estradiol secretion by ovarian follicles in primary cells in culture. <i>Reproductive Toxicology</i> , 2005 , 20, 57-64	3-4	31
63	Polychlorinated Biphenyl (PCB) carcinogenicity with special emphasis on airborne PCBs. <i>Gefahrstoffe Reinhaltung Der Luft</i> , 2011 , 71, 25-32	1-1	31
62	PCB126 inhibits adipogenesis of human preadipocytes. <i>Toxicology in Vitro</i> , 2015 , 29, 132-41	3-6	30
61	Distribution and macromolecular binding of benzo[a]pyrene and two polychlorinated biphenyl congeners in female mice. <i>Chemico-Biological Interactions</i> , 2001 , 137, 243-58	5	29
60	Identification of a sulfate metabolite of PCB 11 in human serum. <i>Environment International</i> , 2017 , 98, 120-128	12-9	27
59	Dietary selenium as a modulator of PCB 126-induced hepatotoxicity in male Sprague-Dawley rats. <i>Toxicological Sciences</i> , 2011 , 124, 202-14	4-4	27
58	Role of oxidative stress in the promoting activities of PCBs. <i>Environmental Toxicology and Pharmacology</i> , 2008 , 25, 247-50	5-8	27
57	DNA adduction by polychlorinated biphenyls: adducts derived from hepatic microsomal activation and from synthetic metabolites. <i>Chemico-Biological Interactions</i> , 2002 , 139, 129-44	5	25
56	Effect of the peroxisome proliferator perfluorodecanoic acid on the promotion of two-stage hepatocarcinogenesis in rats. <i>Cancer Letters</i> , 1993 , 72, 111-20	9-9	24

55	Biological and tumor-promoting effects of dioxin-like and non-dioxin-like polychlorinated biphenyls in mouse liver after single or combined treatment. <i>Toxicological Sciences</i> , 2013 , 133, 29-41	4.4	23
54	Sulfation of Lower Chlorinated Polychlorinated Biphenyls Increases Their Affinity for the Major Drug-Binding Sites of Human Serum Albumin. <i>Environmental Science & Technology</i> , 2016 , 50, 5320-7 ^{10.3}		23
53	Enantiomeric enrichment of 2,2,3,3,6,6-hexachlorobiphenyl (PCB 136) in mice after induction of CYP enzymes. <i>Archives of Environmental Contamination and Toxicology</i> , 2008 , 55, 510-7	3.2	22
52	Synthesis of polychlorinated biphenyls and their metabolites with a modified Suzuki-coupling. <i>Chemosphere</i> , 2004 , 56, 735-44	8.4	22
51	Relationship between liquid and gas chromatographic retention behavior and calculated molecular surface area of selected polyhalogenated biphenyls. <i>Journal of Agricultural and Food Chemistry</i> , 1988 , 36, 961-965	5.7	22
50	Glucuronidation of polychlorinated biphenyls and UDP-glucuronic acid concentrations in channel catfish liver and intestine. <i>Drug Metabolism and Disposition</i> , 2008 , 36, 623-30	4	21
49	Sulfate conjugates are urinary markers of inhalation exposure to 4-chlorobiphenyl (PCB3). <i>Chemical Research in Toxicology</i> , 2013 , 26, 853-5	4	20
48	Protective effects of selenium against DNA adduct formation in Inuit environmentally exposed to PCBs. <i>Environment International</i> , 2010 , 36, 980-6	12.9	20
47	Enantiomers of Polychlorinated Biphenyls Semipreparative Enrichment by Liquid Chromatography. <i>Liebigs Annalen Der Chemie</i> , 1985 , 1985, 2101-2103		19
46	Effects of two prototypic polychlorinated biphenyls (PCBs) on lipid composition of rat liver and serum. <i>Journal of Nutritional Biochemistry</i> , 1990 , 1, 350-4	6.3	18
45	Hydroxylated and sulfated metabolites of commonly observed airborne polychlorinated biphenyls display selective uptake and toxicity in N27, SH-SY5Y, and HepG2 cells. <i>Environmental Toxicology and Pharmacology</i> , 2018 , 62, 69-78	5.8	18
44	Oxidation of 4-chlorobiphenyl metabolites to electrophilic species by prostaglandin H synthase. <i>Chemical Research in Toxicology</i> , 2009 , 22, 64-71	4	17
43	PCB126 Inhibits the Activation of AMPK-CREB Signal Transduction Required for Energy Sensing in Liver. <i>Toxicological Sciences</i> , 2018 , 163, 440-453	4.4	15
