

# Swetha E Murthy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2193632/publications.pdf>

Version: 2024-02-01

23  
papers

3,421  
citations

471509

17  
h-index

610901

24  
g-index

33  
all docs

33  
docs citations

33  
times ranked

3819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezo1, a mechanically activated ion channel, is required for vascular development in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10347-10352.	7.1	651
2	Structure of the mechanically activated ion channel Piezo1. <i>Nature</i> , 2018, 554, 481-486.	27.8	401
3	Piezos thrive under pressure: mechanically activated ion channels in health and disease. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 771-783.	37.0	366
4	Dehydrated hereditary stomatocytosis linked to gain-of-function mutations in mechanically activated PIEZO1 ion channels. <i>Nature Communications</i> , 2013, 4, 1884.	12.8	282
5	The mechanosensitive ion channel Piezo2 mediates sensitivity to mechanical pain in mice. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	247
6	OSCA/TMEM63 are an evolutionarily conserved family of mechanically activated ion channels. <i>ELife</i> , 2018, 7, .	6.0	230
7	LRRRC8 Proteins Form Volume-Regulated Anion Channels that Sense Ionic Strength. <i>Cell</i> , 2016, 164, 499-511.	28.9	209
8	Common PIEZO1 Allele in African Populations Causes RBC Dehydration and Attenuates Plasmodium Infection. <i>Cell</i> , 2018, 173, 443-455.e12.	28.9	176
9	Piezo1 ion channel pore properties are dictated by C-terminal region. <i>Nature Communications</i> , 2015, 6, 7223.	12.8	172
10	The Mechanosensitive Ion Channel Piezo Inhibits Axon Regeneration. <i>Neuron</i> , 2019, 102, 373-389.e6.	8.1	132
11	Endogenous Piezo1 Can Confound Mechanically Activated Channel Identification and Characterization. <i>Neuron</i> , 2017, 94, 266-270.e3.	8.1	122
12	Cryo-EM structure of the mechanically activated ion channel OSCA1.2. <i>ELife</i> , 2018, 7, .	6.0	118
13	Zinc Effects on NMDA Receptor Gating Kinetics. <i>Biophysical Journal</i> , 2011, 100, 1910-1918.	0.5	65
14	Heterozygous Variants in the Mechanosensitive Ion Channel TMEM63A Result in Transient Hypomyelination during Infancy. <i>American Journal of Human Genetics</i> , 2019, 105, 996-1004.	6.2	52
15	Stretch-activated ion channels identified in the touch-sensitive structures of carnivorous Droseraceae plants. <i>ELife</i> , 2021, 10, .	6.0	43
16	NMDA receptor activation requires remodelling of intersubunit contacts within ligand-binding heterodimers. <i>Nature Communications</i> , 2011, 2, 498.	12.8	37
17	Probing the activation sequence of NMDA receptors with lurcher mutations. <i>Journal of General Physiology</i> , 2012, 140, 267-277.	1.9	32
18	Transcription factor Acj6 controls dendrite targeting via a combinatorial cell-surface code. <i>Neuron</i> , 2022, 110, 2299-2314.e8.	8.1	16

#	ARTICLE	IF	CITATIONS
19	One-channel Cell-attached Patch-clamp Recording. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	13
20	Structural insights into the Venus flytrap mechanosensitive ion channel Flycatcher1. <i>Nature Communications</i> , 2022, 13, 850.	12.8	13
21	The Loss of an Electrostatic Contact Unique to AMPA Receptor Ligand Binding Domain 2 Slows Channel Activation. <i>Biochemistry</i> , 2012, 51, 4015-4027.	2.5	9
22	Allosteric Inhibitors of NMDA Receptor Functions. <i>Pharmaceuticals</i> , 2010, 3, 3240-3257.	3.8	6
23	Editorial Note to: Endogenous Piezo1 Can Confound Mechanically Activated Channel Identification and Characterization. <i>Neuron</i> , 2017, 94, 265.	8.1	4