

Matthew L Edin

List of Publications by Year in descending order

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97
papers

4,395
citations

81900

39
h-index

118850

62
g-index

98
all docs

98
docs citations

98
times ranked

5765
citing authors

#	ARTICLE	IF	CITATIONS
1	Epoxyeicosanoids stimulate multiorgan metastasis and tumor dormancy escape in mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 178-191.	8.2	242
2	Cytochrome P450 Epoxygenase Promotes Human Cancer Metastasis. <i>Cancer Research</i> , 2007, 67, 6665-6674.	0.9	192
3	Integrin regulation of cell signalling and motility. <i>Biochemical Society Transactions</i> , 2004, 32, 443-446.	3.4	146
4	Bone Toxicity of Locally Applied Aminoglycosides. <i>Journal of Orthopaedic Trauma</i> , 1995, 9, 401-406.	1.4	126
5	Endothelial expression of human cytochrome P450 epoxygenases lowers blood pressure and attenuates hypertension-induced renal injury in mice. <i>FASEB Journal</i> , 2010, 24, 3770-3781.	0.5	126
6	Epoxyeicosanoids promote organ and tissue regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13528-13533.	7.1	124
7	Endothelial CYP epoxygenase overexpression and soluble epoxide hydrolase disruption attenuate acute vascular inflammatory responses in mice. <i>FASEB Journal</i> , 2011, 25, 703-713.	0.5	113
8	Vascular actions of 20-HETE. <i>Prostaglandins and Other Lipid Mediators</i> , 2015, 120, 9-16.	1.9	107
9	CYP450-derived oxylipins mediate inflammatory resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3240-9.	7.1	107
10	Metabolic reprogramming through fatty acid transport protein 1 (FATP1) regulates macrophage inflammatory potential and adipose inflammation. <i>Molecular Metabolism</i> , 2016, 5, 506-526.	6.5	107
11	Endothelial expression of human cytochrome P450 epoxygenase CYP2C8 increases susceptibility to ischemia-reperfusion injury in isolated mouse heart. <i>FASEB Journal</i> , 2011, 25, 3436-3447.	0.5	101
12	Increased CYP2J3 Expression Reduces Insulin Resistance in Fructose-Treated Rats and db/db Mice. <i>Diabetes</i> , 2010, 59, 997-1005.	0.6	98
13	Selective Inhibitors of CYP2J2 Related to Terfenadine Exhibit Strong Activity against Human Cancers in Vitro and in Vivo. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 329, 908-918.	2.5	96
14	Evaluation of cytochrome P450-derived eicosanoids in humans with stable atherosclerotic cardiovascular disease. <i>Atherosclerosis</i> , 2012, 222, 530-536.	0.8	89
15	Optimized Inhibitors of Soluble Epoxide Hydrolase Improve in Vitro Target Residence Time and in Vivo Efficacy. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 7016-7030.	6.4	81
16	The Cytochrome P450 Epoxygenase Pathway Regulates the Hepatic Inflammatory Response in Fatty Liver Disease. <i>PLoS ONE</i> , 2014, 9, e110162.	2.5	79
17	CYP2J2-Derived Epoxyeicosatrienoic Acids Suppress Endoplasmic Reticulum Stress in Heart Failure. <i>Molecular Pharmacology</i> , 2014, 85, 105-115.	2.3	78
18	Effect of ciprofloxacin on the proliferation of osteoblast-like MG-63 human osteosarcoma cells in vitro. <i>Journal of Orthopaedic Research</i> , 1998, 16, 509-512.	2.3	77

