# Etienne Audinat

List of Publications by Year
in descending order

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|---|---|---|---|
| 79 papers | 8,848 citations | 57758 44 h-index | 69250 77 g-index |
| 83 all docs | 83 docs citations | 83 times ranked | 8264 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Molecular and Physiological Diversity of Cortical Nonpyramidal Cells. Journal of Neuroscience, 1997, 17, 3894-3906. | 3.6 | 636 |
| 2 | AMPA receptor subunits expressed by single purkinje cells. Neuron, 1992, 9, 247-258. | 8.1 | 568 |
| 3 | Myoblasts transplanted into rat infarcted myocardium are functionally isolated from their host. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7808-7811. | 7.1 | 466 |
| 4 | Glutamate Released from Glial Cells Synchronizes Neuronal Activity in the Hippocampus. Journal of Neuroscience, 2004, 24, 6920-6927. | 3.6 | 457 |
| 5 | Identification of sleep-promoting neurons in vitro. Nature, 2000, 404, 992-995. | 27.8 | 448 |
| 6 | Afferent connections of the medial frontal cortex of the rat. II. Cortical and subcortical afferents. Journal of Comparative Neurology, 1995, 352, 567-593. | 1.6 | 443 |
| 7 | Subunit composition at the single-cell level explains functional properties of a glutamate-gated channel. Neuron, 1994, 12, 383-388. | 8.1 | 340 |
| 8 | Deficiency of the Microglial Receptor CX3CR1 Impairs Postnatal Functional Development of Thalamocortical Synapses in the Barrel Cortex. Journal of Neuroscience, 2012, 32, 15106-15111. | 3.6 | 320 |
| 9 | Two-photon imaging of capillary blood flow in olfactory bulb glomeruli. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13081-13086. | 7.1 | 291 |
| 10 | Classification of fusiform neocortical interneurons based on unsupervised clustering. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 6144-6149. | 7.1 | 286 |
| 11 | Status Epilepticus Induces a Particular Microglial Activation State Characterized by Enhanced Purinergic Signaling. Journal of Neuroscience, 2008, 28, 9133-9144. | 3.6 | 251 |
| 12 | Selective Excitation of Subtypes of Neocortical Interneurons by Nicotinic Receptors. Journal of Neuroscience, 1999, 19, 5228-5235. | 3.6 | 237 |
| 13 | Microglia in CNS development: Shaping the brain for the future. Progress in Neurobiology, 2017, 149-150, 1-20. | 5.7 | 203 |
| 14 | Target cell-specific modulation of neuronal activity by astrocytes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10058-10063. | 7.1 | 202 |
| 15 | Excitation of rat prefrontal cortical neurons by dopamine: An in vitro electrophysiological study. Brain Research, 1987, 425, 263-274. | 2.2 | 193 |
| 16 | Tonic activation of NMDA receptors by ambient glutamate of non-synaptic origin in the rat hippocampus. Journal of Physiology, 2007, 580, 373-383. | 2.9 | 191 |
| 17 | Properties of bipolar VIPergic interneurons and their excitation by pyramidal neurons in the rat neocortex. European Journal of Neuroscience, 1998, 10, 3617-3628. | 2.6 | 145 |
| 18 | Neuronal activity differentially regulates NMDA receptor subunit expression in cerebellar granule cells. Journal of Neuroscience, 1996, 16, 631-639. | 3.6 | 138 |

