

Gábor D Juhász

List of Publications by Year in descending order

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119
papers

3,968
citations

109321

35
h-index

155660

55
g-index

121
all docs

121
docs citations

121
times ranked

5316
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal Framing of Thalamic Relay-Mode Firing by Phasic Inhibition during the Alpha Rhythm. <i>Neuron</i> , 2009, 63, 683-696.	8.1	281
2	Synchronized Oscillations at $\hat{\pm}$ and \hat{I} , Frequencies in the Lateral Geniculate Nucleus. <i>Neuron</i> , 2004, 42, 253-268.	8.1	268
3	Integrated Systems Biology Approach Identifies Novel Maternal and Placental Pathways of Preeclampsia. <i>Frontiers in Immunology</i> , 2018, 9, 1661.	4.8	146
4	Local apoptotic-like mechanisms underlie complement-mediated synaptic pruning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6303-6308.	7.1	133
5	Estrogen Induces Estrogen Receptor $\hat{\pm}$ -Dependent cAMP Response Element-Binding Protein Phosphorylation via Mitogen Activated Protein Kinase Pathway in Basal Forebrain Cholinergic Neurons<i>In Vivo</i>. <i>Journal of Neuroscience</i> , 2006, 26, 4104-4110.	3.6	113
6	Cleavage of Kininogen and Subsequent Bradykinin Release by the Complement Component: Mannose-Binding Lectin-Associated Serine Protease (MASP)-1. <i>PLoS ONE</i> , 2011, 6, e20036.	2.5	104
7	Comparative in Vitro Studies on Native and Recombinant Human Cationic Trypsins. <i>Journal of Biological Chemistry</i> , 2001, 276, 24574-24580.	3.4	83
8	Exogenous Ketone Supplements Reduce Anxiety-Related Behavior in Sprague-Dawley and Wistar Albino Glaxo/Rijswijk Rats. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 137.	2.9	74
9	Uridine Function in the Central Nervous System. <i>Current Topics in Medicinal Chemistry</i> , 2011, 11, 1058-1067.	2.1	72
10	Extracellular Level of GABA and Glu: In Vivo Microdialysis-HPLC Measurements. <i>Current Topics in Medicinal Chemistry</i> , 2006, 6, 935-940.	2.1	71
11	Firing properties of cat basal forebrain neurones during sleep-wakefulness cycle. <i>Electroencephalography and Clinical Neurophysiology</i> , 1984, 58, 362-368.	0.3	66
12	A mouse model of anxiety molecularly characterized by altered protein networks in the brain proteome. <i>European Neuropsychopharmacology</i> , 2010, 20, 96-111.	0.7	66
13	Thalamic gap junctions control local neuronal synchrony and influence macroscopic oscillation amplitude during EEG alpha rhythms. <i>Frontiers in Psychology</i> , 2011, 2, 193.	2.1	66
14	Facilitation of spike-wave discharge activity by lipopolysaccharides in Wistar Albino Glaxo/Rijswijk rats. <i>Neuroscience</i> , 2006, 140, 731-742.	2.3	63
15	Redistribution of CB1 Cannabinoid Receptors in the Acute and Chronic Phases of Pilocarpine-Induced Epilepsy. <i>PLoS ONE</i> , 2011, 6, e27196.	2.5	59
16	Altered Functional Protein Networks in the Prefrontal Cortex and Amygdala of Victims of Suicide. <i>PLoS ONE</i> , 2012, 7, e50532.	2.5	59
17	Synaptic mitochondria: A brain mitochondria cluster with a specific proteome. <i>Journal of Proteomics</i> , 2015, 120, 142-157.	2.4	59
18	Intracerebroventricularly administered lipopolysaccharide enhances spikeâ€“wave discharges in freely moving WAG/Rij rats. <i>Brain Research Bulletin</i> , 2011, 85, 410-416.	3.0	58