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19	Prostaglandin E ₂ protects murine lungs from bleomycin-induced pulmonary fibrosis and lung dysfunction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 301, L645-L655.	2.9	74
20	Epoxyeicosatrienoic Acids Attenuate Reactive Oxygen Species Level, Mitochondrial Dysfunction, Caspase Activation, and Apoptosis in Carcinoma Cells Treated with Arsenic Trioxide. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 339, 451-463.	2.5	73
21	Endogenous Epoxygenases Are Modulators of Monocyte/Macrophage Activity. <i>PLoS ONE</i> , 2011, 6, e26591.	2.5	71
22	Increased Endothelial Nitric-Oxide Synthase Expression Reduces Hypertension and Hyperinsulinemia in Fructose-Treated Rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 328, 610-620.	2.5	67
23	Functional characterization of cytochrome P450-derived epoxyeicosatrienoic acids in adipogenesis and obesity. <i>Journal of Lipid Research</i> , 2014, 55, 2124-2136.	4.2	67
24	Oviductal estrogen receptor α signaling prevents protease-mediated embryo death. <i>ELife</i> , 2015, 4, e10453.	6.0	67
25	Epoxide hydrolase 1 (EPHX1) hydrolyzes epoxyeicosanoids and impairs cardiac recovery after ischemia. <i>Journal of Biological Chemistry</i> , 2018, 293, 3281-3292.	3.4	59
26	Sinus Surgery Is Associated with a Decrease in Aspirin-Induced Reaction Severity in Patients with Aspirin Exacerbated Respiratory Disease. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2019, 7, 1580-1588.	3.8	58
27	Cyclooxygenase-2 Regulates Th17 Cell Differentiation during Allergic Lung Inflammation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 184, 37-49.	5.6	57
28	Cytochrome P450-derived eicosanoids and vascular dysfunction in coronary artery disease patients. <i>Atherosclerosis</i> , 2013, 227, 442-448.	0.8	57
29	Raf-1 Serine 338 Phosphorylation Plays a Key Role in Adhesion-Dependent Activation of Extracellular Signal-Regulated Kinase by Epidermal Growth Factor. <i>Molecular and Cellular Biology</i> , 2005, 25, 4466-4475.	2.3	52
30	Diminished Acyl-CoA Synthetase Isoform 4 Activity in INS 832/13 Cells Reduces Cellular Epoxyeicosatrienoic Acid Levels and Results in Impaired Glucose-stimulated Insulin Secretion. <i>Journal of Biological Chemistry</i> , 2013, 288, 21618-21629.	3.4	51
31	Tissue Kallikrein Reverses Insulin Resistance and Attenuates Nephropathy in Diabetic Rats by Activation of Phosphatidylinositol 3-Kinase/Protein Kinase B and Adenosine 5'-Monophosphate-Activated Protein Kinase Signaling Pathways. <i>Endocrinology</i> , 2007, 148, 2016-2026.	2.8	50
32	Cytochrome P450-derived epoxyeicosatrienoic acids and coronary artery disease in humans: a targeted metabolomics study. <i>Journal of Lipid Research</i> , 2016, 57, 109-119.	4.2	50
33	Adeno-Associated Virus-Mediated Human C-Reactive Protein Gene Delivery Causes Endothelial Dysfunction and Hypertension in Rats. <i>Clinical Chemistry</i> , 2009, 55, 274-284.	3.2	47
34	Cytochrome P450 2C8 ω -3-Long-Chain Polyunsaturated Fatty Acid Metabolites Increase Mouse Retinal Pathologic Neovascularization ³⁹ Brief Report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 581-586.	2.4	46
35	Targeted Metabolomics Identifies the Cytochrome P450 Monooxygenase Eicosanoid Pathway as a Novel Therapeutic Target of Colon Tumorigenesis. <i>Cancer Research</i> , 2019, 79, 1822-1830.	0.9	45
36	Inhibition of PKA Blocks Fibroblast Migration in Response to Growth Factors. <i>Experimental Cell Research</i> , 2001, 270, 214-222.	2.6	44