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|---|---|---|---|
| 19 | Cellular locus of the nitric oxide-synthase involved in cerebellar long-term depression induced by high external potassium concentration. Neuropharmacology, 1994, 33, 1399-1405. | 4.1 | 131 |
| 20 | Afferent connections of the medial frontal cortex of the rat. A study using retrograde transport of fluorescent dyes. I. Thalamic afferents. Brain Research Bulletin, 1990, 24, 341-354. | 3.0 | 127 |
| 21 | Subunit Composition, Kinetic, and Permeation Properties of AMPA Receptors in Single Neocortical Nonpyramidal Cells. Journal of Neuroscience, 1997, 17, 6685-6696. | 3.6 | 123 |
| 22 | Two Types of Nicotinic Receptors Mediate an Excitation of Neocortical Layer I Interneurons. Journal of Neurophysiology, 2002, 88, 1318-1327. | 1.8 | 123 |
| 23 | Postsynaptic Glutamate Receptors and Integrative Properties of Fast-Spiking Interneurons in the Rat Neocortex. Journal of Neurophysiology, 1999, 82, 1295-1302. | 1.8 | 117 |
| 24 | Excitatory synaptic potentials in neurons of the deep nuclei in olivo-cerebellar slice cultures. Neuroscience, 1992, 49, 903-911. | 2.3 | 115 |
| 25 | Er81 is expressed in a subpopulation of layer 5 neurons in rodent and primate neocortices. Neuroscience, 2006, 137, 401-412. | 2.3 | 101 |
| 26 | Activity-dependent Regulation of N-Methyl-d-aspartate Receptor Subunit Expression in Rat Cerebellar Granule Cells. European Journal of Neuroscience, 1994, 6, 1792-1800. | 2.6 | 100 |
| 27 | GABA, a forgotten gliotransmitter. Progress in Neurobiology, 2008, 86, 297-303. | 5.7 | 99 |
| 28 | Involvement of P2X4 receptors in hippocampal microglial activation afterstatus epilepticus. Glia, 2013, 61, 1306-1319. | 4.9 | 96 |
| 29 | Postnatal Switch from Synaptic to Extrasynaptic Transmission between Interneurons and NG2 Cells. Journal of Neuroscience, 2010, 30, 6921-6929. | 3.6 | 94 |
| 30 | GABA release by hippocampal astrocytes. Frontiers in Computational Neuroscience, 2012, 6, 59. | 2.1 | 94 |
| 31 | Fractalkine Signaling and Microglia Functions in the Developing Brain. Neural Plasticity, 2015, 2015, 1-8. | 2.2 | 93 |
| 32 | Potent and multiple regulatory actions of microglial glucocorticoid receptors during CNS inflammation. Cell Death and Differentiation, 2013, 20, 1546-1557. | 11.2 | 88 |
| 33 | Responses to excitatory amino acids of Purkinje cells' and neurones of the deep nuclei in cerebellar slice cultures.. Journal of Physiology, 1990, 430, 297-313. | 2.9 | 84 |
| 34 | Kainate Receptors Regulate Unitary IPSCs Elicited in Pyramidal Cells by Fast-Spiking Interneurons in the Neocortex. Journal of Neuroscience, 2001, 21, 2992-2999. | 3.6 | 84 |
| 35 | Two Populations of Layer V Pyramidal Cells of the Mouse Neocortex: Development and Sensitivity to Anesthetics. Journal of Neurophysiology, 2005, 94, 3357-3367. | 1.8 | 78 |
| 36 | Central Role of GABA in Neuronâ€“Glia Interactions. Neuroscientist, 2012, 18, 237-250. | 3.5 | 78 |

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|---|---|---|---|
| 37 | Adaptive phenotype of microglial cells during the normal postnatal development of the somatosensory â€œBarrelâ€•cortex. Glia, 2013, 61, 1582-1594. | 4.9 | 76 |
| 38 | Developmental Synaptic Changes Increase the Range of Integrative Capabilities of an Identified Excitatory Neocortical Connection. Journal of Neuroscience, 1999, 19, 1566-1576. | 3.6 | 64 |
| 39 | Excitatory amino acids receptors of cerebellar purkinje cells: Development and plasticity. Progress in Biophysics and Molecular Biology, 1991, 55, 31-46. | 2.9 | 62 |
| 40 | Functional Î±7â€•containing nicotinic receptors of NG2â€•expressing cells in the hippocampus. Glia, 2009, 57, 1104-1114. | 4.9 | 61 |
| 41 | Neurotensin-induced excitation of neurons of the rat's frontal cortex studied intracellularly in vitro. Experimental Brain Research, 1989, 78, 358-68. | 1.5 | 57 |
| 42 | Blocking TNFÎ±â€•driven astrocyte purinergic signaling restores normal synaptic activity during epileptogenesis. Glia, 2018, 66, 2673-2683. | 4.9 | 55 |
| 43 | An autocrine purinergic signaling controls astrocyte-induced neuronal excitation. Scientific Reports, 2017, 7, 11280. | 3.3 | 48 |
| 44 | Postnatal Down-Regulation of the GABAA Receptor Î³2 Subunit in Neocortical NG2 Cells Accompanies Synaptic-to-Extrasynaptic Switch in the GABAergic Transmission Mode. Cerebral Cortex, 2015, 25, 1114-1123. | 2.9 | 47 |
| 45 | Predominant Functional Expression of Kv1.3 by Activated Microglia of the Hippocampus after Status epilepticus. PLoS ONE, 2009, 4, e6770. | 2.5 | 46 |
| 46 | Purinergic signaling in epilepsy. Journal of Neuroscience Research, 2016, 94, 781-793. | 2.9 | 42 |
| 47 | Biphasic Impact of Prenatal Inflammation and Macrophage Depletion on the Wiring of Neocortical Inhibitory Circuits. Cell Reports, 2019, 28, 1119-1126.e4. | 6.4 | 38 |
| 48 | Climbing Fibre Responses in Olivo-cerebellar Slice Cultures. I. Microelectrode Recordings from Purkinje Cells. European Journal of Neuroscience, 1990, 2, 726-732. | 2.6 | 37 |
| 49 | Functional and molecular analysis of glutamate-gated channels by patch-clamp and RT-PCR at the single cell level. Neurochemistry International, 1996, 28, 119-136. | 3.8 | 37 |
| 50 | A pericyteâ€•glia scarring develops at the leaky capillaries in the hippocampus during seizure activity. Epilepsia, 2019, 60, 1399-1411. | 5.1 | 37 |
| 51 | Paradoxical effects of minocycline in the developing mouse somatosensory cortex. Glia, 2014, 62, 399-410. | 4.9 | 36 |
| 52 | Evidence for two types of non-NMDA receptors in rat cerebellar purkinje cells maintained in slice cultures. Neuropharmacology, 1995, 34, 335-346. | 4.1 | 35 |
| 53 | Role of astrocyte purinergic signaling in epilepsy. Glia, 2020, 68, 1677-1691. | 4.9 | 34 |
| 54 | Distinct Local Circuits Between Neocortical Pyramidal Cells and Fast-Spiking Interneurons in Young Adult Rats. Journal of Neurophysiology, 2003, 89, 943-953. | 1.8 | 33 |