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19	Early Presymptomatic Changes in the Proteome of Mitochondria-Associated Membrane in the APP/PS1 Mouse Model of Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2018, 55, 7839-7857.	4.0	55
20	Matrix metalloproteinase-9 activity increased by two different types of epileptic seizures that do not induce neuronal death: A possible role in homeostatic synaptic plasticity. <i>Neurochemistry International</i> , 2010, 56, 799-809.	3.8	54
21	Dysfunction of Endoplasmic Reticulum (ER) and Mitochondria (MT) in Alzheimer's Disease: The Role of the ER-MT Cross-Talk. <i>Current Alzheimer Research</i> , 2015, 12, 655-672.	1.4	53
22	Analysis of purine and pyrimidine bases, nucleosides and deoxynucleosides in brain microsomes (microdialysates and micropunches) and cerebrospinal fluid. <i>Neurochemistry International</i> , 1998, 32, 247-256.	3.8	50
23	Corticosterone Peak is Responsible for Stress-Induced Elevation of Glutamate in the Hippocampus. <i>Stress</i> , 1998, 2, 171-181.	1.8	48
24	Lipopolysaccharide induced increase in seizure activity in two animal models of absence epilepsy WAG/Rij and GAERS rats and Long Evans rats. <i>Brain Research Bulletin</i> , 2014, 104, 7-18.	3.0	48
25	Effect of intrahippocampal dexamethasone on the levels of amino acid transmitters and neuronal excitability. <i>Brain Research</i> , 1996, 733, 56-63.	2.2	46
26	Neuronal firing in the pallidal region: firing patterns during sleep-wakefulness cycle in cats. <i>Electroencephalography and Clinical Neurophysiology</i> , 1987, 67, 159-166.	0.3	44
27	Sustained depolarisation induces changes in the extracellular concentrations of purine and pyrimidine nucleosides in the rat thalamus. <i>Neurochemistry International</i> , 2000, 37, 71-79.	3.8	43
28	Uridine release during aminopyridine-induced epilepsy. <i>Neurobiology of Disease</i> , 2004, 16, 490-499.	4.4	43
29	Bimoclolmol improves early electrophysiological signs of retinopathy in diabetic rats. <i>NeuroReport</i> , 1998, 9, 2029-2033.	1.2	42
30	Blockade of thalamic GABAB receptors decreases EEG synchronization. <i>Neuroscience Letters</i> , 1994, 172, 155-158.	2.1	41
31	Myelin basic protein, an autoantigen in multiple sclerosis, is selectively processed by human trypsin 4. <i>FEBS Letters</i> , 2006, 580, 545-552.	2.8	39
32	Area, Age and Gender Dependence of the Nucleoside System in the Brain: a Review of Current Literature. <i>Current Topics in Medicinal Chemistry</i> , 2011, 11, 1012-1033.	2.1	39
33	Synaptic mitochondrial dysfunction and septin accumulation are linked to complement-mediated synapse loss in an Alzheimer's disease animal model. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 5243-5258.	5.4	39
34	Receptors of Peptides as Therapeutic Targets in Epilepsy Research. <i>Current Medicinal Chemistry</i> , 2014, 21, 764-787.	2.4	39
35	Novel modes of rhythmic burst firing at cognitively-relevant frequencies in thalamocortical neurons. <i>Brain Research</i> , 2008, 1235, 12-20.	2.2	38
36	Sleep-promoting action of excitatory amino acid antagonists: A different role for thalamic NMDA and non-NMDA receptors. <i>Neuroscience Letters</i> , 1990, 114, 333-338.	2.1	36

