

David J Mikulis

List of Publications by Year in descending order

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253
papers

16,772
citations

12330

69
h-index

18647

119
g-index

263
all docs

263
docs citations

263
times ranked

17446
citing authors

#	ARTICLE	IF	CITATIONS
1	A multimodal cortical network for the detection of changes in the sensory environment. <i>Nature Neuroscience</i> , 2000, 3, 277-283.	14.8	833
2	A Cortical Network Sensitive to Stimulus Salience in a Neutral Behavioral Context Across Multiple Sensory Modalities. <i>Journal of Neurophysiology</i> , 2002, 87, 615-620.	1.8	518
3	Intracranial Vessel Wall MRI: Principles and Expert Consensus Recommendations of the American Society of Neuroradiology. <i>American Journal of Neuroradiology</i> , 2017, 38, 218-229.	2.4	457
4	Functional MRI Study of Thalamic and Cortical Activations Evoked by Cutaneous Heat, Cold, and Tactile Stimuli. <i>Journal of Neurophysiology</i> , 1998, 80, 1533-1546.	1.8	432
5	Direct Activation of the Ventral Striatum in Anticipation of Aversive Stimuli. <i>Neuron</i> , 2003, 40, 1251-1257.	8.1	405
6	Functional MRI of Pain- and Attention-Related Activations in the Human Cingulate Cortex. <i>Journal of Neurophysiology</i> , 1997, 77, 3370-3380.	1.8	401
7	Viewing artworks: Contributions of cognitive control and perceptual facilitation to aesthetic experience. <i>Brain and Cognition</i> , 2009, 70, 84-91.	1.8	357
8	Safety and efficacy of NA-1 in patients with iatrogenic stroke after endovascular aneurysm repair (ENACT): a phase 2, randomised, double-blind, placebo-controlled trial. <i>Lancet Neurology</i> , The, 2012, 11, 942-950.	10.2	351
9	The Effect of Task Relevance on the Cortical Response to Changes in Visual and Auditory Stimuli: An Event-Related fMRI Study. <i>NeuroImage</i> , 2001, 14, 1256-1267.	4.2	300
10	In vivo MRI of cancer cell fate at the single-cell level in a mouse model of breast cancer metastasis to the brain. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1001-1010.	3.0	286
11	Localization of clinically effective stimulating electrodes in the human subthalamic nucleus on magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 2002, 97, 1152-1166.	1.6	267
12	Cortical activation during human volitional swallowing: an event-related fMRI study. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 277, G219-G225.	3.4	256
13	A prospective cohort study determining the prevalence of thrombotic events in children with acute lymphoblastic leukemia and a central venous line who are treated with Lâ€asparaginase. <i>Cancer</i> , 2003, 97, 508-516.	4.1	254
14	Measuring cerebrovascular reactivity: what stimulus to use?. <i>Journal of Physiology</i> , 2013, 591, 5809-5821.	2.9	248
15	An fMRI study of the anterior cingulate cortex and surrounding medial wall activations evoked by noxious cutaneous heat and cold stimuli. <i>Pain</i> , 2000, 85, 359-374.	4.2	229
16	Vessel Wall MRI to Differentiate Between Reversible Cerebral Vasoconstriction Syndrome and Central Nervous System Vasculitis. <i>Stroke</i> , 2012, 43, 860-862.	2.0	215
17	Mapping Cerebrovascular Reactivity Using Blood Oxygen Level-Dependent MRI in Patients With Arterial Steno-occlusive Disease. <i>Stroke</i> , 2008, 39, 2021-2028.	2.0	213
18	Carotid Artery Wall Imaging: Perspective and Guidelines from the ASNR Vessel Wall Imaging Study Group and Expert Consensus Recommendations of the American Society of Neuroradiology. <i>American Journal of Neuroradiology</i> , 2018, 39, E9-E31.	2.4	213

