

Michael Arand

List of Publications by Year in Descending Order

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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.

109
papers

7,421
citations

46
h-index

85
g-index

120
ext. papers

7,852
ext. citations

5.5
avg, IF

4.99
L-index

#	Paper	IF	Citations
109	The Extended Clearance Model 2021 , 455-479		
108	Opinion: A serious issue with the standardization of the adenovirus-based COVID-19 vaccines?. <i>Archives of Toxicology</i> , 2021 , 95, 3137-3139	5.8	
107	High-resolution fluorescence-guided transcranial ultrasound mapping in the live mouse brain. <i>Science Advances</i> , 2021 , 7, eabi5464	14.3	0
106	Mode of action-based risk assessment of genotoxic carcinogens. <i>Archives of Toxicology</i> , 2020 , 94, 1787-1837	5.87	46
105	In-Vitro Characterization of mCerulean3_mRuby3 as a Novel FRET Pair with Favorable Bleed-Through Characteristics. <i>Biosensors</i> , 2019 , 9,	5.9	5
104	Impact of the epoxide hydrolase EphD on the metabolism of mycolic acids in mycobacteria. <i>Journal of Biological Chemistry</i> , 2018 , 293, 5172-5184	5.4	10
103	Epoxide hydrolase 1 (EPHX1) hydrolyzes epoxyeicosanoids and impairs cardiac recovery after ischemia. <i>Journal of Biological Chemistry</i> , 2018 , 293, 3281-3292	5.4	36
102	Mammalian Epoxide Hydrolases 2018 , 308-325		
101	11,12 -Epoxyeicosatrienoic acid (11,12 EET) reduces excitability and excitatory transmission in the hippocampus. <i>Neuropharmacology</i> , 2017 , 123, 310-321	5.5	16
100	Evidence for a complex formation between CYP2J5 and mEH in living cells by FRET analysis of membrane protein interaction in the endoplasmic reticulum (FAMPIR). <i>Archives of Toxicology</i> , 2017 , 91, 3561-3570	5.8	9
99	Beyond detoxification: a role for mouse mEH in the hepatic metabolism of endogenous lipids. <i>Archives of Toxicology</i> , 2017 , 91, 3571-3585	5.8	10
98	Misclassification of PFEH1 and PFEH2 as Epoxide Hydrolases. <i>MBio</i> , 2017 , 8,	7.8	1
97	Differential Toxicity of Antibodies to the Prion Protein. <i>PLoS Pathogens</i> , 2016 , 12, e1005401	7.6	37
96	Genetic enhancement of microsomal epoxide hydrolase improves metabolic detoxification but impairs cerebral blood flow regulation. <i>Archives of Toxicology</i> , 2016 , 90, 3017-3027	5.8	8
95	International STakeholder NETwork (ISTNET): creating a developmental neurotoxicity (DNT) testing road map for regulatory purposes. <i>Archives of Toxicology</i> , 2015 , 89, 269-87	5.8	107
94	EH3 (ABHD9): the first member of a new epoxide hydrolase family with high activity for fatty acid epoxides. <i>Journal of Lipid Research</i> , 2012 , 53, 2038-2045	6.3	51
93	Tonic inhibition in principal cells of the amygdala: a central role for β subunit-containing GABAA receptors. <i>Journal of Neuroscience</i> , 2012 , 32, 8611-9	6.6	68

