

# Shaohu Sheng

## List of Publications by Year in descending order

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257450

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Epithelial Na <sup>+</sup> Channels Are Fully Activated by Furin- and Proastasin-dependent Release of an Inhibitory Peptide from the $\beta$ -Subunit. <i>Journal of Biological Chemistry</i> , 2007, 282, 6153-6160.	3.4	277
2	Subunit Stoichiometry of the Epithelial Sodium Channel. <i>Journal of Biological Chemistry</i> , 1998, 273, 13469-13474.	3.4	201
3	Epithelial Na <sup>+</sup> channels are regulated by flow. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 280, F1010-F1018.	2.7	193
4	Furin cleavage activates the epithelial Na <sup>+</sup> channel by relieving Na <sup>+</sup> self-inhibition. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, F1488-F1496.	2.7	143
5	Epithelial Na <sup>+</sup> Channels Are Activated by Lamina Shear Stress. <i>Journal of Biological Chemistry</i> , 2004, 279, 4120-4126.	3.4	139
6	The Epithelial Na <sup>+</sup> Channel Is Inhibited by a Peptide Derived from Proteolytic Processing of Its $\alpha$ Subunit. <i>Journal of Biological Chemistry</i> , 2006, 281, 18901-18907.	3.4	127
7	Blood pressure and amiloride-sensitive sodium channels in vascular and renal cells. <i>Nature Reviews Nephrology</i> , 2014, 10, 146-157.	9.6	97
8	Characterization of the Selectivity Filter of the Epithelial Sodium Channel. <i>Journal of Biological Chemistry</i> , 2000, 275, 8572-8581.	3.4	80
9	Extracellular Histidine Residues Crucial for Na <sup>+</sup> Self-inhibition of Epithelial Na <sup>+</sup> Channels. <i>Journal of Biological Chemistry</i> , 2004, 279, 9743-9749.	3.4	72
10	Epithelial Sodium Channel Pore Region. <i>Journal of Biological Chemistry</i> , 2001, 276, 1326-1334.	3.4	65
11	External Nickel Inhibits Epithelial Sodium Channel by Binding to Histidine Residues within the Extracellular Domains of $\alpha$ and $\beta$ Subunits and Reducing Channel Open Probability. <i>Journal of Biological Chemistry</i> , 2002, 277, 50098-50111.	3.4	62
12	Mutations in the Pore Region Modify Epithelial Sodium Channel Gating by Shear Stress. <i>Journal of Biological Chemistry</i> , 2005, 280, 4393-4401.	3.4	62
13	Functional Role of Extracellular Loop Cysteine Residues of the Epithelial Na <sup>+</sup> Channel in Na <sup>+</sup> Self-inhibition. <i>Journal of Biological Chemistry</i> , 2007, 282, 20180-20190.	3.4	53
14	Extracellular Zn <sup>2+</sup> Activates Epithelial Na <sup>+</sup> Channels by Eliminating Na <sup>+</sup> Self-inhibition. <i>Journal of Biological Chemistry</i> , 2004, 279, 31687-31696.	3.4	47
15	Novel Determinants of Epithelial Sodium Channel Gating within Extracellular Thumb Domains. <i>Journal of Biological Chemistry</i> , 2009, 284, 7756-7765.	3.4	44
16	Second Transmembrane Domains of ENaC Subunits Contribute to Ion Permeation and Selectivity. <i>Journal of Biological Chemistry</i> , 2001, 276, 44091-44098.	3.4	43
17	Functional Polymorphism in the Carboxyl Terminus of the $\alpha$ -Subunit of the Human Epithelial Sodium Channel. <i>Journal of Biological Chemistry</i> , 2004, 279, 23900-23907.	3.4	43
18	Base of the Thumb Domain Modulates Epithelial Sodium Channel Gating. <i>Journal of Biological Chemistry</i> , 2011, 286, 14753-14761.	3.4	43

