

# Kin Sing Stephen Lee

## 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.

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	Epoxy metabolites of docosahexaenoic acid (DHA) inhibit angiogenesis, tumor growth, and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 6530-5	11.5	221
57	Endoplasmic reticulum stress in the peripheral nervous system is a significant driver of neuropathic pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 9082-7	11.5	110
56	Tuning the electronic absorption of protein-embedded all-trans-retinal. <i>Science</i> , <b>2012</b> , 338, 1340-3	33.3	92
55	Unique mechanistic insights into the beneficial effects of soluble epoxide hydrolase inhibitors in the prevention of cardiac fibrosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5618-23	11.5	78
54	Optimized inhibitors of soluble epoxide hydrolase improve in vitro target residence time and in vivo efficacy. <i>Journal of Medicinal Chemistry</i> , <b>2014</b> , 57, 7016-30	8.3	67
53	An omega-3 epoxide of docosahexaenoic acid lowers blood pressure in angiotensin-II-dependent hypertension. <i>Journal of Cardiovascular Pharmacology</i> , <b>2014</b> , 64, 87-99	3.1	65
52	Soluble Epoxide Hydrolase Inhibitor Attenuates Lipopolysaccharide-Induced Acute Lung Injury and Improves Survival in Mice. <i>Shock</i> , <b>2017</b> , 47, 638-645	3.4	56
51	Epoxy fatty acids and inhibition of the soluble epoxide hydrolase selectively modulate GABA mediated neurotransmission to delay onset of seizures. <i>PLoS ONE</i> , <b>2013</b> , 8, e80922	3.7	50
50	"Turn-on" protein fluorescence: in situ formation of cyanine dyes. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 1073-80	16.4	48
49	Cyclooxygenase-derived proangiogenic metabolites of epoxyeicosatrienoic acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 4370-4375	11.5	42
48	Symmetric adamantyl-diureas as soluble epoxide hydrolase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2014</b> , 24, 2193-7	2.9	41
47	Rational design of a colorimetric pH sensor from a soluble retinoic acid chaperone. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16111-9	16.4	41
46	Pro-atherogenic role of smooth muscle Nox4-based NADPH oxidase. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2016</b> , 92, 30-40	5.8	33
45	Epoxide metabolites of arachidonate and docosahexaenoate function conversely in acute kidney injury involved in GSK3 $\beta$ signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 12608-12613	11.5	33
44	Effect of soluble epoxide hydrolase polymorphism on substrate and inhibitor selectivity and dimer formation. <i>Journal of Lipid Research</i> , <b>2014</b> , 55, 1131-8	6.3	31
43	Molecular Mechanisms and New Treatment Paradigm for Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2016</b> , 9,	6.4	31
42	Movement to the Clinic of Soluble Epoxide Hydrolase Inhibitor EC5026 as an Analgesic for Neuropathic Pain and for Use as a Nonaddictive Opioid Alternative. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 1856-1872	8.3	31

41	Soluble epoxide hydrolase inhibition decreases reperfusion injury after focal cerebral ischemia. <i>Scientific Reports</i> , <b>2018</b> , 8, 5279	4.9	30
40	Targeted Metabolomics Identifies the Cytochrome P450 Monooxygenase Eicosanoid Pathway as a Novel Therapeutic Target of Colon Tumorigenesis. <i>Cancer Research</i> , <b>2019</b> , 79, 1822-1830	10.1	29
39	Linoleic acid participates in the response to ischemic brain injury through oxidized metabolites that regulate neurotransmission. <i>Scientific Reports</i> , <b>2017</b> , 7, 4342	4.9	27
38	Cytochrome P450 Oxidase 2C Inhibition Adds to $\Omega$ Long-Chain Polyunsaturated Fatty Acids Protection Against Retinal and Choroidal Neovascularization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2016</b> , 36, 1919-27	9.4	27
37	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> , <b>2017</b> , 114, E7545-E7553	11.5	25
36	Remarkable axial ligand effect on regioselectivity towards terminal alkenes in epoxidation of dienes by a robust manganese porphyrin. <i>Chemical Communications</i> , <b>2003</b> , 620-1	5.8	24
35	Inhibition of soluble epoxide hydrolase augments astrocyte release of vascular endothelial growth factor and neuronal recovery after oxygen-glucose deprivation. <i>Journal of Neurochemistry</i> , <b>2017</b> , 140, 814-825	6	21
34	Ingestion of the epoxide hydrolase inhibitor AUDA modulates immune responses of the mosquito, <i>Culex quinquefasciatus</i> during blood feeding. <i>Insect Biochemistry and Molecular Biology</i> , <b>2016</b> , 76, 62-69	4.5	21
33	$\Omega$ Polyunsaturated fatty acids and their cytochrome P450-derived metabolites suppress colorectal tumor development in mice. <i>Journal of Nutritional Biochemistry</i> , <b>2017</b> , 48, 29-35	6.3	21
32	Novel Omega-3 Fatty Acid Epoxygenase Metabolite Reduces Kidney Fibrosis. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	20
31	Endothelial Nox4-based NADPH oxidase regulates atherosclerosis via soluble epoxide hydrolase. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2017</b> , 1863, 1382-1391	6.9	19
30	Soluble epoxide hydrolase in podocytes is a significant contributor to renal function under hyperglycemia. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2017</b> , 1861, 2758-2765	4	19
29	Faster resonance energy transfer competitive displacement assay for human soluble epoxide hydrolase. <i>Analytical Biochemistry</i> , <b>2013</b> , 434, 259-68	3.1	19
28	A new sensitive LC/MS/MS analysis of vitamin D metabolites using a click derivatization reagent, 2-nitrosopyridine. <i>Journal of Lipid Research</i> , <b>2017</b> , 58, 798-808	6.3	16
27	Drug-Target Residence Time Affects Target Occupancy through Multiple Pathways. <i>ACS Central Science</i> , <b>2019</b> , 5, 1614-1624	16.8	16
26	PPAR $\beta$ signaling mediates the cytotoxicity of DHA in H9c2 cells. <i>Toxicology Letters</i> , <b>2015</b> , 232, 10-20	4.4	16
25	Brain oxylipin concentrations following hypercapnia/ischemia: effects of brain dissection and dissection time. <i>Journal of Lipid Research</i> , <b>2019</b> , 60, 671-682	6.3	16
24	Probing Wavelength Regulation with an Engineered Rhodopsin Mimic and a C15-Retinal Analogue. <i>ChemPlusChem</i> , <b>2012</b> , 77, 273-276	2.8	15

