Kin Sing Stephen Lee

List of Publications by Year in Descending Order

58 papers	1,606 citations	23 h-index	38 g-index
62 ext. papers	1,886 ext. citations	6.2 avg, IF	4.42 L-index

#	Paper	IF	Citations
58	Centrality of Myeloid-Lineage Phagocytes in Particle-Triggered Inflammation and Autoimmunity.. *Frontiers in Toxicology*, **2021**, 3, 777768	1.6	1
57	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,	6.3	5
56	Target-Mediated Drug Disposition-A Class Effect of Soluble Epoxide Hydrolase Inhibitors. *Journal of Clinical Pharmacology*, **2021**, 61, 531-537	2.9	1
55	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	8.3	31
54	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	11.5	11
53	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	4.7	6
52	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	3.4	8
51	trans, trans-2,4-Decadienal, a lipid peroxidation product, induces inflammatory responses via Hsp90- or 14-3-3-dependent mechanisms. *Journal of Nutritional Biochemistry*, **2020**, 76, 108286	6.3	3
50	Inactivation of Cys in SERCA2 increases BP by inducing endoplasmic reticulum stress and soluble epoxide hydrolase. *British Journal of Pharmacology*, **2020**, 177, 1793-1805	8.6	10
49	Cytochrome P450 Metabolism of Polyunsaturated Fatty Acids and Neurodegeneration. *Nutrients*, **2020**, 12,	6.7	8
48	Suppression of inflammation and fibrosis using soluble epoxide hydrolase inhibitors enhances cardiac stem cell-based therapy. *Stem Cells Translational Medicine*, **2020**, 9, 1570-1584	6.9	8
47	Selection of Potent Inhibitors of Soluble Epoxide Hydrolase for Usage in Veterinary Medicine. *Frontiers in Veterinary Science*, **2020**, 7, 580	3.1	2
46	Drug-Target Residence Time Affects Target Occupancy through Multiple Pathways. *ACS Central Science*, **2019**, 5, 1614-1624	16.8	16
45	Targeted Metabolomics Identifies the Cytochrome P450 Monooxygenase Eicosanoid Pathway as a Novel Therapeutic Target of Colon Tumorigenesis. *Cancer Research*, **2019**, 79, 1822-1830	10.1	29
44	Enzymatic Synthesis of Epoxidized Metabolites of Docosahexaenoic, Eicosapentaenoic, and Arachidonic Acids. *Journal of Visualized Experiments*, **2019**,	1.6	2
43	Asymmetric Total Synthesis of 19,20-Epoxydocosapentaenoic Acid, a Bioactive Metabolite of Docosahexaenoic Acid. *Journal of Organic Chemistry*, **2019**, 84, 15362-15372	4.2	5
42	Brain oxylipin concentrations following hypercapnia/ischemia: effects of brain dissection and dissection time. *Journal of Lipid Research*, **2019**, 60, 671-682	6.3	16

41	Soluble epoxide hydrolase inhibition decreases reperfusion injury after focal cerebral ischemia. *Scientific Reports*, **2018**, 8, 5279	4.9	30
40	Enzymatic synthesis and chemical inversion provide both enantiomers of bioactive epoxydocosapentaenoic acids. *Journal of Lipid Research*, **2018**, 59, 2237-2252	6.3	7
39	Chemical synthesis and biological evaluation of □hydroxy polyunsaturated fatty acids. *Bioorganic and Medicinal Chemistry Letters*, **2017**, 27, 620-625	2.9	8
38	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	6.3	16
37	Endothelial Nox4-based NADPH oxidase regulates atherosclerosis via soluble epoxide hydrolase. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 1382-1391	6.9	19
36	Active-Site Flexibility and Substrate Specificity in a Bacterial Virulence Factor: Crystallographic Snapshots of an Epoxide Hydrolase. *Structure*, **2017**, 25, 697-707.e4	5.2	10
35	Cyclooxygenase-derived proangiogenic metabolites of epoxyeicosatrienoic acids. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 4370-4375	11.5	42
34	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	3.9	3
33	Soluble Epoxide Hydrolase Inhibitor Attenuates Lipopolysaccharide-Induced Acute Lung Injury and Improves Survival in Mice. *Shock*, **2017**, 47, 638-645	3.4	56
32	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	4.7	14
31	Inhibition of soluble epoxide hydrolase augments astrocyte release of vascular endothelial growth factor and neuronal recovery after oxygen-glucose deprivation. *Journal of Neurochemistry*, **2017**, 140, 814-825	6	21
30	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	11.5	25
29	Linoleic acid participates in the response to ischemic brain injury through oxidized metabolites that regulate neurotransmission. *Scientific Reports*, **2017**, 7, 4342	4.9	27
28	Soluble epoxide hydrolase in podocytes is a significant contributor to renal function under hyperglycemia. *Biochimica Et Biophysica Acta - General Subjects*, **2017**, 1861, 2758-2765	4	19
27	Epoxide metabolites of arachidonate and docosahexaenoate function conversely in acute kidney injury involved in GSK3□signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 12608-12613	11.5	33
26	□B Polyunsaturated fatty acids and their cytochrome P450-derived metabolites suppress colorectal tumor development in mice. *Journal of Nutritional Biochemistry*, **2017**, 48, 29-35	6.3	21
25	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	4.1	6
24	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	4.5	21

