Leif Ã˜stergaard

List of Publications by Year
in descending order

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Version: 2024-02-01

255	19,578	10389	12946
papers	citations	72 h-index	131 g-index

271	271	271	16035
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High resolution measurement of cerebral blood flow using intravascular tracer bolus passages. Part I: Mathematical approach and statistical analysis. Magnetic Resonance in Medicine, 1996, 36, 715-725.	3.0	1,450
2	MRI-Guided Thrombolysis for Stroke with Unknown Time of Onset. New England Journal of Medicine, 2018, 379, 611-622.	27.0	912
3	High resolution measurement of cerebral blood flow using intravascular tracer bolus passages. Part II: Experimental comparison and preliminary results. Magnetic Resonance in Medicine, 1996, 36, 726-736.	3.0	805
4	Tracer arrival timing-insensitive technique for estimating flow in MR perfusion-weighted imaging using singular value decomposition with a block-circulant deconvolution matrix. Magnetic Resonance in Medicine, 2003, 50, 164-174.	3.0	528
5	Mr perfusion studies witht1-weighted echo planar imaging. Magnetic Resonance in Medicine, 1995, 34, 878-887.	3.0	476
6	Hyperacute Stroke: Simultaneous Measurement of Relative Cerebral Blood Volume, Relative Cerebral Blood Flow, and Mean Tissue Transit Time. Radiology, 1999, 210, 519-527.	7.3	410
7	The Roles of Cerebral Blood Flow, Capillary Transit Time Heterogeneity, and Oxygen Tension in Brain Oxygenation and Metabolism. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 264-277.	4.3	394
8	Perfusion-weighted imaging defects during spontaneous migrainous aura. Annals of Neurology, 1998, 43, 25-31.	5.3	317
9	Modeling dendrite density from magnetic resonance diffusion measurements. NeuroImage, 2007, 34, 1473-1486.	4.2	296
10	Predicting Tissue Outcome in Acute Human Cerebral Ischemia Using Combined Diffusion- and Perfusion-Weighted MR Imaging. Stroke, 2001, 32, 933-942.	2.0	266
11	Neurite density from magnetic resonance diffusion measurements at ultrahigh field: Comparison with light microscopy and electron microscopy. NeuroImage, 2010, 49, 205-216.	4.2	245
12	Size-Dependent Accumulation of PEGylated Silane-Coated Magnetic Iron Oxide Nanoparticles in Murine Tumors. ACS Nano, 2009, 3, 1947-1951.	14.6	242
13	Remote Ischemic Perconditioning as an Adjunct Therapy to Thrombolysis in Patients With Acute Ischemic Stroke. Stroke, 2014, 45, 159-167.	2.0	242
14	Principles of cerebral perfusion imaging by bolus tracking. Journal of Magnetic Resonance Imaging, 2005, 22, 710-717.	3.4	240
15	Viability Thresholds of Ischemic Penumbra of Hyperacute Stroke Defined by Perfusion-Weighted MRI and Apparent Diffusion Coefficient. Stroke, 2001, 32, 1140-1146.	2.0	238
16	To musicians, the message is in the meter. NeuroImage, 2005, 24, 560-564.	4.2	238
17	Magnetic Resonance Imaging Criteria for Thrombolysis in Acute Cerebral Infarct. Stroke, 2005, 36, 388-397.	2.0	214
18	Cerebral Hemodynamics in CADASIL Before and After Acetazolamide Challenge Assessed With MRI Bolus Tracking. Stroke, 2000, 31, 1904-1912.	2.0	213