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37	Sleep induced by intestinal stimulation in cats. <i>Physiology and Behavior</i> , 1977, 19, 355-358.	2.1	35
38	A novel effect of MPTP: the selective suppression of paradoxical sleep in cats. <i>Brain Research</i> , 1990, 525, 310-314.	2.2	34
39	Synaptic cell adhesion molecule ² and collapsin response mediator protein ² are novel members of the matrix metalloproteinase ⁹ degradome. <i>Journal of Neurochemistry</i> , 2012, 122, 775-788.	3.9	34
40	The mode of death of epilepsy-induced "dark" neurons is neither necrosis nor apoptosis: An electron-microscopic study. <i>Brain Research</i> , 2008, 1239, 207-215.	2.2	32
41	Absence epileptic activity changing effects of non-adenosine nucleoside inosine, guanosine and uridine in Wistar Albino Glaxo Rijswijk rats. <i>Neuroscience</i> , 2015, 300, 593-608.	2.3	31
42	Uridine activates fast transmembrane Ca ²⁺ ion fluxes in rat brain homogenates. <i>NeuroReport</i> , 1999, 10, 1577-1582.	1.2	30
43	Electrochemical calibration of in vivo brain dialysis samplers. <i>Journal of Neuroscience Methods</i> , 1989, 29, 131-137.	2.5	29
44	Nucleoside Map of the Human Central Nervous System. <i>Neurochemical Research</i> , 2010, 35, 452-464.	3.3	29
45	The Antiepileptic Potential of Nucleosides. <i>Current Medicinal Chemistry</i> , 2014, 21, 788-821.	2.4	29
46	The electroretinogram and visual evoked potential of freely moving rats. <i>Brain Research Bulletin</i> , 2001, 56, 7-14.	3.0	28
47	Slow wave sleep is accompanied by release of certain amino acids in the thalamus of cats. <i>NeuroReport</i> , 1997, 8, 1183-1186.	1.2	27
48	The effect of intraperitoneally administered dimethyl sulfoxide on absence-like epileptic activity of freely moving WAG/Rij rats. <i>Journal of Neuroscience Methods</i> , 2011, 197, 133-136.	2.5	27
49	Differential effects of nipecotic acid and 4,5,6,7-tetrahydroisoxazolo[4,5-c]pyridin-3-ol on extracellular ¹³ C-aminobutyrate levels in rat thalamus. <i>European Journal of Pharmacology</i> , 1997, 331, 139-144.	3.5	26
50	GABAB receptor antagonist CGP-36742 enhances somatostatin release in the rat hippocampus in vivo and in vitro. <i>European Journal of Pharmacology</i> , 2003, 478, 111-119.	3.5	26
51	5'-Nucleotidases, Nucleosides and their Distribution in the Brain: Pathological and Therapeutic Implications. <i>Current Medicinal Chemistry</i> , 2013, 20, 4217-4240.	2.4	26
52	Electroencephalographic synchronization induced by stimulation of small intestine and splanchnic nerve in cats. <i>Electroencephalography and Clinical Neurophysiology</i> , 1976, 41, 491-500.	0.3	25
53	Proteomic comparison of different synaptosome preparation procedures. <i>Amino Acids</i> , 2020, 52, 1529-1543.	2.7	25
54	Systems biology of Alzheimer's disease: How diverse molecular changes result in memory impairment in AD. <i>Neurochemistry International</i> , 2011, 58, 739-750.	3.8	24

