Kin Sing Stephen Lee

List of Publications by Year
in descending order

62	2,120	218381	243296
papers	citations	26 h-index	44 g-index

62	62	62	2841
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Epoxy metabolites of docosahexaenoic acid (DHA) inhibit angiogenesis, tumor growth, and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6530-6535.	3.3	251
2	Endoplasmic reticulum stress in the peripheral nervous system is a significant driver of neuropathic pain. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9082-9087.	3.3	141
3	Tuning the Electronic Absorption of Protein-Embedded All- trans -Retinal. Science, 2012, 338, 1340-1343.	6.0	111
4	Unique mechanistic insights into the beneficial effects of soluble epoxide hydrolase inhibitors in the prevention of cardiac fibrosis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5618-5623.	3.3	85
5	Optimized Inhibitors of Soluble Epoxide Hydrolase Improve in Vitro Target Residence Time and in Vivo Efficacy. Journal of Medicinal Chemistry, 2014, 57, 7016-7030.	2.9	81
6	An Omega-3 Epoxide of Docosahexaenoic Acid Lowers Blood Pressure in Angiotensin-Iiâ€“Dependent Hypertension. Journal of Cardiovascular Pharmacology, 2014, 64, 87-99.	0.8	76
7	Movement to the Clinic of Soluble Epoxide Hydrolase Inhibitor EC5026 as an Analgesic for Neuropathic Pain and for Use as a Nonaddictive Opioid Alternative. Journal of Medicinal Chemistry, 2021, 64, 1856-1872.	2.9	76
8	Soluble Epoxide Hydrolase Inhibitor Attenuates Lipopolysaccharide-Induced Acute Lung Injury and Improves Survival in Mice. Shock, 2017, 47, 638-645.	1.0	73
9	â€œTurn-Onâ€•Protein Fluorescence: In Situ Formation of Cyanine Dyes. Journal of the American Chemical Society, 2015, 137, 1073-1080.	6.6	58
10	Cyclooxygenase-derived proangiogenic metabolites of epoxyeicosatrienoic acids. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4370-4375.	3.3	57
11	Epoxy Fatty Acids and Inhibition of the Soluble Epoxide Hydrolase Selectively Modulate GABA Mediated Neurotransmission to Delay Onset of Seizures. PLoS ONE, 2013, 8, e80922.	1.1	54
12	Rational Design of a Colorimetric pH Sensor from a Soluble Retinoic Acid Chaperone. Journal of the American Chemical Society, 2013, 135, 16111-16119.	6.6	51
13	Symmetric adamantyl-diureas as soluble epoxide hydrolase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2193-2197.	1.0	47
14	Epoxide metabolites of arachidonate and docosahexaenoate function conversely in acute kidney injury involved in GSK3Î² signaling. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12608-12613.	3.3	45
15	Targeted Metabolomics Identifies the Cytochrome P450 Monooxygenase Eicosanoid Pathway as a Novel Therapeutic Target of Colon Tumorigenesis. Cancer Research, 2019, 79, 1822-1830.	0.4	45
16	Pro-atherogenic role of smooth muscle Nox4-based NADPH oxidase. Journal of Molecular and Cellular Cardiology, 2016, 92, 30-40.	0.9	41
17	Molecular Mechanisms and New Treatment Paradigm for Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	2.1	39
18	Cytochrome P450 Oxidase 2C Inhibition Adds to Ï‰-3 Long-Chain Polyunsaturated Fatty Acids Protection Against Retinal and Choroidal Neovascularization. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1919-1927.	1.1	38

