Geoffrey T Swanson

List of Publications by Year
in descending order

54 papers	3,197 citations	201674 27 h-index	197818 49 g-index
58 all docs	58 docs citations	58 times ranked	2562 citing authors

#	Article	IF	Citations
1	Kainate Receptors Are Involved in Short- and Long-Term Plasticity at Mossy Fiber Synapses in the Hippocampus. Neuron, 2001, 29, 209-216.	8.1	297
2	Kainate receptors coming of age: milestones of two decades of research. Trends in Neurosciences, 2011, 34, 154-163.	8.6	241
3	Structure, Function, and Pharmacology of Glutamate Receptor Ion Channels. Pharmacological Reviews, 2021, 73, 1469-1658.	16.0	237
4	Subunit Composition of Kainate Receptors in Hippocampal Interneurons. Neuron, 2000, 28, 475-484.	8.1	194
5	Rat GluR7 and a Carboxy-Terminal Splice Variant, GluR7b, Are Functional Kainate Receptor Subunits with a Low Sensitivity to Glutamate. Neuron, 1997, 19, 1141-1146.	8.1	175
6	Identification of the Kainate Receptor Subunits Underlying Modulation of Excitatory Synaptic Transmission in the CA3 Region of the Hippocampus. Journal of Neuroscience, 2000, 20, 8269-8278.	3.6	162
7	Psychiatric Risk Factor ANK3/Ankyrin-G Nanodomains Regulate the Structure and Function of Glutamatergic Synapses. Neuron, 2014, 84, 399-415.	8.1	159
8	Loss of Kainate Receptor-Mediated Heterosynaptic Facilitation of Mossy-Fiber Synapses in KA2^{â^'/â^'}Mice. Journal of Neuroscience, 2003, 23, 422-429.	3.6	151
9	Identification of Amino Acid Residues that Control Functional Behavior in GluR5 and GluR6 Kainate Receptors. Neuron, 1997, 19, 913-926.	8.1	116
10	Multiple Trafficking Signals Regulate Kainate Receptor KA2 Subunit Surface Expression. Journal of Neuroscience, 2003, 23, 6608-6616.	3.6	113
11	High-Affinity Kainate Receptor Subunits Are Necessary for Ionotropic but Not Metabotropic Signaling. Neuron, 2009, 63, 818-829.	8.1	101
12	Differential Activation of Individual Subunits in Heteromeric Kainate Receptors. Neuron, 2002, 34, 589-598.	8.1	85
13	Synaptic Targeting and Functional Modulation of GluK1 Kainate Receptors by the Auxiliary Neuropilin and Tolloid-Like (NETO) Proteins. Journal of Neuroscience, 2011, 31, 7334-7340.	3.6	82
14	Dancing partners at the synapse: auxiliary subunits that shape kainate receptor function. Nature Reviews Neuroscience, 2012, 13, 675-686.	10.2	81
15	Peripherally derived T regulatory and Î³Î´ T cells have opposing roles in the pathogenesis of intractable pediatric epilepsy. Journal of Experimental Medicine, 2018, 215, 1169-1186.	8.5	80
16	Full Domain Closure of the Ligand-binding Core of the Ionotropic Glutamate Receptor iGluR5 Induced by the High Affinity Agonist Dysiherbaine and the Functional Antagonist 8,9-Dideoxyneodysiherbaine. Journal of Biological Chemistry, 2009, 284, 14219-14229.	3.4	53
17	Divergent Pharmacological Activity of Novel Marine-Derived Excitatory Amino Acids on Glutamate Receptors. Journal of Pharmacology and Experimental Therapeutics, 2005, 314, 1068-1078.	2.5	52
18	Heterogeneity of homomeric GluR5 kainate receptor desensitization expressed in HEK293 cells. Journal of Physiology, 1998, 513, 639-646.	2.9	50

