Michael W Duffel

List of Publications by Year in Descending Order

87 papers	1,831 citations	25 h-index	38 g-index
92 ext. papers	2,005 ext. citations	4.9 avg, IF	4.53 L-index

#	Paper	IF	Citations
87	PCB Sulfates in Serum from Mothers and Children in Urban and Rural U.S. Communities.. *Environmental Science & Technology*, **2022**, 56, 6537-6547	10.3	0
86	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	5.8	1
85	Detection and Quantification of Polychlorinated Biphenyl Sulfates in Human Serum. *Environmental Science & Technology*, **2021**, 55, 2473-2481	10.3	7
84	Comparative Analyses of the 12 Most Abundant PCB Congeners Detected in Human Maternal Serum for Activity at the Thyroid Hormone Receptor and Ryanodine Receptor. *Environmental Science & Technology*, **2019**, 53, 3948-3958	10.3	34
83	Hydroxylated and sulfated metabolites of commonly occurring airborne polychlorinated biphenyls inhibit human steroid sulfotransferases SULT1E1 and SULT2A1. *Environmental Toxicology and Pharmacology*, **2018**, 58, 196-201	5.8	12
82	Authentication of synthetic environmental contaminants and their (bio)transformation products in toxicology: polychlorinated biphenyls as an example. *Environmental Science and Pollution Research*, **2018**, 25, 16508-16521	5.1	14
81	Sources and toxicities of phenolic polychlorinated biphenyls (OH-PCBs). *Environmental Science and Pollution Research*, **2018**, 25, 16277-16290	5.1	41
80	Hydroxylated Metabolites of Common Airborne Polychlorinated Biphenyls and Their Potential for Disrupting Estrogen Homeostasis and Adipogenesis. *FASEB Journal*, **2018**, 32, 605.8	0.9	
79	Sulfotransferases **2018**, 407-428		
78	Hydroxylated and sulfated metabolites of commonly observed airborne polychlorinated biphenyls display selective uptake and toxicity in N27, SH-SY5Y, and HepG2 cells. *Environmental Toxicology and Pharmacology*, **2018**, 62, 69-78	5.8	18
77	Identification of a sulfate metabolite of PCB 11 in human serum. *Environment International*, **2017**, 98, 120-128	12.9	27
76	Mechanistic insights into the specificity of human cytosolic sulfotransferase 2A1 (hSULT2A1) for hydroxylated polychlorinated biphenyls through the use of fluoro-tagged probes. *Environmental Science and Pollution Research*, **2016**, 23, 2119-27	5.1	2
75	Sulfation of Lower Chlorinated Polychlorinated Biphenyls Increases Their Affinity for the Major Drug-Binding Sites of Human Serum Albumin. *Environmental Science & Technology*, **2016**, 50, 5320-7	10.3	23
74	Tissue Distribution, Metabolism, and Excretion of 3,3′-Dichloro-4′-sulfooxy-biphenyl in the Rat. *Environmental Science & Technology*, **2015**, 49, 8087-95	10.3	31
73	The effects of endoxifen and other major metabolites of tamoxifen on the sulfation of estradiol catalyzed by human cytosolic sulfotransferases hSULT1E1 and hSULT1A1*1. *Drug Metabolism and Disposition*, **2015**, 43, 843-50	4	6
72	Modulating inhibitors of transthyretin fibrillogenesis via sulfation: polychlorinated biphenyl sulfates as models. *Chemico-Biological Interactions*, **2015**, 228, 1-8	5	8
71	Metabolism and metabolites of polychlorinated biphenyls. *Critical Reviews in Toxicology*, **2015**, 45, 245-72	5.7	237