23	Soluble Epoxide Hydrolase Pharmacological Inhibition Decreases Alveolar Bone Loss by Modulating Host Inflammatory Response, RANK-Related Signaling, Endoplasmic Reticulum Stress, and Apoptosis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2017</b> , 361, 408-416	4.7	14
22	Dissection of the critical binding determinants of cellular retinoic acid binding protein II by mutagenesis and fluorescence binding assay. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2009</b> , 76, 281-90	4.2	13
21	Elucidating the exact role of engineered CRABPII residues for the formation of a retinal protonated Schiff base. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2009</b> , 77, 812-22	4.2	12
20	Soluble epoxide hydrolase is an endogenous regulator of obesity-induced intestinal barrier dysfunction and bacterial translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 8431-8436	11.5	11
19	Active-Site Flexibility and Substrate Specificity in a Bacterial Virulence Factor: Crystallographic Snapshots of an Epoxide Hydrolase. <i>Structure</i> , <b>2017</b> , 25, 697-707.e4	5.2	10
18	Inactivation of Cys in SERCA2 increases BP by inducing endoplasmic reticulum stress and soluble epoxide hydrolase. <i>British Journal of Pharmacology</i> , <b>2020</b> , 177, 1793-1805	8.6	10
17	Chemical synthesis and biological evaluation of $\beta$ -hydroxy polyunsaturated fatty acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2017</b> , 27, 620-625	2.9	8
16	Preparation and evaluation of soluble epoxide hydrolase inhibitors with improved physical properties and potencies for treating diabetic neuropathic pain. <i>Bioorganic and Medicinal Chemistry</i> , <b>2020</b> , 28, 115735	3.4	8
15	Cytochrome P450 Metabolism of Polyunsaturated Fatty Acids and Neurodegeneration. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	8
14	Suppression of inflammation and fibrosis using soluble epoxide hydrolase inhibitors enhances cardiac stem cell-based therapy. <i>Stem Cells Translational Medicine</i> , <b>2020</b> , 9, 1570-1584	6.9	8
13	Soluble Epoxide Hydrolase Inhibition and Epoxyeicosatrienoic Acid Treatment Improve Vascularization of Engineered Skin Substitutes. <i>Plastic and Reconstructive Surgery - Global Open</i> , <b>2016</b> , 4, e1151	1.2	7
12	Enzymatic synthesis and chemical inversion provide both enantiomers of bioactive epoxydocosapentaenoic acids. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 2237-2252	6.3	7
11	Simultaneous Target-Mediated Drug Disposition Model for Two Small-Molecule Compounds Competing for Their Pharmacological Target: Soluble Epoxide Hydrolase. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2020</b> , 374, 223-232	4.7	6
10	Probing the orientation of inhibitor and epoxy-eicosatrienoic acid binding in the active site of soluble epoxide hydrolase. <i>Archives of Biochemistry and Biophysics</i> , <b>2017</b> , 613, 1-11	4.1	6
9	Identification of potent inhibitors of the chicken soluble epoxide hydrolase. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2015</b> , 25, 276-9	2.9	5
8	Asymmetric Total Synthesis of 19,20-Epoxydocosapentaenoic Acid, a Bioactive Metabolite of Docosahexaenoic Acid. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 15362-15372	4.2	5
7	Relative Importance of Soluble and Microsomal Epoxide Hydrolases for the Hydrolysis of Epoxy-Fatty Acids in Human Tissues. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	5
6	Synthesis of cyclooxygenase metabolites of 8,9-epoxyeicosatrienoic acid (EET): 11- and 15-hydroxy 8,9-EETs. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 4308-4313	3.9	3

5	trans, trans-2,4-Decadienal, a lipid peroxidation product, induces inflammatory responses via Hsp90- or 14-3-3-dependent mechanisms. <i>Journal of Nutritional Biochemistry</i> , <b>2020</b> , 76, 108286	6.3	3
4	Enzymatic Synthesis of Epoxidized Metabolites of Docosahexaenoic, Eicosapentaenoic, and Arachidonic Acids. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	2
3	Selection of Potent Inhibitors of Soluble Epoxide Hydrolase for Usage in Veterinary Medicine. <i>Frontiers in Veterinary Science</i> , <b>2020</b> , 7, 580	3.1	2
2	Centrality of Myeloid-Lineage Phagocytes in Particle-Triggered Inflammation and Autoimmunity.. <i>Frontiers in Toxicology</i> , <b>2021</b> , 3, 777768	1.6	1
1	Target-Mediated Drug Disposition-A Class Effect of Soluble Epoxide Hydrolase Inhibitors. <i>Journal of Clinical Pharmacology</i> , <b>2021</b> , 61, 531-537	2.9	1