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19	Soluble epoxide hydrolase inhibition decreases reperfusion injury after focal cerebral ischemia. Scientific Reports, 2018, 8, 5279.	1.6	38
20	Drug-Target Residence Time Affects in Vivo Target Occupancy through Multiple Pathways. ACS Central Science, 2019, 5, 1614-1624.	5.3	37
21	Linoleic acid participates in the response to ischemic brain injury through oxidized metabolites that regulate neurotransmission. Scientific Reports, 2017, 7, 4342.	1.6	36
22	Effect of soluble epoxide hydrolase polymorphism on substrate and inhibitor selectivity and dimer formation. Journal of Lipid Research, 2014, 55, 1131-1138.	2.0	34
23	Cytochrome P450 monooxygenase lipid metabolites are significant second messengers in the resolution of choroidal neovascularization. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7545-E7553.	3.3	32
24	Soluble epoxide hydrolase is an endogenous regulator of obesity-induced intestinal barrier dysfunction and bacterial translocation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8431-8436.	3.3	32
25	Ï‰-3 Polyunsaturated fatty acids and their cytochrome P450-derived metabolites suppress colorectal tumor development in mice. Journal of Nutritional Biochemistry, 2017, 48, 29-35.	1.9	31
26	Endothelial Nox4-based NADPH oxidase regulates atherosclerosis via soluble epoxide hydrolase. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 1382-1391.	1.8	29
27	Novel Omega-3 Fatty Acid Epoxygenase Metabolite Reduces Kidney Fibrosis. International Journal of Molecular Sciences, 2016, 17, 751.	1.8	27
28	Cytochrome P450 Metabolism of Polyunsaturated Fatty Acids and Neurodegeneration. Nutrients, 2020, 12, 3523.	1.7	26
29	Remarkable axial ligand effect on regioselectivity towards terminal alkenes in epoxidation of dienes by a robust manganese porphyrin. Chemical Communications, 2003, , 620-621.	2.2	25
30	Ingestion of the epoxide hydrolase inhibitor AUDA modulates immune responses of the mosquito, Culex quinquefasciatus during blood feeding. Insect Biochemistry and Molecular Biology, 2016, 76, 62-69.	1.2	25
31	A new sensitive LC/MS/MS analysis of vitamin D metabolites using a click derivatization reagent, 2-nitrosopyridine. Journal of Lipid Research, 2017, 58, 798-808.	2.0	25
32	Brain oxylipin concentrations following hypercapnia/ischemia: effects of brain dissection and dissection time. Journal of Lipid Research, 2019, 60, 671-682.	2.0	24
33	Soluble Epoxide Hydrolase Pharmacological Inhibition Decreases Alveolar Bone Loss by Modulating Host Inflammatory Response, RANK-Related Signaling, Endoplasmic Reticulum Stress, and Apoptosis. Journal of Pharmacology and Experimental Therapeutics, 2017, 361, 408-416.	1.3	23
34	Inhibition of soluble epoxide hydrolase augments astrocyte release of vascular endothelial growth factor and neuronal recovery after oxygenâ€glucose deprivation. Journal of Neurochemistry, 2017, 140, 814-825.	2.1	23
35	Soluble epoxide hydrolase in podocytes is a significant contributor to renal function under hyperglycemia. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2758-2765.	1.1	21
36	FÃ¶rster resonance energy transfer competitive displacement assay for human soluble epoxide hydrolase. Analytical Biochemistry, 2013, 434, 259-268.	1.1	20

