

Bruce R Rosen

List of Publications by Year in descending order

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Version: 2024-02-01

187
papers

34,097
citations

14655

66
h-index

3915

177
g-index

196
all docs

196
docs citations

196
times ranked

31211
citing authors

#	ARTICLE	IF	CITATIONS
1	Whole Brain Segmentation. <i>Neuron</i> , 2002, 33, 341-355.	8.1	7,404
2	Automatically Parcellating the Human Cerebral Cortex. <i>Cerebral Cortex</i> , 2004, 14, 11-22.	2.9	3,657
3	High resolution measurement of cerebral blood flow using intravascular tracer bolus passages. Part I: Mathematical approach and statistical analysis. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 715-725.	3.0	1,450
4	Image reconstruction by domain-transform manifold learning. <i>Nature</i> , 2018, 555, 487-492.	27.8	1,140
5	Perfusion imaging with NMR contrast agents. <i>Magnetic Resonance in Medicine</i> , 1990, 14, 249-265.	3.0	1,108
6	Mr contrast due to intravascular magnetic susceptibility perturbations. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 555-566.	3.0	922
7	A Functional MRI Study of Subjects Recovered From Hemiparetic Stroke. <i>Stroke</i> , 1997, 28, 2518-2527.	2.0	858
8	High resolution measurement of cerebral blood flow using intravascular tracer bolus passages. Part II: Experimental comparison and preliminary results. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 726-736.	3.0	805
9	Dynamic imaging with lanthanide chelates in normal brain: Contrast due to magnetic susceptibility effects. <i>Magnetic Resonance in Medicine</i> , 1988, 6, 164-174.	3.0	668
10	Microscopic susceptibility variation and transverse relaxation: Theory and experiment. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 601-610.	3.0	663
11	Visual motion aftereffect in human cortical area MT revealed by functional magnetic resonance imaging. <i>Nature</i> , 1995, 375, 139-141.	27.8	627
12	The counting stroop: An interference task specialized for functional neuroimaging-validation study with functional MRI. <i>Human Brain Mapping</i> , 1998, 6, 270-282.	3.6	604
13	Coupled electrophysiological, hemodynamic, and cerebrospinal fluid oscillations in human sleep. <i>Science</i> , 2019, 366, 628-631.	12.6	584
14	The intravascular contribution to fmri signal change: monte carlo modeling and diffusion-weighted studies in vivo. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 4-10.	3.0	570
15	Dynamic functional imaging of relative cerebral blood volume during rat forepaw stimulation. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 615-624.	3.0	539
16	Functional cerebral imaging by susceptibility-contrast NMR. <i>Magnetic Resonance in Medicine</i> , 1990, 14, 538-546.	3.0	507
17	Evidence of a Cerebrovascular Postarteriole Windkessel with Delayed Compliance. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 679-689.	4.3	480
18	Evidence for brain glial activation in chronic pain patients. <i>Brain</i> , 2015, 138, 604-615.	7.6	372

