

Pierre Julius Magistretti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5591741/publications.pdf>

Version: 2024-02-01

372
papers

39,610
citations

3731

89
h-index

3182

186
g-index

399
all docs

399
docs citations

399
times ranked

32012
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutamate uptake into astrocytes stimulates aerobic glycolysis: a mechanism coupling neuronal activity to glucose utilization.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 10625-10629.	7.1	2,402
2	Brain Energy Metabolism: Focus on Astrocyte-Neuron Metabolic Cooperation. Cell Metabolism, 2011, 14, 724-738.	16.2	1,727
3	Oligodendroglia metabolically support axons and contribute to neurodegeneration. Nature, 2012, 487, 443-448.	27.8	1,287
4	Astrocyte-Neuron Lactate Transport Is Required for Long-Term Memory Formation. Cell, 2011, 144, 810-823.	28.9	1,285
5	Digital holographic microscopy: a noninvasive contrast imaging technique allowing quantitative visualization of living cells with subwavelength axial accuracy. Optics Letters, 2005, 30, 468.	3.3	1,209
6	Reactive astrocyte nomenclature, definitions, and future directions. Nature Neuroscience, 2021, 24, 312-325.	14.8	1,098
7	Energy on Demand. Science, 1999, 283, 496-497.	12.6	1,090
8	In vivo genome editing via CRISPR/Cas9 mediated homology-independent targeted integration. Nature, 2016, 540, 144-149.	27.8	906
9	A Cellular Perspective on Brain Energy Metabolism and Functional Imaging. Neuron, 2015, 86, 883-901.	8.1	871
10	Lactate in the brain: from metabolic end-product to signalling molecule. Nature Reviews Neuroscience, 2018, 19, 235-249.	10.2	724
11	Activity-dependent regulation of energy metabolism by astrocytes: An update. Glia, 2007, 55, 1251-1262.	4.9	696
12	Cellular mechanisms of brain energy metabolism and their relevance to functional brain imaging. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 1155-1163.	4.0	644
13	Measurement of the integral refractive index and dynamic cell morphometry of living cells with digital holographic microscopy. Optics Express, 2005, 13, 9361.	3.4	641
14	Genome-wide association study identifies eight risk loci and implicates metabo-psychiatric origins for anorexia nervosa. Nature Genetics, 2019, 51, 1207-1214.	21.4	641
15	Evidence Supporting the Existence of an Activity-Dependent Astrocyte-Neuron Lactate Shuttle. Developmental Neuroscience, 1998, 20, 291-299.	2.0	610
16	Neuron-glia metabolic coupling and plasticity. Journal of Experimental Biology, 2006, 209, 2304-2311.	1.7	589
17	Sweet Sixteen for ANLS. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1152-1166.	4.3	580
18	Astrocyte-neuron metabolic relationships: for better and for worse. Trends in Neurosciences, 2011, 34, 76-87.	8.6	542

#	ARTICLE	IF	CITATIONS
19	Marker-free phase nanoscopy. <i>Nature Photonics</i> , 2013, 7, 113-117.	31.4	527
20	Aquaporins in Brain: Distribution, Physiology, and Pathophysiology. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 367-378.	4.3	512
21	In Vivo Evidence for a Lactate Gradient from Astrocytes to Neurons. <i>Cell Metabolism</i> , 2016, 23, 94-102.	16.2	437
22	Significant Locus and Metabolic Genetic Correlations Revealed in Genome-Wide Association Study of Anorexia Nervosa. <i>American Journal of Psychiatry</i> , 2017, 174, 850-858.	7.2	410
23	Methylglyoxal, the dark side of glycolysis. <i>Frontiers in Neuroscience</i> , 2015, 9, 23.	2.8	381
24	Lactate promotes plasticity gene expression by potentiating NMDA signaling in neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12228-12233.	7.1	364
25	In Vivo Evidence for Lactate as a Neuronal Energy Source. <i>Journal of Neuroscience</i> , 2011, 31, 7477-7485.	3.6	353
26	Selective Distribution of Lactate Dehydrogenase Isoenzymes in Neurons and Astrocytes of Human Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 1079-1089.	4.3	351
27	Comparison of Lactate Transport in Astroglial Cells and Monocarboxylate Transporter 1 (MCT 1) Expressing <i>Xenopus laevis</i> Oocytes. <i>Journal of Biological Chemistry</i> , 1997, 272, 30096-30102.	3.4	320
28	The role of astroglia in neuroprotection. <i>Dialogues in Clinical Neuroscience</i> , 2009, 11, 281-295.	3.7	311
29	Lactate is a Preferential Oxidative Energy Substrate over Glucose for Neurons in Culture. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 1298-1306.	4.3	274
30	Expression of monocarboxylate transporter mRNAs in mouse brain: Support for a distinct role of lactate as an energy substrate for the neonatal vs. adult brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 3990-3995.	7.1	264
31	Glial Glutamate Transporters Mediate a Functional Metabolic Crosstalk between Neurons and Astrocytes in the Mouse Developing Cortex. <i>Neuron</i> , 2003, 37, 275-286.	8.1	259
32	Characterization of the glycogenolysis elicited by vasoactive intestinal peptide, noradrenaline and adenosine in primary cultures of mouse cerebral cortical astrocytes. <i>Brain Research</i> , 1991, 563, 227-233.	2.2	252
33	Amyloid- β^2 Aggregates Cause Alterations of Astrocytic Metabolic Phenotype: Impact on Neuronal Viability. <i>Journal of Neuroscience</i> , 2010, 30, 3326-3338.	3.6	252
34	Neuroenergetics: Calling Upon Astrocytes to Satisfy Hungry Neurons. <i>Neuroscientist</i> , 2004, 10, 53-62.	3.5	230
35	Immunohistochemical distribution of pro-somatostatin-related peptides in cerebral cortex. <i>Brain Research</i> , 1983, 262, 344-351.	2.2	216
36	Cell-specific localization of monocarboxylate transporters, MCT1 and MCT2, in the adult mouse brain revealed by double immunohistochemical labeling and confocal microscopy. <i>Neuroscience</i> , 2000, 100, 617-627.	2.3	207

#	ARTICLE	IF	CITATIONS
37	Evidence for a Susceptibility Gene for Anorexia Nervosa on Chromosome 1. <i>American Journal of Human Genetics</i> , 2002, 70, 787-792.	6.2	199
38	Neuroprotective Role of Lactate after Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 1780-1789.	4.3	197
39	Peripuberty stress leads to abnormal aggression, altered amygdala and orbitofrontal reactivity and increased prefrontal MAOA gene expression. <i>Translational Psychiatry</i> , 2013, 3, e216-e216.	4.8	196
40	Glutamate Uptake Stimulates Na ⁺ ,K ⁺ -ATPase Activity in Astrocytes via Activation of a Distinct Subunit Highly Sensitive to Ouabain. <i>Journal of Neurochemistry</i> , 1997, 69, 2132-2137.	3.9	190
41	Neurotransmitters Regulate Energy Metabolism in Astrocytes: Implications for the Metabolic Trafficking between Neural Cells. <i>Developmental Neuroscience</i> , 1993, 15, 306-312.	2.0	185
42	Noninvasive characterization of the fission yeast cell cycle by monitoring dry mass with digital holographic microscopy. <i>Journal of Biomedical Optics</i> , 2009, 14, 034049.	2.6	181
43	The distribution and morphological characteristics of the intracortical VIP-positive cell: An immunohistochemical analysis. <i>Brain Research</i> , 1984, 292, 269-282.	2.2	179
44	Simultaneous cell morphometry and refractive index measurement with dual-wavelength digital holographic microscopy and dye-enhanced dispersion of perfusion medium. <i>Optics Letters</i> , 2008, 33, 744.	3.3	179
45	VIP and noradrenaline act synergistically to increase cyclic AMP in cerebral cortex. <i>Nature</i> , 1984, 308, 280-282.	27.8	178
46	Lactate and pyruvate promote oxidative stress resistance through hormetic ROS signaling. <i>Cell Death and Disease</i> , 2019, 10, 653.	6.3	177
47	Fluoxetine regulates the expression of neurotrophic/growth factors and glucose metabolism in astrocytes. <i>Psychopharmacology</i> , 2011, 216, 75-84.	3.1	176
48	Astrocyte-Specific Expression of Aquaporin-9 in Mouse Brain is Increased after Transient Focal Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 477-482.	4.3	174
49	Early Cell Death Detection with Digital Holographic Microscopy. <i>PLoS ONE</i> , 2012, 7, e30912.	2.5	174
50	MCT2 is a Major Neuronal Monocarboxylate Transporter in the Adult Mouse Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 586-595.	4.3	171
51	Comparative study of human erythrocytes by digital holographic microscopy, confocal microscopy, and impedance volume analyzer. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 895-903.	1.5	171
52	Food for Thought: Challenging the Dogmas. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 1282-1286.	4.3	169
53	Brain lactate kinetics: Modeling evidence for neuronal lactate uptake upon activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16448-16453.	7.1	169
54	TORC1 is a calcium- and cAMP-sensitive coincidence detector involved in hippocampal long-term synaptic plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4700-4705.	7.1	168

