

# Eric A Newman

## List of Publications by Year in descending order

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75  
papers

12,890  
citations

57758

44  
h-index

88630

70  
g-index

75  
all docs

75  
docs citations

75  
times ranked

9863  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Dilation of cortical capillaries is not related to astrocyte calcium signaling. <i>Glia</i> , 2022, 70, 508-521.   | 4.9  | 19        |
| 2  | Astrocyte regulation of cerebral blood flow during hypoglycemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1534-1546.   | 4.3  | 9         |
| 3  | Cellular mechanisms mediating activity-dependent extracellular space shrinkage in the retina. <i>Glia</i> , 2022, 70, 1927-1937.   | 4.9  | 3         |
| 4  | Regulation of blood flow in diabetic retinopathy. <i>Visual Neuroscience</i> , 2020, 37, E004.   | 1.0  | 15        |
| 5  | Spatial Organization and Dynamics of the Extracellular Space in the Mouse Retina. <i>Journal of Neuroscience</i> , 2020, 40, 7785-7794.  | 3.6  | 11        |
| 6  | Mechanisms Mediating Functional Hyperemia in the Brain. <i>Neuroscientist</i> , 2018, 24, 73-83.   | 3.5  | 88        |
| 7  | Keeping the Brain Well Fed: The Role of Capillaries and Arterioles in Orchestrating Functional Hyperemia. <i>Neuron</i> , 2018, 99, 248-250.   | 8.1  | 9         |
| 8  | Ischemia-induced spreading depolarization in the retina. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1579-1591.   | 4.3  | 12        |
| 9  | Light adaptation does not prevent early retinal abnormalities in diabetic rats. <i>Scientific Reports</i> , 2016, 6, 21075.  | 3.3  | 13        |
| 10 | Glial Cell Calcium Signaling Mediates Capillary Regulation of Blood Flow in the Retina. <i>Journal of Neuroscience</i> , 2016, 36, 9435-9445.  | 3.6  | 121       |
| 11 | Measurement of Retinal Blood Flow Using Fluorescently Labeled Red Blood Cells. <i>ENeuro</i> , 2015, 2, ENEURO.0005-15.2015.   | 1.9  | 33        |
| 12 | Glial cell regulation of neuronal activity and blood flow in the retina by release of gliotransmitters. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140195. | 4.0  | 146       |
| 13 | Astrocyte Regulation of Blood Flow in the Brain. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a020388.   | 5.5  | 249       |
| 14 | Purinergic control of vascular tone in the retina. <i>Journal of Physiology</i> , 2014, 592, 491-504.  | 2.9  | 58        |
| 15 | Regulation of Blood Flow in the Retinal Trilaminar Vascular Network. <i>Journal of Neuroscience</i> , 2014, 34, 11504-11513.   | 3.6  | 153       |
| 16 | Functional Hyperemia and Mechanisms of Neurovascular Coupling in the Retinal Vasculature. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1685-1695.  | 4.3  | 181       |
| 17 | Cellular and physiological mechanisms underlying blood flow regulation in the retina and choroid in health and disease. <i>Progress in Retinal and Eye Research</i> , 2012, 31, 377-406.                     | 15.5 | 514       |
| 18 | Assessment of Glial Function in the In Vivo Retina. <i>Methods in Molecular Biology</i> , 2012, 814, 499-514.  | 0.9  | 10        |

