

Larry W Robertson

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Metabolism and metabolites of polychlorinated biphenyls. <i>Critical Reviews in Toxicology</i> , 2015, 45, 245-272.	3.9	321
2	Critical Reviews in: Carcinogenicity of Polyhalogenated Biphenyls: PCBs and PBBs. <i>Critical Reviews in Toxicology</i> , 1990, 20, 440-496.	3.9	296
3	Identification of Catechol and Hydroquinone Metabolites of 4-Monochlorobiphenyl. <i>Chemical Research in Toxicology</i> , 1996, 9, 158-164.	3.3	141
4	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, 623-629.	3.3	139
5	Effects of selected polychlorinated biphenyl (PCB) congeners on hepatic glutathione, glutathione-related enzymes, and selenium status: implications for oxidative stress†††Contents reflect the views of the authors and do not represent any official view(s) of NIEHS, EPA, or DOD.†Abbreviations: PCBs, polychlorinated biphenyls; GST, glutathione transferase; GPX, glutathione peroxidase; SeGPX, selenium-dependent glutathione peroxidase; GR, glutathione reductase; MOPS, 3-[N-morpholino]propane sulfonic acid buffer. <i>Biochemical Pharmacology</i> , 2001, 62, 273-281.	4.4	94
6	PCB-induced oxidative stress in endothelial cells: modulation by nutrients. <i>International Journal of Hygiene and Environmental Health</i> , 2002, 205, 95-102.	4.3	94
7	Sulfated Metabolites of Polychlorinated Biphenyls Are High-Affinity Ligands for the Thyroid Hormone Transport Protein Transthyretin. <i>Environmental Health Perspectives</i> , 2013, 121, 657-662.	6.0	92
8	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, 915-922.	4.4	84
9	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, 340-347.	3.3	83
10	Metabolic activation of PCBs to carcinogens in vivo†A review. <i>Environmental Toxicology and Pharmacology</i> , 2008, 25, 241-246.	4.0	80
11	Hydroxylated Polychlorinated Biphenyls Are Substrates and Inhibitors of Human Hydroxysteroid Sulfotransferase SULT2A1. <i>Chemical Research in Toxicology</i> , 2006, 19, 1420-1425.	3.3	78
12	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, 201-207.	3.3	77
13	Glucuronidation of Hydroxylated Polychlorinated Biphenyls (PCBs). <i>Chemical Research in Toxicology</i> , 2002, 15, 1259-1266.	3.3	76
14	Analysis of polychlorinated biphenyl-DNA adducts by 32P-postlabeling. <i>Carcinogenesis</i> , 1996, 17, 109-114.	2.8	75
15	Research Recommendations for Selected IARC-Classified Agents. <i>Environmental Health Perspectives</i> , 2010, 118, 1355-1362.	6.0	75
16	Polychlorinated biphenyls as initiators in liver carcinogenesis: resistant hepatocyte model. <i>Toxicology and Applied Pharmacology</i> , 2003, 186, 55-62.	2.8	73
17	Synthesis of hydroxylated PCB metabolites with the Suzuki-coupling. <i>Chemosphere</i> , 2001, 45, 1119-1127.	8.2	72
18	Polychlorinated biphenyls (PCBs) as initiating agents in hepatocellular carcinoma. <i>Cancer Letters</i> , 2013, 334, 46-55.	7.2	72

