

# István Katona

## List of Publications by Year in descending order

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64  
papers

12,564  
citations

57719

44  
h-index

110317

64  
g-index

67  
all docs

67  
docs citations

67  
times ranked

10023  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of Endogenous Cannabinoids in Synaptic Signaling. <i>Physiological Reviews</i> , 2003, 83, 1017-1066.	13.1	1,399
2	Brain monoglyceride lipase participating in endocannabinoid inactivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10819-10824.	3.3	1,206
3	Presynaptically Located CB1 Cannabinoid Receptors Regulate GABA Release from Axon Terminals of Specific Hippocampal Interneurons. <i>Journal of Neuroscience</i> , 1999, 19, 4544-4558.	1.7	1,030
4	Distribution of CB1 Cannabinoid Receptors in the Amygdala and their Role in the Control of GABAergic Transmission. <i>Journal of Neuroscience</i> , 2001, 21, 9506-9518.	1.7	580
5	Perisomatic Inhibition. <i>Neuron</i> , 2007, 56, 33-42.	3.8	573
6	Multiple Functions of Endocannabinoid Signaling in the Brain. <i>Annual Review of Neuroscience</i> , 2012, 35, 529-558.	5.0	497
7	Endocannabinoid signaling as a synaptic circuit breaker in neurological disease. <i>Nature Medicine</i> , 2008, 14, 923-930.	15.2	488
8	Cannabinoids inhibit hippocampal GABAergic transmission and network oscillations. <i>European Journal of Neuroscience</i> , 2000, 12, 3239-3249.	1.2	466
9	Hardwiring the Brain: Endocannabinoids Shape Neuronal Connectivity. <i>Science</i> , 2007, 316, 1212-1216.	6.0	463
10	Molecular Composition of the Endocannabinoid System at Glutamatergic Synapses. <i>Journal of Neuroscience</i> , 2006, 26, 5628-5637.	1.7	451
11	Microglia monitor and protect neuronal function through specialized somatic purinergic junctions. <i>Science</i> , 2020, 367, 528-537.	6.0	381
12	Subcellular Arrangement of Molecules for 2-Arachidonoyl-Glycerol-Mediated Retrograde Signaling and Its Physiological Contribution to Synaptic Modulation in the Striatum. <i>Journal of Neuroscience</i> , 2007, 27, 3663-3676.	1.7	340
13	Endocannabinoid Signaling in Rat Somatosensory Cortex: Laminar Differences and Involvement of Specific Interneuron Types. <i>Journal of Neuroscience</i> , 2005, 25, 6845-6856.	1.7	297
14	A Novel Network of Multipolar Bursting Interneurons Generates Theta Frequency Oscillations in Neocortex. <i>Neuron</i> , 2003, 38, 805-817.	3.8	288
15	<i>In Vivo</i> Labeling of Parvalbumin-Positive Interneurons and Analysis of Electrical Coupling in Identified Neurons. <i>Journal of Neuroscience</i> , 2002, 22, 7055-7064.	1.7	282
16	Uncoupling of the endocannabinoid signalling complex in a mouse model of fragile X syndrome. <i>Nature Communications</i> , 2012, 3, 1080.	5.8	234
17	GABAergic interneurons are the targets of cannabinoid actions in the human hippocampus. <i>Neuroscience</i> , 2000, 100, 797-804.	1.1	219
18	Downregulation of the CB <sub>1</sub> Cannabinoid Receptor and Related Molecular Elements of the Endocannabinoid System in Epileptic Human Hippocampus. <i>Journal of Neuroscience</i> , 2008, 28, 2976-2990.	1.7	207

