

Michael W Duffel

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.

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	Metabolism and metabolites of polychlorinated biphenyls. <i>Critical Reviews in Toxicology</i> , 2015 , 45, 245-73	7.7	237
86	Enzymatic aspects of the phenol (aryl) sulfotransferases. <i>Drug Metabolism Reviews</i> , 2001 , 33, 369-95	7	77
85	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
84	Hydroxylated polychlorinated biphenyls are substrates and inhibitors of human hydroxysteroid sulfotransferase SULT2A1. <i>Chemical Research in Toxicology</i> , 2006 , 19, 1420-5	4	68
83	Aryl sulfotransferases. <i>Methods in Enzymology</i> , 1981 , 77, 197-206	1.7	64
82	Sulfation of alpha-hydroxytamoxifen catalyzed by human hydroxysteroid sulfotransferase results in tamoxifen-DNA adducts. <i>Carcinogenesis</i> , 1998 , 19, 2007-11	4.6	60
81	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
80	2,2',3,4,6-Hexachlorobiphenyl (PCB 136) is enantioselectively oxidized to hydroxylated metabolites by rat liver microsomes. <i>Chemical Research in Toxicology</i> , 2011 , 24, 2249-57	4	46
79	N-Substituted sulfonamide carbonic anhydrase inhibitors with topical effects on intraocular pressure. <i>Journal of Medicinal Chemistry</i> , 1986 , 29, 1488-94	8.3	43
78	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
77	Sources and toxicities of phenolic polychlorinated biphenyls (OH-PCBs). <i>Environmental Science and Pollution Research</i> , 2018 , 25, 16277-16290	5.1	41
76	Tyrosine-ester sulfotransferase from rat liver: bacterial expression and identification. <i>Protein Expression and Purification</i> , 1992 , 3, 421-6	2	36
75	Gas chromatographic analysis with chiral cyclodextrin phases reveals the enantioselective formation of hydroxylated polychlorinated biphenyls by rat liver microsomes. <i>Environmental Science & Technology</i> , 2011 , 45, 9590-6	10.3	35
74	Assay of purified aryl sulfotransferase suitable for reactions yielding unstable sulfuric acid esters. <i>Analytical Biochemistry</i> , 1989 , 183, 320-4	3.1	35
73	Metabolism of 2,2',3,4,6-hexachlorobiphenyl (PCB 136) atropisomers in tissue slices from phenobarbital or dexamethasone-induced rats is sex-dependent. <i>Xenobiotica</i> , 2013 , 43, 933-47	2	34
72	Comparative Analyses of the 12 Most Abundant PCB Congeners Detected in Human Maternal Serum for Activity at the Thyroid Hormone Receptor and Ryanodine Receptor. <i>Environmental Science & Technology</i> , 2019 , 53, 3948-3958	10.3	34
71	Oxidation of polychlorinated biphenyls by liver tissue slices from phenobarbital-pretreated mice is congener-specific and atropselective. <i>Chemical Research in Toxicology</i> , 2013 , 26, 1642-51	4	33

70	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
69	Substrate inhibition in human hydroxysteroid sulfotransferase SULT2A1: studies on the formation of catalytically non-productive enzyme complexes. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 507, 232-40	4.1	32
68	Tissue Distribution, Metabolism, and Excretion of 3,3'-Dichloro-4,4'-sulfooxy-biphenyl in the Rat. <i>Environmental Science & Technology</i> , 2015 , 49, 8087-95	10.3	31
67	An efficient approach to sulfate metabolites of polychlorinated biphenyls. <i>Environment International</i> , 2010 , 36, 843-8	12.9	31
66	Benzylic alcohols as stereospecific substrates and inhibitors for aryl sulfotransferase. <i>Chirality</i> , 1991 , 3, 104-11	2.1	31
65	Synthesis of Sterically Hindered Polychlorinated Biphenyl Derivatives. <i>Synthesis</i> , 2011 , 7, 1045-1054	2.9	28
64	Identification of a sulfate metabolite of PCB 11 in human serum. <i>Environment International</i> , 2017 , 98, 120-128	12.9	27
63	Formation of tamoxifen-DNA adducts via O-sulfonation, not O-acetylation, of alpha-hydroxytamoxifen in rat and human livers. <i>Drug Metabolism and Disposition</i> , 2005 , 33, 1673-8	4	27
62	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}	10.3	23
61	Pentachlorophenol and other chlorinated phenols are substrates for human hydroxysteroid sulfotransferase hSULT2A1. <i>Chemical Research in Toxicology</i> , 2008 , 21, 1503-8	4	22
60	Oxidations of vincristine catalyzed by peroxidase and ceruloplasmin. <i>Journal of Natural Products</i> , 1997 , 60, 1125-9	4.9	21
59	Influence of substrate structure on the catalytic efficiency of hydroxysteroid sulfotransferase STa in the sulfation of alcohols. <i>Chemical Research in Toxicology</i> , 1996 , 9, 67-74	4	21
58	Vinblastine and vincristine are inhibitors of monoamine oxidase B. <i>Journal of Medicinal Chemistry</i> , 1990 , 33, 1845-8	8.3	21
57	One-electron oxidation of vindoline and 16-O-acetylvindoline catalyzed by peroxidase. <i>Journal of Medicinal Chemistry</i> , 1985 , 28, 629-33	8.3	21
56	Interactions of the stereoisomers of alpha-hydroxytamoxifen with human hydroxysteroid sulfotransferase SULT2A1 and rat hydroxysteroid sulfotransferase STa. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 1501-8	4	20
55	Importance of peri-interactions on the stereospecificity of rat hydroxysteroid sulfotransferase STa with 1-arylethanol. <i>Chemical Research in Toxicology</i> , 1999 , 12, 278-85	4	18
54	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
53	Oxidation of 4-chlorobiphenyl metabolites to electrophilic species by prostaglandin H synthase. <i>Chemical Research in Toxicology</i> , 2009 , 22, 64-71	4	17