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19	Glial tumor grading and outcome prediction using dynamic spin-echo MR susceptibility mapping compared with conventional contrast-enhanced MR: confounding effect of elevated rCBV of oligodendrogliomas [corrected]. <i>American Journal of Neuroradiology</i> , 2004, 25, 214-21.	2.4	364
20	MR Contrast Due to Microscopically Heterogeneous Magnetic Susceptibility: Numerical Simulations and Applications to Cerebral Physiology. <i>Magnetic Resonance in Medicine</i> , 1991, 17, 336-347.	3.0	346
21	Pitfalls in MR measurement of tissue blood flow with intravascular tracers: Which mean transit time?. <i>Magnetic Resonance in Medicine</i> , 1993, 29, 553-558.	3.0	327
22	Perfusion-weighted imaging defects during spontaneous migrainous aura. <i>Annals of Neurology</i> , 1998, 43, 25-31.	5.3	317
23	Improved tumor oxygenation and survival in glioblastoma patients who show increased blood perfusion after cediranib and chemoradiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19059-19064.	7.1	303
24	Residual Convolutional Neural Network for the Determination of IDH Status in Low- and High-Grade Gliomas from MR Imaging. <i>Clinical Cancer Research</i> , 2018, 24, 1073-1081.	7.0	297
25	Imaging myocardial fiber architecture in vivo with magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 786-791.	3.0	283
26	Location of human face-selective cortex with respect to retinotopic areas. <i>Human Brain Mapping</i> , 1999, 7, 29-37.	3.6	273
27	Predicting Tissue Outcome in Acute Human Cerebral Ischemia Using Combined Diffusion- and Perfusion-Weighted MR Imaging. <i>Stroke</i> , 2001, 32, 933-942.	2.0	266
28	Distributed deep learning networks among institutions for medical imaging. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2018, 25, 945-954.	4.4	227
29	Auditory and visual word processing studied with fMRI. <i>Human Brain Mapping</i> , 1999, 7, 15-28.	3.6	225
30	Vessel architectural imaging identifies cancer patient responders to anti-angiogenic therapy. <i>Nature Medicine</i> , 2013, 19, 1178-1183.	30.7	212
31	MRI measurement of the temporal evolution of relative CMRO ₂ during rat forepaw stimulation. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 944-951.	3.0	209
32	MGH-USC Human Connectome Project datasets with ultra-high b-value diffusion MRI. <i>NeuroImage</i> , 2016, 124, 1108-1114.	4.2	209
33	Dynamic Magnetic Resonance Perfusion Imaging of Brain Tumors. <i>Oncologist</i> , 2004, 9, 528-537.	3.7	195
34	Coenzyme Q ₁₀ and nicotinamide block striatal lesions produced by the mitochondrial toxin malonate. <i>Annals of Neurology</i> , 1994, 36, 882-888.	5.3	183
35	Cortical surface-based analysis reduces bias and variance in kinetic modeling of brain PET data. <i>NeuroImage</i> , 2014, 92, 225-236.	4.2	179
36	Motion detection and correction in functional MR imaging. <i>Human Brain Mapping</i> , 1995, 3, 224-235.	3.6	176

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37	Increased in vivo glial activation in patients with amyotrophic lateral sclerosis: Assessed with [11C]-PBR28. <i>NeuroImage: Clinical</i> , 2015, 7, 409-414.	2.7	176
38	Segregation of Somatosensory Activation in the Human Rolandic Cortex Using fMRI. <i>Journal of Neurophysiology</i> , 2000, 84, 558-569.	1.8	156
39	Improving MR quantification of regional blood volume with intravascular T1 contrast agents: Accuracy, precision, and water exchange. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 858-867.	3.0	153
40	An fMRI study on the interaction and dissociation between expectation of pain relief and acupuncture treatment. <i>NeuroImage</i> , 2009, 47, 1066-1076.	4.2	151
41	Fast fMRI can detect oscillatory neural activity in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6679-E6685.	7.1	146
42	Expectancy and treatment interactions: A dissociation between acupuncture analgesia and expectancy evoked placebo analgesia. <i>NeuroImage</i> , 2009, 45, 940-949.	4.2	141
43	Multislice perfusion and perfusion territory imaging in humans with separate label and image coils. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 1093-1098.	3.0	135
44	A Pilot Study of Somatotopic Mapping After Cortical Infarct. <i>Stroke</i> , 2000, 31, 668-671.	2.0	134
45	Modeling Cerebral Blood Flow and Flow Heterogeneity from Magnetic Resonance Residue Data. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 690-699.	4.3	128
46	Automatic assessment of glioma burden: a deep learning algorithm for fully automated volumetric and bidimensional measurement. <i>Neuro-Oncology</i> , 2019, 21, 1412-1422.	1.2	128
47	Treatment Response Assessment in IDH-Mutant Glioma Patients by Noninvasive 3D Functional Spectroscopic Mapping of 2-Hydroxyglutarate. <i>Clinical Cancer Research</i> , 2016, 22, 1632-1641.	7.0	127
48	The Mind of a Mouse. <i>Cell</i> , 2020, 182, 1372-1376.	28.9	127
49	Dynamic functional imaging of brain glucose utilization using fPET-FDG. <i>NeuroImage</i> , 2014, 100, 192-199.	4.2	123
50	Regional sensitivity and coupling of BOLD and CBV changes during stimulation of rat brain. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 443-447.	3.0	122
51	Functional MRI studies of word-stem completion: Reliability across laboratories and comparison to blood flow imaging with PET. <i>Human Brain Mapping</i> , 1998, 6, 203-215.	3.6	116
52	Evaluation of Quantitative PET/MR Enterography Biomarkers for Discrimination of Inflammatory Strictures from Fibrotic Strictures in Crohn Disease. <i>Radiology</i> , 2016, 278, 792-800.	7.3	113
53	Ultra-Slow Single-Vessel BOLD and CBV-Based fMRI Spatiotemporal Dynamics and Their Correlation with Neuronal Intracellular Calcium Signals. <i>Neuron</i> , 2018, 97, 925-939.e5.	8.1	113
54	Measurement of regional blood oxygenation and cerebral hemodynamics. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 715-723.	3.0	112