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19	Cerebral Blood Flow Measurements by Magnetic Resonance Imaging Bolus Tracking: Comparison with [¹⁵O]H₂O Positron Emission Tomography in Humans. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 935-940.	4.3	212
20	Cerebral small vessel disease: Capillary pathways to stroke and cognitive decline. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 302-325.	4.3	211
21	Perfusion Weighted Imaging During Migraine: Spontaneous Visual Aura and Headache. Cephalalgia, 1999, 19, 701-707.	3.9	210
22	Schwann cell interactions with axons and microvessels in diabetic neuropathy. Nature Reviews Neurology, 2017, 13, 135-147.	10.1	202
23	Preventing dementia by preventing stroke: The Berlin Manifesto. Alzheimer's and Dementia, 2019, 15, 961-984.	0.8	200
24	Absolute Cerebral Blood Flow and Blood Volume Measured by Magnetic Resonance Imaging Bolus Tracking: Comparison with Positron Emission Tomography Values. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 425-432.	4.3	198
25	Predictive coding of music â€“ Brain responses to rhythmic incongruity. Cortex, 2009, 45, 80-92.	2.4	198
26	Automatic selection of arterial input function using cluster analysis. Magnetic Resonance in Medicine, 2006, 55, 524-531.	3.0	195
27	Influence of Stroke Infarct Location on Functional Outcome Measured by the Modified Rankin Scale. Stroke, 2014, 45, 1695-1702.	2.0	193
28	SARS CoVâ€2 related microvascular damage and symptoms during and after COVIDâ€19: Consequences of capillary transitâ€time changes, tissue hypoxia and inflammation. Physiological Reports, 2021, 9, e14726.	1.7	193
29	Acute Stroke Imaging Research Roadmap II. Stroke, 2013, 44, 2628-2639.	2.0	192
30	How Reliable Is Perfusion MR in Acute Stroke?. Stroke, 2008, 39, 870-877.	2.0	183
31	Perfusion Magnetic Resonance Imaging: A Comprehensive Update on Principles and Techniques. Korean Journal of Radiology, 2014, 15, 554.	3.4	177
32	Combined Diffusion and Perfusion MRI With Correlation to Single-Photon Emission CT in Acute Ischemic Stroke. Stroke, 1999, 30, 1583-1590.	2.0	172
33	Reduced cerebral blood flow in white matter in ischaemic leukoaraiosis demonstrated using quantitative exogenous contrast based perfusion MRI. Journal of Neurology, Neurosurgery and Psychiatry, 2000, 69, 48-53.	1.9	169
34	The capillary dysfunction hypothesis of Alzheimer's disease. Neurobiology of Aging, 2013, 34, 1018-1031.	3.1	165
35	The Physiological Significance of the Time-to-Maximum (Tmax) Parameter in Perfusion MRI. Stroke, 2010, 41, 1169-1174.	2.0	161
36	Early changes measured by magnetic resonance imaging in cerebral blood flow, blood volume, and blood-brain barrier permeability following dexamethasone treatment in patients with brain tumors. Journal of Neurosurgery, 1999, 90, 300-305.	1.6	152

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37	Assessment of ischemic penumbra in patients with hyperacute stroke using amide proton transfer (APT) chemical exchange saturation transfer (CEST) MRI. NMR in Biomedicine, 2014, 27, 163-174.	2.8	144
38	The Role of the Microcirculation in Delayed Cerebral Ischemia and Chronic Degenerative Changes after Subarachnoid Hemorrhage. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1825-1837.	4.3	140
39	The Relationship between Tumor Blood Flow, Angiogenesis, Tumor Hypoxia, and Aerobic Glycolysis. Cancer Research, 2013, 73, 5618-5624.	0.9	140
40	Ischemic injury detected by diffusion imaging 11 minutes after stroke. Annals of Neurology, 2005, 58, 462-465.	5.3	133
41	Accuracy and Reliability Assessment of CT and MR Perfusion Analysis Software Using a Digital Phantom. Radiology, 2013, 267, 201-211.	7.3	131
42	A Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial to Test Efficacy and Safety of Magnetic Resonance Imaging-Based Thrombolysis in Wake-up Stroke (WAKE-UP). International Journal of Stroke, 2014, 9, 829-836.	5.9	130
43	Modeling Cerebral Blood Flow and Flow Heterogeneity from Magnetic Resonance Residue Data. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 690-699.	4.3	128
44	Comparison of 10 Perfusion MRI Parameters in 97 Sub-6-Hour Stroke Patients Using Voxel-Based Receiver Operating Characteristics Analysis. Stroke, 2009, 40, 2055-2061.	2.0	128
45	Magnetic Resonance Perfusion-Weighted Imaging of Acute Cerebral Infarction. Stroke, 2002, 33, 87-94.	2.0	126
46	It don't mean a thingâ€¦. NeuroImage, 2006, 31, 832-841.	4.2	124
47	Theoretical model of intravascular paramagnetic tracers effect on tissue relaxation. Magnetic Resonance in Medicine, 2006, 56, 187-197.	3.0	119
48	Motion verb sentences activate left posterior middle temporal cortex despite static context. NeuroReport, 2005, 16, 649-652.	1.2	118
49	The Role of the Cerebral Capillaries in Acute Ischemic Stroke: The Extended Penumbra Model. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 635-648.	4.3	115
50	Capillary Transit Time Heterogeneity and Flow-Metabolism Coupling after Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1585-1598.	4.3	114
51	Bayesian estimation of cerebral perfusion using a physiological model of microvasculature. NeuroImage, 2006, 33, 570-579.	4.2	111
52	GABA Levels Are Decreased After Stroke and GABA Changes During Rehabilitation Correlate With Motor Improvement. Neurorehabilitation and Neural Repair, 2015, 29, 278-286.	2.9	110
53	Contrast agents in functional MR imaging. Journal of Magnetic Resonance Imaging, 1997, 7, 47-55.	3.4	109
54	An evaluation of the time dependence of the anisotropy of the water diffusion tensor in acute human ischemia. Magnetic Resonance Imaging, 1999, 17, 331-348.	1.8	108