52	Enzymic and chemical oxidations of leucosine to 5-hydroxyleucosine. <i>Journal of Organic Chemistry</i> , 1987 , 52, 1500-1504	4.2	17
51	Inhibition of rat hepatic aryl sulphotransferase IV by dihydrodiol derivatives of benzo[a]pyrene and naphthalene. <i>Xenobiotica</i> , 1992 , 22, 247-55	2	16
50	Metabolism of the Catharanthus alkaloids: from <i>Streptomyces griseus</i> to monoamine oxidase B. <i>Journal of Natural Products</i> , 1992 , 55, 269-84	4.9	15
49	In vitro metabolic transformations of vinblastine: oxidations catalyzed by human ceruloplasmin. <i>Journal of Medicinal Chemistry</i> , 1989 , 32, 2158-62	8.3	15
48	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
47	Endoxifen and other metabolites of tamoxifen inhibit human hydroxysteroid sulfotransferase 2A1 (hSULT2A1). <i>Drug Metabolism and Disposition</i> , 2014 , 42, 1843-50	4	14
46	Comparative molecular field analysis of substrates for an aryl sulfotransferase based on catalytic mechanism and protein homology modeling. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 5514-22	8.3	13
45	Molecular specificity of aryl sulfotransferase IV (tyrosine-ester sulfotransferase) for xenobiotic substrates and inhibitors. <i>Chemico-Biological Interactions</i> , 1994 , 92, 3-14	5	13
44	In vitro metabolic transformations of vinblastine: oxidations catalyzed by peroxidase. <i>Journal of Medicinal Chemistry</i> , 1989 , 32, 674-9	8.3	13
43	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
42	Regioselective Iodination of Chlorinated Aromatic Compounds Using Silver Salts. <i>Tetrahedron</i> , 2011 , 67, 7461-7469	2.4	12
41	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
40	Measurement of aryl and alcohol sulfotransferase activity. <i>Current Protocols in Toxicology / Editorial Board</i> , Mahin D Maines (editor-in-chief) [et Al], 2001 , Chapter 4, Unit 4.5	1	12
39	Cysteamine and cystamine. <i>Methods in Enzymology</i> , 1987 , 143, 149-54	1.7	12
38	Structure-function modeling of the interactions of N-alkyl-N-hydroxyanilines with rat hepatic aryl sulfotransferase IV. <i>Chemical Research in Toxicology</i> , 2000 , 13, 1251-8	4	11
37	Sulfotransferases 2010 , 367-384		10
36	Leucosine biotransformations: an unusual ring-fission reaction catalyzed by peroxidase. <i>Chemical Research in Toxicology</i> , 1988 , 1, 238-42	4	10
35	Microsomal flavin-containing monooxygenase activity in rat corpus striatum. <i>Journal of Neurochemistry</i> , 1984 , 42, 1350-3	6	10

