Tim Q Duong

List of Publications by Citations

268 papers	10,219 citations	55 h-index	90 g-index
281 ext. papers	11,644 ext. citations	5.1 avg, IF	6.35 L-index

#	Paper	IF	Citations
268	High-resolution mapping of iso-orientation columns by fMRI. *Nature Neuroscience*, **2000**, 3, 164-9	25.5	335
267	Microvascular BOLD contribution at 4 and 7 T in the human brain: gradient-echo and spin-echo fMRI with suppression of blood effects. *Magnetic Resonance in Medicine*, **2003**, 49, 1019-27	4.4	296
266	Localized cerebral blood flow response at submillimeter columnar resolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 10904-9	11.5	296
265	Spin-echo fMRI in humans using high spatial resolutions and high magnetic fields. *Magnetic Resonance in Medicine*, **2003**, 49, 655-64	4.4	253
264	Effects of hypoxia, hyperoxia, and hypercapnia on baseline and stimulus-evoked BOLD, CBF, and CMRO2 in spontaneously breathing animals. *NeuroImage*, **2005**, 25, 850-8	7.9	231
263	Functional MRI of calcium-dependent synaptic activity: cross correlation with CBF and BOLD measurements. *Magnetic Resonance in Medicine*, **2000**, 43, 383-92	4.4	231
262	Relative changes of cerebral arterial and venous blood volumes during increased cerebral blood flow: implications for BOLD fMRI. *Magnetic Resonance in Medicine*, **2001**, 45, 791-800	4.4	225
261	Regional cerebral blood flow and BOLD responses in conscious and anesthetized rats under basal and hypercapnic conditions: implications for functional MRI studies. *Journal of Cerebral Blood Flow and Metabolism*, **2003**, 23, 472-81	7.3	213
260	Evaluation of extra- and intracellular apparent diffusion in normal and globally ischemic rat brain via 19F NMR. *Magnetic Resonance in Medicine*, **1998**, 40, 1-13	4.4	209
259	Procedure for minimizing stress for fMRI studies in conscious rats. *Journal of Neuroscience Methods*, **2005**, 148, 154-60	3	177
258	A method for estimating and removing streaking artifacts in quantitative susceptibility mapping. *NeuroImage*, **2015**, 108, 111-22	7.9	167
257	Spatiotemporal dynamics of the BOLD fMRI signals: toward mapping submillimeter cortical columns using the early negative response. *Magnetic Resonance in Medicine*, **2000**, 44, 231-42	4.4	167
256	Nonlinear coupling between cerebral blood flow, oxygen consumption, and ATP production in human visual cortex. *Proceedings of the National Academy of Sciences of the United States of America* , **2010**, 107, 8446-51	11.5	149
255	Structural and functional MRI reveals multiple retinal layers. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 17525-30	11.5	136
254	Equilibrium water exchange between the intra- and extracellular spaces of mammalian brain. *Magnetic Resonance in Medicine*, **2003**, 50, 493-9	4.4	131
253	High-resolution, spin-echo BOLD, and CBF fMRI at 4 and 7 T. *Magnetic Resonance in Medicine*, **2002**, 48, 589-93	4.4	129
252	Characterizing the diffusion/perfusion mismatch in experimental focal cerebral ischemia. *Annals of Neurology*, **2004**, 55, 207-12	9.4	127

251	Imaging oxygen consumption in forepaw somatosensory stimulation in rats under isoflurane anesthesia. *Magnetic Resonance in Medicine*, **2004**, 52, 277-85	4.4	125
250	Myelination and long diffusion times alter diffusion-tensor-imaging contrast in myelin-deficient shiverer mice. *NeuroImage*, **2005**, 28, 165-74	7.9	123
249	Pixel-by-pixel spatiotemporal progression of focal ischemia derived using quantitative perfusion and diffusion imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2003**, 23, 1479-88	7.3	116
