

# Navid Bavi

## List of Publications by Year in descending order

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43  
papers

1,087  
citations

430874

18  
h-index

434195

31  
g-index

47  
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docs citations

47  
times ranked

1111  
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric effects of amphipathic molecules on mechanosensitive channels. <i>Scientific Reports</i> , 2022, 12, .	3.3	3
2	The conformational cycle of prestin underlies outer-hair cell electromotility. <i>Nature</i> , 2021, 600, 553-558.	27.8	53
3	Influence of the Lipid-Protein Interface on MSCS Mechanosensitive Channel Gating at High Resolutions. <i>Biophysical Journal</i> , 2020, 118, 523a.	0.5	0
4	Cell membrane mechanics and mechanosensory transduction. <i>Current Topics in Membranes</i> , 2020, 86, 83-141.	0.9	31
5	From Stretch to Deflection: Fine Tuning Mechanical Activation of ion Channels. <i>Biophysical Journal</i> , 2020, 118, 171a.	0.5	0
6	Membrane stiffness is one of the key determinants of E. coli MscS channel mechanosensitivity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183203.	2.6	23
7	PIEZO1-Mediated Currents Are Modulated by Substrate Mechanics. <i>ACS Nano</i> , 2019, 13, 13545-13559.	14.6	44
8	Biophysical Principles of Ion-Channel-Mediated Mechanosensory Transduction. <i>Cell Reports</i> , 2019, 29, 1-12.	6.4	154
9	Evolutionary Specialization of <i>Corynebacterium glutamicum</i> MscCG, an Mscs-Like Mechanosensitive Channel, in Glutamate Export. <i>Biophysical Journal</i> , 2019, 116, 378a.	0.5	1
10	High-Resolution Structures of MscS in a Lipid Bilayer: Reinterpreting "Force from Lipids" Activation in Mechanosensitive Channels. <i>Biophysical Journal</i> , 2019, 116, 459a.	0.5	1
11	Molecular basis of force-from-lipids gating in the mechanosensitive channel MscS. <i>ELife</i> , 2019, 8, .	6.0	84
12	Mechanosensitivity of Ion Channels. , 2019, , 1-11.		0
13	A Computational Study Towards Engineering an MscL Nanovalve. <i>Biophysical Journal</i> , 2018, 114, 112a.	0.5	2
14	Cellular Mechanotransduction via Ion Channels at the Cell-Substrate Interface. <i>Biophysical Journal</i> , 2018, 114, 19a.	0.5	0
15	Streptomycin Entry is Mediated by the Mechanosensitive Channel MscCG of <i>Corynebacterium Glutamicum</i> . <i>Biophysical Journal</i> , 2018, 114, 491a.	0.5	0
16	In Vivo Function of the Chaperonin TRiC in $\pm$ -Actin Folding during Sarcomere Assembly. <i>Cell Reports</i> , 2018, 22, 313-322.	6.4	29
17	Cytoskeleton-Associated Proteins Modulate the Tension Sensitivity of Piezo1. <i>Biophysical Journal</i> , 2018, 114, 111a.	0.5	9
18	Bacterial Mechanosensors. <i>Annual Review of Physiology</i> , 2018, 80, 71-93.	13.1	140

#	ARTICLE	IF	CITATIONS
19	Tuning ion channel mechanosensitivity by asymmetry of the transbilayer pressure profile. <i>Biophysical Reviews</i> , 2018, 10, 1377-1384.	3.2	36
20	Evolutionary specialization of MscCG, an MscS-like mechanosensitive channel, in amino acid transport in <i>Corynebacterium glutamicum</i> . <i>Scientific Reports</i> , 2018, 8, 12893.	3.3	24
21	Mechanosensitivity of Ion Channels. , 2018, , 1-11.		1
22	Electrophysiological Characterization of Mechanosensitive Channels in the Native Membrane of <i>Corynebacterium Glutamicum</i> . <i>Biophysical Journal</i> , 2017, 112, 534a.	0.5	0
23	Mechanically-Induced Gating in PKD2L1 (Trpp2): Calcium-Induced Activation Masquerading as Force Sensitivity?. <i>Biophysical Journal</i> , 2017, 112, 311a.	0.5	0
24	Perturbation of Bilayer Surface Tension Differentially Modulates Mechanosensitive Ion Channels. <i>Biophysical Journal</i> , 2017, 112, 416a.	0.5	5
25	Structural Dynamics of the MscL C-Terminal Domain. <i>Biophysical Journal</i> , 2017, 112, 413a.	0.5	0
26	Toward a structural blueprint for bilayer-mediated channel mechanosensitivity. <i>Channels</i> , 2017, 11, 91-93.	2.8	23
27	Principles of Mechanosensing at the Membrane Interface. <i>Springer Series in Biophysics</i> , 2017, , 85-119.	0.4	15
28	Origin of the Force. <i>Current Topics in Membranes</i> , 2017, 79, 59-96.	0.9	63
29	Structural Dynamics of the MscL C-terminal Domain. <i>Scientific Reports</i> , 2017, 7, 17229.	3.3	16
30	Nanomechanical properties of MscL helices: A steered molecular dynamics study. <i>Channels</i> , 2017, 11, 209-223.	2.8	20
31	Pulling MscL open via N-terminal and TM1 helices: A computational study towards engineering an MscL nanovalve. <i>PLoS ONE</i> , 2017, 12, e0183822.	2.5	28
32	The N-Terminal Helix Acts as a Dynamic Membrane Coupler in the Gating Cycle of the Mechanosensitive Channel MscL. <i>Biophysical Journal</i> , 2016, 110, 116a.	0.5	0
33	The role of MscL amphipathic N terminus indicates a blueprint for bilayer-mediated gating of mechanosensitive channels. <i>Nature Communications</i> , 2016, 7, 11984.	12.8	87
34	Energy of Liposome Patch Adhesion to the Pipet Glass Determined by Confocal Fluorescence Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4530-4534.	4.6	6
35	The N-Terminal Domain Acts as an Anchor during the Gating Cycle of MscL. <i>Biophysical Journal</i> , 2015, 108, 564a.	0.5	1
36	DQ thermal buckling analysis of embedded curved carbon nanotubes based on nonlocal elasticity theory. <i>Latin American Journal of Solids and Structures</i> , 2015, 12, 1901-1917.	1.0	9

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37	Lipid-protein interactions: Lessons learned from stress. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1744-1756.	2.6	43
38	Unidirectional incorporation of a bacterial mechanosensitive channel into liposomal membranes. <i>FASEB Journal</i> , 2015, 29, 4334-4345.	0.5	33
39	Biophysical implications of lipid bilayer rheometry for mechanosensitive channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13864-13869.	7.1	59
40	Gating Mechanism of Mechanosensitive Ion Channels Studied by Continuum Mechanics. <i>Biophysical Journal</i> , 2014, 106, 554a-555a.	0.5	2
41	Geometrical Optimization of the Overlap in Mixed Adhesive Lap Joints. <i>Journal of Adhesion</i> , 2013, 89, 948-972.	3.0	20
42	Shear stress distribution in adhesive layers of a double-lap joint with void or bond separation. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 1197-1225.	2.6	20
43	Finite element simulation of the gating mechanism of mechanosensitive ion channels. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1