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19	Chlorination Increases the Persistence of Semiquinone Free Radicals Derived from Polychlorinated Biphenyl Hydroquinones and Quinones. <i>Journal of Organic Chemistry</i> , 2008, 73, 8296-8304.	3.2	70
20	Detection of PCB Adducts by the 32P-Postlabeling Technique. <i>Chemical Research in Toxicology</i> , 1996, 9, 165-171.	3.3	68
21	PCB126-Induced Disruption in Gluconeogenesis and Fatty Acid Oxidation Precedes Fatty Liver in Male Rats. <i>Toxicological Sciences</i> , 2016, 149, 98-110.	3.1	68
22	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, 918-923.	10.0	66
23	Identification of Sulfated Metabolites of 4-Chlorobiphenyl (PCB3) in the Serum and Urine of Male Rats. <i>Chemical Research in Toxicology</i> , 2012, 25, 2796-2804.	3.3	66
24	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.	0.8	65
25	Synthesis of polychlorinated biphenyls (PCBs) using the Suzuki-coupling. <i>Chemosphere</i> , 2001, 45, 137-143.	8.2	64
26	Enantioselective disposition of PCB 136 (2,2',3,3',6,6'-hexachlorobiphenyl) in C57BL/6 mice after oral and intraperitoneal administration. <i>Chirality</i> , 2007, 19, 56-66.	2.6	63
27	Receptor interactions by polybrominated diphenyl ethers versus polychlorinated biphenyls: A theoretical structure-activity assessment. <i>Environmental Toxicology and Pharmacology</i> , 2008, 25, 202-210.	4.0	63
28	Redox Cycling of 2-(2-Mono, -di, -trichlorophenyl)-1,4-benzoquinones, Oxidation Products of Polychlorinated Biphenyls. <i>Archives of Biochemistry and Biophysics</i> , 2000, 376, 449-455.	3.0	59
29	Polychlorinated Biphenyl Quinone Metabolites Poison Human Topoisomerase II α : Altering Enzyme Function by Blocking the N-Terminal Protein Gate. <i>Biochemistry</i> , 2006, 45, 10140-10152.	2.5	57
30	Sources and toxicities of phenolic polychlorinated biphenyls (OH-PCBs). <i>Environmental Science and Pollution Research</i> , 2018, 25, 16277-16290.	5.3	55
31	A New Strategy for the Synthesis of Polychlorinated Biphenyl Metabolites. <i>Chemical Research in Toxicology</i> , 1995, 8, 92-95.	3.3	53
32	PCBs and PBBs: Biologic and toxic effects on C57BL/6J and DBA/2J inbred mice. <i>Toxicology</i> , 1984, 31, 191-206.	4.2	52
33	4-Monochlorobiphenyl (PCB3) induces mutations in the livers of transgenic Fisher 344 rats. <i>Carcinogenesis</i> , 2007, 28, 471-478.	2.8	50
34	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, 1720-1728.	3.3	50
35	PCB126 inhibits adipogenesis of human preadipocytes. <i>Toxicology in Vitro</i> , 2015, 29, 132-141.	2.4	48
36	Effects of polychlorinated biphenyls on cytochrome P450 induction in the chick embryo hepatocyte culture. <i>Archives of Biochemistry and Biophysics</i> , 1989, 275, 252-262.	3.0	45

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37	A New Player in Environmentally Induced Oxidative Stress: Polychlorinated Biphenyl Congener, 3,3'-Dichlorobiphenyl (PCB11). <i>Toxicological Sciences</i> , 2013, 136, 39-50.	3.1	45
38	Initiating Activity of 4-Chlorobiphenyl Metabolites in the Resistant Hepatocyte Model. <i>Toxicological Sciences</i> , 2004, 79, 41-46.	3.1	44
39	Polychlorobiphenyls are selective inhibitors of human phenol sulfotransferase 1A1 with 4-nitrophenol as a substrate. <i>Chemico-Biological Interactions</i> , 2006, 159, 235-246.	4.0	43
40	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, 1065-1072.	3.3	41
41	N-acetylcysteine (NAC) diminishes the severity of PCB 126-induced fatty liver in male rodents. <i>Toxicology</i> , 2012, 302, 25-33.	4.2	40
42	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, 5320-5327.	10.0	40
43	Disposition of Phenolic and Sulfated Metabolites after Inhalation Exposure to 4-Chlorobiphenyl (PCB3) in Female Rats. <i>Chemical Research in Toxicology</i> , 2014, 27, 1411-1420.	3.3	39
44	An efficient approach to sulfate metabolites of polychlorinated biphenyls. <i>Environment International</i> , 2010, 36, 843-848.	10.0	38
45	Tissue Distribution, Metabolism, and Excretion of 3,3'-Dichloro-4'-sulfooxy-biphenyl in the Rat. <i>Environmental Science & Technology</i> , 2015, 49, 8087-8095.	10.0	38
46	Quinoid Metabolites of 4-Monochlorobiphenyl Induce Gene Mutations in Cultured Chinese Hamster V79 Cells. <i>Toxicological Sciences</i> , 2007, 100, 88-98.	3.1	37
47	Polychlorinated Biphenyl (PCB) carcinogenicity with special emphasis on airborne PCBs. <i>Gefahrstoffe Reinhaltung Der Luft</i> , 2011, 71, 25-32.	0.1	37
48	Identification of a sulfate metabolite of PCB 11 in human serum. <i>Environment International</i> , 2017, 98, 120-128.	10.0	35
49	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.	2.9	33
50	Role of oxidative stress in the promoting activities of PCBs. <i>Environmental Toxicology and Pharmacology</i> , 2008, 25, 247-250.	4.0	33
51	Dietary Selenium as a Modulator of PCB 126-Induced Hepatotoxicity in Male Sprague-Dawley Rats. <i>Toxicological Sciences</i> , 2011, 124, 202-214.	3.1	33
52	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.	5.2	30
53	Distribution and macromolecular binding of benzo[a]pyrene and two polychlorinated biphenyl congeners in female mice. <i>Chemico-Biological Interactions</i> , 2001, 137, 243-258.	4.0	30
54	DNA adduction by polychlorinated biphenyls: adducts derived from hepatic microsomal activation and from synthetic metabolites. <i>Chemico-Biological Interactions</i> , 2002, 139, 129-144.	4.0	29