#	ARTICLE	IF	CITATIONS
55	A β 242 Neurotoxicity Is Mediated by Ongoing Nucleated Polymerization Process Rather than by Discrete A β 242 Species. <i>Journal of Biological Chemistry</i> , 2011, 286, 8585-8596.	3.4	168
56	GABA uptake into astrocytes is not associated with significant metabolic cost: Implications for brain imaging of inhibitory transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12456-12461.	7.1	165
57	Immunohistochemical distribution of pro-somatostatin-related peptides in hippocampus. <i>Neuroscience Letters</i> , 1982, 34, 137-142.	2.1	164
58	Pro-inflammatory cytokines induce the transcription factors C/EBP β and C/EBP δ in astrocytes. <i>Glia</i> , 2000, 29, 91-97.	4.9	164
59	Astrocytes generate Na ⁺ -mediated metabolic waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14937-14942.	7.1	164
60	Role of glutamate in neuron-glia metabolic coupling. <i>American Journal of Clinical Nutrition</i> , 2009, 90, 875S-880S.	4.7	164
61	Channel-Mediated Lactate Release by K ⁺ -Stimulated Astrocytes. <i>Journal of Neuroscience</i> , 2015, 35, 4168-4178.	3.6	163
62	Cerebral metabolic effects of exogenous lactate supplementation on the injured human brain. <i>Intensive Care Medicine</i> , 2014, 40, 412-421.	8.2	151
63	Astrocytic β -adrenergic receptors mediate hippocampal long-term memory consolidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8526-8531.	7.1	151
64	Cellular bases of functional brain imaging: insights from neuron-glia metabolic coupling ¹¹ Published on the World Wide Web on 12 October 2000.. <i>Brain Research</i> , 2000, 886, 108-112.	2.2	146
65	Distribution of Aquaporin 9 in the adult rat brain: Preferential expression in catecholaminergic neurons and in glial cells. <i>Neuroscience</i> , 2004, 128, 27-38.	2.3	140
66	Review of quantitative phase-digital holographic microscopy: promising novel imaging technique to resolve neuronal network activity and identify cellular biomarkers of psychiatric disorders. <i>Neurophotonics</i> , 2014, 1, 020901.	3.3	139
67	Functional receptors for vasoactive intestinal polypeptide in cultured astroglia from neonatal rat brain. <i>Regulatory Peptides</i> , 1983, 6, 71-80.	1.9	138
68	Brain Lactate Metabolism in Humans With Subarachnoid Hemorrhage. <i>Stroke</i> , 2012, 43, 1418-1421.	2.0	130
69	A quantitative analysis of glutamate-regulated Na ⁺ dynamics in mouse cortical astrocytes: implications for cellular bioenergetics. <i>European Journal of Neuroscience</i> , 2000, 12, 3843-3853.	2.6	129
70	Cell-specific expression pattern of monocarboxylate transporters in astrocytes and neurons observed in different mouse brain cortical cell cultures. <i>Journal of Neuroscience Research</i> , 2003, 73, 141-155.	2.9	124
71	CCAAT/Enhancer-binding Protein Family Members Recruit the Coactivator CREB-binding Protein and Trigger Its Phosphorylation. <i>Journal of Biological Chemistry</i> , 2003, 278, 36959-36965.	3.4	122
72	Modulation of astrocytic metabolic phenotype by proinflammatory cytokines. <i>Glia</i> , 2008, 56, 975-989.	4.9	116

#	ARTICLE	IF	CITATIONS
73	Astrocytes Couple Synaptic Activity to Glucose Utilization in the Brain. <i>Physiology</i> , 1999, 14, 177-182.	3.1	114
74	Dissecting the Shared Genetic Architecture of Suicide Attempt, Psychiatric Disorders, and Known Risk Factors. <i>Biological Psychiatry</i> , 2022, 91, 313-327.	1.3	114
75	Determination of Transmembrane Water Fluxes in Neurons Elicited by Glutamate Ionotropic Receptors and by the Cotransporters KCC2 and NKCC1: A Digital Holographic Microscopy Study. <i>Journal of Neuroscience</i> , 2011, 31, 11846-11854.	3.6	113
76	Monoamines and peptides in cerebral cortex " contrasting principles of cortical organization. <i>Trends in Neurosciences</i> , 1983, 6, 146-151.	8.6	111
77	Peripheral administration of lactate produces antidepressant-like effects. <i>Molecular Psychiatry</i> , 2018, 23, 392-399.	7.9	111
78	Excitatory Amino Acids Stimulate Aerobic Glycolysis in Astrocytes via an Activation of the Na ⁺ /K ⁺ ATPase. <i>Developmental Neuroscience</i> , 1996, 18, 336-342.	2.0	110
79	Role of the Glyoxalase System in Astrocyte-Mediated Neuroprotection. <i>Journal of Neuroscience</i> , 2011, 31, 18338-18352.	3.6	106
80	New Evidence of Neuroprotection by Lactate after Transient Focal Cerebral Ischaemia: Extended Benefit after Intracerebroventricular Injection and Efficacy of Intravenous Administration. <i>Cerebrovascular Diseases</i> , 2012, 34, 329-335.	1.7	106
81	Label-Free Cytotoxicity Screening Assay by Digital Holographic Microscopy. <i>Assay and Drug Development Technologies</i> , 2013, 11, 101-107.	1.2	105
82	In vivo reprogramming of wound-resident cells generates skin epithelial tissue. <i>Nature</i> , 2018, 561, 243-247.	27.8	104
83	Selective Postsynaptic Co-localization of MCT2 with AMPA Receptor GluR2/3 Subunits at Excitatory Synapses Exhibiting AMPA Receptor Trafficking. <i>Cerebral Cortex</i> , 2005, 15, 361-370.	2.9	103
84	Alzheimer's disease: the amyloid hypothesis and the Inverse Warburg effect. <i>Frontiers in Physiology</i> , 2014, 5, 522.	2.8	103
85	Cellular perspectives on the glutamate monoamine interactions in limbic lobe structures and their relevance for some psychiatric disorders. <i>Progress in Neurobiology</i> , 2002, 67, 173-202.	5.7	102
86	NEUROSCIENCE: Let There Be (NADH) Light. <i>Science</i> , 2004, 305, 50-52.	12.6	97
87	Learning-Induced Gene Expression in the Hippocampus Reveals a Role of Neuron -Astrocyte Metabolic Coupling in Long Term Memory. <i>PLoS ONE</i> , 2015, 10, e0141568.	2.5	95
88	VIP and PACAP potentiate the action of glutamate on BDNF expression in mouse cortical neurones. <i>European Journal of Neuroscience</i> , 1998, 10, 272-280.	2.6	94
89	An immunohistochemical study of pro-somatostatin-derived peptides in the human brain. <i>Neuroscience</i> , 1987, 22, 781-800.	2.3	93
90	Glutamate Transport Decreases Mitochondrial pH and Modulates Oxidative Metabolism in Astrocytes. <i>Journal of Neuroscience</i> , 2011, 31, 3550-3559.	3.6	93

