

Seok-Yong Lee

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,984
citations

186265
28
h-index

289244
40
g-index

50
all docs

50
docs citations

50
times ranked

3615
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryo-electron microscopy structure of the TRPV2 ion channel. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 180-186.	8.2	251
2	Structure of the cold- and menthol-sensing ion channel TRPM8. <i>Science</i> , 2018, 359, 237-241.	12.6	234
3	Crystal Structure of MraY, an Essential Membrane Enzyme for Bacterial Cell Wall Synthesis. <i>Science</i> , 2013, 341, 1012-1016.	12.6	194
4	Structural basis of cooling agent and lipid sensing by the cold-activated TRPM8 channel. <i>Science</i> , 2019, 363, .	12.6	171
5	Crystal Structure of the Ternary Complex of a NaV C-Terminal Domain, a Fibroblast Growth Factor Homologous Factor, and Calmodulin. <i>Structure</i> , 2012, 20, 1167-1176.	3.3	138
6	Crystal structure of a concentrative nucleoside transporter from <i>Vibrio cholerae</i> at 2.4 Å. <i>Nature</i> , 2012, 483, 489-493.	27.8	117
7	Cryo-EM structure of a mitochondrial calcium uniporter. <i>Science</i> , 2018, 361, 506-511.	12.6	116
8	Cryo-electron microscopy structure of the lysosomal calcium-permeable channel TRPML3. <i>Nature</i> , 2017, 550, 411-414.	27.8	104
9	GlcNAc-1-P-transferase-tunicamycin complex structure reveals basis for inhibition of N-glycosylation. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 217-224.	8.2	104
10	Conformational ensemble of the human TRPV3 ion channel. <i>Nature Communications</i> , 2018, 9, 4773.	12.8	100
11	Expression and Role of Voltage-Gated Sodium Channels in Human Dorsal Root Ganglion Neurons with Special Focus on Nav1.7, Species Differences, and Regulation by Paclitaxel. <i>Neuroscience Bulletin</i> , 2018, 34, 4-12.	2.9	97
12	Structural insights into inhibition of lipid I production in bacterial cell wall synthesis. <i>Nature</i> , 2016, 533, 557-560.	27.8	96
13	Heat-dependent opening of TRPV1 in the presence of capsaicin. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 554-563.	8.2	92
14	Structural analyses of Ca ²⁺ /CaM interaction with NaV channel C-termini reveal mechanisms of calcium-dependent regulation. <i>Nature Communications</i> , 2014, 5, 4896.	12.8	86
15	Structural Insights into Electrophile Irritant Sensing by the Human TRPA1 Channel. <i>Neuron</i> , 2020, 105, 882-894.e5.	8.1	81
16	Conformational plasticity in the selectivity filter of the TRPV2 ion channel. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 405-415.	8.2	79
17	Crystal structure of the MOP flippase MurJ in an inward-facing conformation. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 171-176.	8.2	71
18	Structures of human ENT1 in complex with adenosine reuptake inhibitors. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 599-606.	8.2	65

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19	Regulatory switch at the cytoplasmic interface controls TRPV channel gating. <i>ELife</i> , 2019, 8, .	6.0	53
20	Visualizing conformation transitions of the Lipid II flippase MurJ. <i>Nature Communications</i> , 2019, 10, 1736.	12.8	51
21	Structural basis of nucleoside and nucleoside drug selectivity by concentrative nucleoside transporters. <i>ELife</i> , 2014, 3, e03604.	6.0	50
22	Visualizing multistep elevator-like transitions of a nucleoside transporter. <i>Nature</i> , 2017, 545, 66-70.	27.8	49
23	Chemical logic of MraY inhibition by antibacterial nucleoside natural products. <i>Nature Communications</i> , 2019, 10, 2917.	12.8	49
24	The role of Î€-helices in TRP channel gating. <i>Current Opinion in Structural Biology</i> , 2019, 58, 314-323.	5.7	47
25	Current view on regulation of voltage-gated sodium channels by calcium and auxiliary proteins. <i>Protein Science</i> , 2016, 25, 1573-1584.	7.6	40
26	Symmetry transitions during gating of the TRPV2 ion channel in lipid membranes. <i>ELife</i> , 2019, 8, .	6.0	39
27	Visualizing structural transitions of ligand-dependent gating of the TRPM2 channel. <i>Nature Communications</i> , 2019, 10, 3740.	12.8	34
28	Structural basis for inhibition and regulation of a chitin synthase from <i>Candida albicans</i> . <i>Nature Structural and Molecular Biology</i> , 2022, 29, 653-664.	8.2	34
29	Vanilloid-dependent TRPV1 opening trajectory from cryoEM ensemble analysis. <i>Nature Communications</i> , 2022, 13, .	12.8	24
30	Differential Inhibition of Nav1.7 and Neuropathic Pain by Hybridoma-Produced and Recombinant Monoclonal Antibodies that Target Nav1.7. <i>Neuroscience Bulletin</i> , 2018, 34, 22-41.	2.9	22
31	Toward a Molecular Basis of Cellular Nucleoside Transport in Humans. <i>Chemical Reviews</i> , 2021, 121, 5336-5358.	47.7	19
32	Liposome Reconstitution and Transport Assay for Recombinant Transporters. <i>Methods in Enzymology</i> , 2015, 556, 373-383.	1.0	16
33	Current View of Ligand and Lipid Recognition by the Menthol Receptor TRPM8. <i>Trends in Biochemical Sciences</i> , 2020, 45, 806-819.	7.5	14
34	Structures of Bacterial MraY and Human GPT Provide Insights into Rational Antibiotic Design. <i>Journal of Molecular Biology</i> , 2020, 432, 4946-4963.	4.2	14
35	Molecular Sensors of Temperature, Pressure, and Pain with Special Focus on TRPV1, TRPM8, and PIEZO2 Ion Channels. <i>Neuroscience Bulletin</i> , 2021, 37, 1745-1749.	2.9	12
36	Structure and Mechanism of the Lipid Flippase MurJ. <i>Annual Review of Biochemistry</i> , 2022, 91, 705-729.	11.1	8

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37	Recent advances on the inhibition of human solute carriers: Therapeutic implications and mechanistic insights. <i>Current Opinion in Structural Biology</i> , 2022, 74, 102378.	5.7	5
38	Synthesis and evaluation of cyclopentane-based muraymycin analogs targeting MraY. <i>European Journal of Medicinal Chemistry</i> , 2021, 215, 113272.	5.5	3
39	Ca ²⁺ /CaM interaction with voltage-gated Na ⁺ channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26150-26151.	7.1	1
40	Sample preparation of the human TRPA1 ion channel for cryo-EM studies. <i>Methods in Enzymology</i> , 2021, 653, 75-87.	1.0	0