248	Effect of hyperoxia, hypercapnia, and hypoxia on cerebral interstitial oxygen tension and cerebral blood flow. *Magnetic Resonance in Medicine*, **2001**, 45, 61-70	4.4	110
247	In vivo MR measurements of regional arterial and venous blood volume fractions in intact rat brain. *Magnetic Resonance in Medicine*, **2000**, 43, 393-402	4.4	109
246	Tauopathy with paired helical filaments in an aged chimpanzee. *Journal of Comparative Neurology*, **2008**, 509, 259-70	3.4	105
245	Prediction model and risk scores of ICU admission and mortality in COVID-19. *PLoS ONE*, **2020**, 15, e0236618	3.7	102
244	Functional, perfusion and diffusion MRI of acute focal ischemic brain injury. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, 1265-79	7.3	100
243	Detunable transverse electromagnetic (TEM) volume coil for high-field NMR. *Magnetic Resonance in Medicine*, **2002**, 47, 990-1000	4.4	99
242	Simplified laser-speckle-imaging analysis method and its application to retinal blood flow imaging. *Optics Letters*, **2007**, 32, 2188-90	3	98
241	Activation of neural pathways associated with sexual arousal in non-human primates. *Journal of Magnetic Resonance Imaging*, **2004**, 19, 168-75	5.6	94
240	Regional Cerebral Blood Flow and BOLD Responses in Conscious and Anesthetized Rats Under Basal and Hypercapnic Conditions: Implications for Functional MRI Studies. *Journal of Cerebral Blood Flow and Metabolism*, **2003**, 472-481	7.3	92
239	Temporal statistical analysis of laser speckle images and its application to retinal blood-flow imaging. *Optics Express*, **2008**, 16, 10214-9	3.3	90
238	Predicting COVID-19 Pneumonia Severity on Chest X-ray With Deep Learning. *Cureus*, **2020**, 12, e9448	1.2	90
237	The neural consequences of repeated cocaine exposure revealed by functional MRI in awake rats. *Neuropsychopharmacology*, **2005**, 30, 936-43	8.7	88
236	Functional imaging of brain activity in conscious monkeys responding to sexually arousing cues. *NeuroReport*, **2001**, 12, 2231-6	1.7	87
235	Corticothalamic modulation during absence seizures in rats: a functional MRI assessment. *Epilepsia*, **2003**, 44, 1133-40	6.4	85
234	Reduced ocular blood flow as an early indicator of diabetic retinopathy in a mouse model of diabetes **2012**, 53, 6488-94		83

233	FMRI of brain activation in a genetic rat model of absence seizures. *Epilepsia*, **2004**, 45, 576-82	6.4	83
232	Changes in MRI signal intensity during hypercapnic challenge under conscious and anesthetized conditions. *Magnetic Resonance Imaging*, **2003**, 21, 995-1001	3.3	83
231	Differences in ischemic lesion evolution in different rat strains using diffusion and perfusion imaging. *Stroke*, **2005**, 36, 2000-5	6.7	81
230	Neural bases of food perception: coordinate-based meta-analyses of neuroimaging studies in multiple modalities. *Obesity*, **2014**, 22, 1439-46	8	71
229	Evaluation of intracellular diffusion in normal and globally-ischemic rat brain via 133Cs NMR. *Magnetic Resonance in Medicine*, **1996**, 35, 329-35	4.4	70
228	Continued In-Hospital Angiotensin-Converting Enzyme Inhibitor and Angiotensin II Receptor Blocker Use in Hypertensive COVID-19 Patients Is Associated With Positive Clinical Outcome. *Journal of Infectious Diseases*, **2020**, 222, 1256-1264	7	68
227	Spatiotemporal dynamics of diffusional kurtosis, mean diffusivity and perfusion changes in experimental stroke. *Brain Research*, **2012**, 1451, 100-9	3.7	67
226	Cerebral blood flow and BOLD fMRI responses to hypoxia in awake and anesthetized rats. *Brain Research*, **2007**, 1135, 186-94	3.7	67
225	Multiparametric MRI characterization and prediction in autism spectrum disorder using graph theory and machine learning. *PLoS ONE*, **2014**, 9, e90405	3.7	65
