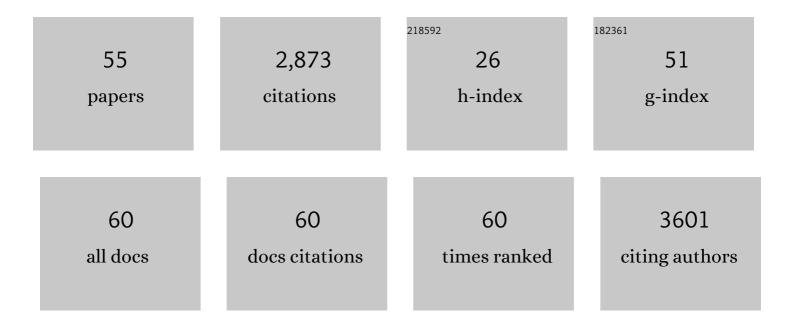
Christopher A Ahern

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The eEF2 Kinase Confers Resistance to Nutrient Deprivation by Blocking Translation Elongation. Cell, 2013, 153, 1064-1079. | 13.5 | 348 |
| 2 | The hitchhiker's guide to the voltage-gated sodium channel galaxy. Journal of General Physiology, 2016, 147, 1-24. | 0.9 | 299 |
| 3 | Electrostatic Contributions of Aromatic Residues in the Local Anesthetic Receptor of Voltage-Gated Sodium Channels. Circulation Research, 2008, 102, 86-94. | 2.0 | 162 |
| 4 | Focused Electric Field across the Voltage Sensor of Potassium Channels. Neuron, 2005, 48, 25-29. | 3.8 | 147 |
| 5 | Structural basis of \hat{l} ±-scorpion toxin action on Na _v channels. Science, 2019, 363, . | 6.0 | 139 |
| 6 | Crystallographic basis for calcium regulation of sodium channels. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3558-3563. | 3.3 | 128 |
| 7 | Contributions of counter-charge in a potassium channel voltage-sensor domain. Nature Chemical Biology, 2011, 7, 617-623. | 3.9 | 95 |
| 8 | Modulation of the Cardiac Sodium Channel Na V 1.5 by Fyn, a Src Family Tyrosine Kinase. Circulation Research, 2005, 96, 991-998. | 2.0 | 93 |
| 9 | Engineered transfer RNAs for suppression of premature termination codons. Nature Communications, 2019, 10, 822. | 5.8 | 86 |
| 10 | HACE1 reduces oxidative stress and mutant Huntingtin toxicity by promoting the NRF2 response. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3032-3037. | 3.3 | 85 |
| 11 | A Cation-Ï€ Interaction Discriminates among Sodium Channels That Are Either Sensitive or Resistant to Tetrodotoxin Block. Journal of Biological Chemistry, 2007, 282, 8044-8051. | 1.6 | 84 |
| 12 | Investigating the Putative Glycine Hinge in Shaker Potassium Channel. Journal of General Physiology, 2005, 126, 213-226. | 0.9 | 83 |
| 13 | Specificity of Charge-carrying Residues in the Voltage Sensor of Potassium Channels. Journal of General Physiology, 2004, 123, 205-216. | 0.9 | 81 |
| 14 | Stirring up controversy with a voltage sensor paddle. Trends in Neurosciences, 2004, 27, 303-307. | 4.2 | 81 |
| 15 | Unnatural Amino Acids as Probes of Ligand-Receptor Interactions and Their Conformational Consequences. Annual Review of Pharmacology and Toxicology, 2013, 53, 211-229. | 4.2 | 68 |
| 16 | Local anesthetic inhibition of a bacterial sodium channel. Journal of General Physiology, 2012, 139, 507-516. | 0.9 | 67 |
| 17 | A Cation–݀ Interaction between Extracellular TEA and an Aromatic Residue in Potassium Channels. Journal of General Physiology, 2006, 128, 649-657. | 0.9 | 58 |
| 18 | Seeing the Forest through the Trees: towards a Unified View on Physiological Calcium Regulation of Voltage-Gated Sodium Channels. Biophysical Journal, 2012, 103, 2243-2251. | 0.2 | 52 |

