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List of Publications by Year
in descending order

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34 papers	1,615 citations	361388 20 h-index	454934 30 g-index
35 all docs	35 docs citations	35 times ranked	2417 citing authors

#	Article	IF	Citations
1	Combining Lightâ€Gated and pHâ€Responsive Nanopore Based on PEGâ€Spiropyran Functionalization. Advanced Materials Interfaces, 2018, 5, 1701051.	3.7	36
2	High-Throughput Simulations Reveal Membrane-Mediated Effects of Alcohols on MscL Gating. Journal of the American Chemical Society, 2017, 139, 2664-2671.	13.7	41
3	Drug delivery from engineered organisms and nanocarriers as monitored by multimodal imaging technologies. AIMS Bioengineering, 2017, 4, 198-222.	1.1	4
4	In situ, Reversible Gating of a Mechanosensitive Ion Channel through Protein-Lipid Interactions. Frontiers in Physiology, 2016, 7, 409.	2.8	7
5	Topâ€down mass spectrometry of intact membrane protein complexes reveals oligomeric state and sequence information in a single experiment. Protein Science, 2015, 24, 1292-1300.	7.6	42
6	Image guided drug release from pH-sensitive Ion channel-functionalized stealth liposomes into an in vivo glioblastoma model. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1345-1354.	3.3	41
7	Study of light-induced MscL gating by EPR spectroscopy. European Biophysics Journal, 2015, 44, 557-565.	2.2	6
8	Mechanisms of mechanosensing â€" mechanosensitive channels, function and re-engineering. Current Opinion in Chemical Biology, 2015, 29, 120-127.	6.1	34
9	Studying mechanosensitive ion channels with an automated patch clamp. European Biophysics Journal, 2014, 43, 97-104.	2.2	9
10	Global structural changes of an ion channel during its gating are followed by ion mobility mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17170-17175.	7.1	63
11	Phytochemicals Perturb Membranes and Promiscuously Alter Protein Function. ACS Chemical Biology, 2014, 9, 1788-1798.	3.4	241
12	Highly Parallel Transport Recordings on a Membrane-on-Nanopore Chip at Single Molecule Resolution. Nano Letters, 2014, 14, 1674-1680.	9.1	37
13	The activation mode of the mechanosensitive ion channel, MscL, by lysophosphatidylcholine differs from tensionâ€induced gating. FASEB Journal, 2014, 28, 4292-4302.	0.5	42
14	Membrane Dependence of the Mechanosensitive Channel of Large Conductance. Biophysical Journal, 2014, 106, 38a.	0.5	1
15	Thin phosphatidylcholine films as background surfaces with further possibilities of functionalization for biomedical applications. Colloids and Surfaces B: Biointerfaces, 2013, 101, 189-195.	5.0	6
16	Coarse-Grained Molecular Dynamics Simulations Reveal the Membrane Dependence of MscL Gating. Biophysical Journal, 2013, 104, 663a.	0.5	0
17	A Novel Approach to follow Helical Movements of an Ion Channel in Real-Time. Biophysical Journal, 2013, 104, 469a.	0.5	0
18	Bright Ion Channels and Lipid Bilayers. Accounts of Chemical Research, 2013, 46, 2910-2923.	15.6	42

#	Article	IF	Citations
19	Well-Defined Microapertures for Ion Channel Biosensors. Analytical Chemistry, 2013, 85, 811-815.	6.5	6
20	On the role of individual subunits in MscL gating: â€œAll for one, one for all?â€• FASEB Journal, 2013, 27, 882-892.	0.5	22
21	Transportation of Nanoscale Cargoes by Myosin Propelled Actin Filaments. PLoS ONE, 2013, 8, e55931.	2.5	30
22	Hydrophobic gating of mechanosensitive channel of large conductance evidenced by single-subunit resolution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12944-12949.	7.1	59
23	Protein-Repellent Functionalizable Surfaces Based on Covalently Bonded Phospholipids with Phosphorylcholine Head. ACS Symposium Series, 2012, , 677-692.	0.5	0
24	Nanopore sensors: From hybrid to abiotic systems. Biosensors and Bioelectronics, 2012, 38, 1-10.	10.1	50
25	â€œMulti-Hitâ€•Action of Membrane Active Peptides: Towards Understanding Bacterial Cell Killing. Biophysical Journal, 2012, 102, 616a.	0.5	0
26	The Molecular Basis for Antimicrobial Activity of Pore-Forming CyclicÂPeptides. Biophysical Journal, 2011, 100, 2422-2431.	0.5	72
27	The Molecular Basis for Antimicrobial Activity of Pore-Forming Cyclic Peptides. Biophysical Journal, 2011, 100, 333a.	0.5	0
28	Taming Membranes: Functional Immobilization of Biological Membranes in Hydrogels. PLoS ONE, 2011, 6, e20435.	2.5	20
29	In vitro synthesis and oligomerization of the mechanosensitive channel of large conductance, MscL, into a functional ion channel. FEBS Letters, 2011, 585, 249-254.	2.8	20
30	Biofunctionalized Lipidâ˜Polymer Hybrid Nanocontainers with Controlled Permeability. Nano Letters, 2008, 8, 1105-1110.	9.1	20
31	A Remote Controlled Valve in Liposomes for Triggered Liposomal Release. Journal of Liposome Research, 2007, 17, 219-225.	3.3	27
32	Synthesis and utilization of reversible and irreversible light-activated nanovalves derived from the channel protein MscL. Nature Protocols, 2007, 2, 1426-1437.	12.0	63
33	Rationally Designed Chemical Modulators Convert a Bacterial Channel Protein into a pH-Sensory Valve. Angewandte Chemie - International Edition, 2006, 45, 3126-3130.	13.8	66
34	A Light-Actuated Nanovalve Derived from a Channel Protein. Science, 2005, 309, 755-758.	12.6	495