42	Does dietary copper supplementation enhance or diminish PCB126 toxicity in the rodent liver?. <i>Chemical Research in Toxicology</i> , 2013 , 26, 634-44	4	15
41	Investigation of mechanism(s) of DNA damage induced by 4-monochlorobiphenyl (PCB3) metabolites. <i>Environment International</i> , 2010 , 36, 950-61	12.9	15
40	Cardiovascular Effects of Polychlorinated Biphenyls and Their Major Metabolites. <i>Environmental Health Perspectives</i> , 2020 , 128, 77008	8.4	15
39	Authentication of synthetic environmental contaminants and their (bio)transformation products in toxicology: polychlorinated biphenyls as an example. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 16508-16521	5.1	14
38	A unique approach to the synthesis of 2,3,4,5-substituted polybrominated biphenyls: quantitation in FireMaster FF-1 and FireMaster BP-6. <i>Journal of Agricultural and Food Chemistry</i> , 1989 , 37, 1160-1164	5.7	14

37	Species difference in the regulation of cytochrome P450 2S1: lack of induction in rats by the aryl hydrocarbon receptor agonist PCB126. <i>Xenobiotica</i> , 2011 , 41, 1031-43	2	13
36	Binding of polychlorinated biphenyls/metabolites to hemoglobin. <i>Toxicology Letters</i> , 2003 , 142, 53-60	4.4	13
35	Biotransformation of cannabinoids by <i>Syncephalastrum racemosum</i> . <i>Biological Mass Spectrometry</i> , 1975 , 2, 266-271		13
34	Hydroxylated and sulfated metabolites of commonly occurring airborne polychlorinated biphenyls inhibit human steroid sulfotransferases SULT1E1 and SULT2A1. <i>Environmental Toxicology and Pharmacology</i> , 2018 , 58, 196-201	5.8	12
33	Toxicity assessment of air-delivered particle-bound polybrominated diphenyl ethers. <i>Toxicology</i> , 2014 , 317, 31-9	4.4	12
32	Dietary antioxidants (selenium and N-acetylcysteine) modulate paraoxonase 1 (PON1) in PCB 126-exposed rats. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 6384-99	5.1	12
31	Physicochemical properties of hydroxylated polychlorinated biphenyls aid in predicting their interactions with rat sulfotransferase 1A1 (rSULT1A1). <i>Chemico-Biological Interactions</i> , 2011 , 189, 153-60 ⁵		12
30	Effect of dietary selenium on the promotion of hepatocarcinogenesis by 3,3',4,4'-tetrachlorobiphenyl and 2,2',4,4',5,5'-hexachlorobiphenyl. <i>Experimental Biology and Medicine</i> , 2008 , 233, 366-76	3.7	12
29	Polychlorinated biphenyls target Notch/Dll and VEGF R2 in the mouse placenta and human trophoblast cell lines for their anti-angiogenic effects. <i>Scientific Reports</i> , 2017 , 7, 39885	4.9	11
28	A delayed proinflammatory response of human preadipocytes to PCB126 is dependent on the aryl hydrocarbon receptor. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 16481-16492	5.1	11
27	Suppression of peroxisomal enzyme activities and cytochrome P450 4A isozyme expression by congeneric polybrominated and polychlorinated biphenyls. <i>PPAR Research</i> , 2007 , 2007, 15481	4.3	10
26	Chlorinated biphenyl quinones and phenyl-2,5-benzoquinone differentially modify the catalytic activity of human hydroxysteroid sulfotransferase hSULT2A1. <i>Chemical Research in Toxicology</i> , 2013 , 26, 1474-85	4	9
25	Binding interactions of hydroxylated polychlorinated biphenyls (OHPCBs) with human hydroxysteroid sulfotransferase hSULT2A1. <i>Chemico-Biological Interactions</i> , 2014 , 212, 56-64	5	8
24	Modulating inhibitors of transthyretin fibrillogenesis via sulfation: polychlorinated biphenyl sulfates as models. <i>Chemico-Biological Interactions</i> , 2015 , 228, 1-8	5	8
23	Laser desorption/fourier transform ion cyclotron resonance mass spectrometry: digoxin, digitoxin, and their reduced and sugar-hydrolyzed metabolites. <i>Biomedical & Environmental Mass Spectrometry</i> , 1988 , 15, 295-302		8
