

Thomas E Decoursey

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117
papers

7,542
citations

48
h-index

85
g-index

125
ext. papers

8,154
ext. citations

8.9
avg, IF

6.2
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 117 | Analysis of an electrostatic mechanism for pH dependent gating of the voltage-gated proton channel, H1, supports a contribution of protons to gating charge. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021 , 1862, 148480 | 4.6 | 1 |
| 116 | Expression and function of voltage gated proton channels (Hv1) in MDA-MB-231 cells. <i>PLoS ONE</i> , 2020 , 15, e0227522 | 3.7 | 3 |
| 115 | Engineered high-affinity zinc binding site reveals gating configurations of a human proton channel. <i>Journal of General Physiology</i> , 2020 , 152, | 3.4 | 2 |
| 114 | Voltage-gated proton channels exist in the plasma membrane of human oocytes. <i>Human Reproduction</i> , 2019 , 34, 1974-1983 | 5.7 | 2 |
| 113 | Hydrophobic gasket mutation produces gating pore currents in closed human voltage-gated proton channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18951-18961 | 11.5 | 19 |
| 112 | Voltage and pH sensing by the voltage-gated proton channel, H1. <i>Journal of the Royal Society Interface</i> , 2018 , 15, | 4.1 | 28 |
| 111 | Exotic properties of a voltage-gated proton channel from the snail. <i>Journal of General Physiology</i> , 2018 , 150, 835-850 | 3.4 | 9 |
| 110 | Histidine is crucial for pH-dependent gating of the human voltage-gated proton channel, hH1. <i>Journal of General Physiology</i> , 2018 , 150, 851-862 | 3.4 | 10 |
| 109 | Gating currents indicate complex gating of voltage-gated proton channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9057-9059 | 11.5 | 5 |
| 108 | CrossTalk proposal: Proton permeation through H 1 requires transient protonation of a conserved aspartate in the S1 transmembrane helix. <i>Journal of Physiology</i> , 2017 , 595, 6793-6795 | 3.9 | 9 |
| 107 | Rebuttal from Thomas E. DeCoursey. <i>Journal of Physiology</i> , 2017 , 595, 6801 | 3.9 | 1 |
| 106 | Identification of a vacuolar proton channel that triggers the bioluminescent flash in dinoflagellates. <i>PLoS ONE</i> , 2017 , 12, e0171594 | 3.7 | 21 |
| 105 | The intimate and controversial relationship between voltage-gated proton channels and the phagocyte NADPH oxidase. <i>Immunological Reviews</i> , 2016 , 273, 194-218 | 11.3 | 28 |
| 104 | Insights into the structure and function of HV1 from a meta-analysis of mutation studies. <i>Journal of General Physiology</i> , 2016 , 148, 97-118 | 3.4 | 20 |
| 103 | Selectivity Mechanism of the Voltage-gated Proton Channel, HV1. <i>Scientific Reports</i> , 2015 , 5, 10320 | 4.9 | 41 |
| 102 | Publishing: Double-blind peer review a double risk. <i>Nature</i> , 2015 , 520, 623 | 50.4 | 4 |
| 101 | The Voltage-Gated Proton Channel: A Riddle, Wrapped in a Mystery, inside an Enigma. <i>Biochemistry</i> , 2015 , 54, 3250-68 | 3.2 | 28 |