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37	Cyclooxygenase-2 Inhibits T Helper Cell Type 9 Differentiation during Allergic Lung Inflammation via Down-regulation of IL-17RB. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 812-822.	5.6	44
38	Regulation of T helper cell subsets by cyclooxygenases and their metabolites. <i>Prostaglandins and Other Lipid Mediators</i> , 2013, 104-105, 74-83.	1.9	44
39	Fenofibrate Inhibits Cytochrome P450 Epoxygenase 2C Activity to Suppress Pathological Ocular Angiogenesis. <i>EBioMedicine</i> , 2016, 13, 201-211.	6.1	44
40	Aspirin inhibits the production of proangiogenic 15 <i>(i>S</i>)-HETE by platelet cyclooxygenase. <i>FASEB Journal</i>, 2016, 30, 4256-4266.</i>	0.5	44
41	Roles of the epoxygenase CYP2J2 in the endothelium. <i>Prostaglandins and Other Lipid Mediators</i> , 2013, 107, 56-63.	1.9	42
42	Good or bad: Application of RAAS inhibitors in COVID-19 patients with cardiovascular comorbidities. , 2020, 215, 107628.		41
43	Cytochrome P450 2J2 is protective against global cerebral ischemia in transgenic mice. <i>Prostaglandins and Other Lipid Mediators</i> , 2012, 99, 68-78.	1.9	40
44	Basal and inducible anti-inflammatory epoxygenase activity in endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 633-637.	2.1	39
45	CYP2J2 overexpression attenuates nonalcoholic fatty liver disease induced by high-fat diet in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E97-E110.	3.5	39
46	Cytochrome P450 Oxidase 2C Inhibition Adds to 3 Long-Chain Polyunsaturated Fatty Acids Protection Against Retinal and Choroidal Neovascularization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 1919-1927.	2.4	38
47	Inducible CYP2J2 and Its Product 11,12-EET Promotes Bacterial Phagocytosis: A Role for CYP2J2 Deficiency in the Pathogenesis of Crohn's Disease?. <i>PLoS ONE</i> , 2013, 8, e75107.	2.5	37
48	Differential effects of soluble epoxide hydrolase inhibition and CYP2J2 overexpression on postischemic cardiac function in aged mice. <i>Prostaglandins and Other Lipid Mediators</i> , 2013, 104-105, 8-17.	1.9	36
49	Role of Cyclooxygenase-2 in Exacerbation of Allergen-Induced Airway Remodeling by Multiwalled Carbon Nanotubes. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 525-535.	2.9	36
50	Vascular characterization of mice with endothelial expression of cytochrome P450 4F2. <i>FASEB Journal</i> , 2014, 28, 2915-2931.	0.5	33
51	Prediagnostic Serum Levels of Fatty Acid Metabolites and Risk of Ovarian Cancer in the Prostate, Lung, Colorectal, and Ovarian (PLCO) Cancer Screening Trial. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2019, 28, 189-197.	2.5	33
52	Characterization of Four New Mouse Cytochrome P450 Enzymes of the CYP2J Subfamily. <i>Drug Metabolism and Disposition</i> , 2013, 41, 763-773.	3.3	32
53	Plasma 15-Hydroxyeicosatetraenoic Acid Predicts Treatment Outcomes in Aspirin-Exacerbated Respiratory Disease. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2017, 5, 998-1007.e2.	3.8	32
54	Cytochrome P450 monooxygenase lipid metabolites are significant second messengers in the resolution of choroidal neovascularization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7545-E7553.	7.1	32