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55	Quantitative measurements of cerebral blood flow in patients with unilateral carotid artery occlusion: A PET and MR study. Journal of Magnetic Resonance Imaging, 2001, 14, 659-667.	3.4	107
56	MRI Detection of Early Blood-Brain Barrier Disruption. Stroke, 2008, 39, 1025-1028.	2.0	106
57	Quantitative perfusion imaging in carotid artery stenosis using dynamic susceptibility contrast-enhanced magnetic resonance imaging. Magnetic Resonance Imaging, 2000, 18, 1-11.	1.8	101
58	Dynamic changes in corticospinal tracts after stroke detected by fibretracking. Journal of Neurology, Neurosurgery and Psychiatry, 2007, 78, 587-592.	1.9	100
59	Reperfusion Within 6 Hours Outperforms Recanalization in Predicting Penumbra Salvage, Lesion Growth, Final Infarct, and Clinical Outcome. Stroke, 2015, 46, 1582-1589.	2.0	98
60	Concrete spatial language: See what I mean?. Brain and Language, 2005, 92, 221-233.	1.6	97
61	Effects of tracer arrival time on flow estimates in MR perfusion-weighted imaging. Magnetic Resonance in Medicine, 2003, 50, 856-864.	3.0	93
62	Cerebral Blood Flow and Blood Volume Measured by Magnetic Resonance Imaging Bolus Tracking After Acute Stroke in Pigs. Stroke, 2000, 31, 1958-1964.	2.0	90
63	Cerebral Metabolic Response to Low Blood Flow: Possible Role of Cytochrome Oxidase Inhibition. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 1183-1196.	4.3	90
64	Combined Perfusion- and Diffusion-weighted MR Imaging in Acute Ischemic Stroke during the 1st Week: A Longitudinal Study. Radiology, 2000, 217, 886-894.	7.3	88
65	Reliable Estimation of Capillary Transit Time Distributions Using DSC-MRI. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1511-1521.	4.3	87
66	Depression severity is correlated to the integrity of white matter fiber tracts in late-onset major depression. Psychiatry Research - Neuroimaging, 2010, 184, 38-48.	1.8	86
67	Capillary dysfunction is associated with symptom severity and neurodegeneration in Alzheimer's disease. Alzheimer's and Dementia, 2017, 13, 1143-1153.	0.8	86
68	Cerebral Blood Flow, Blood Volume, and Oxygen Metabolism Dynamics in Human Visual and Motor Cortex as Measured by Whole-Brain Multi-Modal Magnetic Resonance Imaging. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1856-1866.	4.3	84
69	Combined Diffusion-Weighted and Perfusion-Weighted Flow Heterogeneity Magnetic Resonance Imaging in Acute Stroke. Stroke, 2000, 31, 1097-1103.	2.0	83
70	Cerebral Hemodynamics in Human Acute Ischemic Stroke: A Study with Diffusion- and Perfusion-Weighted Magnetic Resonance Imaging and SPECT. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 910-920.	4.3	82
71	The Effects of Capillary Transit Time Heterogeneity (CTH) on Brain Oxygenation. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 806-817.	4.3	78
72	CBF and CBV measurements by USPIO bolus tracking: Reproducibility and comparison with Gd-based values. Journal of Magnetic Resonance Imaging, 1999, 9, 342-347.	3.4	77