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|----|---|------|-----------|
| 19 | A micro-advancer device for vitreal injection and retinal recording and stimulation. <i>Experimental Eye Research</i> , 2011, 93, 767-770.  | 2.6  | 2         |
| 20 | Oxygen modulation of neurovascular coupling in the retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17827-17831.   | 7.1  | 78        |
| 21 | Aminoguanidine Reverses the Loss of Functional Hyperemia in a Rat Model of Diabetic Retinopathy. <i>Frontiers in Neuroenergetics</i> , 2011, 3, 10.   | 5.3  | 29        |
| 22 | Mechanisms and Distribution of Ion Channels in Retinal Ganglion Cells: Using Temperature as an Independent Variable. <i>Journal of Neurophysiology</i> , 2010, 103, 1357-1374.  | 1.8  | 80        |
| 23 | Inhibition of inducible nitric oxide synthase reverses the loss of functional hyperemia in diabetic retinopathy. <i>Glia</i> , 2010, 58, 1996-2004.   | 4.9  | 95        |
| 24 | Glial and neuronal control of brain blood flow. <i>Nature</i> , 2010, 468, 232-243.   | 27.8 | 2,003     |
| 25 | Imaging retinal blood flow with laser speckle flowmetry. <i>Frontiers in Neuroenergetics</i> , 2010, 2, .   | 5.3  | 66        |
| 26 | Adenosine-Evoked Hyperpolarization of Retinal Ganglion Cells Is Mediated by G-Protein-Coupled Inwardly Rectifying K <sup>+</sup> and Small Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> Channel Activation. <i>Journal of Neuroscience</i> , 2009, 29, 11237-11245. | 3.6  | 39        |
| 27 | Spontaneous Glial Calcium Waves in the Retina Develop over Early Adulthood. <i>Journal of Neuroscience</i> , 2009, 29, 11339-11346.   | 3.6  | 46        |
| 28 | Regulation of potassium by glial cells in the central nervous system. , 2009, , 151-175.  |      | 4         |
| 29 | Neurovascular Coupling Is Not Mediated by Potassium Siphoning from Glial Cells. <i>Journal of Neuroscience</i> , 2007, 27, 2468-2471.   | 3.6  | 78        |
| 30 | Signalling within the neurovascular unit in the mammalian retina. <i>Experimental Physiology</i> , 2007, 92, 635-640.   | 2.0  | 139       |
| 31 | Glial Cells Dilate and Constrict Blood Vessels: A Mechanism of Neurovascular Coupling. <i>Journal of Neuroscience</i> , 2006, 26, 2862-2870.  | 3.6  | 547       |
| 32 | Calcium signaling in specialized glial cells. <i>Glia</i> , 2006, 54, 650-655.  | 4.9  | 89        |
| 33 | A purinergic dialogue between glia and neurons in the retina. <i>Novartis Foundation Symposium</i> , 2006, 276, 193-202; discussion 202-7, 233-7, 275-81.   | 1.1  | 12        |
| 34 | Calcium Increases in Retinal Glial Cells Evoked by Light-Induced Neuronal Activity. <i>Journal of Neuroscience</i> , 2005, 25, 5502-5510.   | 3.6  | 170       |
| 35 | A dialogue between glia and neurons in the retina: modulation of neuronal excitability. <i>Neuron Glia Biology</i> , 2004, 1, 245-252.  | 1.6  | 44        |
| 36 | Glial modulation of synaptic transmission in the retina. <i>Glia</i> , 2004, 47, 268-274.   | 4.9  | 127       |

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|----|--|------|-----------|
| 37 | Potassium buffering in the central nervous system. <i>Neuroscience</i> , 2004, 129, 1043-1054.   | 2.3  | 700       |
| 38 | New roles for astrocytes: Regulation of synaptic transmission. <i>Trends in Neurosciences</i> , 2003, 26, 536-542.   | 8.6  | 543       |
| 39 | D-serine and serine racemase are present in the vertebrate retina and contribute to the physiological activation of NMDA receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6789-6794. | 7.1  | 250       |
| 40 | Glial Cell Inhibition of Neurons by Release of ATP. <i>Journal of Neuroscience</i> , 2003, 23, 1659-1666.  | 3.6  | 410       |
| 41 | Propagation of Intercellular Calcium Waves in Retinal Astrocytes and Müller Cells. <i>Journal of Neuroscience</i> , 2001, 21, 2215-2223.   | 3.6  | 429       |
| 42 | Electrical coupling between glial cells in the rat retina. <i>Glia</i> , 2001, 35, 1-13.   | 4.9  | 32        |
| 43 | Calcium signaling in retinal glial cells and its effect on neuronal activity. <i>Progress in Brain Research</i> , 2001, 132, 241-254.  | 1.4  | 30        |
| 44 | Genetic Inactivation of an Inwardly Rectifying Potassium Channel (Kir4.1 Subunit) in Mice: Phenotypic Impact in Retina. <i>Journal of Neuroscience</i> , 2000, 20, 5733-5740.  | 3.6  | 404       |
| 45 | An eyecup preparation for the rat and mouse. <i>Journal of Neuroscience Methods</i> , 1999, 93, 169-175.   | 2.5  | 23        |
| 46 | Sodium-bicarbonate cotransport in retinal astrocytes and Müller cells of the rat. , 1999, 26, 302-308.   |      | 32        |
| 47 | Modulation of Neuronal Activity by Glial Cells in the Retina. <i>Journal of Neuroscience</i> , 1998, 18, 4022-4028.  | 3.6  | 341       |
| 48 | Calcium Waves in Retinal Glial Cells. <i>Science</i> , 1997, 275, 844-847.   | 12.6 | 437       |
| 49 | Asymmetric gap junctional coupling between glial cells in the rat retina. , 1997, 20, 10-22.   |      | 89        |
| 50 | Asymmetric gap junctional coupling between glial cells in the rat retina. <i>Glia</i> , 1997, 20, 10-22.   | 4.9  | 38        |
| 51 | The Müller cell: a functional element of the retina. <i>Trends in Neurosciences</i> , 1996, 19, 307-312.   | 8.6  | 713       |
| 52 | Acid efflux from retinal glial cells generated by sodium bicarbonate cotransport. <i>Journal of Neuroscience</i> , 1996, 16, 159-168.  | 3.6  | 93        |
| 53 | A physiological measure of carbonic anhydrase in Müller cells. <i>Glia</i> , 1994, 11, 291-299.  | 4.9  | 42        |
| 54 | Inward-rectifying potassium channels in retinal glial (Müller) cells. <i>Journal of Neuroscience</i> , 1993, 13, 3333-3345.  | 3.6  | 276       |

