

Michel Khrestchatisky

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

3,833

citations

33

h-index

61

g-index

69

ext. papers

4,377

ext. citations

5.6

avg, IF

5.04

L-index

#	Paper	IF	Citations
67	Synthetic therapeutic peptides: science and market. <i>Drug Discovery Today</i> , 2010 , 15, 40-56	8.8	1014
66	Metzincin proteases and their inhibitors: foes or friends in nervous system physiology?. <i>Journal of Neuroscience</i> , 2010 , 30, 15337-57	6.6	172
65	The human nose harbors a niche of olfactory ectomesenchymal stem cells displaying neurogenic and osteogenic properties. <i>Stem Cells and Development</i> , 2010 , 19, 853-66	4.4	164
64	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, 1507-17	3.5	147
63	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, 4223-35	6.6	125
62	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	3.5	120
61	TWEAK is expressed by glial cells, induces astrocyte proliferation and increases EAE severity. <i>Journal of Neuroimmunology</i> , 2002 , 133, 116-23	3.5	112
60	Matrix metalloproteinase-2 (MMP-2) regulates astrocyte motility in connection with the actin cytoskeleton and integrins. <i>Glia</i> , 2006 , 54, 272-84	9	96
59	Differential vesicular distribution and trafficking of MMP-2, MMP-9, and their inhibitors in astrocytes. <i>Glia</i> , 2010 , 58, 344-66	9	90
58	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	19	88
57	Engraftment of human nasal olfactory stem cells restores neuroplasticity in mice with hippocampal lesions. <i>Journal of Clinical Investigation</i> , 2011 , 121, 2808-20	15.9	84
56	Cholecalciferol (vitamin D) improves myelination and recovery after nerve injury. <i>PLoS ONE</i> , 2013 , 8, e65034	3.7	83
55	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, 549-68	4.8	78
54	Vitamin D2 potentiates axon regeneration. <i>Journal of Neurotrauma</i> , 2008 , 25, 1247-56	5.4	74
53	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, 217-36	10.3	68
52	RAGE-TXNIP axis is required for S100B-promoted Schwann cell migration, fibronectin expression and cytokine secretion. <i>Journal of Cell Science</i> , 2010 , 123, 4332-9	5.3	63
51	Tissue inhibitor of metalloproteinases-1 (TIMP-1) modulates neuronal death, axonal plasticity, and learning and memory. <i>European Journal of Neuroscience</i> , 2005 , 22, 2569-78	3.5	62

50	Evidence for early cognitive impairment related to frontal cortex in the 5XFAD mouse model of Alzheimer's disease. <i>Journal of Alzheimerts Disease</i> , 2013 , 33, 781-96	4.3	58
49	Medicinal chemistry based approaches and nanotechnology-based systems to improve CNS drug targeting and delivery. <i>Medicinal Research Reviews</i> , 2013 , 33, 457-516	14.4	56
48	Onset of hippocampus-dependent memory impairments in 5XFAD transgenic mouse model of Alzheimer's disease. <i>Hippocampus</i> , 2014 , 24, 762-72	3.5	55
47	Chemical optimization of new ligands of the low-density lipoprotein receptor as potential vectors for central nervous system targeting. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 2227-41	8.3	53
46	Area-specific alterations of synaptic plasticity in the 5XFAD mouse model of Alzheimer's disease: dissociation between somatosensory cortex and hippocampus. <i>PLoS ONE</i> , 2013 , 8, e74667	3.7	53
45	Developmental vitamin D deficiency alters learning in C57Bl/6J mice. <i>Behavioural Brain Research</i> , 2010 , 208, 603-8	3.4	52
44	A new role for TIMP-1 in modulating neurite outgrowth and morphology of cortical neurons. <i>PLoS ONE</i> , 2009 , 4, e8289	3.7	46
43	Use of LDL receptor-targeting peptide vectors for and cargo transport across the blood-brain barrier. <i>FASEB Journal</i> , 2017 , 31, 1807-1827	0.9	45
42	Differential spatio-temporal regulation of MMPs in the 5xHAD mouse model of Alzheimer's disease: evidence for a pro-amyloidogenic role of MT1-MMP. <i>Frontiers in Aging Neuroscience</i> , 2014 , 6, 247	5.3	45
41	TWEAK/Fn14 pathway modulates properties of a human microvascular endothelial cell model of blood brain barrier. <i>Journal of Neuroinflammation</i> , 2013 , 10, 9	10.1	44
40	Metalloproteinases and their tissue inhibitors in Alzheimer's disease and other neurodegenerative disorders. <i>Cellular and Molecular Life Sciences</i> , 2019 , 76, 3167-3191	10.3	41
39	Tissue inhibitor of matrix metalloproteinases-1 loaded poly(lactic-co-glycolic acid) nanoparticles for delivery across the blood-brain barrier. <i>International Journal of Nanomedicine</i> , 2014 , 9, 575-88	7.3	40
38	Olfactory stem cells, a new cellular model for studying molecular mechanisms underlying familial dysautonomia. <i>PLoS ONE</i> , 2010 , 5, e15590	3.7	40
37	Severity of experimental autoimmune encephalomyelitis is unexpectedly reduced in mice born to vitamin D-deficient mothers. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010 , 121, 250-3	5.1	40
36	Role of matrix metalloproteinases in migration and neurotrophic properties of nasal olfactory stem and ensheathing cells. <i>Cell Transplantation</i> , 2013 , 22, 993-1010	4	34
35	LRP-1-CD44, a new cell surface complex regulating tumor cell adhesion. <i>Molecular and Cellular Biology</i> , 2012 , 32, 3293-307	4.8	33
34	Trafficking and secretion of matrix metalloproteinase-2 in olfactory ensheathing glial cells: A role in cell migration?. <i>Glia</i> , 2011 , 59, 750-70	9	32
33	TWEAK is expressed at the cell surface of monocytes during multiple sclerosis. <i>Journal of Leukocyte Biology</i> , 2009 , 85, 132-5	6.5	32

