

Robert J Dempsey

List of Publications by Year in descending order

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67
papers

2,666
citations

236925

25
h-index

197818

49
g-index

69
all docs

69
docs citations

69
times ranked

3431
citing authors

#	ARTICLE	IF	CITATIONS
1	Monocyte Chemoattractant Protein-1 Plays a Critical Role in Neuroblast Migration after Focal Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 1213-1224.	4.3	245
2	Role of circular RNAs in brain development and CNS diseases. <i>Progress in Neurobiology</i> , 2020, 186, 101746.	5.7	195
3	Global Neurosurgery: The Unmet Need. <i>World Neurosurgery</i> , 2016, 88, 32-35.	1.3	183
4	Traumatic Brain Injury Downregulates Glial Glutamate Transporter (GLT-1 and GLAST) Proteins in Rat Brain. <i>Journal of Neurochemistry</i> , 1998, 70, 2020-2027.	3.9	182
5	Stroke-induced progenitor cell proliferation in adult spontaneously hypertensive rat brain: effect of exogenous IGF-1 and GDNF. <i>Journal of Neurochemistry</i> , 2003, 87, 586-597.	3.9	162
6	GeneChip [®] analysis after acute spinal cord injury in rat. <i>Journal of Neurochemistry</i> , 2001, 79, 804-815.	3.9	134
7	Resveratrol neuroprotection in stroke and traumatic CNS injury. <i>Neurochemistry International</i> , 2015, 89, 75-82.	3.8	130
8	Transient focal cerebral ischemia down-regulates glutamate transporters GLT-1 and EAAC1 expression in rat brain. <i>Neurochemical Research</i> , 2001, 26, 497-502.	3.3	94
9	Poststroke Induction of α -Synuclein Mediates Ischemic Brain Damage. <i>Journal of Neuroscience</i> , 2016, 36, 7055-7065.	3.6	79
10	Mechanism of insulin-like growth factor-1-mediated proliferation of adult neural progenitor cells: role of Akt. <i>European Journal of Neuroscience</i> , 2007, 25, 1041-1048.	2.6	78
11	A Review of Carotid Atherosclerosis and Vascular Cognitive Decline. <i>Neurosurgery</i> , 2010, 67, 484-494.	1.1	76
12	Histopathologic Validation of Grayscale Carotid Plaque Characteristics Related to Plaque Vulnerability. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 129-137.	1.5	58
13	Galectin-3 enhances angiogenic and migratory potential of microglial cells via modulation of integrin linked kinase signaling. <i>Brain Research</i> , 2013, 1496, 1-9.	2.2	57
14	Intraluminal suture occlusion of the middle cerebral artery in Spontaneously Hypertensive rats. <i>Neurological Research</i> , 1998, 20, 265-270.	1.3	47
15	Cytidinediphosphocholine treatment to decrease traumatic brain injury-induced hippocampal neuronal death, cortical contusion volume, and neurological dysfunction in rats. <i>Journal of Neurosurgery</i> , 2003, 98, 867-873.	1.6	43
16	Elevated N ¹ -Acetylspermidine Levels in Gerbil and Rat Brains After CNS Injury. <i>Journal of Neurochemistry</i> , 2000, 74, 1106-1111.	3.9	42
17	Classification of Symptomatic and Asymptomatic Patients with and without Cognitive Decline Using Non-invasive Carotid Plaque Strain Indices as Biomarkers. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 909-918.	1.5	38
18	Growth factors, stem cells, and stroke. <i>Neurosurgical Focus</i> , 2008, 24, E14.	2.3	37

