

James P Mcallister

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,922
citations

126907

33
h-index

189892

50
g-index

83
all docs

83
docs citations

83
times ranked

2081
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathophysiology of congenital and neonatal hydrocephalus. <i>Seminars in Fetal and Neonatal Medicine</i> , 2012, 17, 285-294.	2.3	148
2	Exercise preconditioning ameliorates inflammatory injury in ischemic rats during reperfusion. <i>Acta Neuropathologica</i> , 2005, 109, 237-246.	7.7	124
3	Neonatal Hydrocephalus. <i>Neurosurgery Clinics of North America</i> , 1998, 9, 73-93.	1.7	113
4	Reduction of astrogliosis and microgliosis by cerebrospinal fluid shunting in experimental hydrocephalus. <i>Cerebrospinal Fluid Research</i> , 2007, 4, 5.	0.5	91
5	An update on research priorities in hydrocephalus: overview of the third National Institutes of Health-sponsored symposium "Opportunities for Hydrocephalus Research: Pathways to Better Outcomes". <i>Journal of Neurosurgery</i> , 2015, 123, 1427-1438.	1.6	87
6	Local Saline Infusion into Ischemic Territory Induces Regional Brain Cooling and Neuroprotection in Rats with Transient Middle Cerebral Artery Occlusion. <i>Neurosurgery</i> , 2004, 54, 956-965.	1.1	86
7	Ventricular Zone Disruption in Human Neonates With Intraventricular Hemorrhage. <i>Journal of Neuropathology and Experimental Neurology</i> , 2017, 76, 358-375.	1.7	83
8	Neuronal effects of experimentally induced hydrocephalus in newborn rats. <i>Journal of Neurosurgery</i> , 1985, 63, 776-783.	1.6	82
9	A cell junction pathology of neural stem cells leads to abnormal neurogenesis and hydrocephalus. <i>Biological Research</i> , 2012, 45, 231-241.	3.4	78
10	What We Should Know About the Cellular and Tissue Response Causing Catheter Obstruction in the Treatment of Hydrocephalus. <i>Neurosurgery</i> , 2012, 70, 1589-1602.	1.1	74
11	Reactive astrogliosis, microgliosis and inflammation in rats with neonatal hydrocephalus. <i>Experimental Neurology</i> , 2010, 226, 110-119.	4.1	73
12	Cell Junction Pathology of Neural Stem Cells Is Associated With Ventricular Zone Disruption, Hydrocephalus, and Abnormal Neurogenesis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2015, 74, 653-671.	1.7	72
13	Progression of Experimental Infantile Hydrocephalus and Effects of Ventriculoperitoneal Shunts: An Analysis Correlating Magnetic Resonance Imaging with Gross Morphology. <i>Neurosurgery</i> , 1991, 29, 329-340.	1.1	64
14	Improvement of Cortical Morphology in Infantile Hydrocephalic Animals after Ventriculoperitoneal Shunt Placement. <i>Neurosurgery</i> , 1992, 31, 1085-1096.	1.1	64
15	Cytological and Cytoarchitectural Changes in the Feline Cerebral Cortex during Experimental Infantile Hydrocephalus. <i>Pediatric Neurosurgery</i> , 1990, 16, 139-155.	0.7	56
16	Effects of Hydrocephalus and Surgical Decompression on Cortical Norepinephrine Levels in Neonatal Cats. <i>Neurosurgery</i> , 1989, 24, 43-52.	1.1	55
17	Chemokine and cytokine levels in the lumbar cerebrospinal fluid of preterm infants with post-hemorrhagic hydrocephalus. <i>Fluids and Barriers of the CNS</i> , 2017, 14, 35.	5.0	55
18	Communicating hydrocephalus in adult rats with kaolin obstruction of the basal cisterns or the cortical subarachnoid space. <i>Experimental Neurology</i> , 2008, 211, 351-361.	4.1	51