#	ARTICLE	IF	CITATIONS
91	Noradrenaline- and vasoactive intestinal peptide-containing neuronal systems in neocortex: Functional convergence with contrasting morphology. <i>Neuroscience</i> , 1988, 24, 367-378.	2.3	92
92	Spatial analysis of erythrocyte membrane fluctuations by digital holographic microscopy. <i>Blood Cells, Molecules, and Diseases</i> , 2009, 42, 228-232.	1.4	92
93	Disrupting astrocyte-neuron lactate transfer persistently reduces conditioned responses to cocaine. <i>Molecular Psychiatry</i> , 2016, 21, 1070-1076.	7.9	89
94	Neuron-glia metabolic coupling and plasticity. <i>Experimental Physiology</i> , 2011, 96, 407-410.	2.0	88
95	Cell morphology and intracellular ionic homeostasis explored with a multimodal approach combining epifluorescence and digital holographic microscopy. <i>Journal of Biophotonics</i> , 2010, 3, 432-436.	2.3	87
96	Noradrenaline Modulates Glutamate-mediated Neurotransmission in the Rat Basolateral Amygdala In Vitro. <i>European Journal of Neuroscience</i> , 1997, 9, 1356-1364.	2.6	86
97	Multi-timescale Modeling of Activity-Dependent Metabolic Coupling in the Neuron-Glia-Vasculature Ensemble. <i>PLoS Computational Biology</i> , 2015, 11, e1004036.	3.2	86
98	Purification and Cytochemical Identification of Neuronal and Non-Neuronal Cells in Chick Embryo Retina Cultures. <i>Developmental Neuroscience</i> , 1982, 5, 27-39.	2.0	85
99	Deletion of CREB-Regulated Transcription Coactivator 1 Induces Pathological Aggression, Depression-Related Behaviors, and Neuroplasticity Genes Dysregulation in Mice. <i>Biological Psychiatry</i> , 2012, 72, 528-536.	1.3	85
100	Three-dimensional immersive virtual reality for studying cellular compartments in 3D models from EM preparations of neural tissues. <i>Journal of Comparative Neurology</i> , 2016, 524, 23-38.	1.6	85
101	Effects of chronic lithium treatment on dopamine receptors in the rat corpus striatum. II. No effect on denervation or neuroleptic-induced supersensitivity. <i>Brain Research</i> , 1982, 232, 401-412.	2.2	81
102	Autoradiographic mapping of [mono[125I]iodo-Tyr10, MetO17]vasoactive intestinal peptide binding sites in the rat brain. <i>Neuroscience</i> , 1987, 23, 539-565.	2.3	81
103	Local Injection of Antisense Oligonucleotides Targeted to the Glial Glutamate Transporter GLAST Decreases the Metabolic Response to Somatosensory Activation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 404-412.	4.3	80
104	Feeding active neurons: (re)emergence of a nursing role for astrocytes. <i>Journal of Physiology (Paris)</i> , 2002, 96, 273-282.	2.1	80
105	A coherent neurobiological framework for functional neuroimaging provided by a model integrating compartmentalized energy metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4188-4193.	7.1	80
106	Protein targeting to glycogen mRNA expression is stimulated by noradrenaline in mouse cortical astrocytes. , 2000, 30, 382-391.		79
107	Gangliosides: Treatment Avenues in Neurodegenerative Disease. <i>Frontiers in Neurology</i> , 2019, 10, 859.	2.4	79
108	Astrocytes: New Targets for the Treatment of Neurodegenerative Diseases. <i>Current Pharmaceutical Design</i> , 2015, 21, 3570-3581.	1.9	79

#	ARTICLE	IF	CITATIONS
109	Dopaminergic supersensitivity induced by denervation and chronic receptor blockade is additive. <i>Nature</i> , 1982, 299, 72-74.	27.8	78
110	Sleep deprivation modulates brain mRNAs encoding genes of glycogen metabolism. <i>European Journal of Neuroscience</i> , 2002, 16, 1163-1167.	2.6	76
111	Astrocytes as Key Regulators of Brain Energy Metabolism: New Therapeutic Perspectives. <i>Frontiers in Physiology</i> , 2021, 12, 825816.	2.8	76
112	Cerebral Extracellular Lactate Increase is Predominantly Nonischemic in Patients with Severe Traumatic Brain Injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1815-1822.	4.3	75
113	L-Lactate Regulates the Expression of Synaptic Plasticity and Neuroprotection Genes in Cortical Neurons: A Transcriptome Analysis. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 375.	2.9	74
114	Deciphering neuron-glia compartmentalization in cortical energy metabolism. <i>Frontiers in Neuroenergetics</i> , 2009, 1, 4.	5.3	73
115	The Challenge of Connecting the Dots in the B.R.A.I.N.. <i>Neuron</i> , 2013, 80, 270-274.	8.1	73
116	Relationship between L-glutamate-regulated intracellular Na ⁺ dynamics and ATP hydrolysis in astrocytes. <i>Journal of Neural Transmission</i> , 2005, 112, 77-85.	2.8	72
117	Measurement of absolute cell volume, osmotic membrane water permeability, and refractive index of transmembrane water and solute flux by digital holographic microscopy. <i>Journal of Biomedical Optics</i> , 2013, 18, 036007.	2.6	72
118	Deficiency in monocarboxylate transporter 1 (MCT1) in mice delays regeneration of peripheral nerves following sciatic nerve crush. <i>Experimental Neurology</i> , 2015, 263, 325-338.	4.1	71
119	Comment on Recent Modeling Studies of Astrocyte-Neuron Metabolic Interactions. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 1982-1986.	4.3	70
120	Regulation of energy metabolism by neurotransmitters in astrocytes in primary culture and in an immortalized cell line. , 1997, 21, 74-83.		69
121	Glucocorticoids modulate neurotransmitter-induced glycogen metabolism in cultured cortical astrocytes. <i>Journal of Neurochemistry</i> , 2004, 88, 900-908.	3.9	69
122	How to balance the brain energy budget while spending glucose differently. <i>Journal of Physiology</i> , 2003, 546, 325-325.	2.9	69
123	Labeled Acetate as a Marker of Astrocytic Metabolism. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1668-1674.	4.3	69
124	Effects of chronic lithium treatment on dopamine receptors in the rat corpus striatum. I. Locomotor activity and behavioral supersensitivity. <i>Brain Research</i> , 1982, 232, 391-400.	2.2	67
125	Differential messenger RNA distribution of lactate dehydrogenase LDH-1 and LDH-5 isoforms in the rat brain. <i>Neuroscience</i> , 2000, 96, 619-625.	2.3	67
126	Regulation of neuron-astrocyte metabolic coupling across the sleep-wake cycle. <i>Neuroscience</i> , 2016, 323, 135-156.	2.3	67

#	ARTICLE	IF	CITATIONS
127	Cloning, localization and induction of mouse brain glycogen synthase. <i>Molecular Brain Research</i> , 1996, 38, 191-199.	2.3	66
128	The HDAC inhibitor SAHA improves depressive-like behavior of CRTC1-deficient mice: Possible relevance for treatment-resistant depression. <i>Neuropharmacology</i> , 2016, 107, 111-121.	4.1	66
129	Improvement of Neuroenergetics by Hypertonic Lactate Therapy in Patients with Traumatic Brain Injury Is Dependent on Baseline Cerebral Lactate/Pyruvate Ratio. <i>Journal of Neurotrauma</i> , 2016, 33, 681-687.	3.4	66
130	Resistance to Diet-Induced Obesity and Associated Metabolic Perturbations in Haploinsufficient Monocarboxylate Transporter 1 Mice. <i>PLoS ONE</i> , 2013, 8, e82505.	2.5	66
131	Evidence for the role of EP HX2 gene variants in anorexia nervosa. <i>Molecular Psychiatry</i> , 2014, 19, 724-732.	7.9	65
132	Sustained sleep fragmentation affects brain temperature, food intake and glucose tolerance in mice. <i>Journal of Sleep Research</i> , 2013, 22, 3-12.	3.2	64
133	3D cellular reconstruction of cortical glia and parenchymal morphometric analysis from Serial Block-Face Electron Microscopy of juvenile rat. <i>Progress in Neurobiology</i> , 2019, 183, 101696.	5.7	64
134	The Strategic Location of Glycogen and Lactate: From Body Energy Reserve to Brain Plasticity. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 82.	3.7	64
135	Sodium signaling and astrocyte energy metabolism. <i>Glia</i> , 2016, 64, 1667-1676.	4.9	61
136	VIP neurons in the cerebral cortex. <i>Trends in Pharmacological Sciences</i> , 1990, 11, 250-254.	8.7	60
137	Metabolic compartmentalization in the human cortex and hippocampus: evidence for a cell- and region-specific localization of lactate dehydrogenase 5 and pyruvate dehydrogenase. <i>BMC Neuroscience</i> , 2007, 8, 35.	1.9	60
138	Reactive Oxygen Species: Beyond Their Reactive Behavior. <i>Neurochemical Research</i> , 2021, 46, 77-87.	3.3	60
139	Dual-Gene, Dual-Cell Type Therapy against an Excitotoxic Insult by Bolstering Neuroenergetics. <i>Journal of Neuroscience</i> , 2004, 24, 6202-6208.	3.6	58
140	Quantitative RT-PCR Analysis of Uncoupling Protein Isoforms in Mouse Brain Cortex: Methodological Optimization and Comparison of Expression with Brown Adipose Tissue and Skeletal Muscle. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 780-788.	4.3	58
141	Inadequate brain glycogen or sleep increases spreading depression susceptibility. <i>Annals of Neurology</i> , 2018, 83, 61-73.	5.3	58
142	A _{2B} receptor activation promotes glycogen synthesis in astrocytes through modulation of gene expression. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C696-C704.	4.6	57
143	Expression of the monocarboxylate transporter MCT1 in the adult human brain cortex. <i>Brain Research</i> , 2006, 1070, 65-70.	2.2	57
144	Association study of 182 candidate genes in anorexia nervosa. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2010, 153B, 1070-1080.	1.7	57