22	Diminished Phosphorylation of CREB Is a Key Event in the Dysregulation of Gluconeogenesis and Glycogenolysis in PCB126 Hepatotoxicity. <i>Chemical Research in Toxicology</i> , 2016 , 29, 1504-9	4	8
21	3,3',4,4',5-Pentachlorobiphenyl (PCB 126) Decreases Hepatic and Systemic Ratios of Epoxide to Diol Metabolites of Unsaturated Fatty Acids in Male Rats. <i>Toxicological Sciences</i> , 2016 , 152, 309-22	4.4	7
20	Dietary Manganese Modulates PCB126 Toxicity, Metal Status, and MnSOD in the Rat. <i>Toxicological Sciences</i> , 2016 , 150, 15-26	4.4	7

19	Skeletal Toxicity of Coplanar Polychlorinated Biphenyl Congener 126 in the Rat Is Aryl Hydrocarbon Receptor Dependent. <i>Toxicological Sciences</i> , 2020 , 175, 113-125	4.4	6
18	Improved syntheses of non-dioxin-like polychlorinated biphenyls (PCBs) and some of their sulfur-containing metabolites. <i>Environment International</i> , 2010 , 36, 828-34	12.9	6
17	Tumor promoting potency of PCBs 28 and 101 in rat liver. <i>Toxicology Letters</i> , 2006 , 164, 133-43	4.4	6
16	Microbial biotransformation of retinoic acid by <i>Cunninghamella echinulata</i> and <i>Cunninghamella blakesleeana</i> . <i>Pharmaceutical Research</i> , 1990 , 7, 270-3	4.5	6
15	Cytochrome c adducts with PCB quinoid metabolites. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 2148-59	5.1	5
14	Innovative application of fluoro tagging to trace airborne particulate and gas-phase polybrominated diphenyl ether exposures. <i>Chemical Research in Toxicology</i> , 2009 , 22, 179-86	4	5
13	Skeletal toxicity resulting from exposure of growing male rats to coplanar PCB 126 is associated with disruption of calcium homeostasis and the GH-IGF-1 axis and direct effects on bone formation. <i>Archives of Toxicology</i> , 2020 , 94, 389-399	5.8	5
12	Sustained expression of CYPs and DNA adduct accumulation with continuous exposure to PCB126 and PCB153 through a new delivery method: Polymeric implants. <i>Toxicology Reports</i> , 2014 , 1, 820-833	4.8	4
11	Crystal structure and density functional theory studies of toxic quinone metabolites of polychlorinated biphenyls. <i>Chemosphere</i> , 2011 , 85, 386-92	8.4	4
10	PCB126 blocks the thermogenic beiging response of adipocytes. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 8897-8904	5.1	4
9	The Aryl hydrocarbon receptor mediates reproductive toxicity of polychlorinated biphenyl congener 126 in rats. <i>Toxicology and Applied Pharmacology</i> , 2021 , 426, 115639	4.6	4
8	Spatial distribution of metals within the liver acinus and their perturbation by PCB126. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 16427-16433	5.1	3
7	Assessment of the Mitigative Capacity of Dietary Zinc on PCB126 Hepatotoxicity and the Contribution of Zinc to Toxicity. <i>Chemical Research in Toxicology</i> , 2016 , 29, 851-9	4	2
6	Human hepatic microsomal sulfatase catalyzes the hydrolysis of polychlorinated biphenyl sulfates: A potential mechanism for retention of hydroxylated PCBs. <i>Environmental Toxicology and Pharmacology</i> , 2021 , 88, 103757	5.8	1
5	Carcinogenicity and Mechanisms of Persistent Organic Pollutants		1
4	PCB126 Induced Toxic Actions on Liver Energy Metabolism is Mediated by AhR in Rats. <i>Toxicology</i> , 2021 , 153054	4.4	0
3	Transcriptome sequencing of 3,3',4,4',5-Pentachlorobiphenyl (PCB126)-treated human preadipocytes demonstrates progressive changes in pathways associated with inflammation and diabetes.. <i>Toxicology in Vitro</i> , 2022 , 105396	3.6	0
2	The effects of 3,3',4,4'-tetrabromobiphenyl on rats fed diets containing a constant level of copper and varying levels of molybdenum. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 6400-9	5.1	

- 1 Hydroxylated Metabolites of Common Airborne Polychlorinated Biphenyls and Their Potential for Disrupting Estrogen Homeostasis and Adipogenesis. *FASEB Journal*, **2018**, 32, 605.8 0.9