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19	Longitudinal Study of Postconcussion Syndrome: Not Everyone Recovers. <i>Journal of Neurotrauma</i> , 2017, 34, 1511-1523.	3.4	205
20	Deep brain stimulation for Parkinson's disease dissociates mood and motor circuits: A functional MRI case study. <i>Movement Disorders</i> , 2003, 18, 1508-1516.	3.9	191
21	Vessel Wall Magnetic Resonance Imaging Identifies the Site of Rupture in Patients With Multiple Intracranial Aneurysms. <i>Neurosurgery</i> , 2013, 72, 492-496.	1.1	191
22	Neural correlates of the prolonged salience of painful stimulation. <i>NeuroImage</i> , 2003, 20, 1540-1551.	4.2	186
23	Translating state-of-the-art spinal cord MRI techniques to clinical use: A systematic review of clinical studies utilizing DTI, MT, MWF, MRS, and fMRI. <i>NeuroImage: Clinical</i> , 2016, 10, 192-238.	2.7	173
24	Anticoagulants in pediatric cerebral sinovenous thrombosis: A safety and outcome study. <i>Annals of Neurology</i> , 2010, 67, 590-599.	5.3	167
25	fMRI of human somatosensory and cingulate cortex during painful electrical nerve stimulation. <i>NeuroReport</i> , 1995, 7, 321-325.	1.2	165
26	Thalamic stimulation and functional magnetic resonance imaging: localization of cortical and subcortical activation with implanted electrodes. <i>Journal of Neurosurgery</i> , 1999, 90, 583-590.	1.6	164
27	Separate brain regions code for salience vs. valence during reward prediction in humans. <i>Human Brain Mapping</i> , 2007, 28, 294-302.	3.6	163
28	Intracranial Vasa Vasorum: Insights and Implications for Imaging. <i>Radiology</i> , 2013, 267, 667-679.	7.3	163
29	Sensorimotor Cortical Plasticity During Recovery Following Spinal Cord Injury: A Longitudinal fMRI Study. <i>Neurorehabilitation and Neural Repair</i> , 2007, 21, 527-538.	2.9	160
30	Cerebral white matter deficiencies in pedophilic men. <i>Journal of Psychiatric Research</i> , 2008, 42, 167-183.	3.1	159
31	Cerebral gray matter and white matter volume deficits in adolescent girls with anorexia nervosa. <i>Journal of Pediatrics</i> , 1996, 129, 794-803.	1.8	154
32	Combined Utility of Functional MRI, Cortical Mapping, and Frameless Stereotaxy in the Resection of Lesions in Eloquent Areas of Brain in Children. <i>Pediatric Neurosurgery</i> , 1997, 26, 68-82.	0.7	146
33	Magnetic resonance imaging assessment of degenerative cervical myelopathy: a review of structural changes and measurement techniques. <i>Neurosurgical Focus</i> , 2016, 40, E5.	2.3	139
34	Trend to efficacy and safety using antithrombin concentrate in prevention of thrombosis in children receiving l-asparaginase for acute lymphoblastic leukemia. <i>Thrombosis and Haemostasis</i> , 2003, 90, 235-244.	3.4	138
35	Cerebral Gray Matter Volume Deficits in First Episode Psychosis. <i>Archives of General Psychiatry</i> , 1998, 55, 540.	12.3	133
36	Diagnostic Value of Peritumoral Minimum Apparent Diffusion Coefficient for Differentiation of Glioblastoma Multiforme From Solitary Metastatic Lesions. <i>American Journal of Roentgenology</i> , 2011, 196, 71-76.	2.2	130