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|---|---|---|---|
| 55 | Postprandial Hyperglycemia Stimulates Neuroglial Plasticity in Hypothalamic POMC Neurons after a Balanced Meal. Cell Reports, 2020, 30, 3067-3078.e5. | 6.4 | 33 |
| 56 | Microglia proliferation plays distinct roles in acquired epilepsy depending on disease stages. Epilepsia, 2021, 62, 1931-1945. | 5.1 | 33 |
| 57 | Differential impact of dose-range glyphosate on locomotor behavior, neuronal activity, glio-cerebrovascular structures, and transcript regulations in zebrafish larvae. Chemosphere, 2021, 267, 128986. | 8.2 | 31 |
| 58 | Dietary fat exacerbates postprandial hypothalamic inflammation involving glial fibrillary acidic proteinâ€positive cells and microglia in male mice. Glia, 2021, 69, 42-60. | 4.9 | 30 |
| 59 | Single cell RT-PCR proceeds without the risk of genomic DNA amplification. Neurochemistry International, 1995, 26, 239-243. | 3.8 | 28 |
| 60 | Cortico-cortical connections of the limbic cortex of the rat. Experimental Brain Research, 1988, 69, 439-43. | 1.5 | 24 |
| 61 | Cardiac arrest in rodents: Maximal duration compatible with a recovery of neuronal activity. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 4748-4753. | 7.1 | 22 |
| 62 | The GRâ€ANXA1 pathway is a pathological player and a candidate target in epilepsy. FASEB Journal, 2019, 33, 13998-14009. | 0.5 | 19 |
| 63 | Seizure activity triggers tau hyperphosphorylation and amyloidogenic pathways. Epilepsia, 2022, 63, 919-935. | 5.1 | 19 |
| 64 | Synaptic organization of inhibitory circuits in the pigeon's optic tectum. Brain Research, 1986, 365, 383-387. | 2.2 | 18 |
| 65 | Electrophysiological properties of neurons recorded intracellularly in slices of the pigeon optic tectum. Neuroscience, 1987, 23, 305-318. | 2.3 | 16 |
| 66 | Microglia Reactivity: Heterogeneous Pathological Phenotypes. Methods in Molecular Biology, 2019, 2034, 41-55. | 0.9 | 12 |
| 67 | Homocysteic Acid as Transmitter Candidate in the Mammalian Brain and Excitatory Amino Acids in Epilepsy. Advances in Experimental Medicine and Biology, 1990, 268, 57-63. | 1.6 | 9 |
| 68 | Synaptic transmission of excitation from the retina to cells in the pigeon's optic tectum. Brain Research, 1986, 365, 138-144. | 2.2 | 8 |
| 69 | Patch-Clamp Recording and RT-PCR on Single Cells. , 1995, , 193-232. | | 8 |
| 70 | Life-long Dietary Pesticide Cocktail Induces Astrogliosis Along with Behavioral Adaptations and Activates p450 Metabolic Pathways. Neuroscience, 2020, 446, 225-237. | 2.3 | 8 |
| 71 | Varying modalities of perinatal exposure to a pesticide cocktail elicit neurological adaptations in mice and zebrafish. Environmental Pollution, 2021, 278, 116755. | 7.5 | 8 |
| 72 | Therapeutic Potential of Astrocyte Purinergic Signalling in Epilepsy and Multiple Sclerosis. Frontiers in Pharmacology, 2022, 13, 900337. | 3.5 | 8 |

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|---|---|---|---|
| 73 | Analysis of AMPA receptor subunits expressed by single Purkinje cells using RNA polymerase chain reaction. Biochemical Society Transactions, 1993, 21, 93-97. | 3.4 | 7 |
| 74 | PEGylated Red-Emitting Calcium Probe with Improved Sensing Properties for Neuroscience. ACS Sensors, 2017, 2, 1706-1712. | 7.8 | 6 |
| 75 | Diversity of glutamate receptors in neocortical neurons: Implications for synaptic plasticity. Journal of Physiology (Paris), 1996, 90, 331-332. | 2.1 | 3 |
| 76 | Electrophysiological Investigation of Microglia. Methods in Molecular Biology, 2019, 2034, 111-125. | 0.9 | 2 |
| 77 | Glial Mechanisms of Inflammation During Seizures. Agents and Actions Supplements, 2021, , 45-70. | 0.2 | 1 |
| 78 | Calcium-dependent, slowly inactivating potassium currents in cultured neurons of rat neocortex. Experimental Brain Research, 1995, 107, 197-204. | 1.5 | 0 |
| 79 | Diversity and specificity of glial cell responses in the thalamus (Commentary on Parri etÂal.). European Journal of Neuroscience, 2010, 32, 27-28. | 2.6 | 0 |