#	ARTICLE	IF	CITATIONS
145	Patterns of calcium-binding proteins support parallel and hierarchical organization of human auditory areas. <i>European Journal of Neuroscience</i> , 2003, 17, 397-410.	2.6	56
146	Differential effects of pro- and anti-inflammatory cytokines alone or in combinations on the metabolic profile of astrocytes. <i>Journal of Neurochemistry</i> , 2011, 116, 564-576.	3.9	55
147	Astrocyte-neuron co-culture on microchips based on the model of SOD mutation to mimic ALS. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 964-975.	1.3	54
148	Regulation of Glycogen Metabolism in Astrocytes: Physiological, Pharmacological, and Pathological Aspects. , 1993, , 243-265.		54
149	Noradrenaline enhances monocarboxylate transporter 2 expression in cultured mouse cortical neurons via a translational regulation. <i>Journal of Neurochemistry</i> , 2003, 86, 1468-1476.	3.9	52
150	Prostaglandins and the synergism between VIP and noradrenaline in the cerebral cortex. <i>Nature</i> , 1987, 328, 637-640.	27.8	51
151	Precise in vivo genome editing via single homology arm donor mediated intron-targeting gene integration for genetic disease correction. <i>Cell Research</i> , 2019, 29, 804-819.	12.0	51
152	VIP and PACAP in the CNS: Regulators of Glial Energy Metabolism and Modulators of Glutamatergic Signaling. <i>Annals of the New York Academy of Sciences</i> , 1998, 865, 213-225.	3.8	50
153	Vasoactive Intestinal Peptide and Pituitary Adenylate Cyclase-Activating Polypeptide Potentiate Ca^{2+} Expression Induced by Glutamate in Cultured Cortical Neurons. <i>Journal of Neurochemistry</i> , 1995, 65, 1-9.	3.9	50
154	International Brain Initiative: An Innovative Framework for Coordinated Global Brain Research Efforts. <i>Neuron</i> , 2020, 105, 212-216.	8.1	50
155	Transmitter mediated regulation of energy metabolism in nervous tissue at the cellular level. <i>Neurochemistry International</i> , 1986, 9, 1-10.	3.8	49
156	K^{+} -Adrenergic Stimulation Promotes Homocysteic Acid Release from Astrocyte Cultures: Evidence for a Role of Astrocytes in the Modulation of Synaptic Transmission. <i>Journal of Neurochemistry</i> , 1997, 68, 2386-2394.	3.9	49
157	Early acquisition of typical metabolic features upon differentiation of mouse neural stem cells into astrocytes. <i>Glia</i> , 2004, 46, 8-17.	4.9	49
158	A New Outlook on Mental Illnesses: Glial Involvement Beyond the Glue. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 468.	3.7	49
159	Glycogen metabolism and the homeostatic regulation of sleep. <i>Metabolic Brain Disease</i> , 2015, 30, 263-279.	2.9	49
160	Dysregulation of soluble epoxide hydrolase and lipidomic profiles in anorexia nervosa. <i>Molecular Psychiatry</i> , 2016, 21, 537-546.	7.9	49
161	Hypertonic Lactate to Improve Cerebral Perfusion and Glucose Availability After Acute Brain Injury*. <i>Critical Care Medicine</i> , 2018, 46, 1649-1655.	0.9	49
162	VIP neurons in the neocortex. <i>Trends in Neurosciences</i> , 1985, 8, 7-8.	8.6	48

#	ARTICLE	IF	CITATIONS
163	VIP receptor subtypes in mouse cerebral cortex: evidence for a differential localization in astrocytes, microvessels and synaptosomal membranes. <i>Brain Research</i> , 1992, 587, 1-12.	2.2	48
164	Noradrenaline Increases K ⁺ conductance and Reduces Glutamatergic Transmission in the Mouse Entorhinal Cortex by Activation of α_2 Adrenoreceptors. <i>European Journal of Neuroscience</i> , 1995, 7, 2370-2378.	2.6	48
165	Label-free second-harmonic phase imaging of biological specimen by digital holographic microscopy. <i>Optics Letters</i> , 2010, 35, 4102.	3.3	48
166	Involvement of the agmatinergetic system in the depressive-like phenotype of the <i>Crtc1</i> knockout mouse model of depression. <i>Translational Psychiatry</i> , 2016, 6, e852-e852.	4.8	48
167	Spatially-Resolved Eigenmode Decomposition of Red Blood Cells Membrane Fluctuations Questions the Role of ATP in Flickering. <i>PLoS ONE</i> , 2012, 7, e40667.	2.5	48
168	Genes Involved in the Astrocyte-Neuron Lactate Shuttle (ANLS) Are Specifically Regulated in Cortical Astrocytes Following Sleep Deprivation in Mice. <i>Sleep</i> , 2013, 36, 1445-1458.	1.1	47
169	Norepinephrine stimulates glycogenolysis in astrocytes to fuel neurons with lactate. <i>PLoS Computational Biology</i> , 2018, 14, e1006392.	3.2	47
170	BDNF stimulates expression, activity and release of tissue-type plasminogen activator in mouse cortical neurons. <i>European Journal of Neuroscience</i> , 1999, 11, 1639-1646.	2.6	46
171	Developmental and Hormonal Regulation of the Monocarboxylate Transporter 2 (MCT2) Expression in the Mouse Germ Cells ¹ . <i>Biology of Reproduction</i> , 2003, 69, 1069-1078.	2.7	46
172	Opposite Regulation of Calbindin and Calretinin Expression by Brain-Derived Neurotrophic Factor in Cortical Neurons. <i>Journal of Neurochemistry</i> , 2008, 74, 1870-1877.	3.9	45
173	Dopamine receptors in bovine retina: Characterization of the 3H-spiroperidol binding and its use for screening dopamine receptor affinity of drugs. <i>Life Sciences</i> , 1979, 25, 1675-1685.	4.3	44
174	Brain Energy Metabolism. , 2013, , 1591-1620.		44
175	Vasoactive intestinal peptide binding sites and fibers in the brain of the pigeon <i>Columba livia</i> : An autoradiographic and immunohistochemical study. <i>Journal of Comparative Neurology</i> , 1991, 305, 393-411.	1.6	43
176	Stimulation-Induced Increases of Astrocytic Oxidative Metabolism in Rats and Humans Investigated with ¹¹ C-Acetate. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 44-56.	4.3	43
177	High throughput second harmonic imaging for label-free biological applications. <i>Optics Express</i> , 2014, 22, 31102.	3.4	43
178	Associations Between Attention-Deficit/Hyperactivity Disorder and Various Eating Disorders: A Swedish Nationwide Population Study Using Multiple Genetically Informative Approaches. <i>Biological Psychiatry</i> , 2019, 86, 577-586.	1.3	43
179	Adenosine triphosphate and arachidonic acid stimulate glycogenolysis in primary cultures of mouse cerebral cortical astrocytes. <i>Neuroscience Letters</i> , 1995, 188, 109-112.	2.1	42
180	Low-Cost Travel in Neurons. <i>Science</i> , 2009, 325, 1349-1351.	12.6	42