224	Long-term changes of functional MRI-based brain function, behavioral status, and histopathology after transient focal cerebral ischemia in rats. *Stroke*, **2006**, 37, 2593-600	6.7	65
223	Imaging cocaine-induced changes in the mesocorticolimbic dopaminergic system of conscious rats. *Journal of Neuroscience Methods*, **2004**, 139, 167-76	3	65
222	Extracellular apparent diffusion in rat brain. *Magnetic Resonance in Medicine*, **2001**, 45, 801-10	4.4	65
221	Deep transfer learning artificial intelligence accurately stages COVID-19 lung disease severity on portable chest radiographs. *PLoS ONE*, **2020**, 15, e0236621	3.7	65
220	Effects of reperfusion on ADC and CBF pixel-by-pixel dynamics in stroke: characterizing tissue fates using quantitative diffusion and perfusion imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2004**, 24, 280-90	7.3	63
219	CBF, BOLD, CBV, and CMRO(2) fMRI signal temporal dynamics at 500-msec resolution. *Journal of Magnetic Resonance Imaging*, **2008**, 27, 599-606	5.6	62
218	Transcranial imaging of functional cerebral hemodynamic changes in single blood vessels using in vivo photoacoustic microscopy. *Journal of Cerebral Blood Flow and Metabolism*, **2012**, 32, 938-51	7.3	61
217	Functional magnetic resonance imaging of the retina. *Investigative Ophthalmology and Visual Science*, **2002**, 43, 1176-81		57
216	Effects of common anesthetics on eye movement and electroretinogram. *Documenta Ophthalmologica*, **2011**, 122, 163-76	2.2	56

215	White matter lesion load is associated with resting state functional MRI activity and amyloid PET but not FDG in mild cognitive impairment and early Alzheimer's disease patients. *Journal of Magnetic Resonance Imaging*, **2015**, 41, 102-9	5.6	55
214	Dynamic tracking of acute ischemic tissue fates using improved unsupervised ISODATA analysis of high-resolution quantitative perfusion and diffusion data. *Journal of Cerebral Blood Flow and Metabolism*, **2004**, 24, 887-97	7.3	55
213	Can current fMRI techniques reveal the micro-architecture of cortex?. *Nature Neuroscience*, **2000**, 3, 413-4	15.5	55
212	Decreased retinal-choroidal blood flow in retinitis pigmentosa as measured by MRI. *Documenta Ophthalmologica*, **2013**, 126, 187-97	2.2	54
211	Methylene blue is neuroprotective against mild traumatic brain injury. *Journal of Neurotrauma*, **2014**, 31, 1063-71	5.4	54
210	Methylene blue as a cerebral metabolic and hemodynamic enhancer. *PLoS ONE*, **2012**, 7, e46585	3.7	52
209	Layer-specific anatomical, physiological and functional MRI of the retina. *NMR in Biomedicine*, **2008**, 21, 978-96	4.4	51
208	The size of corpus callosum correlates with functional activation of medial motor cortical areas in bimanual and unimanual movements. *Cerebral Cortex*, **2003**, 13, 475-85	5.1	51
207	Cerebral blood flow MRI in mice using the cardiac-spin-labeling technique. *Magnetic Resonance in Medicine*, **2008**, 60, 744-8	4.4	50
206	Blood-flow magnetic resonance imaging of the retina. *NeuroImage*, **2008**, 39, 1744-51	7.9	48
205	Multiparametric and longitudinal MRI characterization of mild traumatic brain injury in rats. *Journal of Neurotrauma*, **2015**, 32, 598-607	5.4	45
204	Striatal and cortical BOLD, blood flow, blood volume, oxygen consumption, and glucose consumption changes in noxious forepaw electrical stimulation. *Journal of Cerebral Blood Flow and Metabolism*, **2011**, 31, 832-41	7.3	45
203	Hemodynamic and metabolic changes induced by cocaine in anesthetized rat observed with multimodal functional MRI. *Psychopharmacology*, **2006**, 185, 479-86	4.7	45
