Anne E Carlson

List of Publications by Year
in descending order

30 papers	1,659 citations	623734 14 h-index	610901 24 g-index
34 all docs	34 docs citations	34 times ranked	1386 citing authors

#	Article	IF	Citations
1	Phosphate position is key in mediating transmembrane ion channel TMEM16Aâ€“phosphatidylinositol 4,5-bisphosphate interaction. Journal of Biological Chemistry, 2022, 298, 102264.	3.4	2
2	Optimized design of antisense oligomers for targeted rRNA depletion. Nucleic Acids Research, 2021, 49, e5-e5.	14.5	11
3	Actin polymerization is not required for the fast block to polyspermy in the African clawed frog,. MicroPublication Biology, 2021, 2021, .	0.1	0
4	Ion channels and signaling pathways used in the fast polyspermy block. Molecular Reproduction and Development, 2020, 87, 350-357.	2.0	21
5	Zinc protection of fertilized eggs is an ancient feature of sexual reproduction in animals. PLoS Biology, 2020, 18, e3000811.	5.6	11
6	The secrets of success. ELife, 2020, 9, .	6.0	1
7	Phosphatidylinositol 4,5-bisphosphate (PIP2) and Ca2+ are both required to open the Clâ channel TMEM16A. Journal of Biological Chemistry, 2019, 294, 12556-12564.	3.4	41
8	Mechanical stimulation activates Drosophila eggs via Trpm channels. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18757-18758.	7.1	5
9	Tiny Dancer: EFCAB9 Triggers Sperm Hyperactivation via CatSper. Trends in Biochemical Sciences, 2019, 44, 823-826.	7.5	2
10	Under pressure: Ano1 mediates pressure sensing in the lymphatic system. Journal of General Physiology, 2019, 151, 404-406.	1.9	2
11	PLC and IP3-evoked Ca2+ release initiate the fast block to polyspermy in Xenopus laevis eggs. Journal of General Physiology, 2018, 150, 1239-1248.	1.9	17
12	The TMEM16A channel mediates the fast polyspermy block in Xenopus laevis. Journal of General Physiology, 2018, 150, 1249-1259.	1.9	35
13	TMEM16A Mediates the Fast Block to Polyspermy in Xenopus Laevis Eggs. Biophysical Journal, 2017, 112, 552a.	0.5	0
14	Extracellular Ca2+ Is Required for Fertilization in the African Clawed Frog, Xenopus laevis. PLoS ONE, 2017, 12, e0170405.	2.5	12
15	The structural mechanism of KCNH-channel regulation by the eag domain. Nature, 2013, 501, 444-448.	27.8	100
16	Flavonoid Regulation of HCN2 Channels. Journal of Biological Chemistry, 2013, 288, 33136-33145.	3.4	12
17	Flavonoid regulation of EAG1 channels. Journal of General Physiology, 2013, 141, 347-358.	1.9	31
18	Structure of the carboxy-terminal region of a KCNH channel. Nature, 2012, 481, 530-533.	27.8	108

#	Article	IF	Citations
19	Flavonoids Regulate Eag1 Channels. Biophysical Journal, 2010, 98, 1a.	0.5	0
20	Identifying Regulators for EAG1 Channels with a Novel Electrophysiology and Tryptophan Fluorescence Based Screen. PLoS ONE, 2010, 5, e12523.	2.5	13
21	Absence of Direct Cyclic Nucleotide Modulation of mEAG1 and hERG1 Channels Revealed with Fluorescence and Electrophysiological Methods. Journal of Biological Chemistry, 2009, 284, 27989-27997.	3.4	90
22	A Regulator for Eag Family Channels. Biophysical Journal, 2009, 96, 562a.	0.5	0
23	Pharmacological Targeting of Native CatSper Channels Reveals a Required Role in Maintenance of Sperm Hyperactivation. PLoS ONE, 2009, 4, e6844.	2.5	89
24	External Ca2+ acts upstream of adenylyl cyclase SACY in the bicarbonate signaled activation of sperm motility. Developmental Biology, 2007, 312, 183-192.	2.0	108
25	Soluble adenylyl cyclase (sAC) is indispensable for sperm function and fertilization. Developmental Biology, 2006, 296, 353-362.	2.0	212
26	Signaling Pathways for Modulation of Mouse Sperm Motility by Adenosine and Catecholamine Agonists1. Biology of Reproduction, 2006, 74, 492-500.	2.7	35
27	Identical Phenotypes of CatSper1 and CatSper2 Null Sperm. Journal of Biological Chemistry, 2005, 280, 32238-32244.	3.4	149
28	Dequalinium. Journal of General Physiology, 2003, 121, 37-47.	1.9	13
29	CatSper1 required for evoked Ca2+ entry and control of flagellar function in sperm. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14864-14868.	7.1	357
30	Bicarbonate actions on flagellar and Ca2+-channel responses:initial events in sperm activation. Development (Cambridge), 2003, 130, 1317-1326.	2.5	176