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19	Cell-specific STORM super-resolution imaging reveals nanoscale organization of cannabinoid signaling. <i>Nature Neuroscience</i> , 2015, 18, 75-86.	7.1	205
20	Postsynaptic targets of somatostatin-immunoreactive interneurons in the rat hippocampus. <i>Neuroscience</i> , 1999, 88, 37-55.	1.1	198
21	Bidirectional control of airway responsiveness by endogenous cannabinoids. <i>Nature</i> , 2000, 408, 96-101.	13.7	193
22	Identification of the sites of 2-arachidonoylglycerol synthesis and action imply retrograde endocannabinoid signaling at both GABAergic and glutamatergic synapses in the ventral tegmental area. <i>Neuropharmacology</i> , 2008, 54, 95-107.	2.0	163
23	Presynaptic Protein Synthesis Is Required for Long-Term Plasticity of GABA Release. <i>Neuron</i> , 2016, 92, 479-492.	3.8	162
24	Spinal Endocannabinoids and CB <sub>1</sub> Receptors Mediate C-Fiber-Induced Heterosynaptic Pain Sensitization. <i>Science</i> , 2009, 325, 760-764.	6.0	161
25	Interneurons are the local targets of hippocampal inhibitory cells which project to the medial septum. <i>European Journal of Neuroscience</i> , 2003, 17, 1861-1872.	1.2	157
26	Multiple Forms of Endocannabinoid and Endovanilloid Signaling Regulate the Tonic Control of GABA Release. <i>Journal of Neuroscience</i> , 2015, 35, 10039-10057.	1.7	113
27	Enzymatic Machinery for Endocannabinoid Biosynthesis Associated with Calcium Stores in Glutamatergic Axon Terminals. <i>Journal of Neuroscience</i> , 2008, 28, 1058-1063.	1.7	110
28	A Molecular Basis of Analgesic Tolerance to Cannabinoids. <i>Journal of Neuroscience</i> , 2007, 27, 4165-4177.	1.7	103
29	The presence of pacemaker HCN channels identifies theta rhythmic GABAergic neurons in the medial septum. <i>Journal of Physiology</i> , 2008, 586, 3893-3915.	1.3	103
30	Unique inhibitory synapse with particularly rich endocannabinoid signaling machinery on pyramidal neurons in basal amygdaloid nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3059-3064.	3.3	100
31	Prenatal THC exposure produces a hyperdopaminergic phenotype rescued by pregnenolone. <i>Nature Neuroscience</i> , 2019, 22, 1975-1985.	7.1	93
32	Molecular architecture of endocannabinoid signaling at nociceptive synapses mediating analgesia. <i>European Journal of Neuroscience</i> , 2009, 29, 1964-1978.	1.2	80
33	Activation of Type 5 Metabotropic Glutamate Receptors and Diacylglycerol Lipase- $\alpha$ Initiates 2-Arachidonoylglycerol Formation and Endocannabinoid-Mediated Analgesia. <i>Journal of Neuroscience</i> , 2012, 32, 9457-9468.	1.7	78
34	Unusual Target Selectivity of Perisomatic Inhibitory Cells in the Hilar Region of the Rat Hippocampus. <i>Journal of Neuroscience</i> , 2000, 20, 6907-6919.	1.7	76
35	Involvement of Nitric Oxide in Depolarization-Induced Suppression of Inhibition in Hippocampal Pyramidal Cells during Activation of Cholinergic Receptors. <i>Journal of Neuroscience</i> , 2007, 27, 10211-10222.	1.7	75
36	Multiple Mechanistically Distinct Modes of Endocannabinoid Mobilization at Central Amygdala Glutamatergic Synapses. <i>Neuron</i> , 2014, 81, 1111-1125.	3.8	69