202	Echo-planar BOLD fMRI of mice on a narrow-bore 9.4 T magnet. *Magnetic Resonance in Medicine*, **2004**, 52, 430-4	4.4	45
201	Neuroprotective efficacy of methylene blue in ischemic stroke: an MRI study. *PLoS ONE*, **2013**, 8, e79833	3.7	45
200	MRI of retinal and choroidal blood flow with laminar resolution. *NMR in Biomedicine*, **2011**, 24, 216-23	4.4	44
199	Magnetic resonance imaging of tissue and vascular layers in the cat retina. *Journal of Magnetic Resonance Imaging*, **2006**, 23, 465-72	5.6	44
198	Statistical prediction of tissue fate in acute ischemic brain injury. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, 1336-45	7.3	44

197	Characterizing tissue fate after transient cerebral ischemia of varying duration using quantitative diffusion and perfusion imaging. *Stroke*, **2007**, 38, 1336-44	6.7	43
196	Spatiotemporal characteristics of postischemic hyperperfusion with respect to changes in T1, T2, diffusion, angiography, and blood-brain barrier permeability. *Journal of Cerebral Blood Flow and Metabolism*, **2011**, 31, 2076-85	7.3	40
195	Susceptibility tensor imaging (STI) of the brain. *NMR in Biomedicine*, **2017**, 30, e3540	4.4	39
194	Artificial neural network prediction of ischemic tissue fate in acute stroke imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2010**, 30, 1661-70	7.3	39
193	Deep-learning artificial intelligence analysis of clinical variables predicts mortality in COVID-19 patients. *Journal of the American College of Emergency Physicians Open*, **2020**, 1, 1364	1.6	39
192	Quantitative retinal and choroidal blood flow during light, dark adaptation and flicker light stimulation in rats using fluorescent microspheres. *Current Eye Research*, **2013**, 38, 292-8	2.9	38
191	Baseline CBF, and BOLD, CBF, and CMRO2 fMRI of visual and vibrotactile stimulations in baboons. *Journal of Cerebral Blood Flow and Metabolism*, **2011**, 31, 715-24	7.3	38
190	MRI of blood flow of the human retina. *Magnetic Resonance in Medicine*, **2011**, 65, 1768-75	4.4	38
189	Mapping cortical columnar structures using fMRI. *Physiology and Behavior*, **2002**, 77, 641-4	3.5	38
188	Effects of intravenous dimethyl sulfoxide on ischemia evolution in a rat permanent occlusion model. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, 968-77	7.3	37
187	Clinical Characterization and Prediction of Clinical Severity of SARS-CoV-2 Infection Among US Adults Using Data From the US National COVID Cohort Collaborative. *JAMA Network Open*, **2021**, 4, e2116901	10.4	37
186	Blood longitudinal (T1) and transverse (T2) relaxation time constants at 11.7 Tesla. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2012**, 25, 245-9	2.8	36
185	Arterial spin labeling and dynamic susceptibility contrast CBF MRI in postischemic hyperperfusion, hypercapnia, and after mannitol injection. *Journal of Cerebral Blood Flow and Metabolism*, **2011**, 31, 1403-11	7.3	36
184	Decreased in vitro mitochondrial function is associated with enhanced brain metabolism, blood flow, and memory in Surf1-deficient mice. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 1605-11	7.3	35
183	Ultra high-resolution fMRI and electrophysiology of the rat primary somatosensory cortex. *NeuroImage*, **2013**, 73, 113-20	7.9	35
182	Stroke neuroprotection: targeting mitochondria. *Brain Sciences*, **2013**, 3, 540-60	3.4	35
181	Depth-resolved blood oxygen saturation measurement by dual-wavelength photothermal (DWP) optical coherence tomography. *Biomedical Optics Express*, **2011**, 2, 491-504	3.5	33
