

Michel Khrestchatisky

List of Publications by Year in descending order

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68
papers

4,811
citations

101496

36
h-index

95218

68
g-index

69
all docs

69
docs citations

69
times ranked

7703
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic therapeutic peptides: science and market. <i>Drug Discovery Today</i> , 2010, 15, 40-56.	3.2	1,215
2	The Human Nose Harbors a Niche of Olfactory Ectomesenchymal Stem Cells Displaying Neurogenic and Osteogenic Properties. <i>Stem Cells and Development</i> , 2010, 19, 853-866.	1.1	205
3	Metzincin Proteases and Their Inhibitors: Foes or Friends in Nervous System Physiology?. <i>Journal of Neuroscience</i> , 2010, 30, 15337-15357.	1.7	204
4	Neuronal activity-dependent increase of net matrix metalloproteinase activity is associated with MMP-9 neurotoxicity after kainate. <i>European Journal of Neuroscience</i> , 2003, 18, 1507-1517.	1.2	161
5	Temporal gene profiling of the 5XFAD transgenic mouse model highlights the importance of microglial activation in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2014, 9, 33.	4.4	138
6	Tissue Inhibitor of Metalloproteinases-1 (TIMP-1) Is Differentially Induced in Neurons and Astrocytes after Seizures: Evidence for Developmental, Immediate Early Gene, and Lesion Response. <i>Journal of Neuroscience</i> , 1997, 17, 4223-4235.	1.7	133
7	Gelatinase B and TIMP-1 are regulated in a cell- and time-dependent manner in association with neuronal death and glial reactivity after global forebrain ischemia. <i>European Journal of Neuroscience</i> , 2002, 15, 19-32.	1.2	132
8	TWEAK is expressed by glial cells, induces astrocyte proliferation and increases EAE severity. <i>Journal of Neuroimmunology</i> , 2002, 133, 116-123.	1.1	122
9	Matrix metalloproteinase-2 (MMP-2) regulates astrocyte motility in connection with the actin cytoskeleton and integrins. <i>Glia</i> , 2006, 54, 272-284.	2.5	116
10	Cholecalciferol (Vitamin D3) Improves Myelination and Recovery after Nerve Injury. <i>PLoS ONE</i> , 2013, 8, e65034.	1.1	108
11	Differential vesicular distribution and trafficking of MMP-2, MMP-9, and their inhibitors in astrocytes. <i>Glia</i> , 2010, 58, 344-366.	2.5	105
12	Engraftment of human nasal olfactory stem cells restores neuroplasticity in mice with hippocampal lesions. <i>Journal of Clinical Investigation</i> , 2011, 121, 2808-2820.	3.9	101
13	MT5-MMP is a new pro-amyloidogenic proteinase that promotes amyloid pathology and cognitive decline in a transgenic mouse model of Alzheimer's disease. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 217-236.	2.4	96
14	Vitamin D ₂ Potentiates Axon Regeneration. <i>Journal of Neurotrauma</i> , 2008, 25, 1247-1256.	1.7	93
15	Onset of hippocampus-dependent memory impairments in 5XFAD transgenic mouse model of Alzheimer's disease. <i>Hippocampus</i> , 2014, 24, 762-772.	0.9	89
16	Vesicular trafficking and secretion of matrix metalloproteinases-2, -9 and tissue inhibitor of metalloproteinases-1 in neuronal cells. <i>Molecular and Cellular Neurosciences</i> , 2008, 39, 549-568.	1.0	84
17	RAGE-TXNIP axis is required for S100B-promoted Schwann cell migration, fibronectin expression and cytokine secretion. <i>Journal of Cell Science</i> , 2010, 123, 4332-4339.	1.2	79
18	Evidence for Early Cognitive Impairment Related to Frontal Cortex in the 5XFAD Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2013, 33, 781-796.	1.2	79