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37	Inactivation of Cys⁶⁷⁴ in SERCA2 increases BP by inducing endoplasmic reticulum stress and soluble epoxide hydrolase. British Journal of Pharmacology, 2020, 177, 1793-1805.	2.7	19
38	Preparation and evaluation of soluble epoxide hydrolase inhibitors with improved physical properties and potencies for treating diabetic neuropathic pain. Bioorganic and Medicinal Chemistry, 2020, 28, 115735.	1.4	18
39	Probing Wavelength Regulation with an Engineered Rhodopsin Mimic and a C15â€Retinal Analogue. ChemPlusChem, 2012, 77, 273-276.	1.3	17
40	PPARÎ´ signaling mediates the cytotoxicity of DHA in H9c2 cells. Toxicology Letters, 2015, 232, 10-20.	0.4	17
41	Active-Site Flexibility and Substrate Specificity in a Bacterial Virulence Factor: Crystallographic Snapshots of an Epoxide Hydrolase. Structure, 2017, 25, 697-707.e4.	1.6	15
42	Relative Importance of Soluble and Microsomal Epoxide Hydrolases for the Hydrolysis of Epoxy-Fatty Acids in Human Tissues. International Journal of Molecular Sciences, 2021, 22, 4993.	1.8	14
43	Dissection of the critical binding determinants of cellular retinoic acid binding protein II by mutagenesis and fluorescence binding assay. Proteins: Structure, Function and Bioinformatics, 2009, 76, 281-290.	1.5	13
44	Chemical synthesis and biological evaluation of Ï‰-hydroxy polyunsaturated fatty acids. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 620-625.	1.0	13
45	Elucidating the exact role of engineered CRABPII residues for the formation of a retinal protonated Schiff base. Proteins: Structure, Function and Bioinformatics, 2009, 77, 812-822.	1.5	12
46	Suppression of inflammation and fibrosis using soluble epoxide hydrolase inhibitors enhances cardiac stem cellâ€based therapy. Stem Cells Translational Medicine, 2020, 9, 1570-1584.	1.6	12
47	Enzymatic synthesis and chemical inversion provide both enantiomers of bioactive epoxydocosapentaenoic acids. Journal of Lipid Research, 2018, 59, 2237-2252.	2.0	11
48	Asymmetric Total Synthesis of 19,20-Epoxydocosapentaenoic Acid, a Bioactive Metabolite of Docosahexaenoic Acid. Journal of Organic Chemistry, 2019, 84, 15362-15372.	1.7	11
49	trans, trans-2,4-Decadienal, a lipid peroxidation product, induces inflammatory responses via Hsp90- or 14â€“3-3Î¶-dependent mechanisms. Journal of Nutritional Biochemistry, 2020, 76, 108286.	1.9	10
50	Soluble Epoxide Hydrolase Inhibition and Epoxyeicosatrienoic Acid Treatment Improve Vascularization of Engineered Skin Substitutes. Plastic and Reconstructive Surgery - Global Open, 2016, 4, e1151.	0.3	9
51	Probing the orientation of inhibitor and epoxy-eicosatrienoic acid binding in the active site of soluble epoxide hydrolase. Archives of Biochemistry and Biophysics, 2017, 613, 1-11.	1.4	9
52	Simultaneous Target-Mediated Drug Disposition Model for Two Small-Molecule Compounds Competing for Their Pharmacological Target: Soluble Epoxide Hydrolase. Journal of Pharmacology and Experimental Therapeutics, 2020, 374, 223-232.	1.3	9
53	Targetâ€Mediated Drug Dispositionâ€”A Class Effect of Soluble Epoxide Hydrolase Inhibitors. Journal of Clinical Pharmacology, 2021, 61, 531-537.	1.0	7
54	Centrality of Myeloid-Lineage Phagocytes in Particle-Triggered Inflammation and Autoimmunity. Frontiers in Toxicology, 2021, 3, 777768.	1.6	7

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55	Identification of potent inhibitors of the chicken soluble epoxide hydrolase. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 276-279.	1.0	6
56	Synthesis of cyclooxygenase metabolites of 8,9-epoxyeicosatrienoic acid (EET): 11- and 15-hydroxy 8,9-EETs. Organic and Biomolecular Chemistry, 2017, 15, 4308-4313.	1.5	5
57	Selection of Potent Inhibitors of Soluble Epoxide Hydrolase for Usage in Veterinary Medicine. Frontiers in Veterinary Science, 2020, 7, 580.	0.9	5
58	Enzymatic Synthesis of Epoxidized Metabolites of Docosahexaenoic, Eicosapentaenoic, and Arachidonic Acids. Journal of Visualized Experiments, 2019, , .	0.2	4
59	Using C. elegans to Investigate the Effects of Polyunsaturated Fatty Acids and Their Metabolites on Lifespan and Healthspan. FASEB Journal, 2021, 35, .	0.2	0
60	Metabolism of Dietary Polyunsaturated Fatty Acids Modulates Healthspan of C. elegans. FASEB Journal, 2021, 35, .	0.2	0
61	An endogenous polyunsaturated fatty acid, dihomoâ€gammaâ€linoleic acid, induces neurodegeneration in C. elegans via ferroptosis. FASEB Journal, 2022, 36, .	0.2	0
62	The effect of the linker in ureaâ€based soluble epoxide hydrolase inhibitorsâ€™ on their bloodâ€brain penetration ability and drugâ€like properties. FASEB Journal, 2022, 36, .	0.2	0