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|----|--|------|-----------|
| 55 | Sodium-bicarbonate cotransport in retinal Muller (glial) cells of the salamander. <i>Journal of Neuroscience</i> , 1991, 11, 3972-3983.  | 3.6  | 79        |
| 56 | Spatial Buffering of Light-Evoked Potassium Increases by Retinal Müller (Glial) Cells. <i>Science</i> , 1989, 244, 578-580.  | 12.6 | 204       |
| 57 | Potassium conductance block by barium in amphibian Müller cells. <i>Brain Research</i> , 1989, 498, 308-314.   | 2.2  | 56        |
| 58 | Potassium conductance in Müller cells of fish. <i>Glia</i> , 1988, 1, 275-281.   | 4.9  | 22        |
| 59 | Electrophysiology of retinal glial cells. <i>Progress in Retinal and Eye Research</i> , 1988, 8, 153-171.  | 0.8  | 15        |
| 60 | Does the release of potassium from astrocyte endfeet regulate cerebral blood flow?. <i>Science</i> , 1987, 237, 896-898.   | 12.6 | 391       |
| 61 | Distribution of potassium conductance in mammalian Müller (glial) cells: a comparative study. <i>Journal of Neuroscience</i> , 1987, 7, 2423-32.   | 3.6  | 157       |
| 62 | Regional Specialization of the Membrane of Retinal Glial Cells and Its Importance to K <sup>+</sup> Spatial Buffering. <i>Annals of the New York Academy of Sciences</i> , 1986, 481, 273-286. | 3.8  | 50        |
| 63 | Physiological properties and possible functions of muller cells. <i>Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society</i> , 1986, 4, S209-S220.         | 0.0  | 1         |
| 64 | Physiological properties and possible functions of Muller cells. <i>Neuroscience Research</i> , 1986, 4, S209-S220.  | 1.9  | 6         |
| 65 | High potassium conductance in astrocyte endfeet. <i>Science</i> , 1986, 233, 453-454.  | 12.6 | 283       |
| 66 | THE MÜLLER CELL. , 1986, , 149-171.  |      | 27        |
| 67 | Voltage-dependent calcium and potassium channels in retinal glial cells. <i>Nature</i> , 1985, 317, 809-811.   | 27.8 | 213       |
| 68 | Light-evoked increases in extracellular K <sup>+</sup> in the plexiform layers of amphibian retinas.. <i>Journal of General Physiology</i> , 1985, 86, 189-213.                                | 1.9  | 80        |
| 69 | Regulation of potassium levels by glial cells in the retina. <i>Trends in Neurosciences</i> , 1985, 8, 156-159.  | 8.6  | 64        |
| 70 | Model of electroretinogram b-wave generation: a test of the K <sup>+</sup> hypothesis. <i>Journal of Neurophysiology</i> , 1984, 51, 164-182.  | 1.8  | 191       |
| 71 | Control of Extracellular Potassium Levels by Retinal Glial Cell K <sup>+</sup> Siphoning. <i>Science</i> , 1984, 225, 1174-1175.   | 12.6 | 449       |
| 72 | Regional specialization of retinal glial cell membrane. <i>Nature</i> , 1984, 309, 155-157.  | 27.8 | 266       |

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|----|---|-----|-----------|
| 73 | Current source-density analysis of the b-wave of frog retina.. Journal of Neurophysiology, 1980, 43, 1355-1366. | 1.8 | 100       |
| 74 | B-wave currents in the frog retina. Vision Research, 1979, 19, 227-234.   | 1.4 | 41        |
| 75 | A Purinergic Dialogue between Glia and Neurons in the Retina. Novartis Foundation Symposium, 0, , 193-207.      | 1.1 | 21        |