92	Mammalian soluble epoxide hydrolase is identical to liver hepoxilin hydrolase. <i>Journal of Lipid Research</i> , 2011 , 52, 712-9	6.3	23
91	Identification of a CYP3A form (CYP3A126) in fathead minnow (<i>Pimephales promelas</i>) and characterisation of putative CYP3A enzyme activity. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 585-95	4.4	19
90	Mammalian epoxide hydrolases in xenobiotic metabolism and signalling. <i>Archives of Toxicology</i> , 2009 , 83, 297-318	5.8	157
89	Pharmacogenetics of modafinil after sleep loss: catechol-O-methyltransferase genotype modulates waking functions but not recovery sleep. <i>Clinical Pharmacology and Therapeutics</i> , 2009 , 85, 296-304	6.1	71
88	Distribution of soluble and microsomal epoxide hydrolase in the mouse brain and its contribution to cerebral epoxyeicosatrienoic acid metabolism. <i>Neuroscience</i> , 2009 , 163, 646-61	3.9	95
87	Directed evolution of an enantioselective epoxide hydrolase: uncovering the source of enantioselectivity at each evolutionary stage. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7334-43	16.4	128
86	Insights into the catalytic mechanism of human sEH phosphatase by site-directed mutagenesis and LC-MS/MS analysis. <i>Journal of Molecular Biology</i> , 2008 , 383, 627-40	6.5	20
85	Identification of two epoxide hydrolases in <i>Caenorhabditis elegans</i> that metabolize mammalian lipid signaling molecules. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 472, 139-49	4.1	29
84	Microsomal epoxide hydrolase E404D mutation influences the turnover of epoxyeicosatrienoic acids. <i>FASEB Journal</i> , 2008 , 22, 479.36	0.9	
83	Characterisation of a new human epoxide hydrolase capable of metabolizing epoxyeicosatrienoic acids. <i>FASEB Journal</i> , 2008 , 22, 479.49	0.9	
82	Identification of a new potential human epoxide hydrolase (ABHD7). <i>FASEB Journal</i> , 2008 , 22, 479.50	0.9	
81	Toxicological comments to the discussion about REACH. <i>Archives of Toxicology</i> , 2006 , 80, 121-4	5.8	36
80	Diversity and biocatalytic potential of epoxide hydrolases identified by genome analysis. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 2905-17	4.8	95
79	Comparison of lanosterol-14 alpha-demethylase (CYP51) of human and <i>Candida albicans</i> for inhibition by different antifungal azoles. <i>Toxicology</i> , 2006 , 228, 24-32	4.4	67
78	Structure of an atypical epoxide hydrolase from <i>Mycobacterium tuberculosis</i> gives insights into its function. <i>Journal of Molecular Biology</i> , 2005 , 351, 1048-56	6.5	40
77	Epoxide hydrolases: structure, function, mechanism, and assay. <i>Methods in Enzymology</i> , 2005 , 400, 569-88	7	82
76	Aryl hydrocarbon receptor activation by cAMP vs. dioxin: divergent signaling pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9218-23	11.5	143
75	Detoxication strategy of epoxide hydrolase-the basis for a novel threshold for definable genotoxic carcinogens. <i>Nonlinearity in Biology, Toxicology, Medicine</i> , 2004 , 2, 21-6		10

74	Enzymatic transformations. Part 58: Enantioconvergent biohydrolysis of styrene oxide derivatives catalysed by the <i>Solanum tuberosum</i> epoxide hydrolase. <i>Tetrahedron: Asymmetry</i> , 2004 , 15, 2801-2805		82
73	Enhancing the enantioselectivity of an epoxide hydrolase by directed evolution. <i>Organic Letters</i> , 2004 , 6, 177-80	6.2	146
72	Crystal structures of beta-galactosidase from <i>Penicillium</i> sp. and its complex with galactose. <i>Journal of Molecular Biology</i> , 2004 , 343, 1281-92	6.5	77
71	The N-terminal domain of mammalian soluble epoxide hydrolase is a phosphatase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 1552-7	11.5	109
70	Structure of <i>Rhodococcus erythropolis</i> limonene-1,2-epoxide hydrolase reveals a novel active site. <i>EMBO Journal</i> , 2003 , 22, 2583-92	13	125
69	Biochemical characterization of <i>Aspergillus awamori</i> exoinulinase: substrate binding characteristics and regioselectivity of hydrolysis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003 , 1650, 22-9	4	16
68	The telltale structures of epoxide hydrolases. <i>Drug Metabolism Reviews</i> , 2003 , 35, 365-83	7	57
67	Stereochemical features of the hydrolysis of 9,10-epoxystearic acid catalysed by plant and mammalian epoxide hydrolases. <i>Biochemical Journal</i> , 2002 , 366, 471-80	3.8	23
66	Mammalian Xenobiotic Epoxide Hydrolases 2002 , 459-483		9
65	Interest of genotyping and phenotyping of drug-metabolizing enzymes for the interpretation of biological monitoring of exposure to styrene. <i>Pharmacogenetics and Genomics</i> , 2002 , 12, 691-702		47
64	Purification, characterization, gene cloning and preliminary X-ray data of the exo-inulinase from <i>Aspergillus awamori</i> . <i>Biochemical Journal</i> , 2002 , 362, 131-5	3.8	32
63	Purification, characterization, gene cloning and preliminary X-ray data of the exo-inulinase from <i>Aspergillus awamori</i> . <i>Biochemical Journal</i> , 2002 , 362, 131-135	3.8	61
62	Spectrum of styrene-induced DNA adducts: the relationship to other biomarkers and prospects in human biomonitoring. <i>Mutation Research - Reviews in Mutation Research</i> , 2002 , 511, 239-54	7	34
61	Quantitative assessment of the expression of melanoma-associated antigens by non-competitive reverse transcription polymerase chain reaction 2001 , 19, 983		1
60	Differential effects of fluvoxamine and other antidepressants on the biotransformation of melatonin. <i>Journal of Clinical Psychopharmacology</i> , 2001 , 21, 167-74	1.7	53
59	Sequestration of biological reactive intermediates by trapping as covalent enzyme-intermediate complex. <i>Advances in Experimental Medicine and Biology</i> , 2001 , 500, 577-86	3.6	4
58	Structure of <i>Aspergillus niger</i> epoxide hydrolase at 1.8 Å resolution: implications for the structure and function of the mammalian microsomal class of epoxide hydrolases. <i>Structure</i> , 2000 , 8, 111-22	5.2	161
57	Monitoring CD8 T cell responses to NY-ESO-1: correlation of humoral and cellular immune responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 4760-5	11.5	318