34	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
33	Studies on an affinity label for the sulfuryl acceptor binding site in an aryl sulfotransferase. <i>Chemico-Biological Interactions</i> , 1998 , 109, 81-92	5	9
32	Enantioselectivity of human hydroxysteroid sulfotransferase ST2A3 with naphthyl-1-ethanols. <i>Drug Metabolism and Disposition</i> , 2003 , 31, 697-700	4	9
31	Binding interactions of hydroxylated polychlorinated biphenyls (OHPCBs) with human hydroxysteroid sulfotransferase hSULT2A1. <i>Chemico-Biological Interactions</i> , 2014 , 212, 56-64	5	8
30	Modulating inhibitors of transthyretin fibrillogenesis via sulfation: polychlorinated biphenyl sulfates as models. <i>Chemico-Biological Interactions</i> , 2015 , 228, 1-8	5	8
29	Modification of the catalytic function of human hydroxysteroid sulfotransferase hSULT2A1 by formation of disulfide bonds. <i>Drug Metabolism and Disposition</i> , 2013 , 41, 1094-103	4	8
28	Oxidative modification of rat sulfotransferase 1A1 activity in hepatic tissue slices correlates with effects on the purified enzyme. <i>Drug Metabolism and Disposition</i> , 2012 , 40, 298-303	4	8
27	Bacterial expression, purification, and characterization of rat hydroxysteroid sulfotransferase STa. <i>Protein Expression and Purification</i> , 2001 , 21, 235-42	2	8
26	Cysteine S-conjugate N-acetyltransferase. <i>Methods in Enzymology</i> , 1985 , 113, 516-20	1.7	8
25	Influence of phenylalanines 77 and 138 on the stereospecificity of aryl sulfotransferase IV. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 559-65	4	7
24	A comparative molecular field analysis-based approach to prediction of sulfotransferase catalytic specificity. <i>Methods in Enzymology</i> , 2005 , 400, 249-63	1.7	7
23	Detection and Quantification of Polychlorinated Biphenyl Sulfates in Human Serum. <i>Environmental Science & Technology</i> , 2021 , 55, 2473-2481	10.3	7
22	The effects of endoxifen and other major metabolites of tamoxifen on the sulfation of estradiol catalyzed by human cytosolic sulfotransferases hSULT1E1 and hSULT1A1*1. <i>Drug Metabolism and Disposition</i> , 2015 , 43, 843-50	4	6
21	Evidence of two separate mechanisms for the decrease in aryl sulfotransferase activity in rat liver during early stages of 2-acetylaminofluorene-induced hepatocarcinogenesis. <i>Molecular Carcinogenesis</i> , 1994 , 9, 2-9	5	6
20	Effective synthesis of sulfate metabolites of chlorinated phenols. <i>Chemosphere</i> , 2013 , 93, 1965-71	8.4	4
19	Biphenyl-4-yl 2,2,2-trichloro-ethyl sulfate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, o1073		4
18	Chapter 4 Metabolic Transformations of Alkaloids. <i>Alkaloids: Chemistry and Pharmacology</i> , 1986 , 323-405		4
17	3,4-Dichloro-biphenyl-4-yl 2,2,2-trichloro-ethyl sulfate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, o1615-6		3

16	Oxidation-dependent inactivation of aryl sulfotransferase IV by primary N-hydroxy arylamines during in vitro assays. <i>Carcinogenesis</i> , 1997 , 18, 843-9	4.6	3
15	Peroxidase as a model for reduction of tertiary amine oxides catalyzed by rat hepatic supernatant and microsomal fractions. <i>Biochemical Pharmacology</i> , 1989 , 38, 573-9	6	3
14	Studies on the nature and regulation of the cellular thio:disulphide potential. <i>Novartis Foundation Symposium</i> , 1979 , 191-204		3
13	Arylsulfotransferase IV catalyzed sulfation of 1-naphthalenemethanol. <i>Advances in Experimental Medicine and Biology</i> , 1986 , 197, 415-22	3.6	3
12	Mechanistic insights into the specificity of human cytosolic sulfotransferase 2A1 (hSULT2A1) for hydroxylated polychlorinated biphenyls through the use of fluoro-tagged probes. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 2119-27	5.1	2
11	In vitro and ex vivo hydrolysis rates of ethacrynate esters and their relationship to intraocular pressure in the rabbit eye. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2000 , 16, 539-56	2.6	2
10	KINETIC STUDIES ON MECHANISM AND SUBSTRATE SPECIFICITY OF THE MICROSOMAL FLAVIN-CONTAINING MONOOXYGENASE 1980 , 637-645		2
9	⁴ U-Chloro-biphenyl-3-yl 2,2,2-trichloro-ethyl sulfate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, o2306		1
8	^{3,4,5} -Trichloro-biphenyl-4-yl 2,2,2-trichloro-ethyl sulfate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013 , 69, o620		1
7	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
6	PCB Sulfates in Serum from Mothers and Children in Urban and Rural U.S. Communities.. <i>Environmental Science & Technology</i> , 2022 , 56, 6537-6547	10.3	0
5	Transformations of MPTP by ceruloplasmin and peroxidase: comparison with vinca alkaloid biotransformations. <i>Journal of Natural Products</i> , 1987 , 50, 490-3	4.9	
4	Photochemical oxidation of vindoline and 16-O-acetylvindoline. <i>Photochemistry and Photobiology</i> , 1988 , 48, 265-9	3.6	
3	Hydroxylated Metabolites of Common Airborne Polychlorinated Biphenyls and Their Potential for Disrupting Estrogen Homeostasis and Adipogenesis. <i>FASEB Journal</i> , 2018 , 32, 605.8	0.9	
2	Endoxifen and other metabolites of tamoxifen inhibit human hydroxysteroid sulfotransferase hSULT2A1. <i>FASEB Journal</i> , 2013 , 27, 892.9	0.9	
1	Sulfotransferases 2018 , 407-428		