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19	Identification of acetylcholinesterase-reactive neurons and neuropil in neostriatal transplants. <i>Journal of Comparative Neurology</i> , 1987, 259, 1-12.	1.6	49
20	Improvement of Cortical Morphology in Infantile Hydrocephalic Animals after Ventriculoperitoneal Shunt Placement. <i>Neurosurgery</i> , 1992, 31, 1085-1096.	1.1	49
21	Regional brain cooling induced by vascular saline infusion into ischemic territory reduces brain inflammation in stroke. <i>Acta Neuropathologica</i> , 2004, 107, 227-234.	7.7	48
22	Priorities for hydrocephalus research: report from a National Institutes of Health-sponsored workshop. <i>Journal of Neurosurgery: Pediatrics</i> , 2007, 107, 345-357.	1.3	48
23	Intraventricular infusion of hyperosmolar dextran induces hydrocephalus: a novel animal model of hydrocephalus. <i>Cerebrospinal Fluid Research</i> , 2009, 6, 16.	0.5	47
24	Axonal damage associated with enlargement of ventricles during hydrocephalus: A silver impregnation study. <i>Neurological Research</i> , 2001, 23, 581-587.	1.3	44
25	Does drainage hole size influence adhesion on ventricular catheters?. <i>Child's Nervous System</i> , 2011, 27, 1221-1232.	1.1	42
26	Mechanical contributions to astrocyte adhesion using a novel in vitro model of catheter obstruction. <i>Experimental Neurology</i> , 2010, 222, 204-210.	4.1	41
27	Blood Exposure Causes Ventricular Zone Disruption and Glial Activation In Vitro. <i>Journal of Neuropathology and Experimental Neurology</i> , 2018, 77, 803-813.	1.7	41
28	Minocycline inhibits glial proliferation in the H-Tx rat model of congenital hydrocephalus. <i>Cerebrospinal Fluid Research</i> , 2010, 7, 7.	0.5	38
29	Minimal connectivity between neostriatal transplants and the host brain. <i>Brain Research</i> , 1987, 425, 34-44.	2.2	37
30	Reduced inflammatory mediator expression by pre-reperfusion infusion into ischemic territory in rats: a real-time polymerase chain reaction analysis. <i>Neuroscience Letters</i> , 2003, 353, 173-176.	2.1	37
31	Immobilization of polysaccharides on a fluorinated silicon surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 47, 57-63.	5.0	36
32	Diffusion tensor imaging correlates with cytopathology in a rat model of neonatal hydrocephalus. <i>Cerebrospinal Fluid Research</i> , 2010, 7, 19.	0.5	36
33	What we don't (but should) know about hydrocephalus. <i>Journal of Neurosurgery: Pediatrics</i> , 2006, 104, 157-159.	1.3	35
34	Opportunities in posthemorrhagic hydrocephalus research: outcomes of the Hydrocephalus Association Posthemorrhagic Hydrocephalus Workshop. <i>Fluids and Barriers of the CNS</i> , 2018, 15, 11.	5.0	35
35	Effect of surface modification of silicone on Staphylococcus epidermidis adhesion and colonization. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 885-894.	4.0	33
36	Evaluation of polymer and self-assembled monolayer-coated silicone surfaces to reduce neural cell growth. <i>Biomaterials</i> , 2006, 27, 1519-1526.	11.4	32

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37	Reactive astrocytosis in feline neonatal hydrocephalus: acute, chronic, and shunt-induced changes. <i>Child's Nervous System</i> , 2011, 27, 2067-2076.	1.1	31
38	Monoamine Alterations during Experimental Hydrocephalus in Neonatal Rats. <i>Neurosurgery</i> , 1988, 22, 86-91.	1.1	30
39	Effect of surface proteins on <i>Staphylococcus Epidermidis</i> adhesion and colonization on silicone. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 51, 16-24.	5.0	28
40	Reduction of protein adsorption and macrophage and astrocyte adhesion on ventricular catheters by polyethylene glycol and <i>N</i> -acetyl-L-cysteine. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 98A, 425-433.	4.0	28
41	Diffusion tensor imaging of white matter injury in a rat model of infantile hydrocephalus. <i>Child's Nervous System</i> , 2012, 28, 47-54.	1.1	28
42	Effects of congenital hydrocephalus on the hypothalamic gonadotrophin-releasing hormone system. <i>Neurosurgical Focus</i> , 2007, 22, 1-10.	2.3	27
43	Effects of surface wettability, flow, and protein concentration on macrophage and astrocyte adhesion in an <i>in vitro</i> model of central nervous system catheter obstruction. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 97A, 433-440.	4.0	27
44	Cerebrospinal Fluid Levels of Amyloid Precursor Protein Are Associated with Ventricular Size in Post-Hemorrhagic Hydrocephalus of Prematurity. <i>PLoS ONE</i> , 2015, 10, e0115045.	2.5	27
45	Effects of hydrocephalus and ventriculoperitoneal shunt therapy on afferent and efferent connections in the feline sensorimotor cortex. <i>Journal of Neurosurgery: Pediatrics</i> , 2004, 101, 196-210.	1.3	26
46	Long-term neuroprotection induced by regional brain cooling with saline infusion into ischemic territory in rats: a behavioral analysis. <i>Neurological Research</i> , 2004, 26, 677-683.	1.3	25
47	Role of the subcommissural organ in the pathogenesis of congenital hydrocephalus in the HTx rat. <i>Cell and Tissue Research</i> , 2013, 352, 707-725.	2.9	25
48	Kaolin-induced ventriculomegaly at weaning produces long-term learning, memory, and motor deficits in rats. <i>International Journal of Developmental Neuroscience</i> , 2014, 35, 7-15.	1.6	25
49	The value of early and comprehensive diagnoses in a human fetus with hydrocephalus and progressive obliteration of the aqueduct of Sylvius: Case Report. <i>BMC Neurology</i> , 2016, 16, 45.	1.8	25
50	Differential vulnerability of white matter structures to experimental infantile hydrocephalus detected by diffusion tensor imaging. <i>Child's Nervous System</i> , 2014, 30, 1651-1661.	1.1	24
51	Lumbar Cerebrospinal Fluid Biomarkers of Posthemorrhagic Hydrocephalus of Prematurity: Amyloid Precursor Protein, Soluble Amyloid Precursor Protein β_{1-42} , and L1 Cell Adhesion Molecule. <i>Neurosurgery</i> , 2017, 80, 82-90.	1.1	24
52	Cerebrospinal fluid biomarkers of infantile congenital hydrocephalus. <i>PLoS ONE</i> , 2017, 12, e0172353.	2.5	21
53	Minimal connectivity between six month neostriatal transplants and the host substantia nigra. <i>Brain Research</i> , 1989, 476, 345-350.	2.2	20
54	Cerebrospinal Fluid Biomarkers of Pediatric Hydrocephalus. <i>Pediatric Neurosurgery</i> , 2017, 52, 426-435.	0.7	19