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37	Evolution of blood-brain-barrier permeability after acute ischemic stroke. PLoS ONE, 2017, 12, e0171558.	2.5	127
38	CO ₂ Blood Oxygen Levelâ€‘dependent MR Mapping of Cerebrovascular Reserve in a Clinical Population: Safety, Tolerability, and Technical Feasibility. Radiology, 2013, 266, 592-598.	7.3	126
39	A conceptual model for CO ₂ -induced redistribution of cerebral blood flow with experimental confirmation using BOLD MRI. NeuroImage, 2014, 92, 56-68.	4.2	126
40	Functional MRI of phonological and semantic processing in temporal lobe epilepsy. Brain, 2001, 124, 1218-1227.	7.6	117
41	Cognitive Function and Brain Structure in Females With a History of Adolescent-Onset Anorexia Nervosa. Pediatrics, 2008, 122, e426-e437.	2.1	117
42	Qualitative MRI findings in adults with 22q11 deletion syndrome and schizophrenia. Biological Psychiatry, 1999, 46, 1436-1442.	1.3	115
43	Selective Reduction of Blood Flow to White Matter During Hypercapnia Corresponds With Leukoaraiosis. Stroke, 2008, 39, 1993-1998.	2.0	106
44	Structural brain abnormalities in patients with schizophrenia and 22q11 deletion syndrome. Biological Psychiatry, 2002, 51, 208-215.	1.3	103
45	Functional MRI of lateral occipitotemporal cortex during pursuit and motion perception. Annals of Neurology, 1996, 40, 387-398.	5.3	102
46	Comparison of the effects of independentlyâ€‘controlled endâ€‘tidal PCO ₂ and PO ₂ on blood oxygen levelâ€‘dependent (BOLD) MRI. Journal of Magnetic Resonance Imaging, 2008, 27, 185-191.	3.4	99
47	MRI mapping of cerebrovascular reactivity using square wave changes in end-tidal PCO ₂ . Magnetic Resonance in Medicine, 2001, 45, 1011-1013.	3.0	95
48	Preoperative and postoperative mapping of cerebrovascular reactivity in moyamoya disease by using blood oxygen levelâ€‘dependent magnetic resonance imaging. Journal of Neurosurgery, 2005, 103, 347-355.	1.6	95
49	Mild to Moderate Atheromatous Disease of the Thoracic Aorta and New Ischemic Brain Lesions After Conventional Coronary Artery Bypass Graft Surgery. Stroke, 2004, 35, e356-8.	2.0	94
50	Adaptation in the motor cortex following cervical spinal cord injury. Neurology, 2002, 58, 794-801.	1.1	90
51	Impaired Cerebrovascular Reactivity With Steal Phenomenon Is Associated With Increased Diffusion in White Matter of Patients With Moyamoya Disease. Stroke, 2010, 41, 1610-1616.	2.0	90
52	Magnetic Resonance Imaging Evidence of Progression of Subacute Brain Atrophy in Moderate to Severe Traumatic Brain Injury. Archives of Physical Medicine and Rehabilitation, 2008, 89, S35-S44.	0.9	89
53	Bloodâ€‘oxygen level dependent MRI measures of cerebrovascular reactivity using a controlled respiratory challenge: Reproducibility and gender differences. Journal of Magnetic Resonance Imaging, 2010, 31, 298-304.	3.4	89
54	Measuring Cerebrovascular Reactivity: The Dynamic Response to a Step Hypercapnic Stimulus. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1746-1756.	4.3	88

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55	Role of Magnetic Resonance Imaging in Predicting Surgical Outcome in Patients With Cervical Spondylotic Myelopathy. <i>Spine</i> , 2015, 40, 171-178.	2.0	87
56	Development of White Matter Hyperintensity Is Preceded by Reduced Cerebrovascular Reactivity. <i>Annals of Neurology</i> , 2016, 80, 277-285.	5.3	87
57	Vessel Wall Magnetic Resonance Imaging in Acute Ischemic Stroke. <i>Stroke</i> , 2014, 45, 2330-2334.	2.0	86
58	Regionalized sensorimotor plasticity after hemispherectomy fMRI evaluation. <i>Pediatric Neurology</i> , 1998, 19, 337-342.	2.1	85
59	Predictors of Surgical Outcome in Cervical Spondylotic Myelopathy. <i>Spine</i> , 2013, 38, 392-400.	2.0	84
60	Prediction of hemorrhage in acute ischemic stroke using permeability MR imaging. <i>American Journal of Neuroradiology</i> , 2005, 26, 2213-7.	2.4	81
61	Traumatic Brain Injury in Patients With Traumatic Spinal Cord Injury: Clinical and Economic Consequences. <i>Archives of Physical Medicine and Rehabilitation</i> , 2008, 89, S77-S84.	0.9	80
62	Quantitative Measurement of Cerebrovascular Reactivity by Blood Oxygen Level-Dependent MR Imaging in Patients with Intracranial Stenosis: Preoperative Cerebrovascular Reactivity Predicts the Effect of Extracranial-Intracranial Bypass Surgery. <i>American Journal of Neuroradiology</i> , 2011, 32, 721-727.	2.4	80
63	Impaired peri-nidal cerebrovascular reserve in seizure patients with brain arteriovenous malformations. <i>Brain</i> , 2011, 134, 100-109.	7.6	79
64	Assessing Cerebrovascular Reactivity Abnormality by Comparison to a Reference Atlas. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 213-220.	4.3	79
65	Cortical Plasticity Following Nerve Transfer in the Upper Extremity. <i>Hand Clinics</i> , 2008, 24, 425-444.	1.0	77
66	Neuroimaging Assessment of Cerebrovascular Reactivity in Concussion: Current Concepts, Methodological Considerations, and Review of the Literature. <i>Frontiers in Neurology</i> , 2016, 7, 61.	2.4	76
67	Three-Dimensional In Vivo Modeling of Vestibular Schwannomas and Surrounding Cranial Nerves With Diffusion Imaging Tractography. <i>Neurosurgery</i> , 2011, 68, 1077-1083.	1.1	74
68	Impact of Extracranial-Intracranial Bypass on Cerebrovascular Reactivity and Clinical Outcome in Patients With Symptomatic Moyamoya Vasculopathy. <i>Stroke</i> , 2011, 42, 3047-3054.	2.0	74
69	The dynamics of cerebrovascular reactivity shown with transfer function analysis. <i>NeuroImage</i> , 2015, 114, 207-216.	4.2	73
70	Are acute infarcts the cause of leukoaraiosis? Brain mapping for 16 consecutive weeks. <i>Annals of Neurology</i> , 2014, 76, 899-904.	5.3	71
71	Scale and pattern of atrophy in the chronic stages of moderate-severe TBI. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 67.	2.0	70
72	Brain magnetic resonance imaging CO2 stress testing in adolescent postconcussion syndrome. <i>Journal of Neurosurgery</i> , 2016, 125, 648-660.	1.6	69