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73	Changes in regional brain volume three months after stroke. Journal of the Neurological Sciences, 2012, 322, 122-128.	0.6	75
74	Evaluation of four postprocessing methods for determination of cerebral blood volume and mean transit time by dynamic susceptibility contrast imaging. Magnetic Resonance in Medicine, 2002, 47, 973-981.	3.0	72
75	Characterizing physiological heterogeneity of infarction risk in acute human ischaemic stroke using MRI. Brain, 2006, 129, 2384-2393.	7.6	71
76	Localization of white-matter lesions and effect of vascular risk factors in late-onset major depression. Psychological Medicine, 2010, 40, 1389-1399.	4.5	71
77	Quantitative T2 Values Predict Time From Symptom Onset in Acute Stroke Patients. Stroke, 2009, 40, 1612-1616.	2.0	70
78	Mean Diffusional Kurtosis in Patients with Glioma: Initial Results with a Fast Imaging Method in a Clinical Setting. American Journal of Neuroradiology, 2015, 36, 1472-1478.	2.4	70
79	Capillary Dysfunction: Its Detection and Causative Role in Dementias and Stroke. Current Neurology and Neuroscience Reports, 2015, 15, 37.	4.2	68
80	More homogeneous capillary flow and oxygenation in deeper cortical layers correlate with increased oxygen extraction. ELife, 2019, 8, .	6.0	68
81	Comparison of gradient- and spin-echo imaging: CBF, CBV, and MTT measurements by bolus tracking. Journal of Magnetic Resonance Imaging, 2000, 12, 411-416.	3.4	67
82	Relationship between residual cerebral blood flow and oxygen metabolism as predictive of ischemic tissue viability: sequential multitracer positron emission tomography scanning of middle cerebral artery occlusion during the critical first 6 hours after stroke in pigs. Journal of Neurosurgery, 2000, 93, 647-657.	1.6	67
83	The effects of capillary dysfunction on oxygen and glucose extraction in diabetic neuropathy. Diabetologia, 2015, 58, 666-677.	6.3	67
84	Cerebral Hemodynamics in a Healthy Population Measured by Dynamic Susceptibility Contrast Mr Imaging. Acta Radiologica, 2003, 44, 538-546.	1.1	66
85	Visualization of Altered Neurovascular Coupling in Chronic Stroke Patients using Multimodal Functional MRI. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 2044-2054.	4.3	64
86	Effect of electrical forepaw stimulation on capillary transit-time heterogeneity (CTH). Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 2072-2086.	4.3	64
87	Noninvasive assessment of isocitrate dehydrogenase mutation status in cerebral gliomas by magnetic resonance spectroscopy in a clinical setting. Journal of Neurosurgery, 2018, 128, 391-398.	1.6	62
88	Accumulation of magnetic iron oxide nanoparticles coated with variably sized polyethylene glycol in murine tumors. Nanoscale, 2012, 4, 2352.	5.6	61
89	Increased cortical capillary transit time heterogeneity in Alzheimer's disease: a DSC-MRI perfusion study. Neurobiology of Aging, 2017, 50, 107-118.	3.1	61
90	Cerebral Perfusion Imaging by Bolus Tracking. Topics in Magnetic Resonance Imaging, 2004, 15, 3-9.	1.2	59