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55	Neurovascular coupling to D2/D3 dopamine receptor occupancy using simultaneous PET/functional MRI. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11169-11174.	7.1	112
56	Resting-state "physiological networks". NeuroImage, 2020, 213, 116707.	4.2	111
57	Consensus recommendations for a dynamic susceptibility contrast MRI protocol for use in high-grade gliomas. Neuro-Oncology, 2020, 22, 1262-1275.	1.2	109
58	Pharmacodynamics of mutant-IDH1 inhibitors in glioma patients probed by in vivo 3D MRS imaging of 2-hydroxyglutarate. Nature Communications, 2018, 9, 1474.	12.8	106
59	Simultaneous functional magnetic resonance imaging and electrophysiological recording. Human Brain Mapping, 1995, 3, 13-23.	3.6	102
60	The relationship between catastrophizing and altered pain sensitivity in patients with chronic low-back pain. Pain, 2019, 160, 833-843.	4.2	101
61	3D GABA imaging with real-time motion correction, shim update and reacquisition of adiabatic spiral MRSI. NeuroImage, 2014, 103, 290-302.	4.2	100
62	Glial activation colocalizes with structural abnormalities in amyotrophic lateral sclerosis. Neurology, 2016, 87, 2554-2561.	1.1	83
63	Machine learning-based prediction of clinical pain using multimodal neuroimaging and autonomic metrics. Pain, 2019, 160, 550-560.	4.2	83
64	Abnormal medial prefrontal cortex functional connectivity and its association with clinical symptoms in chronic low back pain. Pain, 2019, 160, 1308-1318.	4.2	81
65	Investigation of the early response to rat forepaw stimulation. Magnetic Resonance in Medicine, 1999, 41, 247-252.	3.0	80
66	fMRI at 20: Has it changed the world?. NeuroImage, 2012, 62, 1316-1324.	4.2	75
67	Identifying brain regions associated with the neuropathology of chronic low back pain: a resting-state amplitude of low-frequency fluctuation study. British Journal of Anaesthesia, 2019, 123, e303-e311.	3.4	73
68	Visual network alterations in brain functional connectivity in chronic low back pain: A resting state functional connectivity and machine learning study. NeuroImage: Clinical, 2019, 22, 101775.	2.7	69
69	Toward an "In Vivo" Neuroimaging Template of Human Brainstem Nuclei of the Ascending Arousal, Autonomic, and Motor Systems. Brain Connectivity, 2015, 5, 597-607.	1.7	68
70	Toward 2020 magnetic resonance for human brain studies: opportunities for discovery and neuroscience rationale. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 617-639.	2.0	66
71	Real-time motion- and B0-correction for LASER-localized spiral-accelerated 3D-MRSI of the brain at 3T. NeuroImage, 2014, 88, 22-31.	4.2	64
72	Stimulus-dependent hemodynamic response timing across the human subcortical-cortical visual pathway identified through high spatiotemporal resolution 7T fMRI. NeuroImage, 2018, 181, 279-291.	4.2	63