180	Osteopontin expression in intratumoral astrocytes marks tumor progression in gliomas induced by prenatal exposure to N-ethyl-N-nitrosourea. *American Journal of Pathology*, **2006**, 168, 1676-85	5.8	33

179	Lamina-specific anatomic magnetic resonance imaging of the human retina **2011**, 52, 7232-7		32
178	Deep learning prediction of likelihood of ICU admission and mortality in COVID-19 patients using clinical variables. *PeerJ*, **2020**, 8, e10337	3.1	32
177	Blood flow magnetic resonance imaging of retinal degeneration **2009**, 50, 1824-30		31
176	Machine-learning classification of texture features of portable chest X-ray accurately classifies COVID-19 lung infection. *BioMedical Engineering OnLine*, **2020**, 19, 88	4.1	31
175	Spatiotemporal changes in blood-brain barrier permeability, cerebral blood flow, T2 and diffusion following mild traumatic brain injury. *Brain Research*, **2016**, 1646, 53-61	3.7	31
174	Methylene blue potentiates stimulus-evoked fMRI responses and cerebral oxygen consumption during normoxia and hypoxia. *NeuroImage*, **2013**, 72, 237-42	7.9	30
173	Lamina-specific functional MRI of retinal and choroidal responses to visual stimuli **2011**, 52, 5303-10		30
172	Laser speckle contrast imaging of blood flow in rat retinas using an endoscope. *Journal of Biomedical Optics*, **2013**, 18, 090501	3.5	29
171	Blood flow MRI of the human retina/choroid during rest and isometric exercise **2012**, 53, 4299-305		29
170	Magnetic resonance imaging indicates decreased choroidal and retinal blood flow in the DBA/2J mouse model of glaucoma **2012**, 53, 560-4		29
169	Differential recovery of multimodal MRI and behavior after transient focal cerebral ischemia in rats. *Journal of Cerebral Blood Flow and Metabolism*, **2006**, 26, 1451-62	7.3	29
168	Layer-specific blood-flow MRI of retinitis pigmentosa in RCS rats. *Experimental Eye Research*, **2012**, 101, 90-6	3.7	28
167	Layer-specific functional and anatomical MRI of the retina with passband balanced SSFP. *Magnetic Resonance in Medicine*, **2011**, 66, 1416-21	4.4	28
166	Perfusion and diffusion imaging in acute focal cerebral ischemia: temporal vs. spatial resolution. *Brain Research*, **2005**, 1043, 155-62	3.7	28
165	Quantitative prediction of acute ischemic tissue fate using support vector machine. *Brain Research*, **2011**, 1405, 77-84	3.7	27
164	Longitudinal study of tumor-associated macrophages during tumor expansion using MRI. *NMR in Biomedicine*, **2011**, 24, 1353-60	4.4	27
163	Cerebral angiography, blood flow and vascular reactivity in progressive hypertension. *NeuroImage*, **2015**, 111, 329-37	7.9	26
162	Multi-region hemispheric specialization differentiates human from nonhuman primate brain function. *Brain Structure and Function*, **2014**, 219, 2187-94	4	26

161	Quantitative basal CBF and CBF fMRI of rhesus monkeys using three-coil continuous arterial spin labeling. *NeuroImage*, **2007**, 34, 1074-83	7.9	26
160	Balanced steady state free precession for arterial spin labeling MRI: Initial experience for blood flow mapping in human brain, retina, and kidney. *Magnetic Resonance Imaging*, **2013**, 31, 1044-50	3.3	25
159	Magnetic resonance imaging of vascular oxygenation changes during hyperoxia and carbogen challenges in the human retina **2011**, 52, 286-91		25
158	Magnetic resonance imaging of the retina. *Japanese Journal of Ophthalmology*, **2009**, 53, 352-67	2.6	24
157	Intraarterial transplantation of human umbilical cord blood mononuclear cells in hyperacute stroke improves vascular function. *Stem Cell Research and Therapy*, **2017**, 8, 74	8.3	23
156	Blood flow and anatomical MRI in a mouse model of retinitis pigmentosa. *Magnetic Resonance in Medicine*, **2013**, 69, 221-8	4.4	23