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55	Local perfusion of the thalamus with GABA increases sleep and induces long-lasting inhibition of somatosensory event-related potentials in cats. <i>Neuroscience Letters</i> , 1989, 103, 229-233.	2.1	23
56	Sex Differences in Oestrogen-Induced p44/42 MAPK Phosphorylation in the Mouse Brain In Vivo. <i>Journal of Neuroendocrinology</i> , 2006, 18, 621-628.	2.6	23
57	In vivo measurements with a potassium ion-selective microelectrode based on a new bis(crown ether). <i>Analytica Chimica Acta</i> , 1985, 178, 231-237.	5.4	22
58	Natural sleep modifies the rat electroretinogram.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 5153-5157.	7.1	22
59	Generalization of seizures parallels the formation of "dark" neurons in the hippocampus and pontine reticular formation after focal cortical application of 4-aminopyridine (4-AP) in the rat. <i>Brain Research</i> , 2008, 1228, 217-228.	2.2	22
60	Reduction of the extracellular level of glutamate in the median raphe nucleus associated with hippocampal theta activity in the anaesthetized rat. <i>Neuroscience</i> , 1998, 84, 49-57.	2.3	21
61	Non-adenosine Nucleoside Inosine, Guanosine and Uridine as Promising Antiepileptic Drugs: a Summary of Current Literature. <i>Mini-Reviews in Medicinal Chemistry</i> , 2015, 14, 1033-1042.	2.4	21
62	Proteomic investigation of the prefrontal cortex in the rat clomipramine model of depression. <i>Journal of Proteomics</i> , 2017, 153, 53-64.	2.4	21
63	Identification of Neuronal Pentraxins as Synaptic Binding Partners of C1q and the Involvement of NP1 in Synaptic Pruning in Adult Mice. <i>Frontiers in Immunology</i> , 2020, 11, 599771.	4.8	21
64	Uridine is released by depolarization and inhibits unit activity in the rat hippocampus. <i>NeuroReport</i> , 1999, 10, 3049-3053.	1.2	20
65	Different electrophysiological actions of 24- and 72-hour aggregated amyloid-beta oligomers on hippocampal field population spike in both anesthetized and awake rats. <i>Brain Research</i> , 2010, 1354, 227-235.	2.2	20
66	Effects of Estrogen on Beta-Amyloid-Induced Cholinergic Cell Death in the Nucleus Basalis Magnocellularis. <i>Neuroendocrinology</i> , 2011, 93, 90-105.	2.5	20
67	Brain protein expression changes in WAG/Rij rats, a genetic rat model of absence epilepsy after peripheral lipopolysaccharide treatment. <i>Brain, Behavior, and Immunity</i> , 2014, 35, 86-95.	4.1	20
68	Effects of hypnogenic vagal stimulation on thalamic neuronal activity in cats. <i>Brain Research Bulletin</i> , 1985, 15, 437-441.	3.0	19
69	In vivo blockade of thalamic GABAB receptors increases excitatory amino-acid levels. <i>European Journal of Pharmacology</i> , 1996, 318, 295-300.	3.5	19
70	Sleep modifies retinal ganglion cell responses in the normal rat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 2083-2088.	7.1	19
71	Post mortem degradation of nucleosides in the brain: Comparison of human and rat brains for estimation of in vivo concentration of nucleosides. <i>Journal of Neuroscience Methods</i> , 2005, 148, 88-93.	2.5	19
72	Gender- and age-dependent changes in nucleoside levels in the cerebral cortex and white matter of the human brain. <i>Brain Research Bulletin</i> , 2010, 81, 579-584.	3.0	19