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73	Somatotopically specific primary somatosensory connectivity to salience and default mode networks encodes clinical pain. <i>Pain</i> , 2019, 160, 1594-1605.	4.2	62
74	Neuronal nitric oxide synthase mutant mice show smaller infarcts and attenuated apparent diffusion coefficient changes in the peri-infarct zone during focal cerebral ischemia. <i>Magnetic Resonance in Medicine</i> , 1997, 37, 170-175.	3.0	61
75	Simultaneous fMRI-PET of the opioidergic pain system in human brain. <i>NeuroImage</i> , 2014, 102, 275-282.	4.2	59
76	Dopamine D ₁ signaling organizes network dynamics underlying working memory. <i>Science Advances</i> , 2016, 2, e1501672.	10.3	59
77	Imaging Agonist-Induced D2/D3 Receptor Desensitization and Internalization In Vivo with PET/fMRI. <i>Neuropsychopharmacology</i> , 2016, 41, 1427-1436.	5.4	59
78	Distinct thalamocortical network dynamics are associated with the pathophysiology of chronic low back pain. <i>Nature Communications</i> , 2020, 11, 3948.	12.8	59
79	Multivariate resting-state functional connectivity predicts responses to real and sham acupuncture treatment in chronic low back pain. <i>NeuroImage: Clinical</i> , 2019, 23, 101885.	2.7	58
80	Connectome 2.0: Developing the next-generation ultra-high gradient strength human MRI scanner for bridging studies of the micro-, meso- and macro-connectome. <i>NeuroImage</i> , 2021, 243, 118530.	4.2	58
81	A receptor-based model for dopamine-induced fMRI signal. <i>NeuroImage</i> , 2013, 75, 46-57.	4.2	57
82	Age-related alterations in axonal microstructure in the corpus callosum measured by high-gradient diffusion MRI. <i>NeuroImage</i> , 2019, 191, 325-336.	4.2	55
83	Hybrid FDG-PET/MR compared to FDG-PET/CT in adult lymphoma patients. <i>Abdominal Radiology</i> , 2016, 41, 1338-1348.	2.1	54
84	Colorectal cancer staging: comparison of whole-body PET/CT and PET/MR. <i>Abdominal Radiology</i> , 2017, 42, 1141-1151.	2.1	52
85	Axon diameter index estimation independent of fiber orientation distribution using high-gradient diffusion MRI. <i>NeuroImage</i> , 2020, 222, 117197.	4.2	49
86	Bevacizumab Reduces Permeability and Concurrent Temozolomide Delivery in a Subset of Patients with Recurrent Glioblastoma. <i>Clinical Cancer Research</i> , 2020, 26, 206-212.	7.0	48
87	Ultrafast Brain MRI: Clinical Deployment and Comparison to Conventional Brain MRI at 3T. <i>Journal of Neuroimaging</i> , 2016, 26, 503-510.	2.0	46
88	Quantitative Oxygen Extraction Fraction from 7-Tesla MRI Phase: Reproducibility and Application in Multiple Sclerosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 131-139.	4.3	45
89	Ultra high-field (7tesla) magnetic resonance spectroscopy in Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2017, 12, e0177680.	2.5	45
90	A probabilistic template of human mesopontine tegmental nuclei from in vivo 7 T MRI. <i>NeuroImage</i> , 2018, 170, 222-230.	4.2	45