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19	Local and systemic metabolic alterations in brain, plasma, and liver of rats in response to aging and ischemic stroke, as detected by nuclear magnetic resonance (NMR) spectroscopy. <i>Neurochemistry International</i> , 2019, 127, 113-124.	3.8	37
20	Galectin-3 protects against ischemic stroke by promoting neuro-angiogenesis via apoptosis inhibition and Akt/Caspase regulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 857-873.	4.3	37
21	Up-regulation of the peripheral-type benzodiazepine receptor expression and [3H]PK11195 binding in gerbil hippocampus after transient forebrain ischemia. <i>Journal of Neuroscience Research</i> , 2001, 64, 493-500.	2.9	36
22	Increased Cerebral Protein ISGylation after Focal Ischemia is Neuroprotective. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 2375-2384.	4.3	34
23	Neurosurgery Education and Development program to treat hydrocephalus and to develop neurosurgery in Africa using mobile neuroendoscopic training. <i>Journal of Neurosurgery: Pediatrics</i> , 2015, 15, 552-559.	1.3	33
24	The relationship between carotid artery plaque stability and white matter ischemic injury. <i>NeuroImage: Clinical</i> , 2015, 9, 216-222.	2.7	32
25	Deep Learning for Carotid Plaque Segmentation using a Dilated U-Net Architecture. <i>Ultrasonic Imaging</i> , 2020, 42, 221-230.	2.6	27
26	Regulation of Dipeptidyl Peptidase IV in the Post-stroke Rat Brain and In Vitro Ischemia: Implications for Chemokine-Mediated Neural Progenitor Cell Migration and Angiogenesis. <i>Molecular Neurobiology</i> , 2017, 54, 4973-4985.	4.0	26
27	Operative and consultative proportions of neurosurgical disease worldwide: estimation from the surgeon perspective. <i>Journal of Neurosurgery</i> , 2019, 130, 1098-1106.	1.6	26
28	Intraoperative Doppler to Measure Cerebrovascular Resistance as a Guide to Complete Resection of Arteriovenous Malformations. <i>Neurosurgery</i> , 2004, 55, 155-161.	1.1	25
29	Cognitive Deficits in Symptomatic and Asymptomatic Carotid Endarterectomy Surgical Candidates. <i>Archives of Clinical Neuropsychology</i> , 2016, 31, 1-7.	0.5	25
30	Effect of Geopolitical Forces on Neurosurgical Training in Sub-Saharan Africa. <i>World Neurosurgery</i> , 2017, 101, 196-202.	1.3	25
31	The Preservation of Cognition 1 Year After Carotid Endarterectomy in Patients With Prior Cognitive Decline. <i>Neurosurgery</i> , 2018, 82, 322-328.	1.1	25
32	Foundation for International Education in Neurological Surgery (FIENS) Global Health and Neurosurgical Volunteerism. <i>Neurosurgery</i> , 2013, 73, 1070-1071.	1.1	23
33	Academic Global Surgery Curricula: Current Status and a Call for a More Equitable Approach. <i>Journal of Surgical Research</i> , 2021, 267, 732-744.	1.6	22
34	Ischemia-Induced Neurogenesis: Role of Growth Factors. <i>Neurosurgery Clinics of North America</i> , 2007, 18, 183-190.	1.7	21
35	Sphingomyelin Synthase 1 Regulates Neuro-2a Cell Proliferation and Cell Cycle Progression Through Modulation of p27 Expression and Akt Signaling. <i>Molecular Neurobiology</i> , 2015, 51, 1530-1541.	4.0	21
36	Ornithine Decarboxylase Knockdown Exacerbates Transient Focal Cerebral Ischemia-Induced Neuronal Damage in Rat Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 945-954.	4.3	20