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73	Propagation of spike and wave activity to the medial prefrontal cortex and dorsal raphe nucleus of WAG/Rij rats. <i>Physiology and Behavior</i> , 2007, 90, 318-324.	2.1	18
74	Alterations in hippocampal and cortical densities of functionally different interneurons in rat models of absence epilepsy. <i>Epilepsy Research</i> , 2018, 145, 40-50.	1.6	18
75	Widespread alterations in the synaptic proteome of the adolescent cerebral cortex following prenatal immune activation in rats. <i>Brain, Behavior, and Immunity</i> , 2016, 56, 289-309.	4.1	17
76	A silicon-based microelectrode array with a microdrive for monitoring brainstem regions of freely moving rats. <i>Journal of Neural Engineering</i> , 2016, 13, 026025.	3.5	17
77	Mitochondrial Proteome Changes Correlating with β -Amyloid Accumulation. <i>Molecular Neurobiology</i> , 2017, 54, 2060-2078.	4.0	17
78	Concentration of Nucleosides and Related Compounds in Cerebral and Cerebellar Cortical Areas and White Matter of the Human Brain. <i>Cellular and Molecular Neurobiology</i> , 2006, 26, 831-842.	3.3	16
79	Effect of CGP 36742 on the extracellular level of neurotransmitter amino acids in the thalamus. <i>Neurochemistry International</i> , 1999, 34, 391-398.	3.8	15
80	Uridine modulates neuronal activity and inhibits spike-wave discharges of absence epileptic Long Evans and Wistar Albino Glaxo/Rijswijk rats. <i>Brain Research Bulletin</i> , 2013, 97, 16-23.	3.0	15
81	Sleep promoting effect of a putative glial β -aminobutyric acid uptake blocker applied in the thalamus of cats. <i>European Journal of Pharmacology</i> , 1991, 209, 131-133.	3.5	14
82	Retino-cortical stimulus frequency-dependent gamma coupling: evidence and functional implications of oscillatory potentials. <i>Physiological Reports</i> , 2016, 4, e12986.	1.7	14
83	Neonatal tricyclic antidepressant clomipramine treatment reduces the spike-wave discharge activity of the adult WAG/Rij rat. <i>Brain Research Bulletin</i> , 2012, 89, 102-107.	3.0	13
84	In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths. <i>IEEE Sensors Journal</i> , 2013, 13, 3263-3269.	4.7	13
85	Brainstem stimulation augments information integration in the cerebral cortex of desflurane-anesthetized rats. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 8.	2.1	13
86	The short- and long-term proteomic effects of sleep deprivation on the cortical and thalamic synapses. <i>Molecular and Cellular Neurosciences</i> , 2017, 79, 64-80.	2.2	13
87	Functional Consequences of Retinopetal Fibers Originating in the Dorsal Raphe Nucleus. <i>International Journal of Neuroscience</i> , 2008, 118, 1374-1383.	1.6	12
88	Temporal distribution of the ganglion cell volleys in the normal rat optic nerve. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 13454-13459.	7.1	11
89	Neurotoxicity of lindane and picrotoxin: neurochemical and electrophysiological correlates in the rat hippocampus in vivo. <i>Neurochemical Research</i> , 2002, 27, 139-145.	3.3	11
90	Guanosine may increase absence epileptic activity by means of A2A adenosine receptors in Wistar Albino Glaxo Rijswijk rats. <i>Brain Research Bulletin</i> , 2016, 124, 172-181.	3.0	11