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91	Reduced tactile acuity in chronic low back pain is linked with structural neuroplasticity in primary somatosensory cortex and is modulated by acupuncture therapy. <i>NeuroImage</i> , 2020, 217, 116899.	4.2	45
92	EPI Imaging of Global Increase of Brain MR Signal with Breath-hold Preceded by Breathing O ₂ . <i>Magnetic Resonance in Medicine</i> , 1995, 33, 448-452.	3.0	43
93	Impaired mesocorticolimbic connectivity underlies increased pain sensitivity in chronic low back pain. <i>NeuroImage</i> , 2020, 218, 116969.	4.2	43
94	Reproducible Machine Learning Methods for Lung Cancer Detection Using Computed Tomography Images: Algorithm Development and Validation. <i>Journal of Medical Internet Research</i> , 2020, 22, e16709.	4.3	43
95	Regional quantification of cerebral venous oxygenation from MRI susceptibility during hypercapnia. <i>NeuroImage</i> , 2015, 104, 146-155.	4.2	42
96	Functional Study of the Brain by NMR. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1994, 14, 365-372.	4.3	41
97	Acupuncture Treatment Modulates the Connectivity of Key Regions of the Descending Pain Modulation and Reward Systems in Patients with Chronic Low Back Pain. <i>Journal of Clinical Medicine</i> , 2020, 9, 1719.	2.4	41
98	Improving staging of rectal cancer in the pelvis: the role of PET/MRI. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 1235-1245.	6.4	40
99	A 31â€channel MR brain array coil compatible with positron emission tomography. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2363-2375.	3.0	38
100	Repeatability of Cerebral Perfusion Using Dynamic Susceptibility Contrast MRI in Glioblastoma Patients. <i>Translational Oncology</i> , 2015, 8, 137-146.	3.7	38
101	Motionless Movies of Myocardial Strain-Rates using Stimulated Echoes. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 401-408.	3.0	36
102	Multimodality imaging and mathematical modelling of drug delivery to glioblastomas. <i>Interface Focus</i> , 2016, 6, 20160039.	3.0	34
103	A localized double-quantum filter for their vivo detection of brain glucose. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 651-656.	3.0	32
104	Evoked itch perception is associated with changes in functional brain connectivity. <i>NeuroImage: Clinical</i> , 2015, 7, 213-221.	2.7	32
105	Management implications of fluorodeoxyglucose positron emission tomography/magnetic resonance in untreated intrahepatic cholangiocarcinoma. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 1871-1884.	6.4	32
106	Radiomics Repeatability Pitfalls in a Scan-Rescan MRI Study of Glioblastoma. <i>Radiology: Artificial Intelligence</i> , 2021, 3, e190199.	5.8	32
107	Volumetric relationship between 2-hydroxyglutarate and FLAIR hyperintensity has potential implications for radiotherapy planning of mutant<i>IDH</i> glioma patients. <i>Neuro-Oncology</i> , 2016, 18, now100.	1.2	30
108	Imaging of glia activation in people with primary lateral sclerosis. <i>NeuroImage: Clinical</i> , 2018, 17, 347-353.	2.7	29