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55	Role of Endothelial Soluble Epoxide Hydrolase in Cerebrovascular Function and Ischemic Injury. PLoS ONE, 2013, 8, e61244.	2.5	31
56	Delivery of Recombinant Adeno-Associated Virus-Mediated Human Tissue Kallikrein for Therapy of Chronic Renal Failure in Rats. Human Gene Therapy, 2008, 19, 318-330.	2.7	30
57	Kidney Transplantation in a Patient Lacking Cytosolic Phospholipase A ₂ Proves Renal Origins of Urinary PGI-M and TX-M. Circulation Research, 2018, 122, 555-559.	4.5	28
58	Contribution of alveolar type II cell-derived cyclooxygenase-2 to basal airway function, lung inflammation, and lung fibrosis. FASEB Journal, 2016, 30, 160-173.	0.5	27
59	Inherited human group IVA cytosolic phospholipase A ₂ deficiency abolishes platelet, endothelial, and leucocyte eicosanoid generation. FASEB Journal, 2015, 29, 4568-4578.	0.5	26
60	Characterization of the Tissue Distribution of the Mouse Cyp2c Subfamily by Quantitative PCR Analysis. Drug Metabolism and Disposition, 2017, 45, 807-816.	3.3	24
61	Lipopolysaccharide Potentiates Insulin-Driven Hypoglycemic Shock. Journal of Immunology, 2017, 199, 3634-3643.	0.8	24
62	Quantitative Polymerase Chain Reaction Analysis of the Mouse Cyp2j Subfamily: Tissue Distribution and Regulation. Drug Metabolism and Disposition, 2015, 43, 1169-1180.	3.3	23
63	Proteome and functional decline as platelets age in the circulation. Journal of Thrombosis and Haemostasis, 2021, 19, 3095-3112.	3.8	23
64	Effect of Soluble Epoxide Hydrolase on the Modulation of Coronary Reactive Hyperemia: Role of Oxylipins and PPAR β . PLoS ONE, 2016, 11, e0162147.	2.5	22
65	Characterization of the Cytochrome P450 epoxyeicosanoid pathway in non-alcoholic steatohepatitis. Prostaglandins and Other Lipid Mediators, 2016, 125, 19-29.	1.9	22
66	Role of linoleic acid-derived oxylipins in cancer. Cancer and Metastasis Reviews, 2020, 39, 581-582.	5.9	20
67	Dual modulation of cyclooxygenase and CYP epoxygenase metabolism and acute vascular inflammation in mice. Prostaglandins and Other Lipid Mediators, 2013, 104-105, 67-73.	1.9	18
68	Deletion of soluble epoxide hydrolase enhances coronary reactive hyperemia in isolated mouse heart: role of oxylipins and PPAR β . American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R676-R688.	1.8	17
69	Mechanistic definition of the cardiovascular mPGES-1/COX-2/ADMA axis. Cardiovascular Research, 2020, 116, 1972-1980.	3.8	16
70	Soluble epoxide hydrolase deficiency attenuates lipotoxic cardiomyopathy via upregulation of AMPK-mTORC mediated autophagy. Journal of Molecular and Cellular Cardiology, 2021, 154, 80-91.	1.9	15
71	Epoxygenase inactivation exacerbates diet and aging-associated metabolic dysfunction resulting from impaired adipogenesis. Molecular Metabolism, 2018, 11, 18-32.	6.5	14
72	Generation and characterization of epoxide hydrolase 3 (EPHX3)-deficient mice. PLoS ONE, 2017, 12, e0175348.	2.5	13