#	ARTICLE	IF	CITATIONS
181	Influence of <i>CRTC1</i> Polymorphisms on Body Mass Index and Fat Mass in Psychiatric Patients and the General Adult Population. <i>JAMA Psychiatry</i> , 2013, 70, 1011.	11.0	42
182	Metabolic Response of the Cerebral Cortex Following Gentle Sleep Deprivation and Modafinil Administration. <i>Sleep</i> , 2010, 33, 901-908.	1.1	40
183	Perinatal and early postnatal changes in the expression of monocarboxylate transporters MCT1 and MCT2 in the rat forebrain. <i>Journal of Comparative Neurology</i> , 2003, 465, 445-454.	1.6	39
184	Increased activation in Broca's area after cognitive remediation in schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2014, 221, 204-209.	1.8	39
185	Metabolic gene expression changes in astrocytes in Multiple Sclerosis cerebral cortex are indicative of immune-mediated signaling. <i>Brain, Behavior, and Immunity</i> , 2015, 48, 313-325.	4.1	39
186	International perspectives on engaging the public in neuroethics. <i>Nature Reviews Neuroscience</i> , 2005, 6, 977-982.	10.2	38
187	Mouse fertility is not dependent on the CREB coactivator <i>Crtc1</i> . <i>Nature Medicine</i> , 2009, 15, 989-990.	30.7	38
188	Simultaneous Optical Recording in Multiple Cells by Digital Holographic Microscopy of Chloride Current Associated to Activation of the Ligand-Gated Chloride Channel GABAA Receptor. <i>PLoS ONE</i> , 2012, 7, e51041.	2.5	38
189	Trans-inhibition of glutamate transport prevents excitatory amino acid-induced glycolysis in astrocytes. <i>Brain Research</i> , 1999, 850, 39-46.	2.2	37
190	Roadmap on Digital Holography-Based Quantitative Phase Imaging. <i>Journal of Imaging</i> , 2021, 7, 252.	3.0	37
191	Autoradiographic analysis of the distribution of vasoactive intestinal peptide binding sites in the vertebrate central nervous system: a phylogenetic study. <i>Brain Research</i> , 1990, 520, 14-26.	2.2	36
192	Genetic Association of Recovery from Eating Disorders: The Role of GABA Receptor SNPs. <i>Neuropsychopharmacology</i> , 2011, 36, 2222-2232.	5.4	36
193	The psychostimulant modafinil enhances gap junctional communication in cortical astrocytes. <i>Neuropharmacology</i> , 2013, 75, 533-538.	4.1	36
194	Abstractocyte: A Visual Tool for Exploring Nanoscale Astroglial Cells. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2018, 24, 853-861.	4.4	36
195	Prostanoids and their role in cell-cell interactions in the central nervous system. <i>Neurochemistry International</i> , 1991, 18, 303-322.	3.8	35
196	Expression of brain-derived neurotrophic factor is not modulated by chronic mild stress in the rat hippocampus and amygdala. <i>Pharmacological Reports</i> , 2008, 60, 1001-7.	3.3	34
197	Hypocretin/orexin deficiency decreases cocaine abuse liability. <i>Neuropharmacology</i> , 2018, 133, 395-403.	4.1	33
198	VIP- and glucagon-induced formation of cyclic AMP in intact retinae in vitro. <i>European Journal of Pharmacology</i> , 1981, 71, 131-133.	3.5	32

#	ARTICLE	IF	CITATIONS
199	Patterns of calcium-binding proteins in human inferior colliculus: identification of subdivisions and evidence for putative parallel systems. <i>Neuroscience</i> , 2003, 116, 1111-1121.	2.3	32
200	Comparison of the effects of modafinil and sleep deprivation on sleep and cortical EEG spectra in mice. <i>Neuropharmacology</i> , 2002, 43, 110-118.	4.1	31
201	Long-term modulation of glucose utilization by IL-1 β and TNF- β in astrocytes: Na ⁺ pump activity as a potential target via distinct signaling mechanisms. <i>Glia</i> , 2002, 39, 10-18.	4.9	31
202	Glycogen: a Trojan horse for neurons. <i>Nature Neuroscience</i> , 2007, 10, 1341-1342.	14.8	31
203	Absence of association between specific common variants of the obesity-related FTO gene and psychological and behavioral eating disorder phenotypes. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2011, 156, 454-461.	1.7	31
204	Goals in Nutrition Science 2015-2020. <i>Frontiers in Nutrition</i> , 2015, 2, 26.	3.7	31
205	Regulation of Neurotrophic Factors and Energy Metabolism by Antidepressants in Astrocytes. <i>Current Drug Targets</i> , 2013, 14, 1308-1321.	2.1	31
206	Morphological and functional correlates of VIP neurons in cerebral cortex. <i>Peptides</i> , 1984, 5, 213-218.	2.4	30
207	Association of Candidate Genes with Phenotypic Traits Relevant to Anorexia Nervosa. <i>European Eating Disorders Review</i> , 2011, 19, 487-493.	4.1	30
208	Digital Reconstruction of the Neuro-Glia-Vascular Architecture. <i>Cerebral Cortex</i> , 2021, 31, 5686-5703.	2.9	30
209	The effects of VIP on cyclic AMP and glycogen levels in vertebrate retina. <i>Peptides</i> , 1984, 5, 295-298.	2.4	29
210	A preclinical model for identifying rats at risk of alcohol use disorder. <i>Scientific Reports</i> , 2017, 7, 9454.	3.3	29
211	Accumulation of Cyclic AMP Elicited by Vasoactive Intestinal Peptide Is Potentiated by Noradrenaline, Histamine, Adenosine, Baclofen, Phorbol Esters, and Ouabain in Mouse Cerebral Cortical Slices: Studies on the Role of Arachidonic Acid Metabolites and Protein Kinase C. <i>Journal of Neurochemistry</i> , 1989, 53, 1941-1951.	3.9	28
212	Vasoactive Intestinal Peptide (VIP) and Pituitary Adenylate Cyclase-activating Polypeptide (PACAP) Potentiate the Glutamate-evoked Release of Arachidonic Acid from Mouse Cortical Neurons. <i>Journal of Biological Chemistry</i> , 1996, 271, 23705-23710.	3.4	28
213	Effects of glial glutamate transporter inhibitors on intracellular Na ⁺ in mouse astrocytes. <i>Brain Research</i> , 2001, 893, 46-52.	2.2	28
214	Hypoxia/hypoglycemia preconditioning prevents the loss of functional electrical activity in organotypic slice cultures. <i>Brain Research</i> , 2005, 1051, 117-122.	2.2	28
215	Shared genetic risk between eating disorder and substance use-related phenotypes: Evidence from genome-wide association studies. <i>Addiction Biology</i> , 2021, 26, e12880.	2.6	28
216	Brain-derived neurotrophic factor stimulates phosphorylation of stathmin in cortical neurons. <i>Molecular Brain Research</i> , 1997, 51, 220-228.	2.3	27

#	ARTICLE	IF	CITATIONS
217	AMPA/kainate receptor activation blocks K ⁺ currents via internal Na ⁺ increase in mouse cultured stellate astrocytes. , 1997, 20, 38-50.		27
218	Induction of brain aquaporin 9 (AQP9) in catecholaminergic neurons in diabetic rats. Brain Research, 2008, 1188, 17-24.	2.2	27
219	Alteration of brain glycogen turnover in the conscious rat after 5h of prolonged wakefulness. Neurochemistry International, 2009, 55, 45-51.	3.8	27
220	Role of adult hippocampal neurogenesis in the antidepressant actions of lactate. Molecular Psychiatry, 2021, 26, 6723-6735.	7.9	27
221	Brain energy metabolism in Alzheimer's disease: 99mTc-HMPAO SPECT imaging during verbal fluency and role of astrocytes in the cellular mechanism of 99mTc-HMPAO retention. Brain Research Reviews, 2001, 36, 230-240.	9.0	26
222	Glycogen Metabolism as a Marker of Astrocyte Differentiation. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 51-55.	4.3	26
223	Control of Mitochondrial pH by Uncoupling Protein 4 in Astrocytes Promotes Neuronal Survival. Journal of Biological Chemistry, 2014, 289, 31014-31028.	3.4	26
224	Neuroenergetic Response to Prolonged Cerebral Glucose Depletion after Severe Brain Injury and the Role of Lactate. Journal of Neurotrauma, 2015, 32, 1560-1566.	3.4	26
225	The role of leptin, melanocortin, and neurotrophin system genes on body weight in anorexia nervosa and bulimia nervosa. Journal of Psychiatric Research, 2014, 55, 77-86.	3.1	25
226	A Process for Digitizing and Simulating Biologically Realistic Oligocellular Networks Demonstrated for the Neuro-Glio-Vascular Ensemble. Frontiers in Neuroscience, 2018, 12, 664.	2.8	25
227	Pharmacological studies of voltage-sensitive Ca ²⁺ -channels involved in the release of vasoactive intestinal peptide evoked by K ⁺ in mouse cerebral cortical slices. Neuroscience, 1989, 30, 423-431.	2.3	24
228	The astrocyte-mediated coupling between synaptic activity and energy metabolism operates through volume transmission. Progress in Brain Research, 2000, 125, 229-240.	1.4	24
229	Astrocytes as a Predominant Cellular Site of ^{99m} Tc-HMPAO Retention. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 456-468.	4.3	24
230	Distribution of the monocarboxylate transporter MCT2 in human cerebral cortex: An immunohistochemical study. Brain Research, 2008, 1226, 61-69.	2.2	24
231	Brain Energy Metabolism. , 2013, , 261-284.		24
232	Sustained Sleep Fragmentation Induces Sleep Homeostasis in Mice. Sleep, 2015, 38, 567-579.	1.1	24
233	A Novel Method for In Vitro Production of Human Glial-Like Cells from Neurosurgical Resection Tissue. Laboratory Investigation, 2002, 82, 809-812.	3.7	23
234	Glucose and lactate are equally effective in energizing activity-dependent synaptic vesicle turnover in purified cortical neurons. Neuroscience, 2006, 141, 157-165.	2.3	23