23	Pro-atherogenic role of smooth muscle Nox4-based NADPH oxidase. *Journal of Molecular and Cellular Cardiology*, **2016**, 92, 30-40	5.8	33
22	Novel Omega-3 Fatty Acid Epoxygenase Metabolite Reduces Kidney Fibrosis. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	20
21	Soluble Epoxide Hydrolase Inhibition and Epoxyeicosatrienoic Acid Treatment Improve Vascularization of Engineered Skin Substitutes. *Plastic and Reconstructive Surgery - Global Open*, **2016**, 4, e1151	1.2	7
20	Molecular Mechanisms and New Treatment Paradigm for Atrial Fibrillation. *Circulation: Arrhythmia and Electrophysiology*, **2016**, 9,	6.4	31
19	Cytochrome P450 Oxidase 2C Inhibition Adds to Long-Chain Polyunsaturated Fatty Acids Protection Against Retinal and Choroidal Neovascularization. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 1919-27	9.4	27
18	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, 9082-7	11.5	110
17	"Turn-on" protein fluorescence: in situ formation of cyanine dyes. *Journal of the American Chemical Society*, **2015**, 137, 1073-80	16.4	48
16	Identification of potent inhibitors of the chicken soluble epoxide hydrolase. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 276-9	2.9	5
15	PPAR signaling mediates the cytotoxicity of DHA in H9c2 cells. *Toxicology Letters*, **2015**, 232, 10-20	4.4	16
14	Symmetric adamantyl-diureas as soluble epoxide hydrolase inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 2193-7	2.9	41
13	Optimized inhibitors of soluble epoxide hydrolase improve in vitro target residence time and in vivo efficacy. *Journal of Medicinal Chemistry*, **2014**, 57, 7016-30	8.3	67
12	An omega-3 epoxide of docosahexaenoic acid lowers blood pressure in angiotensin-II-dependent hypertension. *Journal of Cardiovascular Pharmacology*, **2014**, 64, 87-99	3.1	65
11	Effect of soluble epoxide hydrolase polymorphism on substrate and inhibitor selectivity and dimer formation. *Journal of Lipid Research*, **2014**, 55, 1131-8	6.3	31
10	Rational design of a colorimetric pH sensor from a soluble retinoic acid chaperone. *Journal of the American Chemical Society*, **2013**, 135, 16111-9	16.4	41
9	Fster resonance energy transfer competitive displacement assay for human soluble epoxide hydrolase. *Analytical Biochemistry*, **2013**, 434, 259-68	3.1	19
8	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, 5618-23	11.5	78
7	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, 6530-5	11.5	221
6	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	3.7	50

5	Probing Wavelength Regulation with an Engineered Rhodopsin Mimic and a C15-Retinal Analogue. *ChemPlusChem*, **2012**, 77, 273-276	2.8	15
4	Tuning the electronic absorption of protein-embedded all-trans-retinal. *Science*, **2012**, 338, 1340-3	33.3	92
3	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, 281-90	4.2	13
2	Elucidating the exact role of engineered CRABPII residues for the formation of a retinal protonated Schiff base. *Proteins: Structure, Function and Bioinformatics*, **2009**, 77, 812-22	4.2	12
1	Remarkable axial ligand effect on regioselectivity towards terminal alkenes in epoxidation of dienes by a robust manganese porphyrin. *Chemical Communications*, **2003**, 620-1	5.8	24