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37	Endocannabinoid-Mediated Long-Term Depression of Afferent Excitatory Synapses in Hippocampal Pyramidal Cells and GABAergic Interneurons. <i>Journal of Neuroscience</i> , 2012, 32, 14448-14463.	1.7	66
38	Correlated confocal and super-resolution imaging by VividSTORM. <i>Nature Protocols</i> , 2016, 11, 163-183.	5.5	64
39	Cannabis and Endocannabinoid Signaling in Epilepsy. <i>Handbook of Experimental Pharmacology</i> , 2015, 231, 285-316.	0.9	58
40	Hippocampal GABAergic Synapses Possess the Molecular Machinery for Retrograde Nitric Oxide Signaling. <i>Journal of Neuroscience</i> , 2007, 27, 8101-8111.	1.7	56
41	Complementary synaptic distribution of enzymes responsible for synthesis and inactivation of the endocannabinoid 2-arachidonoylglycerol in the human hippocampus. <i>Neuroscience</i> , 2011, 174, 50-63.	1.1	55
42	Acetaminophen Relieves Inflammatory Pain through CB <sub>1</sub> Cannabinoid Receptors in the Rostral Ventromedial Medulla. <i>Journal of Neuroscience</i> , 2018, 38, 322-334.	1.7	53
43	Mossy Cells of the Rat Dentate Gyrus are Immunoreactive for Calcitonin Gene-related Peptide (CGRP). <i>European Journal of Neuroscience</i> , 1997, 9, 1815-1830.	1.2	52
44	New observations in neuroscience using superresolution microscopy. <i>Journal of Neuroscience</i> , 2018, 38, 9459-9467.	1.7	50
45	Neurophysiology of space travel: energetic solar particles cause cell type-specific plasticity of neurotransmission. <i>Brain Structure and Function</i> , 2017, 222, 2345-2357.	1.2	47
46	Cellular and subcellular distribution of spinophilin, a PP1 regulatory protein that bundles F-actin in dendritic spines. <i>Journal of Comparative Neurology</i> , 2004, 479, 374-388.	0.9	44
47	Functional and structural deficits at accumbens synapses in a mouse model of Fragile X. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 100.	1.8	42
48	Endocannabinoid-dependent plasticity at spinal nociceptor synapses. <i>Journal of Physiology</i> , 2012, 590, 4717-4733.	1.3	40
49	Evidence for presynaptic cannabinoid CB1 receptor-mediated inhibition of noradrenaline release in the guinea pig lung. <i>European Journal of Pharmacology</i> , 2001, 431, 237-244.	1.7	38
50	Cholinergic innervation of mossy cells in the rat fascia dentata. <i>Hippocampus</i> , 1999, 9, 314-320.	0.9	36
51	Reciprocal inhibition of G-protein signaling is induced by CB1 cannabinoid and GABAB receptor interactions in rat hippocampal membranes. <i>Neurochemistry International</i> , 2008, 52, 1402-1409.	1.9	34
52	Heterogeneous output pathways link the anterior pretectal nucleus with the zona incerta and the thalamus in rat. <i>Journal of Comparative Neurology</i> , 2008, 506, 122-140.	0.9	27
53	Endocannabinoid Receptors: CNS Localization of the CB1 Cannabinoid Receptor. <i>Current Topics in Behavioral Neurosciences</i> , 2009, 1, 65-86.	0.8	26
54	PharmacOSTORM nanoscale pharmacology reveals cariprazine binding on Islands of Calleja granule cells. <i>Nature Communications</i> , 2021, 12, 6505.	5.8	24

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55	Detrimental impacts of mixed-ion radiation on nervous system function. <i>Neurobiology of Disease</i> , 2021, 151, 105252.	2.1	20
56	NECAB1 and NECAB2 are Prevalent Calcium-Binding Proteins of CB1/CCK-Positive GABAergic Interneurons. <i>Cerebral Cortex</i> , 2021, 31, 1786-1806.	1.6	18
57	Heterogeneous presynaptic distribution of monoacylglycerol lipase, a multipotent regulator of nociceptive circuits in the mouse spinal cord. <i>European Journal of Neuroscience</i> , 2014, 39, 419-434.	1.2	16
58	ABHD4-dependent developmental anoikis safeguards the embryonic brain. <i>Nature Communications</i> , 2020, 11, 4363.	5.8	13
59	Molecular architecture of the cannabinoid signaling system in the core of the nucleus accumbens. <i>Ideggyógyászati Szemle</i> , 2007, 60, 187-91.	0.4	12
60	P2x7 receptors control demyelination and inflammation in the cuprizone model. <i>Brain, Behavior, &amp; Immunity - Health</i> , 2020, 4, 100062.	1.3	11
61	N-cadherin (Cdh2) Maintains Migration and Postmitotic Survival of Cortical Interneuron Precursors in a Cell-Type-Specific Manner. <i>Cerebral Cortex</i> , 2020, 30, 1318-1329.	1.6	9
62	Get stoned in GABAergic synapses. <i>Nature Neuroscience</i> , 2009, 12, 1081-1083.	7.1	6
63	Adding a new piece to the perisynaptic puzzle: PLC $\beta$ 1 is a component of the perisynaptic signaling machinery (PSM) (Commentary on Fukaya <i>et al.</i> ). <i>European Journal of Neuroscience</i> , 2008, 28, 1743-1743.	1.2	1
64	A Molecular Collapse and the Mental "Falling Down". <i>Neuron</i> , 2020, 105, 956-958.	3.8	1