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73	Can microstructural MRI detect subclinical tissue injury in subjects with asymptomatic cervical spinal cord compression? A prospective cohort study. <i>BMJ Open</i> , 2018, 8, e019809.	1.9	69
74	Dysphagia in a patient with lateral medullary syndrome: Insight into the central control of swallowing. <i>Gastroenterology</i> , 2001, 121, 420-426.	1.3	67
75	Neurological Manifestations of West Nile Virus Infection. <i>Canadian Journal of Neurological Sciences</i> , 2004, 31, 185-193.	0.5	67
76	Use of Diffusion Tensor Imaging to Examine Subacute White Matter Injury Progression in Moderate to Severe Traumatic Brain Injury. <i>Archives of Physical Medicine and Rehabilitation</i> , 2008, 89, S45-S50.	0.9	67
77	Magnetic Resonance Imaging-Based Cerebrovascular Reactivity and Hemodynamic Reserve. <i>Stroke</i> , 2018, 49, 2011-2018.	2.0	67
78	The association between white-matter tract abnormalities, and neuropsychiatric and cognitive symptoms in retired professional football players with multiple concussions. <i>Journal of Neurology</i> , 2016, 263, 1332-1341.	3.6	65
79	Functional Magnetic Resonance Imaging: A Potential Tool for the Evaluation of Spinal Cord Stimulation: Technical Case Report. <i>Neurosurgery</i> , 1997, 41, 501-504.	1.1	64
80	Surgical Revascularization Reverses Cerebral Cortical Thinning in Patients With Severe Cerebrovascular Steno-Occlusive Disease. <i>Stroke</i> , 2011, 42, 1631-1637.	2.0	64
81	A Novel MRI Biomarker of Spinal Cord White Matter Injury: T2*-Weighted White Matter to Gray Matter Signal Intensity Ratio. <i>American Journal of Neuroradiology</i> , 2017, 38, 1266-1273.	2.4	64
82	Quantification of Cerebrovascular Reactivity by Blood Oxygen Level-Dependent MR Imaging and Correlation with Conventional Angiography in Patients with Moyamoya Disease. <i>American Journal of Neuroradiology</i> , 2010, 31, 862-867.	2.4	63
83	Clinically Feasible Microstructural MRI to Quantify Cervical Spinal Cord Tissue Injury Using DTI, MT, and T2*-Weighted Imaging: Assessment of Normative Data and Reliability. <i>American Journal of Neuroradiology</i> , 2017, 38, 1257-1265.	2.4	62
84	Plasticity of the human motor system following muscle reconstruction: a magnetic stimulation and functional magnetic resonance imaging study. <i>Clinical Neurophysiology</i> , 2003, 114, 2434-2446.	1.5	60
85	Gray matter blood flow and volume are reduced in association with white matter hyperintensity lesion burden: a cross-sectional MRI study. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 131.	3.4	58
86	Monitoring for myelopathic progression with multiparametric quantitative MRI. <i>PLoS ONE</i> , 2018, 13, e0195733.	2.5	57
87	Event-related fMRI of pain. <i>NeuroReport</i> , 1998, 9, 3019-3023.	1.2	56
88	Neuro MR: Principles. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 823-837.	3.4	56
89	BOLD-MRI cerebrovascular reactivity findings in cocaine-induced cerebral vasculitis. <i>Nature Clinical Practice Neurology</i> , 2008, 4, 628-632.	2.5	54
90	Is there evidence for neurodegenerative change following traumatic brain injury in children and youth? A scoping review. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 139.	2.0	54

