# 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 | 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 |
| 2 | Soluble adenylyl cyclase (sAC) is indispensable for sperm function and fertilization. Developmental Biology, 2006, 296, 353-362. | 2.0 | 212 |
| 3 | Bicarbonate actions on flagellar and Ca2+-channel responses:initial events in sperm activation. Development (Cambridge), 2003, 130, 1317-1326. | 2.5 | 176 |
| 4 | Identical Phenotypes of CatSper1 and CatSper2 Null Sperm. Journal of Biological Chemistry, 2005, 280, 32238-32244. | 3.4 | 149 |
| 5 | 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 |
| 6 | Structure of the carboxy-terminal region of a KCNH channel. Nature, 2012, 481, 530-533. | 27.8 | 108 |
| 7 | The structural mechanism of KCNH-channel regulation by the eag domain. Nature, 2013, 501, 444-448. | 27.8 | 100 |
| 8 | 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 |
| 9 | Pharmacological Targeting of Native CatSper Channels Reveals a Required Role in Maintenance of Sperm Hyperactivation. PLoS ONE, 2009, 4, e6844. | 2.5 | 89 |
| 10 | 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 |
| 11 | Signaling Pathways for Modulation of Mouse Sperm Motility by Adenosine and Catecholamine Agonists1. Biology of Reproduction, 2006, 74, 492-500. | 2.7 | 35 |
| 12 | The TMEM16A channel mediates the fast polyspermy block in Xenopus laevis. Journal of General Physiology, 2018, 150, 1249-1259. | 1.9 | 35 |
| 13 | Flavonoid regulation of EAG1 channels. Journal of General Physiology, 2013, 141, 347-358. | 1.9 | 31 |
| 14 | Ion channels and signaling pathways used in the fast polyspermy block. Molecular Reproduction and Development, 2020, 87, 350-357. | 2.0 | 21 |
| 15 | 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 |
| 16 | Dequalinium. Journal of General Physiology, 2003, 121, 37-47. | 1.9 | 13 |
| 17 | Identifying Regulators for EAG1 Channels with a Novel Electrophysiology and Tryptophan Fluorescence Based Screen. PLoS ONE, 2010, 5, e12523. | 2.5 | 13 |
| 18 | Flavonoid Regulation of HCN2 Channels. Journal of Biological Chemistry, 2013, 288, 33136-33145. | 3.4 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Extracellular Ca2+ Is Required for Fertilization in the African Clawed Frog, Xenopus laevis. PLoS ONE, 2017, 12, e0170405. | 2.5 | 12 |
| 20 | Zinc protection of fertilized eggs is an ancient feature of sexual reproduction in animals. PLoS Biology, 2020, 18, e3000811. | 5.6 | 11 |
| 21 | Optimized design of antisense oligomers for targeted rRNA depletion. Nucleic Acids Research, 2021, 49, e5-e5. | 14.5 | 11 |
| 22 | 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 |
| 23 | Tiny Dancer: EFCAB9 Triggers Sperm Hyperactivation via CatSper. Trends in Biochemical Sciences, 2019, 44, 823-826. | 7.5 | 2 |
| 24 | Under pressure: Ano1 mediates pressure sensing in the lymphatic system. Journal of General Physiology, 2019, 151, 404-406. | 1.9 | 2 |
| 25 | 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 |
| 26 | The secrets of success. ELife, 2020, 9, . | 6.0 | 1 |
| 27 | A Regulator for Eag Family Channels. Biophysical Journal, 2009, 96, 562a. | 0.5 | 0 |
| 28 | Flavonoids Regulate Eag1 Channels. Biophysical Journal, 2010, 98, 1a. | 0.5 | 0 |
| 29 | TMEM16A Mediates the Fast Block to Polyspermy in Xenopus Laevis Eggs. Biophysical Journal, 2017, 112, 552a. | 0.5 | 0 |
| 30 | Actin polymerization is not required for the fast block to polyspermy in the African clawed frog,. MicroPublication Biology, 2021, 2021, . | 0.1 | 0 |