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91	Distinct neural responses to chord violations: A multiple source analysis study. Brain Research, 2011, 1389, 103-114.	2.2	59
92	The Effects of Transit Time Heterogeneity on Brain Oxygenation during Rest and Functional Activation. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 432-442.	4.3	56
93	Superior Analgesic Effect of an Active Distraction versus Pleasant Unfamiliar Sounds and Music: The Influence of Emotion and Cognitive Style. PLoS ONE, 2012, 7, e29397.	2.5	54
94	Assessing Response to Stroke Thrombolysis. Archives of Neurology, 2012, 69, 46.	4.5	53
95	The role of capillary transit time heterogeneity in myocardial oxygenation and ischemic heart disease. Basic Research in Cardiology, 2014, 109, 409.	5.9	53
96	Quantification of cerebral blood flow by bolus tracking and artery spin tagging methods. Magnetic Resonance Imaging, 2000, 18, 503-512.	1.8	52
97	Effect of hypnotic pain modulation on brain activity in patients with temporomandibular disorder pain. Pain, 2010, 151, 825-833.	4.2	52
98	Infarct Prediction and Treatment Assessment with MRI-based Algorithms in Experimental Stroke Models. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 196-204.	4.3	51
99	Improvement of brain tissue oxygenation by inhalation of carbogen. Neuroscience, 2008, 156, 932-938.	2.3	51
100	In vivo estimation of cerebral blood flow, oxygen consumption and glucose metabolism in the pig by [15O]water injection, [15O]oxygen inhalation and dual injections of [18F]fluorodeoxyglucose. Journal of Neuroscience Methods, 1997, 77, 199-209.	2.5	49
101	Tapping polyrhythms in music activates language areas. Neuroscience Letters, 2011, 494, 211-216.	2.1	48
102	A MRI-compatible stereotaxic localizer box enables high-precision stereotaxic procedures in pigs. Journal of Neuroscience Methods, 2004, 139, 293-298.	2.5	47
103	Blood flow, capillary transit times, and tissue oxygenation: the centennial of capillary recruitment. Journal of Applied Physiology, 2020, 129, 1413-1421.	2.5	47
104	Effect of impermeable boundaries on diffusion-attenuated MR signal. Journal of Magnetic Resonance, 2006, 179, 223-233.	2.1	46
105	Prediction of tissue survival after middle cerebral artery occlusion based on changes in the apparent diffusion of water. Journal of Neurosurgery, 2001, 95, 450-458.	1.6	45
106	Accessing the mental spaceâ€"Spatial working memory processes for language and vision overlap in precuneus. Human Brain Mapping, 2008, 29, 524-532.	3.6	45
107	Analysis of partial volume effects on arterial input functions using gradient echo: A simulation study. Magnetic Resonance in Medicine, 2009, 61, 1300-1309.	3.0	43
108	Infarction of â€˜non-coreâ€“non-penumbralâ€™ tissue after stroke: multivariate modelling of clinical impact. Brain, 2011, 134, 1765-1776.	7.6	43

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109	Inferring origin of vascular supply from tracer arrival timing patterns using bolus tracking MRI. Journal of Magnetic Resonance Imaging, 2008, 27, 1371-1381.	3.4	42
110	Technical Aspects of Perfusion-Weighted Imaging. Neuroimaging Clinics of North America, 2005, 15, 623-637.	1.0	39
111	Neurovascular Coupling During Cortical Spreading Depolarization and â€“Depression. Stroke, 2015, 46, 1392-1401.	2.0	39
112	Making sense: Dopamine activates conscious selfâ€monitoring through medial prefrontal cortex. Human Brain Mapping, 2015, 36, 1866-1877.	3.6	37
113	White matter biomarkers from fast protocols using axially symmetric diffusion kurtosis imaging. NMR in Biomedicine, 2017, 30, e3741.	2.8	37
114	Final Infarct Size after Acute Stroke: Prediction with Flow Heterogeneity. Radiology, 2002, 225, 269-275.	7.3	36
115	Blood Pressure Reduction Does Not Reduce Perihematoma Oxygenation: A CT Perfusion Study. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 81-86.	4.3	35
116	Early Blood Brain Barrier Changes in Acute Ischemic Stroke: A Sequential MRI Study. Journal of Neuroimaging, 2015, 25, 959-963.	2.0	35
117	Better Diffusion Segmentation in Acute Ischemic Stroke Through Automatic Tree Learning Anomaly Segmentation. Frontiers in Neuroinformatics, 2018, 12, 21.	2.5	35
118	Neuropsychological Status and Structural Brain Imaging in Adults With Simple Congenital Heart Defects Closed in Childhood. Journal of the American Heart Association, 2020, 9, e015843.	3.7	35
119	Correlation between Diffusion- and Perfusion-Weighted MRI and Neurological Deficit Measured by the Scandinavian Stroke Scale and Barthel Index in Hyperacute Subcortical Stroke (â‰¤6 Hours). Cerebrovascular Diseases, 2001, 12, 203-213.	1.7	34
120	Perfusion MRI Derived Indices of Microvascular Shunting and Flow Control Correlate with Tumor Grade and Outcome in Patients with Cerebral Glioma. PLoS ONE, 2015, 10, e0123044.	2.5	34
121	Diffusion time dependence, power-law scaling, and exchange in gray matter. NeuroImage, 2022, 251, 118976.	4.2	34
122	Interrater Agreement for Final Infarct MRI Lesion Delineation. Stroke, 2009, 40, 3768-3771.	2.0	33
123	Susceptibility of Tmax to Tracer Delay on Perfusion Analysis: Quantitative Evaluation of Various Deconvolution Algorithms Using Digital Phantoms. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 908-912.	4.3	33
124	Very Low Cerebral Blood Volume Predicts Parenchymal Hematoma in Acute Ischemic Stroke. Stroke, 2013, 44, 2318-2320.	2.0	33
125	Microstructural changes in the thalamus after mild traumatic brain injury: A longitudinal diffusion and mean kurtosis tensor MRI study. Brain Injury, 2017, 31, 230-236.	1.2	33
126	Low on energy? An energy supply-demand perspective on stress and depression. Neuroscience and Biobehavioral Reviews, 2018, 94, 248-270.	6.1	33