56	Metabolic detoxification: implications for thresholds. <i>Toxicologic Pathology</i> , 2000 , 28, 382-7	2.1	50
55	Induction of primary NY-ESO-1 immunity: CD8+ T lymphocyte and antibody responses in peptide-vaccinated patients with NY-ESO-1+ cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 12198-203	11.5	365
54	Identification of NY-ESO-1 epitopes presented by human histocompatibility antigen (HLA)-DRB4*0101-0103 and recognized by CD4(+) T lymphocytes of patients with NY-ESO-1-expressing melanoma. <i>Journal of Experimental Medicine</i> , 2000 , 191, 625-30	16.6	182
53	Use of PCR to screen for promoter elements in genomic DNA library clones. <i>BioTechniques</i> , 1999 , 26, 718-22, 724-6	2.5	
52	Xenobiotic Metabolism 1999 , 83-109		16
51	Humoral immune responses of cancer patients against "Cancer-Testis" antigen NY-ESO-1: correlation with clinical events. <i>International Journal of Cancer</i> , 1999 , 84, 506-10	7.5	177
50	Differential subcellular localization of endogenous and transfected soluble epoxide hydrolase in mammalian cells: evidence for isozyme variants. <i>FEBS Letters</i> , 1999 , 445, 301-5	3.8	13
49	Acute hepatotoxicity of the polycyclic musk 7-acetyl-1,1,3,4,4,6-hexamethyl-1,2,3,4-tetrahydronaphthalene (AHTN). <i>Toxicology Letters</i> , 1999 , 111, 151-60	4.4	19
48	Catalytic triad of microsomal epoxide hydrolase: replacement of Glu404 with Asp leads to a strongly increased turnover rate. <i>Biochemical Journal</i> , 1999 , 337, 37-43	3.8	59
47	Cloning and molecular characterization of a soluble epoxide hydrolase from <i>Aspergillus niger</i> that is related to mammalian microsomal epoxide hydrolase. <i>Biochemical Journal</i> , 1999 , 344, 273-280	3.8	80
46	Catalytic triad of microsomal epoxide hydrolase: replacement of Glu404 with Asp leads to a strongly increased turnover rate. <i>Biochemical Journal</i> , 1999 , 337, 37	3.8	23
45	Cloning and molecular characterization of a soluble epoxide hydrolase from <i>Aspergillus niger</i> that is related to mammalian microsomal epoxide hydrolase. <i>Biochemical Journal</i> , 1999 , 344 Pt 1, 273-80	3.8	56
44	Enhancement of the Mutagenicity of Ethylene Oxide and Several Directly Acting Mutagens by Human Erythrocytes and its Reduction by Xenobiotic Interaction 1999 , 221-246		
43	Role of Individual Enzymes in the Control of Genotoxic Metabolites 1999 , 211-220		2
42	Glutathione S-transferase T1 and M1 gene defects in ovarian carcinoma. <i>Cancer Letters</i> , 1998 , 130, 43-8	9.9	33
41	A survey of the humoral immune response of cancer patients to a panel of human tumor antigens. <i>Journal of Experimental Medicine</i> , 1998 , 187, 1349-54	16.6	593
40	Polymorphisms of N-acetyltransferases, glutathione S-transferases, microsomal epoxide hydrolase and sulfotransferases: influence on cancer susceptibility. <i>Recent Results in Cancer Research</i> , 1998 , 154, 47-85	1.5	176
39	Simultaneous humoral and cellular immune response against cancer-testis antigen NY-ESO-1: definition of human histocompatibility leukocyte antigen (HLA)-A2-binding peptide epitopes. <i>Journal of Experimental Medicine</i> , 1998 , 187, 265-70	16.6	602