70	Endoxifen and other metabolites of tamoxifen inhibit human hydroxysteroid sulfotransferase 2A1 (hSULT2A1). *Drug Metabolism and Disposition*, **2014**, 42, 1843-50	4	14
69	Binding interactions of hydroxylated polychlorinated biphenyls (OHPCBs) with human hydroxysteroid sulfotransferase hSULT2A1. *Chemico-Biological Interactions*, **2014**, 212, 56-64	5	8
68	Oxidation of polychlorinated biphenyls by liver tissue slices from phenobarbital-pretreated mice is congener-specific and atropselective. *Chemical Research in Toxicology*, **2013**, 26, 1642-51	4	33
67	Effective synthesis of sulfate metabolites of chlorinated phenols. *Chemosphere*, **2013**, 93, 1965-71	8.4	4
66	Chlorinated biphenyl quinones and phenyl-2,5-benzoquinone differentially modify the catalytic activity of human hydroxysteroid sulfotransferase hSULT2A1. *Chemical Research in Toxicology*, **2013**, 26, 1474-85	4	9
65	Sulfated metabolites of polychlorinated biphenyls are high-affinity ligands for the thyroid hormone transport protein transthyretin. *Environmental Health Perspectives*, **2013**, 121, 657-62	8.4	73
64	Metabolism of 2,2′,3,3′,6,6′-hexachlorobiphenyl (PCB 136) atropisomers in tissue slices from phenobarbital or dexamethasone-induced rats is sex-dependent. *Xenobiotica*, **2013**, 43, 933-47	2	34
63	Modification of the catalytic function of human hydroxysteroid sulfotransferase hSULT2A1 by formation of disulfide bonds. *Drug Metabolism and Disposition*, **2013**, 41, 1094-103	4	8
62	3,4′,5-Trichloro-biphenyl-4-yl 2,2,2-trichloro-ethyl sulfate. *Acta Crystallographica Section E: Structure Reports Online*, **2013**, 69, o620		1
61	Endoxifen and other metabolites of tamoxifen inhibit human hydroxysteroid sulfotransferase hSULT2A1. *FASEB Journal*, **2013**, 27, 892.9	0.9	
60	Identification of sulfated metabolites of 4-chlorobiphenyl (PCB3) in the serum and urine of male rats. *Chemical Research in Toxicology*, **2012**, 25, 2796-804	4	56
59	Oxidative modification of rat sulfotransferase 1A1 activity in hepatic tissue slices correlates with effects on the purified enzyme. *Drug Metabolism and Disposition*, **2012**, 40, 298-303	4	8
58	Substrate inhibition in human hydroxysteroid sulfotransferase SULT2A1: studies on the formation of catalytically non-productive enzyme complexes. *Archives of Biochemistry and Biophysics*, **2011**, 507, 232-40	4.1	32
57	2,2′,3,3′,6,6′-Hexachlorobiphenyl (PCB 136) is enantioselectively oxidized to hydroxylated metabolites by rat liver microsomes. *Chemical Research in Toxicology*, **2011**, 24, 2249-57	4	46
56	Regioselective Iodination of Chlorinated Aromatic Compounds Using Silver Salts. *Tetrahedron*, **2011**, 67, 7461-7469	2.4	12
55	Physicochemical properties of hydroxylated polychlorinated biphenyls aid in predicting their interactions with rat sulfotransferase 1A1 (rSULT1A1). *Chemico-Biological Interactions*, **2011**, 189, 153-60	5	12
54	Structure-activity relationships for hydroxylated polychlorinated biphenyls as inhibitors of the sulfation of dehydroepiandrosterone catalyzed by human hydroxysteroid sulfotransferase SULT2A1. *Chemical Research in Toxicology*, **2011**, 24, 1720-8	4	42
53	Gas chromatographic analysis with chiral cyclodextrin phases reveals the enantioselective formation of hydroxylated polychlorinated biphenyls by rat liver microsomes. *Environmental Science & Technology*, **2011**, 45, 9590-6	10.3	35