#	ARTICLE	IF	CITATIONS
235	C/EBP β couples dopamine signalling to substance P precursor gene expression in striatal neurones. <i>Journal of Neurochemistry</i> , 2006, 98, 1390-1399.	3.9	23
236	Noradrenaline reduces synaptic responses in normal and tottering mouse entorhinal cortex via α_2 receptors. <i>Neuroscience Letters</i> , 1994, 179, 145-148.	2.1	22
237	Altered Glycogen Metabolism in Cultured Astrocytes from Mice with Chronic Glutathione Deficit; Relevance for Neuroenergetics in Schizophrenia. <i>PLoS ONE</i> , 2011, 6, e22875.	2.5	22
238	Vasoactive Intestinal Peptide as a Mediator of Intercellular Communication in the Cerebral Cortex. Release, Receptors, Actions, and Interactions with Norepinephrine. <i>Annals of the New York Academy of Sciences</i> , 1988, 527, 110-129.	3.8	21
239	Metabolic Activation Pattern of Distinct Hippocampal Subregions during Spatial Learning and Memory Retrieval. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 468-477.	4.3	21
240	Role of MCT1 and CAII in skeletal muscle pH homeostasis, energetics, and function: <i>in vivo</i> insights from MCT1 haploinsufficient mice. <i>FASEB Journal</i> , 2017, 31, 2562-2575.	0.5	21
241	Ampakinetm CX546 bolsters energetic response of astrocytes: a novel target for cognitive-enhancing drugs acting as alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor modulators. <i>Journal of Neurochemistry</i> , 2005, 92, 668-677.	3.9	20
242	The human CFTR protein expressed in CHO cells activates an aquaporin 3 in a cAMP dependent pathway: study by Digital Holographic Microscopy. <i>Journal of Cell Science</i> , 2014, 127, 546-56.	2.0	20
243	Imaging brain aerobic glycolysis as a marker of synaptic plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7015-7016.	7.1	20
244	Brain glycogen metabolism: A possible link between sleep disturbances, headache and depression. <i>Sleep Medicine Reviews</i> , 2021, 59, 101449.	8.5	20
245	Intercellular communication mediated by VIP in the cerebral cortex. <i>Peptides</i> , 1986, 7, 169-173.	2.4	19
246	Regulation of Astrocyte Energy Metabolism by Neurotransmitters. <i>Kidney and Blood Pressure Research</i> , 1994, 17, 168-171.	2.0	19
247	Thrombin-induced ischemic tolerance is prevented by inhibiting c-jun N-terminal kinase. <i>Brain Research</i> , 2007, 1148, 217-225.	2.2	19
248	The homeostatic psyche: Freudian theory and somatic markers. <i>Journal of Physiology (Paris)</i> , 2010, 104, 272-278.	2.1	19
249	Effect of 6-hydroxydopamine lesions on norepinephrine-induced [3 H]glycogen hydrolysis in mouse cortical slices. <i>Brain Research</i> , 1983, 261, 159-162.	2.2	18
250	IL-1-Alpha and TNF-Alpha Differentially Regulate CD4 and Mac-1 Expression in Mouse Microglia. <i>NeuroImmunoModulation</i> , 1998, 5, 42-52.	1.8	18
251	Cryopreservation of human brain tissue allowing timely production of viable adult human brain cells for autologous transplantation. <i>Cryobiology</i> , 2003, 47, 179-183.	0.7	18
252	Protein targeting to glycogen is a master regulator of glycogen synthesis in astrocytes. <i>IBRO Reports</i> , 2016, 1, 46-53.	0.3	18

#	ARTICLE	IF	CITATIONS
253	l-Lactate: Food for Thoughts, Memory and Behavior. <i>Metabolites</i> , 2021, 11, 548.	2.9	18
254	Synaptic Plasticity and the Warburg Effect. <i>Cell Metabolism</i> , 2014, 19, 4-5.	16.2	17
255	GLAM: Glycogen-derived Lactate Absorption Map for visual analysis of dense and sparse surface reconstructions of rodent brain structures on desktop systems and virtual environments. <i>Computers and Graphics</i> , 2018, 74, 85-98.	2.5	17
256	Gut microbiota modulates expression of genes involved in the astrocyte-neuron lactate shuttle in the hippocampus. <i>European Neuropsychopharmacology</i> , 2020, 41, 152-159.	0.7	17
257	The Subjective Sensation of Synchrony: An Experimental Study. <i>PLoS ONE</i> , 2016, 11, e0147008.	2.5	17
258	Ganglioside GM1 Targets Astrocytes to Stimulate Cerebral Energy Metabolism. <i>Frontiers in Pharmacology</i> , 2021, 12, 653842.	3.5	16
259	Influence of MCHR2 and MCHR2-AS1 Genetic Polymorphisms on Body Mass Index in Psychiatric Patients and In Population-Based Subjects with Present or Past Atypical Depression. <i>PLoS ONE</i> , 2015, 10, e0139155.	2.5	16
260	Noradrenergic sub-sensitivity in the cerebral cortex of the tottering mouse, a spontaneously epileptic mutant. <i>Brain Research</i> , 1987, 403, 181-185.	2.2	15
261	Stimulation by nicotine of enteric inhibitory nerves and release of vasoactive intestinal peptide in the taenia of the guinea-pig caecum. <i>European Journal of Pharmacology</i> , 1988, 148, 179-186.	3.5	15
262	Stable transfection of cDNAs targeting specific steps of glycogen metabolism supports the existence of active gluconeogenesis in mouse cultured astrocytes. <i>Glia</i> , 2002, 37, 379-382.	4.9	15
263	Embodied memory: unconscious smiling modulates emotional evaluation of episodic memories. <i>Frontiers in Psychology</i> , 2015, 6, 650.	2.1	15
264	Lactate release from astrocytes to neurons contributes to cocaine memory formation. <i>BioEssays</i> , 2016, 38, 1266-1273.	2.5	15
265	Extended preclinical investigation of lactate for neuroprotection after ischemic stroke. <i>Clinical and Translational Neuroscience</i> , 2020, 4, 2514183X2090457.	0.9	15
266	High- and low-affinity binding sites for vasoactive intestinal peptide (VIP) in the rat kidney revealed by light microscopic autoradiography. <i>Regulatory Peptides</i> , 1988, 23, 145-152.	1.9	14
267	Immunocytochemical expression of monocarboxylate transporters in the human visual cortex at midgestation. <i>Developmental Brain Research</i> , 2004, 148, 69-76.	1.7	14
268	Regulation by Neurotransmitters of Glial Energy Metabolism. <i>Advances in Experimental Medicine and Biology</i> , 1997, 429, 137-143.	1.6	14
269	Differential effect of thyroid hormone deficiency on the growth of calretinin-expressing neurons in rat spinal cord and dorsal root ganglia. <i>Journal of Comparative Neurology</i> , 2000, 426, 519-533.	1.6	13
270	Sleep fragmentation alters brain energy metabolism without modifying hippocampal electrophysiological response to novelty exposure. <i>Journal of Sleep Research</i> , 2016, 25, 583-590.	3.2	13