38	C-myc mRNA expression in epithelial ovarian carcinomas in relation to estrogen receptor status, metastatic spread, survival time, FIGO stage, and histologic grade and type. <i>International Journal of Gynecological Pathology</i> , 1998 , 17, 66-74	3.2	21
37	The membrane anchor of microsomal epoxide hydrolase from human, rat, and rabbit displays an unexpected membrane topology. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 236, 754-759	3.4	12
36	Visualization of a covalent intermediate between microsomal epoxide hydrolase, but not cholesterol epoxide hydrolase, and their substrates. <i>FEBS Journal</i> , 1997 , 245, 490-6		48
35	Recombinant expression of human microsomal epoxide hydrolase protects V79 Chinese hamster cells from styrene oxide- but not from ethylene oxide-induced DNA strand breaks. <i>Environmental and Molecular Mutagenesis</i> , 1997 , 30, 429-39	3.2	36
34	Immunoselection in vivo: independent loss of MHC class I and melanocyte differentiation antigen expression in metastatic melanoma. <i>International Journal of Cancer</i> , 1997 , 71, 142-7	7.5	266
33	Cellular expression of human centromere protein C demonstrates a cyclic behavior with highest abundance in the G1 phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 10234-9	11.5	13
32	Asp333, Asp495, and His523 form the catalytic triad of rat soluble epoxide hydrolase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 4223-9	5.4	109
31	Cytolytic T cell reactivity against melanoma-associated differentiation antigens in peripheral blood of melanoma patients and healthy individuals. <i>Melanoma Research</i> , 1996 , 6, 419-25	3.3	46
30	The catalytic activity of the endoplasmic reticulum-resident protein microsomal epoxide hydrolase towards carcinogens is retained on inversion of its membrane topology. <i>Biochemical Journal</i> , 1996 , 319 (Pt 1), 131-6	3.8	7
29	Generation of cytotoxic T-cell responses with synthetic melanoma-associated peptides in vivo: implications for tumor vaccines with melanoma-associated antigens. <i>International Journal of Cancer</i> , 1996 , 66, 162-9	7.5	163
28	Inverse relationship of melanocyte differentiation antigen expression in melanoma tissues and CD8+ cytotoxic-T-cell responses: evidence for immunoselection of antigen-loss variants in vivo. <i>International Journal of Cancer</i> , 1996 , 66, 470-6	7.5	214
27	Granulocyte-macrophage-colony-stimulating factor enhances immune responses to melanoma-associated peptides in vivo. <i>International Journal of Cancer</i> , 1996 , 67, 54-62	7.5	226
26	A multiplex polymerase chain reaction protocol for the simultaneous analysis of the glutathione S-transferase GSTM1 and GSTT1 polymorphisms. <i>Analytical Biochemistry</i> , 1996 , 236, 184-6	3.1	275
25	Inducing properties of rifampicin and rifabutin for selected enzyme activities of the cytochrome P-450 and UDP-glucuronosyltransferase superfamilies in female rat liver. <i>Journal of Antimicrobial Chemotherapy</i> , 1996 , 37, 1111-9	5.1	33
24	Investigating the role of the microsomal epoxide hydrolase membrane topology and its implication for drug metabolism pathways. <i>Advances in Experimental Medicine and Biology</i> , 1996 , 387, 17-24	3.6	
23	Xenobiotic metabolizing enzyme activities and viability are well preserved in EDTA-isolated rat liver parenchymal cells after cryopreservation. <i>Toxicology and Applied Pharmacology</i> , 1995 , 130, 149-53	4.6	15
22	Induction of rat liver microsomal epoxide hydrolase by its endogenous substrate 16 alpha, 17 alpha-epoxyestra-1,3,5-trien-3-ol. <i>Xenobiotica</i> , 1995 , 25, 239-44	2	16
21	Gene evolution of epoxide hydrolases and recommended nomenclature. <i>DNA and Cell Biology</i> , 1995 , 14, 61-71	3.6	119