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| 100 | Structural revelations of the human proton channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13430-1 | 11.5 | 9 |
| 99 | Tryptophan 207 is crucial to the unique properties of the human voltage-gated proton channel, hHV1. <i>Journal of General Physiology</i> , 2015 , 146, 343-56 | 3.4 | 31 |
| 98 | Characterization and Subcellular Localization of Hv1 in Lingulodinium Polyedrum Confirms its Role in Bioluminescence. <i>Biophysical Journal</i> , 2015 , 108, 425a | 2.9 | 3 |
| 97 | Proton Channels are Present in Cell Membranes of the Breast Cancer Cell Line MDA MB 231 and Affect Recovery from an Acid Load. <i>Biophysical Journal</i> , 2015 , 108, 587a | 2.9 | 2 |
| 96 | Philosophy of voltage-gated proton channels. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20130799 | 4.1 | 39 |
| 95 | Enhanced activation of an amino-terminally truncated isoform of the voltage-gated proton channel HVCN1 enriched in malignant B cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18078-83 | 11.5 | 47 |
| 94 | Analysis of electrophysiological properties and responses of neutrophils. <i>Methods in Molecular Biology</i> , 2014 , 1124, 121-58 | 1.4 | 3 |
| 93 | Voltage-gated proton channels: molecular biology, physiology, and pathophysiology of the H(V) family. <i>Physiological Reviews</i> , 2013 , 93, 599-652 | 47.9 | 152 |
| 92 | Consequences of dimerization of the voltage-gated proton channel. <i>Progress in Molecular Biology and Translational Science</i> , 2013 , 117, 335-60 | 4 | 11 |
| 91 | Science and economy: Don't judge research on economics alone. <i>Nature</i> , 2013 , 497, 40 | 50.4 | 2 |
| 90 | Construction and validation of a homology model of the human voltage-gated proton channel hHV1. <i>Journal of General Physiology</i> , 2013 , 141, 445-65 | 3.4 | 59 |
| 89 | Peregrination of the selectivity filter delineates the pore of the human voltage-gated proton channel hHV1. <i>Journal of General Physiology</i> , 2013 , 142, 625-40 | 3.4 | 30 |
| 88 | NOX5 in human spermatozoa: expression, function, and regulation. <i>Journal of Biological Chemistry</i> , 2012 , 287, 9376-88 | 5.4 | 104 |
| 87 | Voltage-gated proton channels. <i>Comprehensive Physiology</i> , 2012 , 2, 1355-85 | 7.7 | 24 |
| 86 | Biophysical properties of the voltage gated proton channel H(V)1. <i>Environmental Sciences Europe</i> , 2012 , 1, 605-620 | 5 | 19 |
| 85 | Strong glucose dependence of electron current in human monocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 302, C286-95 | 5.4 | 20 |
| 84 | Competing interests: Follow the money on climate controversy. <i>Nature</i> , 2012 , 489, 502 | 50.4 | |
| 83 | Aspartate 112 is the selectivity filter of the human voltage-gated proton channel. <i>Nature</i> , 2011 , 480, 273-7 | 50.4 | 121 |

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| 82 | NIH revamp: US health care at fault. <i>Nature</i> , 2011 , 473, 31 | 50.4 | |
| 81 | pH regulation and beyond: unanticipated functions for the voltage-gated proton channel, HVCN1. <i>Trends in Cell Biology</i> , 2011 , 21, 20-8 | 18.3 | 72 |
| 80 | Voltage-gated proton channel in a dinoflagellate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18162-7 | 11.5 | 86 |
| 79 | Zinc inhibition of monomeric and dimeric proton channels suggests cooperative gating. <i>Journal of Physiology</i> , 2010 , 588, 1435-49 | 3.9 | 80 |
| 78 | HVCN1 modulates BCR signal strength via regulation of BCR-dependent generation of reactive oxygen species. <i>Nature Immunology</i> , 2010 , 11, 265-72 | 19.1 | 164 |
| 77 | Oligomerization of the voltage-gated proton channel. <i>Channels</i> , 2010 , 4, 260-5 | 3 | 21 |
| 76 | Simultaneous Measurement of Phagosome and Plasma Membrane Potentials in Human Neutrophils By Di-8-Anepps and SEER. <i>Biophysical Journal</i> , 2010 , 98, 55a | 2.9 | 2 |
| 75 | Identification of Thr29 as a critical phosphorylation site that activates the human proton channel Hvcn1 in leukocytes. <i>Journal of Biological Chemistry</i> , 2010 , 285, 5117-21 | 5.4 | 47 |
| 74 | Voltage-gated proton channels find their dream job managing the respiratory burst in phagocytes. <i>Physiology</i> , 2010 , 25, 27-40 | 9.8 | 73 |
| 73 | Voltage-gated proton channels maintain pH in human neutrophils during phagocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18022-7 | 11.5 | 130 |
| 72 | Unintended Consequences at NIH. <i>Science</i> , 2009 , 323, 209a-209a | 33.3 | |
| 71 | The intimate and mysterious relationship between proton channels and NADPH oxidase. <i>FEBS Letters</i> , 2009 , 583, 7-12 | 3.8 | 38 |
| 70 | Detailed comparison of expressed and native voltage-gated proton channel currents. <i>Journal of Physiology</i> , 2008 , 586, 2477-86 | 3.9 | 66 |
| 69 | Voltage-gated proton channels: what's next?. <i>Journal of Physiology</i> , 2008 , 586, 5305-24 | 3.9 | 49 |
| 68 | A pH-stabilizing role of voltage-gated proton channels in IgE-mediated activation of human basophils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11020-5 | 11.5 | 65 |
| 67 | Voltage-gated proton channels. <i>Cellular and Molecular Life Sciences</i> , 2008 , 65, 2554-73 | 10.3 | 53 |
| 66 | The Voltage-Gated Proton Channel HVCN1 Co-Localizes with B Cell Receptor and Is Involved in Class Switch Recombination in Vivo. <i>Blood</i> , 2008 , 112, 707-707 | 2.2 | 3 |
| 65 | Sustained activation of proton channels and NADPH oxidase in human eosinophils and murine granulocytes requires PKC but not cPLA2 alpha activity. <i>Journal of Physiology</i> , 2007 , 579, 327-44 | 3.9 | 55 |