#	ARTICLE	IF	CITATIONS
271	Differential effects of benzamides and thioxanthenes on dopamine-elicited accumulation of cyclic AMP in isolated rabbit retina. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1978, 303, 189-191.	3.0	12
272	Impact of HSD11B1 polymorphisms on BMI and components of the metabolic syndrome in patients receiving psychotropic treatments. <i>Pharmacogenetics and Genomics</i> , 2015, 25, 246-258.	1.5	12
273	Gender-specific alteration of energy balance and circadian locomotor activity in the <i>Crtc1</i> knockout mouse model of depression. <i>Translational Psychiatry</i> , 2017, 7, 1269.	4.8	12
274	An investigation of indirect effects of personality features on anorexia nervosa severity through interoceptive dysfunction in individuals with lifetime anorexia nervosa diagnoses. <i>International Journal of Eating Disorders</i> , 2019, 52, 200-205.	4.0	12
275	Regulation of Gene Expression by Neurotransmitters in the Central Nervous System. <i>European Neurology</i> , 1998, 39, 129-134.	1.4	11
276	DHM (Digital Holography Microscope) for imaging cells. <i>Journal of Physics: Conference Series</i> , 2007, 61, 1317-1321.	0.4	11
277	Hypertonic lactate and the injured brain: facts and the potential for positive clinical implications. <i>Intensive Care Medicine</i> , 2014, 40, 920-921.	8.2	11
278	Chapter 12 Vasoactive intestinal peptide and noradrenaline regulate energy metabolism in astrocytes: a physiological function in the control of local homeostasis within the CNS. <i>Progress in Brain Research</i> , 1994, 100, 87-93.	1.4	10
279	Assessing multiple sclerosis activity: is the in vitro production of tumor necrosis factor- α , interleukins 2, 6, 4, and 10, and immunoglobulin G of value?. <i>Journal of Neurology</i> , 1999, 246, 1041-1050.	3.6	10
280	In Vivo Measurement of Glucose Utilization in Rats using a 14 C-Microprobe: Direct Comparison with Autoradiography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 1015-1024.	4.3	10
281	Memory Reconsolidation, Trace Reassociation and the Freudian Unconscious. , 2013, , 293-312.		10
282	A Motion Capture Study to Measure the Feeling of Synchrony in Romantic Couples and in Professional Musicians. <i>Frontiers in Psychology</i> , 2016, 7, 1673.	2.1	10
283	Interactive Volumetric Visual Analysis of Glycogen-derived Energy Absorption in Nanometric Brain Structures. <i>Computer Graphics Forum</i> , 2019, 38, 427-439.	3.0	10
284	Lactate measurement by neurochemical profiling in the dorsolateral prefrontal cortex at 7T: accuracy, precision, and relaxation times. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1895-1908.	3.0	10
285	From the Principle of Inertia to the Death Drive: The Influence of the Second Law of Thermodynamics on the Freudian Theory of the Psychological Apparatus. <i>Frontiers in Psychology</i> , 2020, 11, 325.	2.1	10
286	InShaDe: Invariant Shape Descriptors for visual 2D and 3D cellular and nuclear shape analysis and classification. <i>Computers and Graphics</i> , 2021, 98, 105-125.	2.5	10
287	Common Genetic Variation and Age of Onset of Anorexia Nervosa. <i>Biological Psychiatry Global Open Science</i> , 2022, 2, 368-378.	2.2	10
288	Modulation of VIP-Stimulated cAMP Formation by Excitatory Amino Acids in Mouse Cerebral Cortex. <i>European Journal of Neuroscience</i> , 1990, 2, 525-533.	2.6	9

#	ARTICLE	IF	CITATIONS
289	<title>Digital holography applied to microscopy</title>. , 2002, , .		9
290	Chloramphenicol decreases brain glucose utilization and modifies the sleep-wake cycle architecture in rats. <i>Journal of Neurochemistry</i> , 2005, 93, 1623-1632.	3.9	9
291	Functional imaging studies of cognition using ^{99m} Tc-HMPAO SPECT: empirical validation using the n-back working memory paradigm. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008, 35, 695-703.	6.4	9
292	Complex regulation of CREB-binding protein by homeodomain-interacting protein kinase 2. <i>Cellular Signalling</i> , 2015, 27, 2252-2260.	3.6	9
293	Virtual reality framework for editing and exploring medial axis representations of nanometric scale neural structures. <i>Computers and Graphics</i> , 2020, 91, 12-24.	2.5	9
294	High potency of the orally-active NMDA-receptor antagonist CGP 40 116 in inhibiting excitatory postsynaptic potentials of rat basolateral amygdala neurones in vitro. <i>Neuropharmacology</i> , 1997, 36, 1555-1559.	4.1	8
295	Empiricism and Rationalism: Two Paths toward the Same Goal. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 1240-1241.	4.3	8
296	Investigation of Dopamine Content, Synthesis, and Release in the Rabbit Retina In Vitro: II. Effects of High Potassium, Adenylate Cyclase Activators, and <i>N</i> -Propyl-3-(3-Hydroxyphenyl) Piperidine. <i>Journal of Neurochemistry</i> , 1986, 47, 1207-1213.	3.9	8
297	Characterization of genetic variation in the VGLL4 gene in anorexia nervosa. <i>Psychiatric Genetics</i> , 2014, 24, 183-184.	1.1	8
298	The Epistemological Foundations of Freud's Energetics Model. <i>Frontiers in Psychology</i> , 2018, 9, 1861.	2.1	8
299	Brain Energy Metabolism. , 2004, , 67-89.		7
300	Hydroxycarboxylic Acid Receptor 1 and Neuroprotection in a Mouse Model of Cerebral Ischemia-Reperfusion. <i>Frontiers in Physiology</i> , 2021, 12, 689239.	2.8	7
301	Actions of VIP, hGRF, PHI and secretin: Comparative studies in cerebral cortex and adenohipophysis. <i>Peptides</i> , 1986, 7, 175-180.	2.4	6
302	A Role for Lactate in the Consolidation of Drug-Related Associative Memories. <i>Biological Psychiatry</i> , 2016, 79, 875-877.	1.3	6
303	At the Heart of Genome Editing and Cardiovascular Diseases. <i>Circulation Research</i> , 2018, 123, 221-223.	4.5	6
304	Coupling of Cerebral Blood Flow and Metabolism. , 1997, , 70-75.		6
305	Cellular Mechanisms of Brain Energy Metabolism. , 2011, , 123-146.		6
306	Stable transfection of cDNAs targeting specific steps of glycogen metabolism supports the existence of active gluconeogenesis in mouse cultured astrocytes. <i>Glia</i> , 2002, 37, 379-82.	4.9	6

