

# Dejian Ren

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

5,810  
citations

147801

31  
h-index

330143

37  
g-index

39  
all docs

39  
docs citations

39  
times ranked

8455  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A sperm ion channel required for sperm motility and male fertility. <i>Nature</i> , 2001, 413, 603-609.   | 27.8 | 833       |
| 2  | Lysosomal Physiology. <i>Annual Review of Physiology</i> , 2015, 77, 57-80.   | 13.1 | 768       |
| 3  | TPC Proteins Are Phosphoinositide- Activated Sodium-Selective Ion Channels in Endosomes and Lysosomes. <i>Cell</i> , 2012, 151, 372-383.                                | 28.9 | 456       |
| 4  | mTOR Regulates Lysosomal ATP-Sensitive Two-Pore Na <sup>+</sup> Channels to Adapt to Metabolic State. <i>Cell</i> , 2013, 152, 778-790.                                 | 28.9 | 313       |
| 5  | The Neuronal Channel NALCN Contributes Resting Sodium Permeability and Is Required for Normal Respiratory Rhythm. <i>Cell</i> , 2007, 129, 371-383.                     | 28.9 | 299       |
| 6  | The Control of Male Fertility by Spermatozoan Ion Channels. <i>Annual Review of Physiology</i> , 2012, 74, 453-475.   | 13.1 | 291       |
| 7  | Structure of the voltage-gated two-pore channel TPC1 from <i>Arabidopsis thaliana</i> . <i>Nature</i> , 2016, 531, 196-201.   | 27.8 | 216       |
| 8  | A Conserved Bicycle Model for Circadian Clock Control of Membrane Excitability. <i>Cell</i> , 2015, 162, 836-848.   | 28.9 | 178       |
| 9  | Extracellular Calcium Controls Background Current and Neuronal Excitability via an UNC79-UNC80-NALCN Cation Channel Complex. <i>Neuron</i> , 2010, 68, 488-499.         | 8.1  | 176       |
| 10 | TMEM175 Is an Organelle K <sup>+</sup> Channel Regulating Lysosomal Function. <i>Cell</i> , 2015, 162, 1101-1112.   | 28.9 | 153       |
| 11 | CatSper <sup>1</sup> , a Novel Transmembrane Protein in the CatSper Channel Complex. <i>Journal of Biological Chemistry</i> , 2007, 282, 18945-18952.                   | 3.4  | 148       |
| 12 | A Superfamily of Voltage-gated Sodium Channels in Bacteria*. <i>Journal of Biological Chemistry</i> , 2004, 279, 9532-9538.   | 3.4  | 147       |
| 13 | Peptide neurotransmitters activate a cation channel complex of NALCN and UNC-80. <i>Nature</i> , 2009, 457, 741-744.  | 27.8 | 145       |
| 14 | The voltage-gated sodium channel TPC1 confers endolysosomal excitability. <i>Nature Chemical Biology</i> , 2014, 10, 463-469.   | 8.0  | 142       |
| 15 | The Cation Selectivity Filter of the Bacterial Sodium Channel, NaChBac. <i>Journal of General Physiology</i> , 2002, 120, 845-853.                                      | 1.9  | 141       |
| 16 | CATSPER Channel-Mediated Ca <sup>2+</sup> Entry into Mouse Sperm Triggers a Tail-to-Head Propagation <sup>1</sup> . <i>Biology of Reproduction</i> , 2007, 77, 551-559. | 2.7  | 134       |
| 17 | Sodium Leak Channels in Neuronal Excitability and Rhythmic Behaviors. <i>Neuron</i> , 2011, 72, 899-911.  | 8.1  | 128       |
| 18 | A Novel, Single, Transmembrane Protein CATSPERG Is Associated with CATSPER1 Channel Protein <sup>1</sup> . <i>Biology of Reproduction</i> , 2009, 81, 539-544.          | 2.7  | 121       |