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| 64 | Pharmacology of voltage-gated proton channels. <i>Current Pharmaceutical Design</i> , 2007 , 13, 2400-20 | 3.3 | 20 |
| 63 | Analysis of electrophysiological properties and responses of neutrophils. <i>Methods in Molecular Biology</i> , 2007 , 412, 139-75 | 1.4 | 4 |
| 62 | The antibacterial activity of human neutrophils and eosinophils requires proton channels but not BK channels. <i>Journal of General Physiology</i> , 2006 , 127, 659-72 | 3.4 | 72 |
| 61 | Charge compensation during the phagocyte respiratory burst. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006 , 1757, 996-1011 | 4.6 | 111 |
| 60 | It's difficult to publish contradictory findings. <i>Nature</i> , 2006 , 439, 784 | 50.4 | 5 |
| 59 | The pros and cons of open peer review. <i>Nature</i> , 2006 , | 50.4 | 26 |
| 58 | The pH dependence of NADPH oxidase in human eosinophils. <i>Journal of Physiology</i> , 2005 , 569, 419-31 | 3.9 | 74 |
| 57 | Regulation and termination of NADPH oxidase activity. <i>Cellular and Molecular Life Sciences</i> , 2005 , 62, 2173-93 | 10.3 | 198 |
| 56 | Voltage-gated proton channels help regulate pHi in rat alveolar epithelium. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005 , 288, L398-408 | 5.8 | 27 |
| 55 | During the respiratory burst, do phagocytes need proton channels or potassium channels, or both?. <i>Science Signaling</i> , 2004 , 2004, pe21 | 8.8 | 26 |
| 54 | Voltage-gated proton channels and other proton transfer pathways. <i>Physiological Reviews</i> , 2003 , 83, 475-579 | 47.9 | 544 |
| 53 | Diversity of voltage gated proton channels. <i>Frontiers in Bioscience - Landmark</i> , 2003 , 8, s1266-79 | 2.8 | 8 |
| 52 | The voltage dependence of NADPH oxidase reveals why phagocytes need proton channels. <i>Nature</i> , 2003 , 422, 531-4 | 50.4 | 246 |
| 51 | Temperature dependence of NADPH oxidase in human eosinophils. <i>Journal of Physiology</i> , 2003 , 550, 447-58 | 3.9 | 41 |
| 50 | Interactions between NADPH oxidase and voltage-gated proton channels: why electron transport depends on proton transport. <i>FEBS Letters</i> , 2003 , 555, 57-61 | 3.8 | 28 |
| 49 | Properties of single voltage-gated proton channels in human eosinophils estimated by noise analysis and by direct measurement. <i>Journal of General Physiology</i> , 2003 , 121, 615-28 | 3.4 | 72 |
| 48 | Voltage-activated proton currents in human lymphocytes. <i>Journal of Physiology</i> , 2002 , 545, 93-105 | 3.9 | 52 |
| 47 | The gp91phox component of NADPH oxidase is not a voltage-gated proton channel. <i>Journal of General Physiology</i> , 2002 , 120, 773-9 | 3.4 | 32 |