20	Detection of primary DNA damage: applicability to biomonitoring of genotoxic occupational exposure and in clinical therapy. <i>Pharmacogenetics and Genomics</i> , 1995 , 5 Spec No, S118-22		11
19	Non-competitive inhibition of clomipramine N-demethylation by fluvoxamine. <i>Psychopharmacology</i> , 1995 , 117, 149-53	4.7	16
18	The anticonvulsant FCE 26743 is a selective and short-acting MAO-B inhibitor devoid of inducing properties towards cytochrome P450-dependent testosterone hydroxylation in mice and rats. <i>Journal of Pharmacy and Pharmacology</i> , 1994 , 46, 814-9	4.8	15
17	Isolation of a putative hydroxyacyl enzyme intermediate of an epoxide hydrolase. <i>Biochemical and Biophysical Research Communications</i> , 1994 , 198, 850-6	3.4	58
16	Sequence similarity of mammalian epoxide hydrolases to the bacterial haloalkane dehalogenase and other related proteins. Implication for the potential catalytic mechanism of enzymatic epoxide hydrolysis. <i>FEBS Letters</i> , 1994 , 338, 251-6	3.8	128
15	Xenobiotic metabolizing enzyme activities in isolated and cryopreserved human liver parenchymal cells. <i>Toxicology in Vitro</i> , 1994 , 8, 1161-6	3.6	17
14	Monitoring Sodium Dodecyl Sulfate Contamination 1994 , 276-278		3
13	Xenobiotic-metabolizing enzyme activities in hybrid cell lines established by fusion of primary rat liver parenchymal cells with hepatoma cells. <i>Xenobiotica</i> , 1992 , 22, 1451-7	2	12
12	Sequence of a novel cytochrome CYP2B cDNA coding for a protein which is expressed in a sebaceous gland, but not in the liver. <i>Biochemical Journal</i> , 1992 , 287 (Pt 3), 775-83	3.8	14
11	The distribution of UDP-glucuronosyltransferases in rat liver parenchymal and nonparenchymal cells. <i>Biochemical Pharmacology</i> , 1992 , 43, 731-7	6	11
10	Induction of the peroxisome proliferator activated receptor by fenofibrate in rat liver. <i>FEBS Letters</i> , 1992 , 309, 37-40	3.8	87
9	Improved sample preparation for the testosterone hydroxylation assay using disposable extraction columns. <i>Biomedical Applications</i> , 1992 , 582, 232-5		17
8	Colorimetric quantitation of trace amounts of sodium lauryl sulfate in the presence of nucleic acids and proteins. <i>Analytical Biochemistry</i> , 1992 , 207, 73-5	3.1	63
7	Production of site-specific P450 antibodies using recombinant fusion proteins as antigens. <i>Methods in Enzymology</i> , 1991 , 206, 193-201	1.7	6
6	Selective induction of bilirubin UDP-glucuronosyl-transferase by perfluorodecanoic acid. <i>Chemico-Biological Interactions</i> , 1991 , 77, 97-105	5	7
5	An impaired peroxisomal targeting sequence leading to an unusual bicompartamental distribution of cytosolic epoxide hydrolase. <i>FEBS Letters</i> , 1991 , 294, 19-22	3.8	41
4	A fluorometric assay for quantitating phenol sulfotransferase activities in homogenates of cells and tissues. <i>Analytical Biochemistry</i> , 1987 , 163, 546-51	3.1	28
3	A time-course investigation of vitamin A levels and drug metabolizing enzyme activities in rats following a single treatment with prototypic polychlorinated biphenyls and DDT. <i>Toxicology</i> , 1987 , 44, 341-54	4.4	37

2	cis- and trans-1,2-diphenylaziridines: induction of xenobiotic-metabolizing enzymes in rat liver and mutagenicity in <i>Salmonella typhimurium</i> . <i>Archives of Toxicology</i> , 1986 , 59, 242-8	5.8	6
1	Effects of congeneric polychlorinated biphenyls on liver and kidney retinoid levels. <i>Chemosphere</i> , 1986 , 15, 1905-1908	8.4	2