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109	Implementation and Validation of a Three-dimensional Cardiac Motion Estimation Network. <i>Radiology: Artificial Intelligence</i> , 2019, 1, e180080.	5.8	29
110	A pilot trial of RNS60 in amyotrophic lateral sclerosis. <i>Muscle and Nerve</i> , 2019, 59, 303-308.	2.2	29
111	Comparison of the clinical performance of upper abdominal PET/DCE-MRI with and without concurrent respiratory motion correction (MoCo). <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 45, 2147-2154.	6.4	28
112	Clinical impact of PET/MR in treated colorectal cancer patients. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2260-2269.	6.4	28
113	Reduced insula habituation associated with amplification of trigeminal brainstem input in migraine. <i>Cephalgia</i> , 2017, 37, 1026-1038.	3.9	26
114	DeepNeuro: an open-source deep learning toolbox for neuroimaging. <i>Neuroinformatics</i> , 2021, 19, 127-140.	2.8	26
115	<i>In Vivo</i> [¹⁸ F]GE-179 Brain Signal Does Not Show NMDA-Specific Modulation with Drug Challenges in Rodents and Nonhuman Primates. <i>ACS Chemical Neuroscience</i> , 2018, 9, 298-305.	3.5	25
116	PET/MRI assessment of lung nodules in primary abdominal malignancies: sensitivity and outcome analysis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 1976-1986.	6.4	25
117	The pandemic brain: Neuroinflammation in non-infected individuals during the COVID-19 pandemic. <i>Brain, Behavior, and Immunity</i> , 2022, 102, 89-97.	4.1	25
118	Whole brain mapping of water pools and molecular dynamics with rotating frame MR relaxation using gradient modulated low-power adiabatic pulses. <i>NeuroImage</i> , 2014, 89, 92-109.	4.2	24
119	High b-value and high Resolution Integrated Diffusion (HIBRID) imaging. <i>NeuroImage</i> , 2017, 150, 162-176.	4.2	24
120	Effects of flow changes on radiotracer binding: Simultaneous measurement of neuroreceptor binding and cerebral blood flow modulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 131-146.	4.3	24
121	Computation of ultimate SAR amplification factors for radiofrequency hyperthermia in non-uniform body models: impact of frequency and tumour location. <i>International Journal of Hyperthermia</i> , 2018, 34, 87-100.	2.5	22
122	3D Echo Planar Time-resolved Imaging (3D-EPTI) for ultrafast multi-parametric quantitative MRI. <i>NeuroImage</i> , 2022, 250, 118963.	4.2	22
123	Neuroprotective changes in degeneration-related gene expression in the substantia nigra following acupuncture in an MPTP mouse model of Parkinsonism: Microarray analysis. <i>Genetics and Molecular Biology</i> , 2015, 38, 115-127.	1.3	21
124	Layer-specific interhemispheric functional connectivity in the somatosensory cortex of rats: resting state electrophysiology and fMRI studies. <i>Brain Structure and Function</i> , 2016, 221, 2801-2815.	2.3	21
125	Field of View Normalization in Multi-Site Brain MRI. <i>Neuroinformatics</i> , 2018, 16, 431-444.	2.8	20
126	Comparison of CBF Measured with Combined Velocity-Selective Arterial Spin-Labeling and Pulsed Arterial Spin-Labeling to Blood Flow Patterns Assessed by Conventional Angiography in Pediatric Moyamoya. <i>American Journal of Neuroradiology</i> , 2019, 40, 1842-1849.	2.4	20

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127	Nonspecific Magnetic Resonance Appearance of Renal Oncocytomas: Report of 3 Cases and Review of the Literature. <i>Journal of Urology</i> , 1991, 145, 552-554.	0.4	19
128	Ultrafast MR imaging of water mobility: Animal models of altered cerebral perfusion. <i>Journal of Magnetic Resonance Imaging</i> , 1992, 2, 377-384.	3.4	18
129	Three-dimensional MR spectroscopic imaging using adiabatic spin echo and hypergeometric dual-band suppression for metabolic mapping over the entire brain. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 490-497.	3.0	18
130	Mapping the human connectome using diffusion MRI at 300 mT/m gradient strength: Methodological advances and scientific impact. <i>NeuroImage</i> , 2022, 254, 118958.	4.2	18
131	Diagnostic Performance of a 10-Minute Gadolinium-Enhanced Brain MRI Protocol Compared with the Standard Clinical Protocol for Detection of Intracranial Enhancing Lesions. <i>American Journal of Neuroradiology</i> , 2017, 38, 1689-1694.	2.4	17
132	An Efficient Approach to Perform MR-Assisted PET Data Optimization in Simultaneous PET/MR Neuroimaging Studies. <i>Journal of Nuclear Medicine</i> , 2019, 60, 272-278.	5.0	17
133	Development of Prefrontal Cortical Connectivity and the Enduring Effect of Learned Value on Cognitive Control. <i>Journal of Cognitive Neuroscience</i> , 2019, 31, 64-77.	2.3	17
134	Cerebrovascular reactivity assessment with O ₂ -CO ₂ exchange ratio under brief breath hold challenge. <i>PLoS ONE</i> , 2020, 15, e0225915.	2.5	17
135	Rapid computation of TMS-induced E-fields using a dipole-based magnetic stimulation profile approach. <i>NeuroImage</i> , 2021, 237, 118097.	4.2	17
136	Functional Characterization of 5-HT _{1B} Receptor Drugs in Nonhuman Primates Using Simultaneous PET-MR. <i>Journal of Neuroscience</i> , 2017, 37, 10671-10678.	3.6	16
137	Early changes in glioblastoma metabolism measured by MR spectroscopic imaging during combination of anti-angiogenic cediranib and chemoradiation therapy are associated with survival. <i>Npj Precision Oncology</i> , 2017, 1, .	5.4	16
138	Imaging Neurochemistry and Brain Structure Tracks Clinical Decline and Mechanisms of ALS in Patients. <i>Frontiers in Neurology</i> , 2020, 11, 590573.	2.4	16
139	Location of Subcortical Microbleeds and Recovery of Consciousness After Severe Traumatic Brain Injury. <i>Neurology</i> , 2021, 97, e113-e123.	1.1	16
140	Comprehensive diffusion MRI dataset for in vivo human brain microstructure mapping using 300 mT/m gradients. <i>Scientific Data</i> , 2022, 9, 7.	5.3	16
141	Gender Differences in the Neural Response to Acupuncture: Clinical Implications. <i>Acupuncture in Medicine</i> , 2016, 34, 364-372.	1.0	15
142	DeepStrain: A Deep Learning Workflow for the Automated Characterization of Cardiac Mechanics. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 730316.	2.4	15
143	Functional oxygen extraction fraction (OEF) imaging with turbo gradient spin echo QUIXOTIC (Turbo) T _j ETQq1 1 0,784314 rgBT /Overlo	3.0	14
144	Blood Oxygen Level-Dependent MRI of the Myocardium with Multiecho Gradient-Echo Spin-Echo Imaging. <i>Radiology</i> , 2020, 294, 538-545.	7.3	14

