Humberto Mestre

List of Publications by Year
in descending order

37 papers	4,809 citations	279798 23 h-index	345221 36 g-index
44 all docs	44 docs citations	44 times ranked	4191 citing authors

#	Article	IF	Citations
1	Fluid transport in the brain. Physiological Reviews, 2022, 102, 1025-1151.	28.8	192
2	Cerebrospinal fluid is a significant fluid source for anoxic cerebral oedema. Brain, 2022, 145, 787-797.	7.6	23
3	Bulk flow of cerebrospinal fluid observed in periarterial spaces is not an artifact of injection. ELife, 2021, 10, .	6.0	46
4	Surface periarterial spaces of the mouse brain are open, not porous. Journal of the Royal Society Interface, 2020, 17, 20200593.	3.4	30
5	The Brainâ€™s Glymphatic System: Current Controversies. Trends in Neurosciences, 2020, 43, 458-466.	8.6	319
6	Perivascular spaces in the brain: anatomy, physiology and pathology. Nature Reviews Neurology, 2020, 16, 137-153.	10.1	405
7	Glymphatic System Impairment in Alzheimerâ€™s Disease and Idiopathic Normal Pressure Hydrocephalus. Trends in Molecular Medicine, 2020, 26, 285-295.	6.7	206
8	Cerebrospinal fluid influx drives acute ischemic tissue swelling. Science, 2020, 367, .	12.6	300
9	Direct Measurement of Cerebrospinal Fluid Production in Mice. Cell Reports, 2020, 33, 108524.	6.4	66
10	In Vivo Imaging of Cerebrospinal Fluid Transport through the Intact Mouse Skull using Fluorescence Macroscopy. Journal of Visualized Experiments, 2019, , .	0.3	14
11	Impaired Glymphatic Transport in Spontaneously Hypertensive Rats. Journal of Neuroscience, 2019, 39, 6365-6377.	3.6	131
12	Hydraulic resistance of periarterial spaces in the brain. Fluids and Barriers of the CNS, 2019, 16, 19.	5.0	68
13	Adrenergic receptor antagonism induces neuroprotection and facilitates recovery from acute ischemic stroke. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11010-11019.	7.1	35
14	Longitudinal shear waves for elastic characterization of tissues in optical coherence elastography. Biomedical Optics Express, 2019, 10, 3699.	2.9	28
15	Gabor domain optical coherence microscopy combined with laser scanning confocal fluorescence microscopy. Biomedical Optics Express, 2019, 10, 6242.	2.9	5
16	A preliminary study on using reverberant shear wave fields in optical coherence elastography to examine mice brain ex vivo. , 2019, , .		3
17	Flow of cerebrospinal fluid is driven by arterial pulsations and is reduced in hypertension. Nature Communications, 2018, 9, 4878.	12.8	550
18	The glymphatic pathway in neurological disorders. Lancet Neurology, The, 2018, 17, 1016-1024.	10.2	831

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19	Transcranial optical imaging reveals a pathway for optimizing the delivery of immunotherapeutics to the brain. JCI Insight, 2018, 3, .	5.0	64
20	Aquaporin-4-dependent glymphatic solute transport in the rodent brain. ELife, 2018, 7, .	6.0	365
21	Perivascular spaces, glymphatic dysfunction, and small vessel disease. Clinical Science, 2017, 131, 2257-2274.	4.3	226
22	Glymphatic clearance controls state-dependent changes in brain lactate concentration. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2112-2124.	4.3	208
23	Suppression of glymphatic fluid transport in a mouse model of Alzheimer's disease. Neurobiology of Disease, 2016, 93, 215-225.	4.4	377
24	Lewis, Fischer 344, and Sprague-Dawley Rats Display Differences in Lipid Peroxidation, Motor Recovery, and Rubrospinal Tract Preservation after Spinal Cord Injury. Frontiers in Neurology, 2015, 6, 108.	2.4	10
25	Microvascular Dysfunction after Spinal Cord Injury. , 2015, , 153-174.		1
26	Copolymer-1 Promotes Neurogenesis and Improves Functional Recovery after Acute Ischemic Stroke in Rats. PLoS ONE, 2015, 10, e0121854.	2.5	25
27	Prophylactic neuroprotection with A91 improves the outcome of spinal cord injured rats. Neuroscience Letters, 2013, 554, 59-63.	2.1	14
28	Monocyte Locomotion Inhibitory Factor Produced by<i>E. histolytica</i>Improves Motor Recovery and Develops Neuroprotection after Traumatic Injury to the Spinal Cord. BioMed Research International, 2013, 2013, 1-10.	1.9	8
29	Therapeutic Window for Combination Therapy of A91 Peptide and Glutathione Allows Delayed Treatment After Spinal Cord Injury. Basic and Clinical Pharmacology and Toxicology, 2013, 112, 314-318.	2.5	16
30	Immunization with a Neural-Derived Peptide Protects the Spinal Cord from Apoptosis after Traumatic Injury. BioMed Research International, 2013, 2013, 1-8.	1.9	18
31	Nestin Overexpression Precedes Caspase-3 Upregulation in Rats Exposed to Controlled Cortical Impact Traumatic Brain Injury. Cell Medicine, 2012, 4, 55-63.	5.0	22
32	Development of Protective Autoimmunity by Immunization with a Neural-Derived Peptide Is Ineffective in Severe Spinal Cord Injury. PLoS ONE, 2012, 7, e32027.	2.5	25
33	Autoreactivity against myelin basic protein in patients with chronic paraplegia. European Spine Journal, 2012, 21, 964-970.	2.2	37
34	Immunization with A91 peptide or copolymerâ€1 reduces the production of nitric oxide and inducible nitric oxide synthase gene expression after spinal cord injury. Journal of Neuroscience Research, 2012, 90, 656-663.	2.9	33
35	Spinal cord injury sequelae alter drug pharmacokinetics: an overview. Spinal Cord, 2011, 49, 955-960.	1.9	28
36	Immunization with neural-derived antigens inhibits lipid peroxidation after spinal cord injury. Neuroscience Letters, 2010, 476, 62-65.	2.1	37

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37	Immunization with Neural-Derived Peptides as a Potential Therapy in Neurodegenerative Diseases. , 0, , .		1