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| 46 | Absence of proton channels in COS-7 cells expressing functional NADPH oxidase components. <i>Journal of General Physiology</i> , 2002 , 119, 571-80 | 3.4 | 46 |
| 45 | Interactions between NADPH oxidase-related proton and electron currents in human eosinophils. <i>Journal of Physiology</i> , 2001 , 535, 767-81 | 3.9 | 70 |
| 44 | Activation of NADPH oxidase-related proton and electron currents in human eosinophils by arachidonic acid. <i>Journal of Physiology</i> , 2001 , 535, 783-94 | 3.9 | 68 |
| 43 | The gp91phox component of NADPH oxidase is not the voltage-gated proton channel in phagocytes, but it helps. <i>Journal of Biological Chemistry</i> , 2001 , 276, 36063-6 | 5.4 | 56 |
| 42 | Voltage-gated proton channels in microglia. <i>Progress in Neurobiology</i> , 2001 , 64, 277-305 | 10.9 | 77 |
| 41 | Hypothesis: do voltage-gated H(+) channels in alveolar epithelial cells contribute to CO(2) elimination by the lung?. <i>American Journal of Physiology - Cell Physiology</i> , 2000 , 278, C1-C10 | 5.4 | 34 |
| 40 | Upregulation of Kv1.3 K(+) channels in microglia deactivated by TGF-beta. <i>American Journal of Physiology - Cell Physiology</i> , 2000 , 279, C1123-34 | 5.4 | 53 |
| 39 | Simultaneous activation of NADPH oxidase-related proton and electron currents in human neutrophils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 6885-9 | 11.5 | 119 |
| 38 | Common themes and problems of bioenergetics and voltage-gated proton channels. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000 , 1458, 104-19 | 4.6 | 24 |
| 37 | pH-dependent inhibition of voltage-gated H(+) currents in rat alveolar epithelial cells by Zn(2+) and other divalent cations. <i>Journal of General Physiology</i> , 1999 , 114, 819-38 | 3.4 | 143 |
| 36 | An Electrophysiological Comparison of Voltage-Gated Proton Channels, Other Ion Channels, and Other Proton Channels. <i>Israel Journal of Chemistry</i> , 1999 , 39, 409-418 | 3.4 | 16 |
| 35 | Idiosyncratic gating of HERG-like K+ channels in microglia. <i>Journal of General Physiology</i> , 1998 , 111, 795-805 | 3.4 | 30 |
| 34 | Temperature dependence of voltage-gated H+ currents in human neutrophils, rat alveolar epithelial cells, and mammalian phagocytes. <i>Journal of General Physiology</i> , 1998 , 112, 503-22 | 3.4 | 115 |
| 33 | HERG-like K+ channels in microglia. <i>Journal of General Physiology</i> , 1998 , 111, 781-94 | 3.4 | 74 |
| 32 | Four varieties of voltage-gated proton channels. <i>Frontiers in Bioscience - Landmark</i> , 1998 , 3, d477-482 | 2.8 | 27 |
| 31 | Deuterium isotope effects on permeation and gating of proton channels in rat alveolar epithelium. <i>Journal of General Physiology</i> , 1997 , 109, 415-34 | 3.4 | 98 |
| 30 | Proton and chloride currents in Chinese hamster ovary cells. <i>Membrane & Cell Biology</i> , 1997 , 11, 337-47 | | 18 |
| 29 | Effects of buffer concentration on voltage-gated H+ currents: does diffusion limit the conductance?. <i>Biophysical Journal</i> , 1996 , 71, 182-93 | 2.9 | 43 |