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127	August Krogh's theory of muscle microvascular control and oxygen delivery: a paradigm shift based on new data. Journal of Physiology, 2020, 598, 4473-4507.	2.9	33
128	Assessment of tumor oxygenation and its impact on treatment response in bevacizumab-treated recurrent glioblastoma. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 485-494.	4.3	32
129	Hippocampal Atrophy Following Subarachnoid Hemorrhage Correlates with Disruption of Astrocyte Morphology and Capillary Coverage by AQP4. Frontiers in Cellular Neuroscience, 2018, 12, 19.	3.7	32
130	Microstructural changes in ischemic cortical gray matter predicted by a model of diffusionâ€weighted MRI. Journal of Magnetic Resonance Imaging, 2007, 26, 529-540.	3.4	31
131	Applying instance-based techniques to prediction of final outcome in acute stroke. Artificial Intelligence in Medicine, 2005, 33, 223-236.	6.5	30
132	Disturbances in the control of capillary flow in an aged APPswe/PS1Î”E9 model of Alzheimer's disease. Neurobiology of Aging, 2018, 62, 82-94.	3.1	30
133	Capillary flow disturbances after experimental subarachnoid hemorrhage: A contributor to delayed cerebral ischemia?. Microcirculation, 2019, 26, e12516.	1.8	30
134	Ephedrine versus Phenylephrine Effect on Cerebral Blood Flow and Oxygen Consumption in Anesthetized Brain Tumor Patients. Anesthesiology, 2020, 133, 304-317.	2.5	30
135	Elevated T2-values in MRI of stroke patients shortly after symptom onset do not predict irreversible tissue infarction. Brain, 2012, 135, 1981-1989.	7.6	29
136	Transit time homogenization in ischemic stroke â€“ A novel biomarker of penumbral microvascular failure?. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 2006-2020.	4.3	29
137	Predicting Tissue Outcome From Acute Stroke Magnetic Resonance Imaging. Stroke, 2009, 40, 3006-3011.	2.0	28
138	Cortical volumes and atrophy rates in FTD-3 CHMP2B mutation carriers and related non-carriers. NeuroImage, 2009, 45, 713-721.	4.2	28
139	Combretastatin A-4 Phosphate Affects Tumor Vessel Volume and Size Distribution as Assessed Using MRI-Based Vessel Size Imaging. Clinical Cancer Research, 2012, 18, 6469-6477.	7.0	27
140	The Danish High Risk and Resilience Studyâ€”VIA 11: Study Protocol for the First Follow-Up of the VIA 7 Cohort â˜522 Children Born to Parents With Schizophrenia Spectrum Disorders or Bipolar Disorder and Controls Being Re-examined for the First Time at Age 11. Frontiers in Psychiatry, 2018, 9, 661.	2.6	27
141	On the Oxygenation of Hemoglobin in the Human Brain. Advances in Experimental Medicine and Biology, 1999, 471, 67-81.	1.6	27
142	Regional Cerebral Blood Flow Distributions in Normal Volunteers: Dynamic Susceptibility Contrast MRI Compared with 99mTc-HMPAO SPECT. Journal of Computer Assisted Tomography, 2000, 24, 526-530.	0.9	26
143	Quantitative cerebral perfusion using the PRESTO acquisition scheme. Journal of Magnetic Resonance Imaging, 2004, 20, 930-940.	3.4	26
144	Intravascular contrast agentâ€enhanced MRI measuring contrast clearance and tumor blood volume and the effects of vascular modifiers in an experimental tumor. International Journal of Radiation Oncology Biology Physics, 2005, 61, 1208-1215.	0.8	26