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19	Area-Specific Alterations of Synaptic Plasticity in the 5XFAD Mouse Model of Alzheimer's Disease: Dissociation between Somatosensory Cortex and Hippocampus. PLoS ONE, 2013, 8, e74667.	1.1	78
20	Tissue inhibitor of metalloproteinases-1 (TIMP-1) modulates neuronal death, axonal plasticity, and learning and memory. European Journal of Neuroscience, 2005, 22, 2569-2578.	1.2	75
21	Medicinal Chemistry Based Approaches and Nanotechnology-Based Systems to Improve CNS Drug Targeting and Delivery. Medicinal Research Reviews, 2013, 33, 457-516.	5.0	74
22	Metalloproteinases and their tissue inhibitors in Alzheimer's disease and other neurodegenerative disorders. Cellular and Molecular Life Sciences, 2019, 76, 3167-3191.	2.4	73
23	Chemical Optimization of New Ligands of the Low-Density Lipoprotein Receptor as Potential Vectors for Central Nervous System Targeting. Journal of Medicinal Chemistry, 2012, 55, 2227-2241.	2.9	71
24	Use of LDL receptor-targeting peptide vectors for in vitro and in vivo cargo transport across the blood-brain barrier. FASEB Journal, 2017, 31, 1807-1827.	0.2	68
25	Differential spatio-temporal regulation of MMPs in the 5xFAD mouse model of Alzheimer's disease: evidence for a pro-amyloidogenic role of MT1-MMP. Frontiers in Aging Neuroscience, 2014, 6, 247.	1.7	60
26	Developmental vitamin D deficiency alters learning in C57Bl/6J mice. Behavioural Brain Research, 2010, 208, 603-608.	1.2	59
27	TWEAK/Fn14 pathway modulates properties of a human microvascular endothelial cell model of blood brain barrier. Journal of Neuroinflammation, 2013, 10, 9.	3.1	56
28	Tissue inhibitor of matrix metalloproteinases-1 loaded poly(lactic-co-glycolic acid) nanoparticles for delivery across the blood-brain barrier. International Journal of Nanomedicine, 2014, 9, 575.	3.3	50
29	A New Role for TIMP-1 in Modulating Neurite Outgrowth and Morphology of Cortical Neurons. PLoS ONE, 2009, 4, e8289.	1.1	49
30	Severity of experimental autoimmune encephalomyelitis is unexpectedly reduced in mice born to vitamin D-deficient mothers. Journal of Steroid Biochemistry and Molecular Biology, 2010, 121, 250-253.	1.2	47
31	Olfactory Stem Cells, a New Cellular Model for Studying Molecular Mechanisms Underlying Familial Dysautonomia. PLoS ONE, 2010, 5, e15590.	1.1	46
32	Setting-up an In Vitro Model of Rat Blood-brain Barrier (BBB): A Focus on BBB Impermeability and Receptor-mediated Transport. Journal of Visualized Experiments, 2014, , e51278.	0.2	46
33	Role of Matrix Metalloproteinases in Migration and Neurotrophic Properties of Nasal Olfactory Stem and Ensheathing Cells. Cell Transplantation, 2013, 22, 993-1010.	1.2	41
34	Trafficking and secretion of matrix metalloproteinase-2 in olfactory ensheathing glial cells: A role in cell migration?. Glia, 2011, 59, 750-770.	2.5	40
35	LRP-1-CD44, a New Cell Surface Complex Regulating Tumor Cell Adhesion. Molecular and Cellular Biology, 2012, 32, 3293-3307.	1.1	40
36	Endogenous and synthetic MMP inhibitors in CNS physiopathology. Progress in Brain Research, 2014, 214, 313-351.	0.9	39

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37	Low-Density Lipoprotein Receptor-Related Protein-1 Mediates Endocytic Clearance of Tissue Inhibitor of Metalloproteinases-1 and Promotes Its Cytokine-Like Activities. <i>PLoS ONE</i> , 2014, 9, e103839.	1.1	35
38	MT5-MMP Promotes Alzheimer's Pathogenesis in the Frontal Cortex of 5xFAD Mice and APP Trafficking in vitro. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 163.	1.4	34
39	TWEAK is expressed at the cell surface of monocytes during multiple sclerosis. <i>Journal of Leukocyte Biology</i> , 2009, 85, 132-135.	1.5	33
40	The Potential Role of Metalloproteinases in Neurogenesis in the Gerbil Hippocampus Following Global Forebrain Ischemia. <i>PLoS ONE</i> , 2011, 6, e22465.	1.1	28
41	MT5-MMP, just a new APP processing proteinase in Alzheimer's disease?. <i>Journal of Neuroinflammation</i> , 2016, 13, 167.	3.1	26
42	Isolation and characterization of olfactory ecto-mesenchymal stem cells from eight mammalian genera. <i>BMC Veterinary Research</i> , 2018, 14, 17.	0.7	26
43	Proamyloidogenic effects of membrane type 1 matrix metalloproteinase involve MMP-2 and BACE-1 activities, and the modulation of APP trafficking. <i>FASEB Journal</i> , 2019, 33, 2910-2927.	0.2	25
44	Astrocyte reactivity to Fas activation is attenuated in TIMP-1 deficient mice, an in vitro study. <i>BMC Neuroscience</i> , 2005, 6, 68.	0.8	24
45	A unique method for the isolation of nasal olfactory stem cells in living rats. <i>Stem Cell Research</i> , 2014, 12, 673-679.	0.3	24
46	Identification of LRP-1 as an endocytosis and recycling receptor for β 21-integrin in thyroid cancer cells. <i>Oncotarget</i> , 2017, 8, 78614-78632.	0.8	24
47	Resuscitation of Newborn Piglets. Short-Term Influence of FiO2 on Matrix Metalloproteinases, Caspase-3 and BDNF. <i>PLoS ONE</i> , 2010, 5, e14261.	1.1	21
48	Peptide-based vectors for blood-brain barrier targeting and delivery of drugs to the central nervous system. <i>Therapeutic Delivery</i> , 2010, 1, 489-494.	1.2	20
49	Cholecalciferol (vitamin D 3) improves functional recovery when delivered during the acute phase after a spinal cord trauma. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 154, 23-31.	1.2	19
50	From Blood to Lesioned Brain: An In Vitro Study on Migration Mechanisms of Human Nasal Olfactory Stem Cells. <i>Stem Cells International</i> , 2017, 2017, 1-17.	1.2	18
51	Can the benefits of cannabinoid receptor stimulation on neuroinflammation, neurogenesis and memory during normal aging be useful in AD prevention?. <i>Journal of Neuroinflammation</i> , 2012, 9, 10.	3.1	15
52	Drebrin A expression is altered after pilocarpine-induced seizures: Time course of changes is consistent for a role in the integrity and stability of dendritic spines of hippocampal granule cells. <i>Hippocampus</i> , 2012, 22, 477-493.	0.9	14
53	Optimization and <i>in Vivo</i> Validation of Peptide Vectors Targeting the LDL Receptor. <i>Molecular Pharmaceutics</i> , 2016, 13, 4094-4105.	2.3	14
54	Grafts of Olfactory Stem Cells Restore Breathing and Motor Functions after Rat Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 1765-1780.	1.7	14