52	Synthesis of Sterically Hindered Polychlorinated Biphenyl Derivatives. *Synthesis*, **2011**, 7, 1045-1054	2.9	28
51	Biphenyl-4-yl 2,2,2-trichloro-ethyl sulfate. *Acta Crystallographica Section E: Structure Reports Online*, **2010**, 66, o1073		4
50	3',4'-Dichloro-biphenyl-4-yl 2,2,2-trichloro-ethyl sulfate. *Acta Crystallographica Section E: Structure Reports Online*, **2010**, 66, o1615-6		3
49	4'-Chloro-biphenyl-3-yl 2,2,2-trichloro-ethyl sulfate. *Acta Crystallographica Section E: Structure Reports Online*, **2010**, 66, o2306		1
48	An efficient approach to sulfate metabolites of polychlorinated biphenyls. *Environment International*, **2010**, 36, 843-8	12.9	31
47	Sulfotransferases **2010**, 367-384		10
46	Structure-activity relationships for hydroxylated polychlorinated biphenyls as substrates and inhibitors of rat sulfotransferases and modification of these relationships by changes in thiol status. *Drug Metabolism and Disposition*, **2009**, 37, 1065-72	4	33
45	Oxidation of 4-chlorobiphenyl metabolites to electrophilic species by prostaglandin H synthase. *Chemical Research in Toxicology*, **2009**, 22, 64-71	4	17
44	Pentachlorophenol and other chlorinated phenols are substrates for human hydroxysteroid sulfotransferase hSULT2A1. *Chemical Research in Toxicology*, **2008**, 21, 1503-8	4	22
43	Hydroxylated polychlorinated biphenyls are substrates and inhibitors of human hydroxysteroid sulfotransferase SULT2A1. *Chemical Research in Toxicology*, **2006**, 19, 1420-5	4	68
42	Formation of tamoxifen-DNA adducts via O-sulfonation, not O-acetylation, of alpha-hydroxytamoxifen in rat and human livers. *Drug Metabolism and Disposition*, **2005**, 33, 1673-8	4	27
41	A comparative molecular field analysis-based approach to prediction of sulfotransferase catalytic specificity. *Methods in Enzymology*, **2005**, 400, 249-63	1.7	7
40	Interactions of the stereoisomers of alpha-hydroxytamoxifen with human hydroxysteroid sulfotransferase SULT2A1 and rat hydroxysteroid sulfotransferase STa. *Drug Metabolism and Disposition*, **2004**, 32, 1501-8	4	20
39	Influence of phenylalanines 77 and 138 on the stereospecificity of aryl sulfotransferase IV. *Drug Metabolism and Disposition*, **2004**, 32, 559-65	4	7
38	Enantioselectivity of human hydroxysteroid sulfotransferase ST2A3 with naphthyl-1-ethanols. *Drug Metabolism and Disposition*, **2003**, 31, 697-700	4	9
37	Comparative molecular field analysis of substrates for an aryl sulfotransferase based on catalytic mechanism and protein homology modeling. *Journal of Medicinal Chemistry*, **2002**, 45, 5514-22	8.3	13
36	Measurement of aryl and alcohol sulfotransferase activity. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2001**, Chapter 4, Unit4.5	1	12
35	Enzymatic aspects of the phenol (aryl) sulfotransferases. *Drug Metabolism Reviews*, **2001**, 33, 369-95	7	77

34	Bacterial expression, purification, and characterization of rat hydroxysteroid sulfotransferase STa. *Protein Expression and Purification*, **2001**, 21, 235-42	2	8
33	In vitro and ex vivo hydrolysis rates of ethacrynate esters and their relationship to intraocular pressure in the rabbit eye. *Journal of Ocular Pharmacology and Therapeutics*, **2000**, 16, 539-56	2.6	2
32	Structure-function modeling of the interactions of N-alkyl-N-hydroxyanilines with rat hepatic aryl sulfotransferase IV. *Chemical Research in Toxicology*, **2000**, 13, 1251-8	4	11
31	Importance of peri-interactions on the stereospecificity of rat hydroxysteroid sulfotransferase STa with 1-arylethanols. *Chemical Research in Toxicology*, **1999**, 12, 278-85	4	18
30	Studies on an affinity label for the sulfuryl acceptor binding site in an aryl sulfotransferase. *Chemico-Biological Interactions*, **1998**, 109, 81-92	5	9
29	Sulfation of alpha-hydroxytamoxifen catalyzed by human hydroxysteroid sulfotransferase results in tamoxifen-DNA adducts. *Carcinogenesis*, **1998**, 19, 2007-11	4.6	60
28	Oxidation-dependent inactivation of aryl sulfotransferase IV by primary N-hydroxy arylamines during in vitro assays. *Carcinogenesis*, **1997**, 18, 843-9	4.6	3
27	Oxidations of vincristine catalyzed by peroxidase and ceruloplasmin. *Journal of Natural Products*, **1997**, 60, 1125-9	4.9	21
26	Influence of substrate structure on the catalytic efficiency of hydroxysteroid sulfotransferase STa in the sulfation of alcohols. *Chemical Research in Toxicology*, **1996**, 9, 67-74	4	21
25	Evidence of two separate mechanisms for the decrease in aryl sulfotransferase activity in rat liver during early stages of 2-acetylaminofluorene-induced hepatocarcinogenesis. *Molecular Carcinogenesis*, **1994**, 9, 2-9	5	6
24	Molecular specificity of aryl sulfotransferase IV (tyrosine-ester sulfotransferase) for xenobiotic substrates and inhibitors. *Chemico-Biological Interactions*, **1994**, 92, 3-14	5	13
23	Inhibition of rat hepatic aryl sulphotransferase IV by dihydrodiol derivatives of benzo[a]pyrene and naphthalene. *Xenobiotica*, **1992**, 22, 247-55	2	16
22	Tyrosine-ester sulfotransferase from rat liver: bacterial expression and identification. *Protein Expression and Purification*, **1992**, 3, 421-6	2	36
21	Metabolism of the Catharanthus alkaloids: from Streptomyces griseus to monoamine oxidase B. *Journal of Natural Products*, **1992**, 55, 269-84	4.9	15
20	Benzylic alcohols as stereospecific substrates and inhibitors for aryl sulfotransferase. *Chirality*, **1991**, 3, 104-11	2.1	31
19	Vinblastine and vincristine are inhibitors of monoamine oxidase B. *Journal of Medicinal Chemistry*, **1990**, 33, 1845-8	8.3	21
18	Assay of purified aryl sulfotransferase suitable for reactions yielding unstable sulfuric acid esters. *Analytical Biochemistry*, **1989**, 183, 320-4	3.1	35
17	In vitro metabolic transformations of vinblastine: oxidations catalyzed by peroxidase. *Journal of Medicinal Chemistry*, **1989**, 32, 674-9	8.3	13