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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.	3.1	29
56	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.	4.0	28
57	Effect of the peroxisome proliferator perfluorodecanoic acid on the promotion of two-stage hepatocarcinogenesis in rats. <i>Cancer Letters</i> , 1993, 72, 111-120.	7.2	27
58	Synthesis of polychlorinated biphenyls and their metabolites with a modified Suzuki-coupling. <i>Chemosphere</i> , 2004, 56, 735-744.	8.2	26
59	Sulfate Conjugates Are Urinary Markers of Inhalation Exposure to 4-Chlorobiphenyl (PCB3). <i>Chemical Research in Toxicology</i> , 2013, 26, 853-855.	3.3	25
60	Cardiovascular Effects of Polychlorinated Biphenyls and Their Major Metabolites. <i>Environmental Health Perspectives</i> , 2020, 128, 77008.	6.0	24
61	Enantiomeric Enrichment of 2,2,3,6-Hexachlorobiphenyl (PCB 136) in Mice After Induction of CYP Enzymes. <i>Archives of Environmental Contamination and Toxicology</i> , 2008, 55, 510-517.	4.1	23
62	Effects of two prototypic polychlorinated biphenyls (PCBs) on lipid composition of rat liver and serum. <i>Journal of Nutritional Biochemistry</i> , 1990, 1, 350-354.	4.2	22
63	Glucuronidation of Polychlorinated Biphenyls and UDP-Glucuronic Acid Concentrations in Channel Catfish Liver and Intestine. <i>Drug Metabolism and Disposition</i> , 2008, 36, 623-630.	3.3	22
64	Oxidation of 4-Chlorobiphenyl Metabolites to Electrophilic Species by Prostaglandin H Synthase. <i>Chemical Research in Toxicology</i> , 2009, 22, 64-71.	3.3	22
65	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.	5.3	22
66	Enantiomers of Polychlorinated Biphenyls Semipreparative Enrichment by Liquid Chromatography. <i>Liebigs Annalen Der Chemie</i> , 1985, 1985, 2101-2103.	0.8	21
67	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.	4.0	21
68	Protective effects of selenium against DNA adduct formation in Inuit environmentally exposed to PCBs. <i>Environment International</i> , 2010, 36, 980-986.	10.0	20
69	PCB126 Inhibits the Activation of AMPK-CREB Signal Transduction Required for Energy Sensing in Liver. <i>Toxicological Sciences</i> , 2018, 163, 440-453.	3.1	20
70	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.	5.3	19
71	Effect of Dietary Selenium on the Promotion of Hepatocarcinogenesis by 3,4-Tetrachlorobiphenyl and 2,4,5-Hexachlorobiphenyl. <i>Experimental Biology and Medicine</i> , 2008, 233, 366-376.	2.4	17
72	Investigation of mechanism(s) of DNA damage induced by 4-monochlorobiphenyl (PCB3) metabolites. <i>Environment International</i> , 2010, 36, 950-961.	10.0	17

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73	Physicochemical properties of hydroxylated polychlorinated biphenyls aid in predicting their interactions with rat sulfotransferase 1A1 (rSULT1A1). <i>Chemico-Biological Interactions</i> , 2011, 189, 153-160.	4.0	17
74	Toxicity assessment of air-delivered particle-bound polybrominated diphenyl ethers. <i>Toxicology</i> , 2014, 317, 31-39.	4.2	17
75	Biotransformation of cannabinoids by <i>Syncephalastrum racemosum</i> . <i>Biological Mass Spectrometry</i> , 1975, 2, 266-271.	0.5	16
76	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.	5.2	16
77	Does Dietary Copper Supplementation Enhance or Diminish PCB126 Toxicity in the Rodent Liver?. <i>Chemical Research in Toxicology</i> , 2013, 26, 634-644.	3.3	16
78	Dietary antioxidants (selenium and N-acetylcysteine) modulate paraoxonase 1 (PON1) in PCB 126-exposed rats. <i>Environmental Science and Pollution Research</i> , 2014, 21, 6384-6399.	5.3	16
79	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.	3.3	16
80	PCBs risk evaluation, environmental protection, and management: 50-year research and counting for elimination by 2028. <i>Environmental Science and Pollution Research</i> , 2018, 25, 16269-16276.	5.3	16
81	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.	1.6	14
82	Binding of polychlorinated biphenyls/metabolites to hemoglobin. <i>Toxicology Letters</i> , 2003, 142, 53-60.	0.8	14
83	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, 1031-1043.	1.1	14
84	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, 1474-1485.	3.3	12
85	The Aryl hydrocarbon receptor mediates reproductive toxicity of polychlorinated biphenyl congener 126 in rats. <i>Toxicology and Applied Pharmacology</i> , 2021, 426, 115639.	2.8	12
86	Suppression of Peroxisomal Enzyme Activities and Cytochrome P450 4A Isozyme Expression by Congeneric Polybrominated and Polychlorinated Biphenyls. <i>PPAR Research</i> , 2007, 2007, 1-5.	2.4	10
87	Binding interactions of hydroxylated polychlorinated biphenyls (OHPCBs) with human hydroxysteroid sulfotransferase hSULT2A1. <i>Chemico-Biological Interactions</i> , 2014, 212, 56-64.	4.0	10
88	Modulating inhibitors of transthyretin fibrillogenesis via sulfation: Polychlorinated biphenyl sulfates as models. <i>Chemico-Biological Interactions</i> , 2015, 228, 1-8.	4.0	10
89	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, 1504-1509.	3.3	9
90	Cytochrome c adducts with PCB quinoid metabolites. <i>Environmental Science and Pollution Research</i> , 2016, 23, 2148-2159.	5.3	9