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19	Extracellular Allosteric Regulatory Subdomain within the $\beta^3$ Subunit of the Epithelial Na <sup>+</sup> Channel. Journal of Biological Chemistry, 2010, 285, 26088-26096.	3.4	33
20	Asymmetric Organization of the Pore Region of the Epithelial Sodium Channel. Journal of Biological Chemistry, 2003, 278, 13867-13874.	3.4	32
21	On the Interaction between Amiloride and Its Putative $\beta^1$ -Subunit Epithelial Na <sup>+</sup> Channel Binding Site. Journal of Biological Chemistry, 2005, 280, 26206-26215.	3.4	32
22	Side Chain Orientation of Residues Lining the Selectivity Filter of Epithelial Na <sup>+</sup> Channels. Journal of Biological Chemistry, 2005, 280, 8513-8522.	3.4	30
23	Intercalated cell $\beta^1$ subunit is required for flow-induced K <sup>+</sup> secretion. JCI Insight, 2020, 5, .	5.0	28
24	The Epithelial Sodium Channel Is a Modifier of the Long-Term Nonprogressive Phenotype Associated with F508del CFTR Mutations. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 711-720.	2.9	27
25	External Cu <sup>2+</sup> Inhibits Human Epithelial Na <sup>+</sup> Channels by Binding at a Subunit Interface of Extracellular Domains. Journal of Biological Chemistry, 2011, 286, 27436-27446.	3.4	26
26	Gain-of-function variant of the human epithelial sodium channel. American Journal of Physiology - Renal Physiology, 2013, 304, F207-F213.	2.7	24
27	Human epithelial Na <sup>+</sup> channel missense variants identified in the GenSalt study alter channel activity. American Journal of Physiology - Renal Physiology, 2016, 311, F908-F914.	2.7	21
28	Multiple epithelial Na <sup>+</sup> channel domains participate in subunit assembly. American Journal of Physiology - Renal Physiology, 2003, 285, F600-F609.	2.7	18
29	Probing the Structural Basis of Zn <sup>2+</sup> Regulation of the Epithelial Na <sup>+</sup> Channel. Journal of Biological Chemistry, 2012, 287, 35589-35598.	3.4	13
30	Functional Roles of Clusters of Hydrophobic and Polar Residues in the Epithelial Na <sup>+</sup> Channel Knuckle Domain. Journal of Biological Chemistry, 2015, 290, 25140-25150.	3.4	11
31	Deletion of $\beta^1$ -subunit exon 11 of the epithelial Na <sup>+</sup> channel reveals a regulatory module. American Journal of Physiology - Renal Physiology, 2014, 306, F561-F567.	2.7	10
32	Epithelial Na <sup>+</sup> Channels. , 2008, , 743-768.		9
33	Salt sensitivity of volume and blood pressure in a mouse with globally reduced ENaC $\beta^3$ -subunit expression. American Journal of Physiology - Renal Physiology, 2021, 321, F705-F714.	2.7	8
34	Thumb domains of the three epithelial Na <sup>+</sup> channel subunits have distinct functions. Journal of Biological Chemistry, 2018, 293, 17582-17592.	3.4	6
35	Analyses of epithelial Na <sup>+</sup> channel variants reveal that an extracellular $\beta^2$ -ball domain critically regulates ENaC gating. Journal of Biological Chemistry, 2019, 294, 16765-16775.	3.4	4
36	Accessibility of ENaC extracellular domain central core residues. Journal of Biological Chemistry, 2022, 298, 101860.	3.4	4

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37	Epithelial Na <sup>+</sup> Channels. , 2013, , 983-1017.		3
38	Chapter 3 Subunit Stoichiometry of Heterooligomeric and Homooligomeric Epithelial Sodium Channels. Current Topics in Membranes, 1999, , 37-48.	0.9	1
39	Biophysical Approach to Determine the Subunit Stoichiometry of the Epithelial Sodium Channel Using the <i>Xenopus laevis</i> Oocyte Expression System. , 2006, 337, 53-63.		1
40	Structural Basis of Zn <sup>2+</sup> Activation of the Epithelial Na <sup>+</sup> Channel. FASEB Journal, 2012, 26, 1068.2.	0.5	1
41	Extracellular loop cysteine residues of gamma epithelial Na <sup>+</sup> channel subunit and Na <sup>+</sup> self-inhibition. FASEB Journal, 2007, 21, A954.	0.5	0
42	Transition metals inhibit epithelial sodium channels via distinct mechanisms. FASEB Journal, 2010, 24, 611.24.	0.5	0
43	An extracellular subdomain of the epithelial Na <sup>+</sup> channel gamma subunit confers Na <sup>+</sup> self-inhibition response. FASEB Journal, 2010, 24, 611.25.	0.5	0
44	Novel Loss-of-Function Variants in the Epithelial Na <sup>+</sup> Channel Extracellular Domain. FASEB Journal, 2018, 32, 624.14.	0.5	0
45	Palm Domain Hydrophobic Residues and ENaC Gating. FASEB Journal, 2019, 33, 862.25.	0.5	0