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145	Investigating mechanisms of fast BOLD responses: The effects of stimulus intensity and of spatial heterogeneity of hemodynamics. <i>NeuroImage</i> , 2021, 245, 118658.	4.2	13
146	Myo-Inositol Levels Measured with MR Spectroscopy Can Help Predict Failure of Antiangiogenic Treatment in Recurrent Glioblastoma. <i>Radiology</i> , 2022, 302, 410-418.	7.3	13
147	Differential associations between systemic markers of disease and cortical thickness in healthy middle-aged and older adults. <i>NeuroImage</i> , 2017, 146, 19-27.	4.2	12
148	Maturational Changes in Human Dorsal and Ventral Visual Networks. <i>Cerebral Cortex</i> , 2019, 29, 5131-5149.	2.9	12
149	Diagnostic performance of PET/MR in the evaluation of active inflammation in Crohn disease. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 8, 62-69.	1.0	12
150	Probing tumor microenvironment in patients with newly diagnosed glioblastoma during chemoradiation and adjuvant temozolomide with functional MRI. <i>Scientific Reports</i> , 2018, 8, 17062.	3.3	11
151	The counting stroop: An interference task specialized for functional neuroimaging validation study with functional MRI. <i>Human Brain Mapping</i> , 1998, 6, 270-282.	3.6	11
152	Effects of ferumoxytol on quantitative PET measurements in simultaneous PET/MR whole-body imaging: a pilot study in a baboon model. <i>EJNMMI Physics</i> , 2015, 2, 6.	2.7	10
153	Ultra-high field (7T) functional magnetic resonance imaging in amyotrophic lateral sclerosis: a pilot study. <i>NeuroImage: Clinical</i> , 2021, 30, 102648.	2.7	10
154	A regularized full reference tissue model for PET neuroreceptor mapping. <i>NeuroImage</i> , 2016, 139, 405-414.	4.2	9
155	Vascular dysfunction promotes regional hypoxia after bevacizumab therapy in recurrent glioblastoma patients. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa157.	0.7	8
156	Dynamic brain-body coupling of breath-by-breath O ₂ -CO ₂ exchange ratio with resting state cerebral hemodynamic fluctuations. <i>PLoS ONE</i> , 2020, 15, e0238946.	2.5	8
157	Selective magnetic resonance imaging of magnetic nanoparticles by acoustically induced rotary saturation. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 97-106.	3.0	7
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