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73	Inflammation and oxidative stress as mediators of the impacts of environmental exposures on human pregnancy: Evidence from oxylipins. , 2022, 239, 108181.		13
74	Rosuvastatin attenuates the elevation in blood pressure induced by overexpression of human C-reactive protein. Hypertension Research, 2011, 34, 869-875.	2.7	12
75	Sex- and isoform-specific mechanism of neuroprotection by transgenic expression of P450 epoxygenase in vascular endothelium. Experimental Neurology, 2016, 279, 75-85.	4.1	12
76	Soluble Epoxide Hydrolase in Aged Female Mice and Human Explanted Hearts Following Ischemic Injury. International Journal of Molecular Sciences, 2021, 22, 1691.	4.1	12
77	Vascular endothelial overexpression of human CYP2J2 (Tie2-CYP2J2 Tr) modulates cardiac oxylipin profiles and enhances coronary reactive hyperemia in mice. PLoS ONE, 2017, 12, e0174137.	2.5	11
78	Intimal smooth muscle cells are a source but not a sensor of anti-inflammatory CYP450 derived oxylipins. Biochemical and Biophysical Research Communications, 2015, 463, 774-780.	2.1	10
79	Vascular Endothelial Over-Expression of Human Soluble Epoxide Hydrolase (Tie2-sEH Tr) Attenuates Coronary Reactive Hyperemia in Mice: Role of Oxylipins and 15-Hydroxylases. PLoS ONE, 2017, 12, e0169584.	2.5	10
80	Expression of <i>Cyp2c/Cyp2j</i> subfamily members and oxylipin levels during LPS-induced inflammation and resolution in mice. FASEB Journal, 2019, 33, 14784-14797.	0.5	10
81	Profiling the eicosanoid networks that underlie the anti- and pro-thrombotic effects of aspirin. FASEB Journal, 2020, 34, 10027-10040.	0.5	10
82	Vascular Lipidomic Profiling of Potential Endogenous Fatty Acid PPAR Ligands Reveals the Coronary Artery as Major Producer of CYP450-Derived Epoxy Fatty Acids. Cells, 2020, 9, 1096.	4.1	10
83	Epoxide hydrolase 3 (Ephx3) gene disruption reduces ceramide linoleate epoxide hydrolysis and impairs skin barrier function. Journal of Biological Chemistry, 2021, 296, 100198.	3.4	10
84	sEH promotes macrophage phagocytosis and lung clearance of Streptococcus pneumoniae. Journal of Clinical Investigation, 2021, 131, .	8.2	10
85	Reduced coronary reactive hyperemia in mice was reversed by the soluble epoxide hydrolase inhibitor () Tj ETQq1 1 0.784314 rgBT /Ome Mediators, 2017, 131, 83-95.	1.9	8
86	Identification of a homozygous recessive variant in <i>PTGS1</i> resulting in a congenital aspirin-like defect in platelet function. Haematologica, 2021, 106, 1423-1432.	3.5	7
87	Regulation of cardiovascular biology by microsomal epoxide hydrolase. Toxicological Research, 2021, 37, 285-292.	2.1	7
88	Cyp2j5-Gene Deletion Affects on Acetylcholine and Adenosine-Induced Relaxation in Mice: Role of Angiotensin-II and CYP-Epoxygenase Inhibitor. Frontiers in Pharmacology, 2020, 11, 27.	3.5	6
89	P450 Enzymes in Lipid Oxidation. , 2015, , 881-905.		6
90	An improved protocol for the treatment of fulminant myocarditis. Science China Life Sciences, 2019, 62, 433-434.	4.9	5

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91	Commercial scale production of RvD4 opens the resolving door to new research. <i>Journal of Leukocyte Biology</i> , 2018, 103, 991-993.	3.3	4
92	Ephx2-gene deletion affects acetylcholine-induced relaxation in angiotensin-II infused mice: role of nitric oxide and CYP-epoxygenases. <i>Molecular and Cellular Biochemistry</i> , 2020, 465, 37-51.	3.1	4
93	Natural Products in the Prevention of Metabolic Diseases: Lessons Learned from the 20th KAST Frontier Scientists Workshop. <i>Nutrients</i> , 2021, 13, 1881.	4.1	4
94	Letter by Mitchell et al Regarding Article, "Urinary Prostaglandin Metabolites: An Incomplete Reckoning and a Flush to Judgment". <i>Circulation Research</i> , 2018, 122, e84-e85.	4.5	3
95	Changes in the Left Ventricular Eicosanoid Profile in Human Dilated Cardiomyopathy. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	2.4	3
96	A novel genetic variant in <i>PTGS1</i> affects N-glycosylation of cyclooxygenase-1 causing a dominant negative effect on platelet function and bleeding diathesis. <i>American Journal of Hematology</i> , 2021, 96, E83-E88.	4.1	2
97	147...Platelet cox-1 knockout mouse as a model of the effects of aspirin in the cardiovascular system. <i>Heart</i> , 2017, 103, A108.3-A109.	2.9	1