#	Article	IF	Citations
19	Recent progress in neuroactive marine natural products. Natural Product Reports, 2014, 31, 273.	10.3	47
20	Total Synthesis and Biological Evaluation of Neodysiherbaine A and Analogues. Journal of Organic Chemistry, 2006, 71, 5208-5220.	3.2	46
21	Targeting AMPA and kainate receptors in neurological disease: therapies on the horizon?. Neuropsychopharmacology, 2009, 34, 249-250.	5.4	42
22	Ligands for Ionotropic Glutamate Receptors. Progress in Molecular and Subcellular Biology, 2009, 46, 123-157.	1.6	38
23	A gain-of-function mutation in the <i>GRIK2</i> gene causes neurodevelopmental deficits. Neurology: Genetics, 2017, 3, e129.	1.9	38
24	Transduction of group I mGluR-mediated synaptic plasticity by Î²-arrestin2 signalling. Nature Communications, 2016, 7, 13571.	12.8	37
25	Novel Analogs and Stereoisomers of the Marine Toxin Neodysiherbaine with Specificity for Kainate Receptors. Journal of Pharmacology and Experimental Therapeutics, 2008, 324, 484-496.	2.5	33
26	Determination of Binding Site Residues Responsible for the Subunit Selectivity of Novel Marine-Derived Compounds on Kainate Receptors. Molecular Pharmacology, 2006, 69, 1849-1860.	2.3	30
27	Kainate Receptor Signaling in Pain Pathways. Molecular Pharmacology, 2013, 83, 307-315.	2.3	29
28	Antinociceptive effects of MSVIII-19, a functional antagonist of the GluK1 kainate receptor. Pain, 2011, 152, 1052-1060.	4.2	27
29	Complete Disruption of the Kainate Receptor Gene Family Results in Corticostriatal Dysfunction in Mice. Cell Reports, 2017, 18, 1848-1857.	6.4	25
30	Modulation of ionotropic glutamate receptor function by vertebrate galectins. Journal of Physiology, 2014, 592, 2079-2096.	2.9	24
31	Neto2 Assembles with Kainate Receptors in DRG Neurons during Development and Modulates Neurite Outgrowth in Adult Sensory Neurons. Journal of Neuroscience, 2017, 37, 3352-3363.	3.6	24
32	Orai1 Channels Are Essential for Amplification of Glutamate-Evoked Ca2+ Signals in Dendritic Spines to Regulate Working and Associative Memory. Cell Reports, 2020, 33, 108464.	6.4	24
33	Studies on an (<i>S</i>)-2-Amino-3-(3-hydroxy-5-methyl-4-isoxazolyl)propionic Acid (AMPA) Receptor Antagonist IKM-159: Asymmetric Synthesis, Neuroactivity, and Structural Characterization. Journal of Medicinal Chemistry, 2013, 56, 2283-2293.	6.4	23
34	Activity-dependent Golgi satellite formation in dendrites reshapes the neuronal surface glycoproteome. ELife, 2021, 10, .	6.0	23
35	Critical Roles for the M3â€“S2 Transduction Linker Domain in Kainate Receptor Assembly and Postassembly Trafficking. Journal of Neuroscience, 2007, 27, 10423-10433.	3.6	22
36	Exploring kainate receptor pharmacology using molecular dynamics simulations. Neuropharmacology, 2010, 58, 515-527.	4.1	22

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37	Isolation of novel prototype galectins from the marine ball sponge Cinachyrella sp. guided by their modulatory activity on mammalian glutamate-gated ion channels. Glycobiology, 2013, 23, 412-425.	2.5	22
38	Phosphorylation of the HCN channel auxiliary subunit TRIP8b is altered in an animal model of temporal lobe epilepsy and modulates channel function. Journal of Biological Chemistry, 2019, 294, 15743-15758.	3.4	21
39	Excitatory Synaptic Input to Hilar Mossy Cells under Basal and Hyperexcitable Conditions. ENeuro, 2017, 4, ENEURO.0364-17.2017.	1.9	21
40	Clustered mutations in the GRIK2 kainate receptor subunit gene underlie diverse neurodevelopmental disorders. American Journal of Human Genetics, 2021, 108, 1692-1709.	6.2	18
41	Selective and regulated trapping of nicotinic receptor weak base ligands and relevance to smoking cessation. ELife, 2017, 6, .	6.0	18
42	Identification of critical functional determinants of kainate receptor modulation by auxiliary protein Neto2. Journal of Physiology, 2015, 593, 4815-4833.	2.9	17
43	Cadherin-10 Maintains Excitatory/Inhibitory Ratio through Interactions with Synaptic Proteins. Journal of Neuroscience, 2017, 37, 11127-11139.	3.6	17
44	Pharmacological activity of C10-substituted analogs of the high-affinity kainate receptor agonist dysiherbaine. Neuropharmacology, 2010, 58, 640-649.	4.1	15
45	Structure of a tetrameric galectin fromCinachyrellasp. (ball sponge). Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 1163-1174.	2.5	14
46	<i>N</i>â€glycan content modulates kainate receptor functional properties. Journal of Physiology, 2017, 595, 5913-5930.	2.9	14
47	Auxiliary Proteins are the Predominant Determinants of Differential Efficacy of Clinical Candidates Acting as AMPA Receptor Positive Allosteric Modulators. Molecular Pharmacology, 2020, 97, 336-350.	2.3	13
48	The Antiseizure Drug Perampanel Is a Subunit-Selective Negative Allosteric Modulator of Kainate Receptors. Journal of Neuroscience, 2022, 42, 5499-5509.	3.6	12
49	Enhanced Synaptic Transmission in the Extended Amygdala and Altered Excitability in an Extended Amygdala to Brainstem Circuit in a Dravet Syndrome Mouse Model. ENeuro, 2021, 8, ENEURO.0306-20.2021.	1.9	10
50	Recording in the Cerebellar Slice. Current Protocols in Neuroscience, 2003, 25, Unit 6.18.	2.6	0
51	Pharmacological activity of synthetic analogs of dysiherbaine on glutamate receptors. FASEB Journal, 2006, 20, A687.	0.5	0
52	Modulation of AMPA and kainate receptors by galectins. FASEB Journal, 2012, 26, 1048.2.	0.5	0
53	mGluR1â€Î²â€arrestin 2 Signaling Mediates Induction of Excitatory Synaptic Plasticity. FASEB Journal, 2015, 29, 935.4.	0.5	0
54	Functional characterization of AMPA receptor positive allosteric modulators PF-04958242 and LY-451395. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-1-83.	0.0	0