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91	Sensorimotor Cortical Activation in Patients With Cervical Spinal Cord Injury With Persisting Paralysis. <i>Neurorehabilitation and Neural Repair</i> , 2010, 24, 136-140.	2.9	53
92	The aging brain and cerebrovascular reactivity. <i>NeuroImage</i> , 2018, 181, 132-141.	4.2	53
93	Eccentric Narrowing and Enhancement of Symptomatic Middle Cerebral Artery Stenoses in Patients With Recent Ischemic Stroke. <i>Archives of Neurology</i> , 2011, 68, 338-42.	4.5	52
94	Prediction of hemorrhagic transformation in acute ischemic stroke using texture analysis of postcontrast T1-weighted MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 933-941.	3.4	51
95	Chronic traumatic encephalopathy and other neurodegenerative proteinopathies. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 30.	2.0	51
96	Plasticity of the Injured Human Spinal Cord: Insights Revealed by Spinal Cord Functional MRI. <i>PLoS ONE</i> , 2012, 7, e45560.	2.5	50
97	A Quantitative and Reproducible Method to Assess Cord Compression and Canal Stenosis After Cervical Spine Trauma. <i>Spine</i> , 2007, 32, 2083-2091.	2.0	49
98	Moderate-severe traumatic brain injury causes delayed loss of white matter integrity: Evidence of fornix deterioration in the chronic stage of injury. <i>Brain Injury</i> , 2013, 27, 1415-1422.	1.2	49
99	Reliability of Quantitative Magnetic Resonance Imaging Methods in the Assessment of Spinal Canal Stenosis and Cord Compression in Cervical Myelopathy. <i>Spine</i> , 2013, 38, 245-252.	2.0	47
100	Environmental enrichment may protect against hippocampal atrophy in the chronic stages of traumatic brain injury. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 506.	2.0	46
101	Identifying Significant Changes in Cerebrovascular Reactivity to Carbon Dioxide. <i>American Journal of Neuroradiology</i> , 2016, 37, 818-824.	2.4	45
102	Therapeutic Benefit of Internet-Based Lifestyle Counselling for Hypertension. <i>Canadian Journal of Cardiology</i> , 2012, 28, 390-396.	1.7	44
103	Neuro MR: Protocols. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 838-847.	3.4	43
104	The contribution of imaging in diagnosis, preoperative assessment, and follow-up of moyamoya disease. <i>Neurosurgical Focus</i> , 2009, 26, E3.	2.3	43
105	Posterior Fossa Measurements in Patients With and Without Chiari I Malformation. <i>Canadian Journal of Neurological Sciences</i> , 2011, 38, 452-455.	0.5	43
106	Measurement of Cerebrovascular Reactivity in Pediatric Patients With Cerebral Vasculopathy Using Blood Oxygen Level-Dependent MRI. <i>Stroke</i> , 2011, 42, 1261-1269.	2.0	43
107	MRI-Based Neuroanatomical Predictors of Dysphagia, Dysarthria, and Aphasia in Patients with First Acute Ischemic Stroke. <i>Cerebrovascular Diseases Extra</i> , 2017, 7, 21-34.	1.5	43
108	Patient-Specific Alterations in CO2 Cerebrovascular Responsiveness in Acute and Sub-Acute Sports-Related Concussion. <i>Frontiers in Neurology</i> , 2018, 9, 23.	2.4	43