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| 28 | Ion channels in human THP-1 monocytes. <i>Journal of Membrane Biology</i> , 1996 , 152, 117-30 | 2.3 | 39 |
| 27 | Voltage-activated proton currents in human THP-1 monocytes. <i>Journal of Membrane Biology</i> , 1996 , 152, 131-40 | 2.3 | 44 |
| 26 | Ion channel expression in PMA-differentiated human THP-1 macrophages. <i>Journal of Membrane Biology</i> , 1996 , 152, 141-57 | 2.3 | 70 |
| 25 | Mechanism of K ⁺ channel block by verapamil and related compounds in rat alveolar epithelial cells. <i>Journal of General Physiology</i> , 1995 , 106, 745-79 | 3.4 | 63 |
| 24 | The voltage-activated hydrogen ion conductance in rat alveolar epithelial cells is determined by the pH gradient. <i>Journal of General Physiology</i> , 1995 , 105, 861-96 | 3.4 | 146 |
| 23 | Na ⁽⁺⁾ -H ⁺ antiport detected through hydrogen ion currents in rat alveolar epithelial cells and human neutrophils. <i>Journal of General Physiology</i> , 1994 , 103, 755-85 | 3.4 | 41 |
| 22 | A scheme to account for the effects of Rb ⁺ and K ⁺ on inward rectifier K channels of bovine artery endothelial cells. <i>Journal of General Physiology</i> , 1994 , 103, 549-81 | 3.4 | 19 |
| 21 | Effects of external Rb ⁺ on inward rectifier K ⁺ channels of bovine pulmonary artery endothelial cells. <i>Journal of General Physiology</i> , 1994 , 103, 519-48 | 3.4 | 24 |
| 20 | Voltage-activated hydrogen ion currents. <i>Journal of Membrane Biology</i> , 1994 , 141, 203-23 | 2.3 | 110 |
| 19 | Potential, pH, and arachidonate gate hydrogen ion currents in human neutrophils. <i>Biophysical Journal</i> , 1993 , 65, 1590-8 | 2.9 | 152 |
| 18 | Selectivity and gating of the type L potassium channel in mouse lymphocytes. <i>Journal of General Physiology</i> , 1991 , 97, 1227-50 | 3.4 | 30 |
| 17 | Permeant ion effects on the gating kinetics of the type L potassium channel in mouse lymphocytes. <i>Journal of General Physiology</i> , 1991 , 97, 1251-78 | 3.4 | 25 |
| 16 | Hydrogen ion currents in rat alveolar epithelial cells. <i>Biophysical Journal</i> , 1991 , 60, 1243-53 | 2.9 | 124 |
| 15 | State-dependent inactivation of K ⁺ currents in rat type II alveolar epithelial cells. <i>Journal of General Physiology</i> , 1990 , 95, 617-46 | 3.4 | 51 |
| 14 | Intrinsic gating of inward rectifier in bovine pulmonary artery endothelial cells in the presence or absence of internal Mg ²⁺ . <i>Journal of General Physiology</i> , 1990 , 96, 109-33 | 3.4 | 114 |
| 13 | Mechanisms of potassium channel block in rat alveolar epithelial cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 1990 , 255, 459-72 | 4.7 | 36 |
| 12 | Potassium currents in rat type II alveolar epithelial cells. <i>Journal of Physiology</i> , 1988 , 395, 487-505 | 3.9 | 45 |
| 11 | Two types of potassium channels in murine T lymphocytes. <i>Journal of General Physiology</i> , 1987 , 89, 379-404 | 3.4 | 95 |

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|----|--|------|-----|
| 10 | Mitogen induction of ion channels in murine T lymphocytes. <i>Journal of General Physiology</i> , 1987 , 89, 405-20 | 3.4 | 108 |
| 9 | Ion channels in T lymphocytes. <i>Advances in Experimental Medicine and Biology</i> , 1987 , 213, 85-101 | 3.6 | 18 |
| 8 | Altered K ⁺ channel expression in abnormal T lymphocytes from mice with the lpr gene mutation. <i>Science</i> , 1986 , 233, 1197-200 | 33.3 | 60 |
| 7 | A voltage-gated potassium channel in human T lymphocytes. <i>Journal of Physiology</i> , 1985 , 358, 197-237 | 3.9 | 335 |
| 6 | Ion channels in lymphocytes. <i>Journal of Clinical Immunology</i> , 1985 , 5, 1-6 | 5.7 | 21 |
| 5 | Voltage-dependent ion channels in T-lymphocytes. <i>Journal of Neuroimmunology</i> , 1985 , 10, 71-95 | 3.5 | 148 |
| 4 | Voltage-gated potassium channels are required for human T lymphocyte activation. <i>Journal of Experimental Medicine</i> , 1984 , 160, 369-85 | 16.6 | 319 |
| 3 | Voltage-gated K ⁺ channels in human T lymphocytes: a role in mitogenesis?. <i>Nature</i> , 1984 , 307, 465-8 | 50.4 | 658 |
| 2 | Inward rectifier current noise in frog skeletal muscle. <i>Journal of Physiology</i> , 1984 , 349, 299-327 | 3.9 | 12 |
| 1 | Neural control of chloride conductance in rat extensor digitorum longus muscle. <i>Experimental Neurology</i> , 1978 , 61, 705-9 | 5.7 | 8 |