155	The Effects of Methylene Blue on Autophagy and Apoptosis in MRI-Defined Normal Tissue, Ischemic Penumbra and Ischemic Core. *PLoS ONE*, **2015**, 10, e0131929	3.7	23
154	MRI reveals differential regulation of retinal and choroidal blood volumes in rat retina. *NeuroImage*, **2011**, 54, 1063-9	7.9	23
153	Probing ischemic tissue fate with BOLD fMRI of brief oxygen challenge. *Brain Research*, **2011**, 1425, 132-41	3.7	23
152	Investigation of the cerebral hemodynamic response function in single blood vessels by functional photoacoustic microscopy. *Journal of Biomedical Optics*, **2012**, 17, 061210	3.5	23
151	Quantitative regional cerebral blood flow MRI of animal model of attention-deficit/hyperactivity disorder. *Brain Research*, **2007**, 1150, 217-24	3.7	23
150	Quantitative prediction of ischemic stroke tissue fate. *NMR in Biomedicine*, **2008**, 21, 839-48	4.4	23
149	Imaging neurovascular function and functional recovery after stroke in the rat striatum using forepaw stimulation. *Journal of Cerebral Blood Flow and Metabolism*, **2014**, 34, 1483-92	7.3	22
148	Magnetic resonance imaging of blood-brain barrier permeability in ischemic stroke using diffusion-weighted arterial spin labeling in rats. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 2706-2715	7.3	22
147	Choroidal blood flow decreases with age: an MRI study. *Current Eye Research*, **2014**, 39, 1059-67	2.9	21
146	Blood oxygenation level-dependent (BOLD) functional MRI of visual stimulation in the rat retina at 11.7 T. *NMR in Biomedicine*, **2011**, 24, 188-93	4.4	21
145	High-resolution 3D MR microangiography of the rat ocular circulation. *Radiology*, **2012**, 264, 234-41	20.5	21
144	Efficacy of recombinant annexin 2 for fibrinolytic therapy in a rat embolic stroke model: a magnetic resonance imaging study. *Brain Research*, **2007**, 1165, 135-43	3.7	21

143	Intrinsic Resting-State Functional Connectivity in the Human Spinal Cord at 3.0 T. *Radiology*, **2016**, 279, 262-8	20.5	20
142	FMRI of deep brain stimulation at the rat ventral posteromedial thalamus. *Brain Stimulation*, **2014**, 7, 190-3	5.1	20
141	A review of current imaging methods used in stroke research. *Neurological Research*, **2013**, 35, 1092-102	2.7	20
140	The effects of perturbed cerebral blood flow and cerebrovascular reactivity on structural MRI and behavioral readouts in mild traumatic brain injury. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 1852-61	7.3	19
139	Manganese-Enhanced Magnetic Resonance Imaging of Traumatic Brain Injury. *Journal of Neurotrauma*, **2015**, 32, 1001-10	5.4	19
138	Functional neuroimaging of the baboon during concurrent image-guided transcranial magnetic stimulation. *NeuroImage*, **2011**, 57, 1393-401	7.9	19
137	A quantitative MRI method for imaging blood-brain barrier leakage in experimental traumatic brain injury. *PLoS ONE*, **2014**, 9, e114173	3.7	18
136	Pharmacological MRI of the choroid and retina: blood flow and BOLD responses during nitroprusside infusion. *Magnetic Resonance in Medicine*, **2012**, 68, 1273-8	4.4	18
135	Endogenous opioid-dopamine neurotransmission underlie negative CBV fMRI signals. *Experimental Neurology*, **2012**, 234, 382-8	5.7	18
134	Brain MR perfusion-weighted imaging with alternate ascending/descending directional navigation. *Magnetic Resonance in Medicine*, **2011**, 65, 1578-91	4.4	18
133	DTI at long diffusion time improves fiber tracking. *NMR in Biomedicine*, **2010**, 23, 459-65	4.4	18
132	MRI Study of the Posterior Visual Pathways in Primary Open Angle Glaucoma. *Journal of Glaucoma*, **2017**, 26, 173-181	2.1	18