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91	Maternal alterations in the proteome of the medial prefrontal cortex in rat. <i>Journal of Proteomics</i> , 2017, 153, 65-77.	2.4	10
92	Synaptic proteome changes in the hypothalamus of mother rats. <i>Journal of Proteomics</i> , 2017, 159, 54-66.	2.4	10
93	Glucocorticoids alter recovery processes in the rat retina. <i>NeuroReport</i> , 1998, 9, 1465-1468.	1.2	9
94	Visible light induces matrix metalloproteinase-9 expression in rat eye. <i>Journal of Neurochemistry</i> , 2007, 103, 2224-2233.	3.9	9
95	Estrogen regulates cytoskeletal flexibility, cellular metabolism and synaptic proteins: A proteomic study. <i>Psychoneuroendocrinology</i> , 2010, 35, 807-819.	2.7	9
96	The Effect of Sleep Deprivation and Subsequent Recovery Period on the Synaptic Proteome of Rat Cerebral Cortex. <i>Molecular Neurobiology</i> , 2022, 59, 1301.	4.0	9
97	Paradoxical sleep deprivatory effect of a single low dose of MPTP which did not produce dopaminergic cell loss. <i>Experimental Brain Research</i> , 1993, 95, 473-6.	1.5	8
98	The contribution of glial cells to spontaneous and evoked potentials. <i>International Journal of Psychophysiology</i> , 1997, 26, 229-236.	1.0	8
99	Modulation by GABAB and delta opioid receptors of neurally induced responses in isolated guinea-pig taenia coli and human colonic circular muscle. <i>Journal of Physiology (Paris)</i> , 2000, 94, 135-138.	2.1	8
100	Effects of Mitochondrial Toxins on the Brain Amino Acid Concentrations. <i>Neurochemical Research</i> , 2005, 30, 1421-1427.	3.3	8
101	Preconditioning-specific reduction of c-fos expression in hippocampal granule and pyramidal but not other forebrain neurons of ischemic brain: a quantitative immunohistochemical study. <i>Neuroscience Letters</i> , 2005, 381, 344-349.	2.1	8
102	The human Retinal Functional Unit. <i>International Journal of Psychophysiology</i> , 2005, 57, 187-194.	1.0	8
103	Modulatory effects of inosine, guanosine and uridine on lipopolysaccharide-evoked increase in spike-wave discharge activity in Wistar Albino Glaxo/Rijswijk rats. <i>Brain Research Bulletin</i> , 2015, 118, 46-57.	3.0	8
104	Chronic stepwise cerebral hypoperfusion differentially induces synaptic proteome changes in the frontal cortex, occipital cortex, and hippocampus in rats. <i>Scientific Reports</i> , 2020, 10, 15999.	3.3	8
105	Clomipramine increases the incidence and duration of spike-wave discharges in freely moving WAG/Rij rats. <i>Epilepsy Research</i> , 2010, 90, 167-170.	1.6	7
106	Functional changes in transcriptomes of the prefrontal cortex and hippocampus in a mouse model of anxiety. <i>Pharmacological Reports</i> , 2011, 63, 348-361.	3.3	7
107	Doxycycline could aggravate the absence-like epileptic seizures of WAG/Rij rats via matrix metalloproteinase inhibition. <i>Neurochemistry International</i> , 2011, 59, 563-566.	3.8	7
108	Local depletion of monoamines induced with in vivo voltammetry in the cat brain. <i>Neuroscience</i> , 1991, 41, 287-293.	2.3	6

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109	Suppression of spike-wave discharge activity and c-fos expression by 2-methyl-4-oxo-3H-quinazoline-3-acetyl piperidine (Q5) in vivo. <i>Neuroscience Letters</i> , 2007, 423, 73-77.	2.1	6
110	Cell Surface Protein mRNAs Show Differential Transcription in Pyramidal and Fast-Spiking Cells as Revealed by Single-Cell Sequencing. <i>Cerebral Cortex</i> , 2021, 31, 731-745.	2.9	5
111	Spectral components of cytosolic [Ca ²⁺] spiking in neurons. <i>NeuroReport</i> , 1998, 9, 721-724.	1.2	4
112	Status epilepticus affects the gigantocellular network of the pontine reticular formation. <i>BMC Neuroscience</i> , 2009, 10, 133.	1.9	4
113	Proteomic identification of Placental Protein 1 (PP1), PP8, and PP22 and characterization of their placental expression in healthy pregnancies and in preeclampsia. <i>Placenta</i> , 2020, 99, 197-207.	1.5	3
114	Effects of Nucleosides on Glia - Neuron Interactions Open up New Vistas in the Development of More Effective Antiepileptic Drugs. <i>Current Medicinal Chemistry</i> , 2015, 22, 1500-1514.	2.4	3
115	An in vivo eyecup preparation for the rat. <i>Journal of Neuroscience Methods</i> , 2001, 105, 167-174.	2.5	2
116	Effect of intrahippocampal dexamethasone on the levels of amino acid transmitters and neuronal excitability. <i>Brain Research</i> , 1996, 733, 56-63.	2.2	2
117	Deep-brain silicon multielectrodes with surface-modified Pt recording sites. , 2012, , .		1
118	The Single-Cell Transcriptomic Analysis of Prefrontal Pyramidal Cells and Interneurons Reveals the Neuronal Expression of Genes Encoding Antimicrobial Peptides and Immune Proteins. <i>Frontiers in Immunology</i> , 2021, 12, 749433.	4.8	1
119	The prefrontal cortex in depression: Use of proteomics. , 2021, , 255-264.		0