

# Philip G Haydon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/334252/publications.pdf>

Version: 2024-02-01

32  
papers

6,309  
citations

304743

22  
h-index

414414

32  
g-index

33  
all docs

33  
docs citations

33  
times ranked

7085  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Astrocytic Purinergic Signaling Coordinates Synaptic Networks. <i>Science</i> , 2005, 310, 113-116.   | 12.6 | 1,137     |
| 2  | Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021, 24, 312-325.  | 14.8 | 1,098     |
| 3  | Glutransmitters Travel in Time and Space. <i>Neuron</i> , 2014, 81, 728-739.  | 8.1  | 1,010     |
| 4  | Astrocytic Modulation of Sleep Homeostasis and Cognitive Consequences of Sleep Loss. <i>Neuron</i> , 2009, 61, 213-219.   | 8.1  | 746       |
| 5  | Bioengineered functional brain-like cortical tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13811-13816.   | 7.1  | 255       |
| 6  | Exocytosis of ATP From Astrocytes Modulates Phasic and Tonic Inhibition in the Neocortex. <i>PLoS Biology</i> , 2014, 12, e1001747.   | 5.6  | 222       |
| 7  | Septal Cholinergic Neuromodulation Tunes the Astrocyte-Dependent Gating of Hippocampal NMDA Receptors to Wakefulness. <i>Neuron</i> , 2017, 94, 840-854.e7.   | 8.1  | 179       |
| 8  | Astrocytic control of synaptic function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160154.   | 4.0  | 170       |
| 9  | Astrocyte-Derived Adenosine and A <sub>1</sub> Receptor Activity Contribute to Sleep Loss-Induced Deficits in Hippocampal Synaptic Plasticity and Memory in Mice. <i>Journal of Neuroscience</i> , 2011, 31, 6956-6962. | 3.6  | 169       |
| 10 | Behaviorally consequential astrocytic regulation of neural circuits. <i>Neuron</i> , 2021, 109, 576-596.  | 8.1  | 150       |
| 11 | Connexin 43-Mediated Astroglial Metabolic Networks Contribute to the Regulation of the Sleep-Wake Cycle. <i>Neuron</i> , 2017, 95, 1365-1380.e5.  | 8.1  | 146       |
| 12 | Wakefulness Affects Synaptic and Network Activity by Increasing Extracellular Astrocyte-Derived Adenosine. <i>Journal of Neuroscience</i> , 2012, 32, 4417-4425.  | 3.6  | 129       |
| 13 | How Do Astrocytes Participate in Neural Plasticity?. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a020438.  | 5.5  | 113       |
| 14 | Astrocytes and the modulation of sleep. <i>Current Opinion in Neurobiology</i> , 2017, 44, 28-33.   | 4.2  | 88        |
| 15 | Extracellular Adenosine Protects against <i>Streptococcus pneumoniae</i> Lung Infection by Regulating Pulmonary Neutrophil Recruitment. <i>PLoS Pathogens</i> , 2015, 11, e1005126.                                     | 4.7  | 75        |
| 16 | Chronic Sleep Restriction Disrupts Sleep Homeostasis and Behavioral Sensitivity to Alcohol by Reducing the Extracellular Accumulation of Adenosine. <i>Journal of Neuroscience</i> , 2014, 34, 1879-1891.               | 3.6  | 63        |
| 17 | Mechanosensory Signaling in Astrocytes. <i>Journal of Neuroscience</i> , 2020, 40, 9364-9371.   | 3.6  | 61        |
| 18 | Mechanically Induced Reactive Gliosis Causes ATP-Mediated Alterations in Astrocyte Stiffness. <i>Journal of Neurotrauma</i> , 2009, 26, 789-797.  | 3.4  | 56        |

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|----|---|------|-----------|
| 19 | Astrocytic adenosine: from synapses to psychiatric disorders. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130594.  | 4.0  | 47        |
| 20 | Astrocytic IP3/Ca2+ Signaling Modulates Theta Rhythm and REM Sleep. <i>Frontiers in Neural Circuits</i> , 2017, 11, 3.  | 2.8  | 41        |
| 21 | Neuronal activity drives pathway-specific depolarization of peripheral astrocyte processes. <i>Nature Neuroscience</i> , 2022, 25, 607-616.   | 14.8 | 30        |
| 22 | BACE1 partial deletion induces synaptic plasticity deficit in adult mice. <i>Scientific Reports</i> , 2019, 9, 19877.   | 3.3  | 25        |
| 23 | BACE1 elevation engendered by GGA3 deletion increases $\beta$ -amyloid pathology in association with APP elevation and decreased CHL1 processing in 5XFAD mice. <i>Molecular Neurodegeneration</i> , 2018, 13, 6. | 10.8 | 24        |
| 24 | Astrocytes and epilepsy. <i>Epilepsia</i> , 2010, 51, 53-53.  | 5.1  | 20        |
| 25 | Glutamine Synthetase Stability and Subcellular Distribution in Astrocytes Are Regulated by $\beta$ -Aminobutyric Type B Receptors. <i>Journal of Biological Chemistry</i> , 2014, 289, 28808-28815.               | 3.4  | 17        |
| 26 | Suppression of SNARE-dependent exocytosis in retinal glial cells and its effect on ischemia-induced neurodegeneration. <i>Glia</i> , 2017, 65, 1059-1071.   | 4.9  | 17        |
| 27 | Molecular analysis of acute and chronic reactive astrocytes in the pilocarpine model of temporal lobe epilepsy. <i>Neurobiology of Disease</i> , 2016, 91, 315-325.   | 4.4  | 15        |
| 28 | A purinergic P2Y6 receptor agonist prodrug modulates airway inflammation, remodeling, and hyperreactivity in a mouse model of asthma. <i>Journal of Asthma and Allergy</i> , 2018, Volume 11, 159-171.            | 3.4  | 15        |
| 29 | Purinergic receptor activation facilitates astrocytic GABAB receptor calcium signalling. <i>Neuropharmacology</i> , 2015, 88, 74-81.  | 4.1  | 11        |
| 30 | Connexin 30 controls the extension of astrocytic processes into the synaptic cleft through an unconventional non-channel function. <i>Neuroscience Bulletin</i> , 2014, 30, 1045-1048.                            | 2.9  | 10        |
| 31 | Genetic Deletion of the Clathrin Adaptor GGA3 Reduces Anxiety and Alters GABAergic Transmission. <i>PLoS ONE</i> , 2016, 11, e0155799.  | 2.5  | 6         |
| 32 | 23.1 ASTROCYTIC $\beta$ 7 NICOTINIC RECEPTORS MODULATE D-SERINE AND NMDA RECEPTOR FUNCTION. <i>Schizophrenia Bulletin</i> , 2019, 45, S125-S126.  | 4.3  | 0         |