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55	Quantitative analysis of dendrites from transplanted neostriatal neurons. <i>Brain Research</i> , 1987, 414, 149-152.	2.2	17
56	Low levels of amyloid-beta and its transporters in neonatal rats with and without hydrocephalus. <i>Cerebrospinal Fluid Research</i> , 2009, 6, 4.	0.5	17
57	Neocortical Capillary Flow Pulsatility is Not Elevated in Experimental Communicating Hydrocephalus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 318-329.	4.3	17
58	A Novel Experimental Animal Model of Adult Chronic Hydrocephalus. <i>Neurosurgery</i> , 2016, 79, 746-756.	1.1	17
59	Preterm intraventricular hemorrhage in vitro: modeling the cytopathology of the ventricular zone. <i>Fluids and Barriers of the CNS</i> , 2020, 17, 46.	5.0	17
60	Acquired hydrocephalus is associated with neuroinflammation, progenitor loss, and cellular changes in the subventricular zone and periventricular white matter. <i>Fluids and Barriers of the CNS</i> , 2022, 19, 17.	5.0	16
61	Stability of and inflammatory response to silicon coated with a fluoroalkyl self-assembled monolayer in the central nervous system. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 81A, 363-372.	4.0	15
62	Effect of cast molded rifampicin/silicone on staphylococcus epidermidis biofilm formation. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 580-588.	4.0	14
63	Cerebrospinal fluid biomarkers of neuroinflammation in children with hydrocephalus and shunt malfunction. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 4.	5.0	14
64	A technique for placing ventriculoperitoneal shunts in a neonatal model of hydrocephalus. <i>Journal of Neuroscience Methods</i> , 1989, 29, 201-206.	2.5	12
65	Gliosis and ganglion cell death in the developing cat retina during hydrocephalus and after decompression. <i>Developmental Brain Research</i> , 1992, 70, 47-52.	1.7	12
66	Effect of delayed intermittent ventricular drainage on ventriculomegaly and neurological deficits in experimental neonatal hydrocephalus. <i>Child's Nervous System</i> , 2012, 28, 1849-1861.	1.1	12
67	Characterization of a multicenter pediatric-hydrocephalus shunt biobank. <i>Fluids and Barriers of the CNS</i> , 2020, 17, 45.	5.0	12
68	Neural stem cell therapy of foetal onset hydrocephalus using the HTx rat as experimental model. <i>Cell and Tissue Research</i> , 2020, 381, 141-161.	2.9	10
69	A multicenter retrospective study of heterogeneous tissue aggregates obstructing ventricular catheters explanted from patients with hydrocephalus. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 33.	5.0	10
70	Feasibility of fast brain diffusion MRI to quantify white matter injury in pediatric hydrocephalus. <i>Journal of Neurosurgery: Pediatrics</i> , 2019, 24, 461-468.	1.3	10
71	Genetics and Molecular Pathogenesis of Human Hydrocephalus. <i>Neurology India</i> , 2021, 69, 268.	0.4	10
72	A novel model of acquired hydrocephalus for evaluation of neurosurgical treatments. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 49.	5.0	9

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73	Tritiated Thymidine Identification of Embryonic Neostriatal Transplants. Annals of the New York Academy of Sciences, 1987, 495, 745-748.	3.8	8
74	Microstructural Periventricular White Matter Injury in Post-hemorrhagic Ventricular Dilatation. Neurology, 2022, 98, .	1.1	8
75	Experimental Hydrocephalus. , 2011, , 2002-2008.		6
76	Biochemical profile of human infant cerebrospinal fluid in intraventricular hemorrhage and post-hemorrhagic hydrocephalus of prematurity. Fluids and Barriers of the CNS, 2021, 18, 62.	5.0	6
77	Transplants of Neostriatal Primordia Contain Acetylcholinesterase-positive Neurons. Annals of the New York Academy of Sciences, 1987, 495, 749-752.	3.8	4
78	The effect of self-assembled layers on the release behavior of rifampicin-loaded silicone. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 687-700.	3.5	2
79	Decreased c-fos expression in experimental neonatal hydrocephalus: evidence for reduced neuronal activation. Neurosurgical Focus, 1999, 7, E14.	2.3	1
80	Experimental Hydrocephalus. , 2019, , 37-51.		1
81	Analysis of Nâ€acetyl cysteine modified polydimethylsiloxane shunt for improved treatment of hydrocephalus. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1177-1187.	3.4	1
82	Experimental Hydrocephalus. , 2018, , 1-18.		0