131	Retinotopic fMRI Reveals Visual Dysfunction and Functional Reorganization in the Visual Cortex of Mild to Moderate Glaucoma Patients. *Journal of Glaucoma*, **2017**, 26, 430-437	2.1	17
130	Multimodal Randomized Functional MR Imaging of the Effects of Methylene Blue in the Human Brain. *Radiology*, **2016**, 281, 516-526	20.5	17
129	Magnetic resonance imaging of the retina: from mice to men. *Magnetic Resonance in Medicine*, **2014** , 71, 1526-30	4.4	17
128	MRI study of cerebral, retinal and choroidal blood flow responses to acute hypertension. *Experimental Eye Research*, **2013**, 112, 118-24	3.7	17
127	A comparison of five standard methods for evaluating image intensity uniformity in partially parallel imaging MRI. *Medical Physics*, **2013**, 40, 082302	4.4	17
126	In vivo depth-resolved oxygen saturation by Dual-Wavelength Photothermal (DWP) OCT. *Optics Express*, **2011**, 19, 23831-44	3.3	17

125	Manganese-enhanced MRI reveals multiple cellular and vascular layers in normal and degenerated retinas. *Journal of Magnetic Resonance Imaging*, **2011**, 34, 1422-9	5.6	17
124	Reply to "Can current fMRI techniques reveal the micro-architecture of cortex?". *Nature Neuroscience*, **2000**, 3, 414	25.5	17
123	Altered excitatory amino acid function and morphology of the cerebellum of the spastic Han-Wistar rat. *Molecular Brain Research*, **1991**, 11, 27-36		17
122	Deep-learning convolutional neural networks with transfer learning accurately classify COVID-19 lung infection on portable chest radiographs. *PeerJ*, **2020**, 8, e10309	3.1	17
121	Methylene blue treatment delays progression of perfusion-diffusion mismatch to infarct in permanent ischemic stroke. *Brain Research*, **2014**, 1588, 144-9	3.7	16
120	Diffusion tensor and perfusion MRI of non-human primates. *Methods*, **2010**, 50, 125-35	4.6	16
119	Multimodal MRI Evaluation of the MitoPark Mouse Model of Parkinson's Disease. *PLoS ONE*, **2016**, 11, e0151884	3.7	16
118	Delayed Methylene Blue Improves Lesion Volume, Multi-Parametric Quantitative Magnetic Resonance Imaging Measurements, and Behavioral Outcome after Traumatic Brain Injury. *Journal of Neurotrauma*, **2016**, 33, 194-202	5.4	15
117	3D MRI of whole-brain water permeability with intrinsic diffusivity encoding of arterial labeled spin (IDEALS). *NeuroImage*, **2019**, 189, 401-414	7.9	15
116	Ultra-high spatial resolution basal and evoked cerebral blood flow MRI of the rat brain. *Brain Research*, **2015**, 1599, 126-36	3.7	15
115	Comparison of in vivo and ex vivo diffusion tensor imaging in rhesus macaques at short and long diffusion times. *Open Neuroimaging Journal*, **2011**, 5, 172-8	0.1	15
114	Methylene blue treatment in experimental ischemic stroke: a mini review. *Brain Circulation*, **2016**, 2, 48-53	3.7	15
113	Machining learning predicts the need for escalated care and mortality in COVID-19 patients from clinical variables. *International Journal of Medical Sciences*, **2021**, 18, 1739-1745	3.7	15
112	Dual-wavelength photothermal optical coherence tomography for imaging microvasculature blood oxygen saturation. *Journal of Biomedical Optics*, **2013**, 18, 56005	3.5	14
111	Alternate ascending/descending directional navigation approach for imaging magnetization transfer asymmetry. *Magnetic Resonance in Medicine*, **2011**, 65, 1702-10	4.4	14
110	BOLD fMRI of visual and somatosensory-motor stimulations in baboons. *NeuroImage*, **2010**, 52, 1420-7	7.9	14
109	Relaxation time constants and apparent diffusion coefficients of rat retina at 7 Tesla. *International Journal of Imaging Systems and Technology*, **2010**, 20, 126-130	2.5	14