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91	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. Archives of Toxicology, 2020, 94, 389-399.	4.2	9
92	Skeletal Toxicity of Coplanar Polychlorinated Biphenyl Congener 126 in the Rat Is Aryl Hydrocarbon Receptor Dependent. Toxicological Sciences, 2020, 175, 113-125.	3.1	9
93	Tumor promoting potency of PCBs 28 and 101 in rat liver. Toxicology Letters, 2006, 164, 133-143.	0.8	8
94	Improved syntheses of non-dioxin-like polychlorinated biphenyls (PCBs) and some of their sulfur-containing metabolites. Environment International, 2010, 36, 828-834.	10.0	8
95	PCB126 blocks the thermogenic beiging response of adipocytes. Environmental Science and Pollution Research, 2020, 27, 8897-8904.	5.3	8
96	Transcriptome sequencing of 3,3,4,4,5-Pentachlorobiphenyl (PCB126)-treated human preadipocytes demonstrates progressive changes in pathways associated with inflammation and diabetes.. Toxicology in Vitro, 2022, 83, 105396.	2.4	8
97	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. Toxicological Sciences, 2016, 152, 309-322.	3.1	7
98	Dietary Manganese Modulates PCB126 Toxicity, Metal Status, and MnSOD in the Rat. Toxicological Sciences, 2016, 150, 15-26.	3.1	7
99	PCB126 induced toxic actions on liver energy metabolism is mediated by AhR in rats. Toxicology, 2022, 466, 153054.	4.2	7
100	Microbial biotransformation of retinoic acid by Cunninghamella echinulata and Cunninghamella blakesleeana. Pharmaceutical Research, 1990, 07, 270-273.	3.5	6
101	Sustained expression of CYPs and DNA adduct accumulation with continuous exposure to PCB126 and PCB153 through a new delivery method: Polymeric implants. Toxicology Reports, 2014, 1, 820-833.	3.3	6
102	7th International PCB Workshop: Chemical mixtures in a complex world. Environmental Science and Pollution Research, 2014, 21, 6269-6275.	5.3	6
103	Innovative Application of Fluoro Tagging To Trace Airborne Particulate and Gas-Phase Polybrominated Diphenyl Ether Exposures. Chemical Research in Toxicology, 2009, 22, 179-186.	3.3	5
104	Crystal structure and density functional theory studies of toxic quinone metabolites of polychlorinated biphenyls. Chemosphere, 2011, 85, 386-392.	8.2	5
105	Human hepatic microsomal sulfatase catalyzes the hydrolysis of polychlorinated biphenyl sulfates: A potential mechanism for retention of hydroxylated PCBs. Environmental Toxicology and Pharmacology, 2021, 88, 103757.	4.0	4
106	Spatial distribution of metals within the liver acinus and their perturbation by PCB126. Environmental Science and Pollution Research, 2018, 25, 16427-16433.	5.3	3
107	Assessment of the Mitigative Capacity of Dietary Zinc on PCB126 Hepatotoxicity and the Contribution of Zinc to Toxicity. Chemical Research in Toxicology, 2016, 29, 851-859.	3.3	2
108	Tenth International PCB Workshop: 50 years of PCB research, new approaches and discoveries and still so much more to learn. Environmental Science and Pollution Research, 2020, 27, 8823-8825.	5.3	2

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109	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, 6400-6409.	5.3	1
110	Hydroxylated Metabolites of Common Airborne Polychlorinated Biphenyls and Their Potential for Disrupting Estrogen Homeostasis and Adipogenesis. <i>FASEB Journal</i> , 2018, 32, 605.8.	0.5	0