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37	Influence of Ultrasound System and Gain on Grayscale Median Values. <i>Journal of Ultrasound in Medicine</i> , 2019, 38, 307-319.	1.7	19
38	Anti-proliferative Effects of Tricyclodecan-9-yl-xanthogenate (D609) Involve Ceramide and Cell Cycle Inhibition. <i>Molecular Neurobiology</i> , 2012, 45, 455-464.	4.0	17
39	Resveratrol preconditioning induces cerebral ischemic tolerance but has minimal effect on cerebral microRNA profiles. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1644-1650.	4.3	17
40	Application of endovascular suture occlusion of middle cerebral artery in gerbils to obtain consistent infarction. <i>Neurological Research</i> , 1999, 21, 574-578.	1.3	16
41	Enhanced expression of pentraxin-3 in glioblastoma cells correlates with increased invasion and IL8-VEGF signaling axis. <i>Brain Research</i> , 2022, 1776, 147752.	2.2	16
42	Editorial. Global neurosurgery: the role of the individual neurosurgeon, the Foundation for International Education in Neurological Surgery, and "service through education" to address worldwide need. <i>Neurosurgical Focus</i> , 2018, 45, E19.	2.3	14
43	Education-based Solutions to the Global Burden of Neurosurgical Disease. <i>World Neurosurgery</i> , 2020, 140, e1-e6.	1.3	14
44	Transcranial Doppler and Microemboli Detection: Relationships to Symptomatic Status and Histopathology Findings. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1861-1867.	1.5	13
45	The First Neurosurgery Boot Camp in Southeast Asia: Evaluating Impact on Knowledge and Regional Collaboration in Yangon, Myanmar. <i>World Neurosurgery</i> , 2018, 113, e239-e246.	1.3	13
46	Effect of hyperglycemia on reperfusion-associated recovery of intracellular pH and high energy phosphates after transient cerebral ischemia in gerbils. <i>Neurological Research</i> , 1996, 18, 546-552.	1.3	12
47	Antisense knockdown of the glial glutamate transporter GLT-1 exacerbates hippocampal neuronal damage following traumatic injury to rat brain. <i>European Journal of Neuroscience</i> , 2001, 13, 119-128.	2.6	12
48	International Neurosurgical Volunteerism: A Temporal, Geographic, and Thematic Analysis of Foundation for International Education in Neurological Surgery Volunteer Reports. <i>World Neurosurgery</i> , 2014, 82, 963-968.	1.3	12
49	Planning and Executing the Neurosurgery Boot Camp: The Bolivia Experience. <i>World Neurosurgery</i> , 2017, 104, 407-410.	1.3	11
50	Surgical approaches for resection of third ventricle colloid cysts: meta-analysis. <i>Neurosurgical Review</i> , 2021, 44, 3029-3038.	2.4	11
51	Global health, global surgery and mass casualties: II. Mass casualty centre resources, equipment and implementation. <i>BMJ Global Health</i> , 2020, 5, e001945.	4.7	9
52	D609 inhibits the proliferation of neural progenitor cells. <i>NeuroReport</i> , 2010, 21, 700-703.	1.2	9
53	D609 inhibits the proliferation of neural progenitor cells. <i>NeuroReport</i> , 2010, 21, 700-3.	1.2	9
54	Neurosurgery in the Developing World: Specialty Service and Global Health. <i>World Neurosurgery</i> , 2018, 112, 325-327.	1.3	8

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55	MicroRNA miR-21 Decreases Post-stroke Brain Damage in Rodents. <i>Translational Stroke Research</i> , 2022, 13, 483-493.	4.2	7
56	Effect of D609 on the expression of GADD45 ¹² protein: Potential inhibitory role in the growth of glioblastoma cancer stem like cells. <i>European Journal of Pharmacology</i> , 2016, 791, 510-517.	3.5	5
57	Chronic D609 treatment interferes with cell cycle and targets the expression of Olig2 in Glioma Stem like Cells. <i>European Journal of Pharmacology</i> , 2017, 814, 81-86.	3.5	5
58	Art, Passion, and Neurosurgery: The Role of the Society of Neurological Surgeons in Academic Neurosurgery. <i>World Neurosurgery</i> , 2011, 76, 378-384.	1.3	4
59	Lagrangian carotid strain imaging indices normalized to blood pressure for vulnerable plaque. <i>Journal of Clinical Ultrasound</i> , 2019, 47, 477-485.	0.8	4
60	Attenuation Coefficient Parameter Computations for Tissue Composition Assessment of Carotid Atherosclerotic Plaque in Vivo. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 1513-1532.	1.5	4
61	Neurosurgery residency and fellowship education in the United States: 2 decades of system development by the One Neurosurgery Summit organizations. <i>Journal of Neurosurgery</i> , 2022, 136, 565-574.	1.6	4
62	Carotid Plaque Strain Indices Were Correlated With Cognitive Performance in a Cohort With Advanced Atherosclerosis, and Traditional Doppler Measures Showed no Association. <i>Journal of Ultrasound in Medicine</i> , 2020, 39, 2033-2042.	1.7	3
63	Letter: Global Neurosurgery. <i>Neurosurgery</i> , 2020, 87, E88-E88.	1.1	1
64	Update on carotid plaque instability quantification using strain indices from multiple regions of interest in carotid plaque. , 2017, , .		0
65	Hydrocephalus Following Giant Transosseous Vertex Meningioma Resection. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2021, 82, 370-377.	0.8	0
66	Chemokines and Proteolysis: Implications for Stem Cell Dynamics in Ischemic Stroke. <i>Springer Series in Translational Stroke Research</i> , 2018, , 409-425.	0.1	0
67	The past, present, and future of neurosurgery's role in stroke. <i>Journal of Neurosurgery</i> , 2020, 133, 260-266.	1.6	0