CHRISTOPHER A AHERN

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Intermediate state trapping of a voltage sensor. Journal of General Physiology, 2012, 140, 635-652. | 0.9 | 50 |
| 20 | A Double Tyrosine Motif in the Cardiac Sodium Channel Domain III-IV Linker Couples Calcium-dependent Calmodulin Binding to Inactivation Gating. Journal of Biological Chemistry, 2009, 284, 33265-33274. | 1.6 | 49 |
| 21 | γ1 Subunit Interactions within the Skeletal Muscle L-type Voltage-gated Calcium Channels. Journal of Biological Chemistry, 2003, 278, 1212-1219. | 1.6 | 41 |
| 22 | Calcium Block of Single Sodium Channels: Role of a Pore-Lining Aromatic Residue. Biophysical Journal, 2007, 93, 2341-2349. | 0.2 | 41 |
| 23 | Asymmetric functional contributions of acidic and aromatic side chains in sodium channel voltage-sensor domains. Journal of General Physiology, 2014, 143, 645-656. | 0.9 | 38 |
| 24 | NÎSubstituted Arginyl Peptide Inhibitors of Protein Arginine N-Methyltransferases. ACS Chemical Biology, 2010, 5, 1053-1063. | 1.6 | 34 |
| 25 | Incorporation of Non-Canonical Amino Acids. Advances in Experimental Medicine and Biology, 2015, 869, 119-151. | 0.8 | 34 |
| 26 | Atomic determinants of BK channel activation by polyunsaturated fatty acids. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13905-13910. | 3.3 | 31 |
| 27 | Biophysical costs associated with tetrodotoxin resistance in the sodium channel pore of the garter snake, Thamnophis sirtalis. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2011, 197, 33-43. | 0.7 | 30 |
| 28 | Conformational dynamics in TRPV1 channels reported by an encoded coumarin amino acid. ELife, 2017, 6, . | 2.8 | 25 |
| 29 | Rapid evolution of a voltage-gated sodium channel gene in a lineage of electric fish leads to a persistent sodium current. PLoS Biology, 2018, 16, e2004892. | 2.6 | 24 |
| 30 | Contributions of Conserved Residues at the Gating Interface of Glycine Receptors. Journal of Biological Chemistry, 2011, 286, 35129-35136. | 1.6 | 23 |
| 31 | Atomic mutagenesis in ion channels with engineered stoichiometry. ELife, 2016, 5, . | 2.8 | 23 |
| 32 | Cellular encoding of Cy dyes for single-molecule imaging. ELife, 2016, 5, . | 2.8 | 23 |
| 33 | New insights into the therapeutic inhibition of voltage-gated sodium channels. Channels, 2008, 2, 1-3. | 1.5 | 18 |
| 34 | Molecular characterization of a two-domain form of the neuronal voltage-gated P/Q-type calcium channel α12.1 subunit. FEBS Letters, 2002, 532, 300-308. | 1.3 | 17 |
| 35 | Basis for allosteric open-state stabilization of voltage-gated potassium channels by intracellular cations. Journal of General Physiology, 2012, 140, 495-511. | 0.9 | 17 |
| 36 | Molecular and functional determinants of local anesthetic inhibition of NaChBac. Channels, 2012, 6, 403-406. | 1.5 | 17 |

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|----|--|-----|-----------|
| 37 | Divergent Cl- and H+ pathways underlie transport coupling and gating in CLC exchangers and channels. ELife, 2020, 9, . | 2.8 | 17 |
| 38 | What activates inactivation?. Journal of General Physiology, 2013, 142, 97-100. | 0.9 | 15 |
| 39 | An electrostatic interaction between TEA and an introduced pore aromatic drives spring-in-the-door inactivation in <i>Shaker</i> potassium channels. Journal of General Physiology, 2009, 134, 461-469. | 0.9 | 14 |
| 40 | HIFs: New arginine mimic inhibitors of the Hv1 channel with improved VSD–ligand interactions. Journal of General Physiology, 2021, 153, . | 0.9 | 14 |
| 41 | Replacing voltage sensor arginines with citrulline provides mechanistic insight into charge versus shape. Journal of General Physiology, 2018, 150, 1017-1024. | 0.9 | 13 |
| 42 | Orthogonality of Pyrrolysine tRNA in the Xenopus oocyte. Scientific Reports, 2018, 8, 5166. | 1.6 | 12 |
| 43 | Removal of Mg2+inhibition of cardiac ryanodine receptor by palmitoyl coenzyme A. FEBS Letters, 1994, 352, 285-290. | 1.3 | 11 |
| 44 | Cross-kingdom auxiliary subunit modulation of a voltage-gated sodium channel. Journal of Biological Chemistry, 2018, 293, 4981-4992. | 1.6 | 11 |
| 45 | Main-chain mutagenesis reveals intrahelical coupling in an ion channel voltage-sensor. Nature Communications, 2018, 9, 5055. | 5.8 | 11 |
| 46 | Mining Protein Evolution for Insights into Mechanisms of Voltage-Dependent Sodium Channel Auxiliary Subunits. Handbook of Experimental Pharmacology, 2017, 246, 33-49. | 0.9 | 10 |
| 47 | Blockade of Permeation by Potassium but Normal Gating of the G628S Nonconducting hERG Channel Mutant. Biophysical Journal, 2011, 101, 662-670. | 0.2 | 8 |
| 48 | A Conserved Residue Cluster That Governs Kinetics of ATP-dependent Gating of Kir6.2 Potassium Channels. Journal of Biological Chemistry, 2015, 290, 15450-15461. | 1.6 | 8 |
| 49 | Ketamine, at Clinical Concentrations, Does Not Alter the Function of Cardiac Sarcoplasmic Reticulum Calcium Release Channels. Anesthesia and Analgesia, 1995, 81, 849-854. | 1.1 | 7 |
| 50 | Atomâ€byâ€atom engineering of voltageâ€gated ion channels: Magnified insights into function and pharmacology. Journal of Physiology, 2015, 593, 2627-2634. | 1.3 | 7 |
| 51 | Role of a conserved ion-binding site tyrosine in ion selectivity of the Na+/K+ pump. Journal of General Physiology, 2022, 154, . | 0.9 | 7 |
| 52 | Expression-dependent pharmacology of transient receptor potential vanilloid subtype 1 channels in <i>Xenopus laevis</i> oocytes. Channels, 2013, 7, 47-50. | 1.5 | 6 |
| 53 | Extracellular Quaternary Ammonium Blockade of Transient Receptor Potential Vanilloid Subtype 1 Channels Expressed in <i>Xenopus laevis</i> Oocytes. Molecular Pharmacology, 2012, 82, 1129-1135. | 1.0 | 4 |
| 54 | Introduction. Advances in Experimental Medicine and Biology, 2015, 869, 1-4. | 0.8 | 4 |

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|----|---|-----|-----------|
| 55 | Selection and validation of orthogonal tRNA/synthetase pairs for the encoding of unnatural amino acids across kingdoms. Methods in Enzymology, 2021, 654, 3-18. | 0.4 | 2 |