#	ARTICLE	IF	CITATIONS
307	JULIDE: A Software Tool for 3D Reconstruction and Statistical Analysis of Autoradiographic Mouse Brain Sections. <i>PLoS ONE</i> , 2010, 5, e14094.	2.5	5
308	Association of PCK1 with Body Mass Index and Other Metabolic Features in Patients With Psychotropic Treatments. <i>Journal of Clinical Psychopharmacology</i> , 2015, 35, 544-552.	1.4	5
309	Glutamate Cysteine Ligase Modulatory Subunit Knockout Mouse Shows Normal Insulin Sensitivity but Reduced Liver Glycogen Storage. <i>Frontiers in Physiology</i> , 2016, 7, 142.	2.8	5
310	Impact of MCT1 Haploinsufficiency on the Mouse Retina. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1074, 375-380.	1.6	5
311	Neuroscience without borders: Preserving the history of neuroscience. <i>European Journal of Neuroscience</i> , 2018, 48, 2099-2109.	2.6	5
312	The increase in cyclic-AMP levels elicited by vasoactive intestinal peptide (VIP) in mouse cerebral cortical slices is potentiated by ergot alkaloids. <i>Neurochemistry International</i> , 1984, 6, 751-753.	3.8	4
313	Shape analysis of 3D nanoscale reconstructions of brain cell nuclear envelopes by implicit and explicit parametric representations. <i>Computers and Graphics: X</i> , 2019, 1, 100004.	0.6	4
314	A Method for 3D Reconstruction and Virtual Reality Analysis of Glial and Neuronal Cells. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	4
315	Interoception Disorder and Insular Cortex Abnormalities in Schizophrenia: A New Perspective Between Psychoanalysis and Neuroscience. <i>Frontiers in Psychology</i> , 2021, 12, 628355.	2.1	4
316	Plasticité neuronale: les traces et leurs destins. , 2017, , 19-46.		4
317	Effects of dobutamine on cyclic AMP accumulation induced by the stimulation of dopamine receptors in rabbit retina in vitro. <i>Experientia</i> , 1980, 36, 1108-1110.	1.2	3
318	Effects of ethanol on VIP- and/or noradrenaline-stimulated cAMP formation in mouse brain. <i>Alcohol</i> , 1988, 5, 445-449.	1.7	3
319	Regional Distribution of Vasoactive Intestinal Peptide Immunoreactivity in the Brain of Salmon, Trout and Carp. <i>NeuroSignals</i> , 1995, 4, 86-93.	0.9	3
320	Ocular mitochondrial myopathy evolving late in life into a disabling proximal myopathy associated with the mitochondrial DNA 3243 A to G mutation. <i>Journal of Neurology</i> , 2001, 248, 332-333.	3.6	3
321	Digital holographic microscopy: a new optical imaging technique to investigate cellular dynamics. , 2006, , .		3
322	Dual-wavelength Digital Holography for quantification of cell volume and integral refractive index (RI). , 2011, , .		3
323	Exploring Neural Cell Dynamics with Digital Holographic Microscopy. , 2013, , .		3
324	Adding large EM stack support. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
325	Three-dimensional immersive virtual reality for studying cellular compartments in 3D models from EM preparations of neural tissues. <i>Journal of Comparative Neurology</i> , 2016, 524, Spc1-Spc1.	1.6	3
326	WHOLE GENOME SEQUENCE ANALYSIS OF A COUSIN PAIR WITH RESTRICTING ANOREXIA NERVOSA. <i>European Neuropsychopharmacology</i> , 2019, 29, S977-S978.	0.7	3
327	Excitation states of metabolic networks predict dose-response fingerprinting and ligand pulse phase signalling. <i>Journal of Theoretical Biology</i> , 2020, 487, 110123.	1.7	3
328	Pro-inflammatory cytokines induce the transcription factors C/EBP β and C/EBP γ in astrocytes. <i>Glia</i> , 2000, 29, 91-97.	4.9	3
329	1. Preface. <i>Epilepsy Research</i> , 1991, 10, 1-2.	1.6	2
330	Exploring red blood cell membrane dynamics with digital holographic microscopy. , 2010, , .		2
331	Cell death detection and ionic homeostasis monitoring with digital holographic microscopy. , 2011, , .		2
332	Quantitative measurement of absolute cell volume and intracellular integral refractive index (RI) with dual-wavelength digital holographic microscopy (DHM). <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
333	A Historical Review of Diachrony and Semantic Dimensions of Trace in Neurosciences and Lacanian Psychoanalysis. <i>Frontiers in Psychology</i> , 2017, 8, 734.	2.1	2
334	Noradrenergic System and Memory. , 2017, , 183-200.		2
335	Forget About Electron Micrographs: A Novel Guide for Using for Quantitative Analysis of Dense Reconstructions. <i>Neuromethods</i> , 2020, , 263-304.	0.3	2
336	The Central Role of Astrocytes in Neuroenergetics. , 2004, , 367-376.		2
337	Cell biology explored with Digital Holographic Microscopy. , 2008, , .		2
338	Virtual environment for processing medial axis representations of 3D nanoscale reconstructions of brain cellular structures. , 2019, , .		2
339	How lactate links cannabis to social behaviour. <i>Nature</i> , 2020, 583, 526-527.	27.8	2
340	Representing stimulus information in an energy metabolism pathway. <i>Journal of Theoretical Biology</i> , 2022, 540, 111090.	1.7	2
341	Potentiation of apomorphine-induced climbing behaviour in mice by d-LSD. <i>Progress in Neuro-Psychopharmacology & Biological Psychiatry</i> , 1979, 3, 503-511.	0.6	1
342	Age-dependent supersensitivity to the glycogenolytic effect of K ⁺ in the cerebral cortex of the spontaneously epileptic quaking mouse mutant. <i>Developmental Brain Research</i> , 1989, 46, 107-113.	1.7	1

#	ARTICLE	IF	CITATIONS
343	Prostaglandins and the β 1-Adrenergic Potentiation of Neurotransmitter-Stimulated Cyclic AMP Formation in Mouse Cerebral Cortex. <i>Journal of Neurochemistry</i> , 1990, 54, 1082-1083.	3.9	1
344	Role of astrocytes in coupling synaptic activity to glucose utilization. <i>International Congress Series</i> , 2002, 1235, 189-196.	0.2	1
345	Progress and perspectives in digital holographic microscopy applied to life sciences. , 2010, , .		1
346	An introduction to the International Brain Research Organization: IBRO's beginnings. <i>Neurology</i> , 2012, 79, 1496-1498.	1.1	1
347	Study of Intracellular Ion Dynamics with a Multimodality Approach Combining Epifluorescence and Digital Holographic Microscopy. , 2010, , .		1
348	Cell Death and Ionic Regulation Detection with Digital Holographic Microscopy. , 2011, , .		1
349	Brain Energy and Metabolism. , 2016, , 1879-1909.		1
350	Biochemical Approaches to the Study of Peptide Actions. , 1987, , 245-298.		0
351	Introduction. <i>Developmental Neuroscience</i> , 1998, 20, 289-290.	2.0	0
352	Chapter II Brain PACAP/VIP receptors: regional distribution, functional properties and physiological relevance. <i>Handbook of Chemical Neuroanatomy</i> , 2000, 16, 45-77.	0.3	0
353	Digital holographic microscopy applied to metrology. , 2004, , .		0
354	Digital Holographic Microscopy (DHM). <i>Imaging & Microscopy</i> , 2006, 8, 46-48.	0.1	0
355	Non-invasive dry mass determination and monitoring at the single cell level with digital holographic microscopy. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
356	Measuring biophysical properties of living cells with digital holographic microscopy. , 2011, , .		0
357	Digital holographic microscopy applied to neurosciences. , 2012, , .		0
358	Super-resolution Phase Tomography. , 2013, , .		0
359	Exploring cell structure, dynamics and homeostasis with a multimodal microscopy approach based on digital holographic microscopy: towards identifying early biomarkers of cell viability and cytotoxicity. , 2018, , .		0
360	Lactate enhances NMDA receptor responses via two distinct mechanisms. <i>IBRO Reports</i> , 2019, 6, S397-S398.	0.3	0

#	ARTICLE	IF	CITATIONS
361	Brain Energy Metabolism: Cellular Aspects and Relevance to Functional Brain Imaging. , 2001, , 203-209.		0
362	Effects of pro-inflammatory cytokines and beta-amyloid peptide on glucose metabolism in primary cultures of astrocytes. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S74-S74.	4.3	0
363	The central role of astrocytes in neurometabolic coupling: A decade's perspective. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S71-S71.	4.3	0
364	Quantitative measurements of dynamic cell morphometry and intracellular integral refractive index with Digital holographic microscopy. , 2006, , .		0
365	Simultaneous cell morphometry and refractive index measurement with dual-wavelength Digital Holographic Microscopy. , 2008, , .		0
366	Exploring cell dynamics with Digital Holographic Microscopy. , 2009, , .		0
367	Early Glutamate-mediated Cell Death Detection with Digital Holographic Microscopy. , 2011, , .		0
368	Interactions between Vasoactive Intestinal Peptide and Norepinephrine, Ergot Alkaloids and Prostanoids in Mouse Cerebral Cortex. , 1987, , 272-283.		0
369	Interactions between Vasoactive Intestinal Peptide and Norepinephrine, Ergot Alkaloids and Prostanoids in Mouse Cerebral Cortex. , 1987, , 272-283.		0
370	Release of vasoactive intestinal peptide (VIP) in mouse neocortex: Ca ²⁺ -channels subtypes and involvement of arachidonic acid metabolites. Progress in Cell Research, 1990, 1, 49-60.	0.3	0
371	Exploring living neuronal network dynamics and homeostasis with multimodal digital holographic microscopy: towards identifying early biomarkers for neurodevelopmental disorders. , 2019, , .		0
372	Le symptÃme entre neurosciences et psychanalyse. ActualitÃ© de lâ€™au-delÃ du principe de plaisir. Figures De La Psychanalyse, 2020, nÃ° 40, 101-110.	0.0	0