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145	Predicting Infarction Within the Diffusion-Weighted Imaging Lesion. Stroke, 2011, 42, 1602-1607.	2.0	26
146	Remote Ischemic Perconditioning in Thrombolysed Stroke Patients: Randomized Study of Activating Endogenous Neuroprotection â€“ Design and MRI Measurements. International Journal of Stroke, 2013, 8, 141-146.	5.9	26
147	Abnormal Intravoxel Cerebral Blood Flow Heterogeneity in Human Ischemic Stroke Determined by Dynamic Susceptibility Contrast Magnetic Resonance Imaging. Stroke, 2005, 36, 44-49.	2.0	25
148	Total Mismatch. Stroke, 2009, 40, 3400-3402.	2.0	24
149	Non-invasive imaging of combretastatin activity in two tumor models: Association with invasive estimates. Acta OncolÃ³gica, 2010, 49, 906-913.	1.8	22
150	Time evolution of cerebral perfusion and apparent diffusion coefficient measured by magnetic resonance imaging in a porcine stroke model. Journal of Magnetic Resonance Imaging, 2002, 15, 123-129.	3.4	21
151	Assessing the outcome of stroke: a comparison between MRI and clinical stroke scales. Acta Neurologica Scandinavica, 2006, 113, 100-107.	2.1	21
152	Oxygenation differs among white matter hyperintensities, intersected fiber tracts and unaffected white matterâ€. Brain Communications, 2019, 1, fcz033.	3.3	21
153	Theory of susceptibility-induced transverse relaxation in the capillary network in the diffusion narrowing regime. Magnetic Resonance in Medicine, 2005, 53, 564-573.	3.0	20
154	Development of neuromodulation treatments in a large animal modelâ€"Do neurosurgeons dream of electric pigs?. Progress in Brain Research, 2011, 194, 97-103.	1.4	20
155	Effects of Vasopressors on Cerebral Circulation and Oxygenation: A Narrative Review of Pharmacodynamics in Health and Traumatic Brain Injury. Journal of Neurosurgical Anesthesiology, 2020, 32, 18-28.	1.2	20
156	Cerebral Macro- and Microcirculation during Ephedrine versus Phenylephrine Treatment in Anesthetized Brain Tumor Patients: A Randomized Clinical Trial Using Magnetic Resonance Imaging. Anesthesiology, 2021, 135, 788-803.	2.5	20
157	Preclinical Studies to Predict Efficacy of Vascular Changes Induced by Combretastatin A-4 Disodium Phosphate in Patients. International Journal of Radiation Oncology Biology Physics, 2008, 70, 859-866.	0.8	19
158	Carbogen inhalation increases oxygen transport to hypoperfused brain tissue in patients with occlusive carotid artery disease. Brain Research, 2009, 1304, 90-95.	2.2	19
159	Spatial distribution of malignant tissue in gliomas: correlations of ¹¹C-L-methionine positron emission tomography and perfusion- and diffusion-weighted magnetic resonance imaging. Acta Radiologica, 2015, 56, 1135-1144.	1.1	19
160	The effects of hypercapnia on cortical capillary transit time heterogeneity (CTH) in anesthetized mice. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 290-303.	4.3	19
161	Noninvasive Characterization of Tumor Angiogenesis and Oxygenation in Bevacizumab-treated Recurrent Glioblastoma by Using Dynamic Susceptibility MRI: Secondary Analysis of the European Organization for Research and Treatment of Cancer 26101 Trial. Radiology, 2020, 297, 164-175.	7.3	19
162	Radiation administered as a large single dose or in a fractionated schedule: Role of the tumour vasculature as a target for influencing response. Acta OncolÃ³gica, 2006, 45, 876-880.	1.8	18

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163	Feasibility and logistics of MRI before thrombolytic treatment. Acta Neurologica Scandinavica, 2009, 120, 143-149.	2.1	18
164	Correlations between Stroop task performance and white matter lesion measures in late-onset major depression. Psychiatry Research - Neuroimaging, 2012, 202, 142-149.	1.8	18
165	Reduced cerebral cortical thickness in Non-cirrhotic patients with hepatitis C. Metabolic Brain Disease, 2016, 31, 311-319.	2.9	18
166	Kroghâ€™s capillary recruitment hypothesis, 100 years on: Is the opening of previously closed capillaries necessary to ensure muscle oxygenation during exercise?. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H425-H447.	3.2	18
167	Statin Therapy and Risk of Polyneuropathy in Type 2 Diabetes: A Danish Cohort Study. Diabetes Care, 2020, 43, 2945-2952.	8.6	18
168	Impaired perfusion and capillary dysfunction in prodromal Alzheimer's disease. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2020, 12, e12032.	2.4	18
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