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109	Current Concepts in Intracranial Interstitial Fluid Transport and the Glymphatic System: Part II—Imaging Techniques and Clinical Applications. <i>Radiology</i> , 2021, 301, 516-532.	7.3	42
110	Approaches to Brain Stress Testing: BOLD Magnetic Resonance Imaging with Computer-Controlled Delivery of Carbon Dioxide. <i>PLoS ONE</i> , 2012, 7, e47443.	2.5	41
111	Assessing the effect of unilateral cerebral revascularisation on the vascular reactivity of the non-intervened hemisphere: a retrospective observational study. <i>BMJ Open</i> , 2015, 5, e006014-e006014.	1.9	41
112	Impaired dynamic cerebrovascular response to hypercapnia predicts development of white matter hyperintensities. <i>NeuroImage: Clinical</i> , 2016, 11, 796-801.	2.7	41
113	Assessing cerebrovascular reactivity by the pattern of response to progressive hypercapnia. <i>Human Brain Mapping</i> , 2017, 38, 3415-3427.	3.6	41
114	Severely impaired cerebrovascular reserve in patients with cerebral proliferative angiopathy. <i>Journal of Neurosurgery: Pediatrics</i> , 2011, 8, 310-315.	1.3	39
115	Cerebrovascular reactivity and white matter integrity. <i>Neurology</i> , 2016, 87, 2333-2339.	1.1	39
116	Visual-spatial ability and fMRI cortical activation in surgery residents. <i>American Journal of Surgery</i> , 2007, 193, 507-510.	1.8	38
117	Brain MRI CO2 Stress Testing: A Pilot Study in Patients with Concussion. <i>PLoS ONE</i> , 2014, 9, e102181.	2.5	38
118	Tumor Effects on Cerebral White Matter as Characterized by Diffusion Tensor Tractography. <i>Canadian Journal of Neurological Sciences</i> , 2007, 34, 62-68.	0.5	37
119	The relationship between brain atrophy and cognitive-behavioural symptoms in retired Canadian football players with multiple concussions. <i>NeuroImage: Clinical</i> , 2018, 19, 551-558.	2.7	37
120	Decreased Number of Self-Paced Saccades in Post-Concussion Syndrome Associated with Higher Symptom Burden and Reduced White Matter Integrity. <i>Journal of Neurotrauma</i> , 2018, 35, 719-729.	3.4	36
121	Missed diagnosis of traumatic brain injury in patients with traumatic spinal cord injury. <i>Journal of Rehabilitation Medicine</i> , 2014, 46, 370-373.	1.1	35
122	Impact of Baseline Magnetic Resonance Imaging on Neurologic, Functional, and Safety Outcomes in Patients With Acute Traumatic Spinal Cord Injury. <i>Global Spine Journal</i> , 2017, 7, 151S-174S.	2.3	35
123	Age-related MRI abnormalities in bipolar illness: A clinical study. <i>Biological Psychiatry</i> , 1995, 38, 846-847.	1.3	34
124	Relative Recirculation. <i>Investigative Radiology</i> , 2009, 44, 662-668.	6.2	34
125	Vascular Dysfunction in Leukoaraiosis. <i>American Journal of Neuroradiology</i> , 2016, 37, 2258-2264.	2.4	34
126	Diffusion tensor imaging assessment of microstructural brainstem integrity in Chiari malformation Type I. <i>Journal of Neurosurgery</i> , 2016, 125, 1112-1119.	1.6	33