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|----|--|------|-----------|
| 19 | Calcium Signaling Through CatSper Channels in Mammalian Fertilization. <i>Physiology</i> , 2010, 25, 165-175.  | 3.1  | 108       |
| 20 | Cryo-electron microscopy structure of the lysosomal calcium-permeable channel TRPML3. <i>Nature</i> , 2017, 550, 411-414.  | 27.8 | 104       |
| 21 | Lipid-gated monovalent ion fluxes regulate endocytic traffic and support immune surveillance. <i>Science</i> , 2020, 367, 301-305.   | 12.6 | 104       |
| 22 | The BSA-induced Ca(2+) influx during sperm capacitation is CATSPER channel-dependent. <i>Reproductive Biology and Endocrinology</i> , 2009, 7, 119.  | 3.3  | 100       |
| 23 | Egg Coat Proteins Activate Calcium Entry into Mouse Sperm via CATSPER Channels1. <i>Biology of Reproduction</i> , 2009, 80, 1092-1098.   | 2.7  | 82        |
| 24 | Patch-clamp technique to characterize ion channels in enlarged individual endolysosomes. <i>Nature Protocols</i> , 2017, 12, 1639-1658.  | 12.0 | 68        |
| 25 | A growth-factor-activated lysosomal K <sup>+</sup> channel regulates Parkinson's pathology. <i>Nature</i> , 2021, 591, 431-437.  | 27.8 | 62        |
| 26 | Orai1, STIM1/2, and RYR1 shape subsecond Ca <sup>2+</sup> microdomains upon T cell activation. <i>Science Signaling</i> , 2018, 11, .  | 3.6  | 59        |
| 27 | The lysosomal potassium channel TMEM175 adopts a novel tetrameric architecture. <i>Nature</i> , 2017, 547, 472-475.  | 27.8 | 57        |
| 28 | Respiratory Network Stability and Modulatory Response to Substance P Require Nalcn. <i>Neuron</i> , 2017, 94, 294-303.e4.  | 8.1  | 52        |
| 29 | Biallelic Mutations in UNC80 Cause Persistent Hypotonia, Encephalopathy, Growth Retardation, and Severe Intellectual Disability. <i>American Journal of Human Genetics</i> , 2016, 98, 202-209.            | 6.2  | 45        |
| 30 | Involvement of Na <sup>+</sup> -leak Channel in Substance P-induced Depolarization of Pacemaking Activity in Interstitial Cells of Cajal. <i>Cellular Physiology and Biochemistry</i> , 2012, 29, 501-510. | 1.6  | 40        |
| 31 | A non-inactivating high-voltage-activated two-pore Na <sup>+</sup> channel that supports ultra-long action potentials and membrane bistability. <i>Nature Communications</i> , 2014, 5, 5015.              | 12.8 | 36        |
| 32 | UNC80 functions as a scaffold for Src kinases in NALCN channel function. <i>Channels</i> , 2009, 3, 161-163.   | 2.8  | 28        |
| 33 | NALCN channels enhance the intrinsic excitability of spinal projection neurons. <i>Pain</i> , 2018, 159, 1719-1730.  | 4.2  | 22        |
| 34 | CLN7 is an organellar chloride channel regulating lysosomal function. <i>Science Advances</i> , 2021, 7, eabj9608.   | 10.3 | 20        |
| 35 | Intellectual disability-associated UNC80 mutations reveal inter-subunit interaction and dendritic function of the NALCN channel complex. <i>Nature Communications</i> , 2020, 11, 3351.                    | 12.8 | 17        |
| 36 | Calcium Signaling in Sperm: Help from Prostasomes. <i>Science Signaling</i> , 2011, 4, pe27.   | 3.6  | 12        |

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|----|---|-----|-----------|
| 37 | Genetic analysis of mice strains with variable serum sodium concentrations identifies the Nalcn sodium channel as a novel player in osmoregulation. FASEB Journal, 2011, 25, 662.6. | 0.5 | 0         |