32	Setting-up an in vitro model of rat blood-brain barrier (BBB): a focus on BBB impermeability and receptor-mediated transport. <i>Journal of Visualized Experiments</i> , 2014 , e51278	1.6	31
31	Endogenous and synthetic MMP inhibitors in CNS physiopathology. <i>Progress in Brain Research</i> , 2014 , 214, 313-51	2.9	28
30	The potential role of metalloproteinases in neurogenesis in the gerbil hippocampus following global forebrain ischemia. <i>PLoS ONE</i> , 2011 , 6, e22465	3.7	26
29	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	3.7	24
28	MT5-MMP Promotes Alzheimer's Pathogenesis in the Frontal Cortex of 5xFAD Mice and APP Trafficking. <i>Frontiers in Molecular Neuroscience</i> , 2016 , 9, 163	6.1	21
27	Astrocyte reactivity to Fas activation is attenuated in TIMP-1 deficient mice, an in vitro study. <i>BMC Neuroscience</i> , 2005 , 6, 68	3.2	20
26	A unique method for the isolation of nasal olfactory stem cells in living rats. <i>Stem Cell Research</i> , 2014 , 12, 673-9	1.6	19
25	Resuscitation of newborn piglets. short-term influence of FiO2 on matrix metalloproteinases, caspase-3 and BDNF. <i>PLoS ONE</i> , 2010 , 5, e14261	3.7	17
24	MT5-MMP, just a new APP processing proteinase in Alzheimer's disease?. <i>Journal of Neuroinflammation</i> , 2016 , 13, 167	10.1	16
23	Isolation and characterization of olfactory ecto-mesenchymal stem cells from eight mammalian genera. <i>BMC Veterinary Research</i> , 2018 , 14, 17	2.7	15
22	Identification of LRP-1 as an endocytosis and recycling receptor for β -integrin in thyroid cancer cells. <i>Oncotarget</i> , 2017 , 8, 78614-78632	3.3	15
21	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	0.9	15
20	Cholecalciferol (vitamin D) 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	5.1	13
19	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, 1478606	5	13
18	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, 477-93	3.5	12
17	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	10.1	11
16	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	3.1	10
15	Grafts of Olfactory Stem Cells Restore Breathing and Motor Functions after Rat Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2018 , 35, 1765-1780	5.4	10

14	Mapping of domains on HIV envelope protein mediating association with calnexin and protein-disulfide isomerase. <i>Journal of Biological Chemistry</i> , 2010 , 285, 13788-96	5.4	10
13	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	10.1	10
12	Optimization and in Vivo Validation of Peptide Vectors Targeting the LDL Receptor. <i>Molecular Pharmaceutics</i> , 2016 , 13, 4094-4105	5.6	8
11	High levels of serum soluble TWEAK are associated with neuroinflammation during multiple sclerosis. <i>Journal of Translational Medicine</i> , 2019 , 17, 51	8.5	7
10	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	3.4	6
9	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, 2683989	5.9	6
8	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	3.7	4
7	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	6.4	3
6	The actin binding protein F-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	5.7	3
5	MT5-MMP controls APP and ECTF/C99 metabolism through proteolytic-dependent and -independent mechanisms relevant for Alzheimer's disease. <i>FASEB Journal</i> , 2021 , 35, e21727	0.9	2
4	The Helico Maze allows testing of early learning and subcategories of long-term memory in mice. <i>Behavioural Brain Research</i> , 2021 , 406, 113242	3.4	1
3	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	9	1
2	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	10.1	1
1	LDL receptor-peptide conjugate as in vivo tool for specific targeting of pancreatic ductal adenocarcinoma. <i>Communications Biology</i> , 2021 , 4, 987	6.7	0