16	Peroxidase as a model for reduction of tertiary amine oxides catalyzed by rat hepatic supernatant and microsomal fractions. *Biochemical Pharmacology*, **1989**, 38, 573-9	6	3
15	In vitro metabolic transformations of vinblastine: oxidations catalyzed by human ceruloplasmin. *Journal of Medicinal Chemistry*, **1989**, 32, 2158-62	8.3	15
14	Photochemical oxidation of vindoline and 16-O-acetylvindoline. *Photochemistry and Photobiology*, **1988**, 48, 265-9	3.6	
13	Leurosine biotransformations: an unusual ring-fission reaction catalyzed by peroxidase. *Chemical Research in Toxicology*, **1988**, 1, 238-42	4	10
12	Cysteamine and cystamine. *Methods in Enzymology*, **1987**, 143, 149-54	1.7	12
11	Transformations of MPTP by ceruloplasmin and peroxidase: comparison with vinca alkaloid biotransformations. *Journal of Natural Products*, **1987**, 50, 490-3	4.9	
10	Enzymic and chemical oxidations of leurosine to 5'-hydroxyleurosine. *Journal of Organic Chemistry*, **1987**, 52, 1500-1504	4.2	17
9	N-Substituted sulfonamide carbonic anhydrase inhibitors with topical effects on intraocular pressure. *Journal of Medicinal Chemistry*, **1986**, 29, 1488-94	8.3	43
8	Chapter 4 Metabolic Transformations of Alkaloids. *Alkaloids: Chemistry and Pharmacology*, **1986**, 323-405		4
7	Arylsulfotransferase IV catalyzed sulfation of 1-naphthalenemethanol. *Advances in Experimental Medicine and Biology*, **1986**, 197, 415-22	3.6	3
6	Cysteine S-conjugate N-acetyltransferase. *Methods in Enzymology*, **1985**, 113, 516-20	1.7	8
5	One-electron oxidation of vindoline and 16-O-acetylvindoline catalyzed by peroxidase. *Journal of Medicinal Chemistry*, **1985**, 28, 629-33	8.3	21
4	Microsomal flavin-containing monooxygenase activity in rat corpus striatum. *Journal of Neurochemistry*, **1984**, 42, 1350-3	6	10
3	Aryl sulfotransferases. *Methods in Enzymology*, **1981**, 77, 197-206	1.7	64
2	KINETIC STUDIES ON MECHANISM AND SUBSTRATE SPECIFICITY OF THE MICROSOMAL FLAVIN□CONTAINING MONOOXYGENASE **1980**, 637-645		2
1	Studies on the nature and regulation of the cellular thio:disulphide potential. *Novartis Foundation Symposium*, **1979**, 191-204		3