108	Functional status of mechanically ventilated COVID-19 survivors at ICU and hospital discharge. *Journal of Intensive Care*, **2021**, 9, 31	7	14

107	Breast lesion characterization using whole-lesion histogram analysis with stretched-exponential diffusion model. *Journal of Magnetic Resonance Imaging*, **2018**, 47, 1701-1710	5.6	14
106	Spatiotemporal changes in diffusion, T2 and susceptibility of white matter following mild traumatic brain injury. *NMR in Biomedicine*, **2016**, 29, 896-903	4.4	13
105	Layer-specific manganese-enhanced MRI of the retina in light and dark adaptation **2012**, 53, 4352-8		13
104	MicroCT-based virtual histology evaluation of preclinical medulloblastoma. *Molecular Imaging and Biology*, **2011**, 13, 493-499	3.8	13
103	Background suppression in arterial spin labeling MRI with a separate neck labeling coil. *NMR in Biomedicine*, **2011**, 24, 1111-8	4.4	13
102	Multimodal MRI characterization of experimental subarachnoid hemorrhage. *Neuroscience*, **2016**, 316, 53-62	3.9	12
101	Targeted overexpression of endothelial nitric oxide synthase in endothelial cells improves cerebrovascular reactivity in Ins2Akita-type-1 diabetic mice. *Journal of Cerebral Blood Flow and Metabolism*, **2016**, 36, 1135-42	7.3	12
100	Comparison of retinal and cerebral blood flow between continuous arterial spin labeling MRI and fluorescent microsphere techniques. *Journal of Magnetic Resonance Imaging*, **2014**, 40, 609-15	5.6	12
99	Convolutional Neural Network Detection of Axillary Lymph Node Metastasis Using Standard Clinical Breast MRI. *Clinical Breast Cancer*, **2020**, 20, e301-e308	3	12
98	Methylene blue and normobaric hyperoxia combination therapy in experimental ischemic stroke. *Brain and Behavior*, **2016**, 6, e00478	3.4	12
97	Functional MRI of the mouse olfactory system. *Neuroscience Letters*, **2019**, 704, 57-61	3.3	11
96	Resting-state functional connectivity networks associated with fatigue in multiple sclerosis with early age onset. *Multiple Sclerosis and Related Disorders*, **2019**, 31, 101-105	4	11
95	Normobaric oxygen worsens outcome after a moderate traumatic brain injury. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 1137-44	7.3	11
94	Applications of diffusion/perfusion magnetic resonance imaging in experimental and clinical aspects of stroke. *Current Atherosclerosis Reports*, **2004**, 6, 267-73	6	11
93	MRI of perfusion-diffusion mismatch in non-human primate (baboon) stroke: a preliminary report. *Open Neuroimaging Journal*, **2011**, 5, 147-52	0.1	11
92	Quantitative cerebral blood flow measurements using MRI. *Methods in Molecular Biology*, **2014**, 1135, 205-11	1.4	11
91	Magnetic Resonance Imaging of Cerebral Blood Flow in Animal Stroke Models. *Brain Circulation*, **2016**, 2, 20-27	2.7	11
90	Functional MRI during hyperbaric oxygen: Effects of oxygen on neurovascular coupling and BOLD fMRI signals. *NeuroImage*, **2015**, 119, 382-9	7.9	10

89	Repolarized macrophages, induced by intermediate stereotactic dose radiotherapy and immune checkpoint blockade, contribute to long-term survival in glioma-bearing mice. *Journal of Neuro-Oncology*, **2020**, 147, 547-555	4.8	10
88	Recent MRI advances in experimental stroke. *Translational Stroke Research*, **2012**, 3, 1-3	7.8	10
87	Magnetic resonance imaging of perfusion-diffusion mismatch in rodent and non-human primate stroke models. *Neurological Research*, **2013**, 35, 465-9	2.7	10
86	Human vitreous: MR imaging of oxygen partial pressure. *Radiology*, **2013**, 266, 905-11	20.5	10
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