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55	Mapping of Domains on HIV Envelope Protein Mediating Association with Calnexin and Protein-disulfide Isomerase. <i>Journal of Biological Chemistry</i> , 2010, 285, 13788-13796.	1.6	13
56	Global cerebral ischemia in rats leads to amnesia due to selective neuronal death followed by astroglial scar formation in the CA1 layer. <i>Neurobiology of Learning and Memory</i> , 2017, 141, 168-178.	1.0	13
57	Syngeneic Transplantation of Olfactory Ectomesenchymal Stem Cells Restores Learning and Memory Abilities in a Rat Model of Global Cerebral Ischemia. <i>Stem Cells International</i> , 2018, 2018, 1-10.	1.2	13
58	High levels of serum soluble TWEAK are associated with neuroinflammation during multiple sclerosis. <i>Journal of Translational Medicine</i> , 2019, 17, 51.	1.8	13
59	Gene expression comparison reveals distinct basal expression of HOX members and differential TNF-induced response between brain- and spinal cord-derived microvascular endothelial cells. <i>Journal of Neuroinflammation</i> , 2016, 13, 290.	3.1	12
60	Long-Term Pantethine Treatment Counteracts Pathologic Gene Dysregulation and Decreases Alzheimer's Disease Pathogenesis in a Transgenic Mouse Model. <i>Neurotherapeutics</i> , 2019, 16, 1237-1254.	2.1	9
61	Identification and characterization of highly versatile peptide-vectors that bind non-competitively to the low-density lipoprotein receptor for in vivo targeting and delivery of small molecules and protein cargos. <i>PLoS ONE</i> , 2018, 13, e0191052.	1.1	9
62	MT5-MMP promotes neuroinflammation, neuronal excitability and A β production in primary neuron/astrocyte cultures from the 5xFAD mouse model of Alzheimer's disease. <i>Journal of Neuroinflammation</i> , 2022, 19, 65.	3.1	9
63	The FVB/N mice: A well suited strain to study learning and memory processes using olfactory cues. <i>Behavioural Brain Research</i> , 2016, 296, 254-259.	1.2	8
64	Neurotensin receptor 2 is induced in astrocytes and brain endothelial cells in relation to neuroinflammation following pilocarpine-induced seizures in rats. <i>Glia</i> , 2021, 69, 2618-2643.	2.5	8
65	MT5-MMP controls APP and β -CTF/C99 metabolism through proteolytic-dependent and -independent mechanisms relevant for Alzheimer's disease. <i>FASEB Journal</i> , 2021, 35, e21727.	0.2	6
66	LDL receptor-peptide conjugate as in vivo tool for specific targeting of pancreatic ductal adenocarcinoma. <i>Communications Biology</i> , 2021, 4, 987.	2.0	6
67	The actin binding protein β -actinin-2 expression is associated with dendritic spine plasticity and migrating granule cells in the rat dentate gyrus following pilocarpine-induced seizures. <i>Experimental Neurology</i> , 2021, 335, 113512.	2.0	5
68	The Helico Maze allows testing of early learning and subcategories of long-term memory in mice. <i>Behavioural Brain Research</i> , 2021, 406, 113242.	1.2	1