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127	Cerebrovascular Resistance: The Basis of Cerebrovascular Reactivity. <i>Frontiers in Neuroscience</i> , 2018, 12, 409.	2.8	33
128	Volumetric MRI measurement of caudate nuclei in antipsychotic-naïve patients suffering from a first episode of psychosis. <i>Journal of Psychiatric Research</i> , 2005, 39, 365-370.	3.1	32
129	Longitudinal Brain Magnetic Resonance Imaging CO2 Stress Testing in Individual Adolescent Sports-Related Concussion Patients: A Pilot Study. <i>Frontiers in Neurology</i> , 2016, 7, 107.	2.4	32
130	Caudate volume changes in first episode psychosis parallel the effects of normal aging: a 5-year follow-up study. <i>Schizophrenia Research</i> , 2002, 58, 185-188.	2.0	31
131	Volume specific response criteria for brain metastases following salvage stereotactic radiosurgery and associated predictors of response. <i>Acta Oncologica</i> , 2012, 51, 629-635.	1.8	31
132	The role of vascular resistance in BOLD responses to progressive hypercapnia. <i>Human Brain Mapping</i> , 2017, 38, 5590-5602.	3.6	31
133	Arterial Wall Imaging in Pediatric Stroke. <i>Stroke</i> , 2018, 49, 891-898.	2.0	31
134	Impact of white matter hyperintensities on surrounding white matter tracts. <i>Neuroradiology</i> , 2018, 60, 933-944.	2.2	31
135	Current Concepts in Intracranial Interstitial Fluid Transport and the Glymphatic System: Part I Anatomy and Physiology. <i>Radiology</i> , 2021, 301, 502-514.	7.3	31
136	Reduced Contralateral Cerebrovascular Reserve in Patients with Unilateral Steno-Occlusive Disease. <i>Cerebrovascular Diseases</i> , 2014, 38, 94-100.	1.7	30
137	Congenital Cervical Fusion as a Risk Factor for Development of Degenerative Cervical Myelopathy. <i>World Neurosurgery</i> , 2017, 100, 531-539.	1.3	30
138	3-Tesla MRI in patients with fully implanted deep brain stimulation devices: a preliminary study in 10 patients. <i>Journal of Neurosurgery</i> , 2017, 127, 892-898.	1.6	30
139	Diffusion Tensor Imaging of Pedophilia. <i>Archives of Sexual Behavior</i> , 2015, 44, 2161-2172.	1.9	29
140	Embolization with Temporary Balloon Occlusion of the Internal Carotid Artery and In Vivo Proton Spectroscopy Improves Radical Removal of Petrous-tentorial Meningioma. <i>Neurosurgery</i> , 1994, 35, 974-977.	1.1	27
141	The Value of GRE, ADC and Routine MRI in Distinguishing Parkinsonian Disorders. <i>Canadian Journal of Neurological Sciences</i> , 2013, 40, 389-402.	0.5	27
142	Measuring Permeability in Acute Ischemic Stroke. <i>Neuroimaging Clinics of North America</i> , 2011, 21, 315-325.	1.0	26
143	Bilateral Horizontal Gaze Palsy in Presumed Paraneoplastic Brainstem Encephalitis Associated With a Benign Ovarian Teratoma. <i>Journal of Neuro-Ophthalmology</i> , 2004, 24, 114-118.	0.8	25
144	Cortical Plasticity Following Upper Extremity Injury and Reconstruction. <i>Clinics in Plastic Surgery</i> , 2005, 32, 617-634.	1.5	25

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145	Quantitative permeability magnetic resonance imaging in acute ischemic stroke: how long do we need to scan?. <i>Magnetic Resonance Imaging</i> , 2009, 27, 1216-1222.	1.8	25
146	Longitudinal quantitative MRI in multiple system atrophy and progressive supranuclear palsy. <i>Parkinsonism and Related Disorders</i> , 2014, 20, 222-225.	2.2	25
147	Antioxidants Taken Orally prior to Diagnostic Radiation Exposure Can Prevent DNA Injury. <i>Journal of Vascular and Interventional Radiology</i> , 2017, 28, 406-411.	0.5	25
148	BOLD-based cerebrovascular reactivity vascular transfer function isolates amplitude and timing responses to better characterize cerebral small vessel disease. <i>NMR in Biomedicine</i> , 2019, 32, e4064.	2.8	25
149	Roadmap Consensus on Carotid Artery Plaque Imaging and Impact on Therapy Strategies and Guidelines: An International, Multispecialty, Expert Review and Position Statement. <i>American Journal of Neuroradiology</i> , 2021, 42, 1566-1575.	2.4	25
150	Traumatic Brain Injury in Spinal Cord Injury: Frequency and Risk Factors. <i>Journal of Head Trauma Rehabilitation</i> , 2016, 31, E33-E42.	1.7	24
151	Clinical Evaluation of Stereotactic Target Localization Using 3-Tesla MRI for Radiosurgery Planning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, 1472-1479.	0.8	23
152	Cerebrovascular Resistance in Healthy Aging and Mild Cognitive Impairment. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 79.	3.4	23
153	Trigeminal neuralgia associated with a solitary pontine lesion: clinical and neuroimaging definition of a new syndrome. <i>Pain</i> , 2020, 161, 916-925.	4.2	23
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