Meng Law

List of Publications by Year in Descending Order

114 papers	7,977 citations	36 h-index	89 g-index
125 ext. papers	9,476 ext. citations	5.8 avg, IF	5.66 L-index

#	Paper	IF	Citations
114	Asymmetric distribution of enlarged perivascular spaces in centrum semiovale may be associated with epilepsy after acute ischemic stroke.. *CNS Neuroscience and Therapeutics*, **2022**,	6.8	1
113	Lesion Volume in Relapsing Multiple Sclerosis is Associated with Perivascular Space Enlargement at the Level of the Basal Ganglia.. *American Journal of Neuroradiology*, **2022**, 43, 238-244	4.4	1
112	Longitudinal tracking of axonal loss using diffusion magnetic resonance imaging in multiple sclerosis.. *Brain Communications*, **2022**, 4, fcac065	4.5	
111	The effect of prolonged spaceflight on cerebrospinal fluid and perivascular spaces of astronauts and cosmonauts.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2120439119	11.5	2
110	Sodium selenate as a disease-modifying treatment for progressive supranuclear palsy: protocol for a phase 2, randomised, double-blind, placebo-controlled trial.. *BMJ Open*, **2021**, 11, e055019	3	
109	CLiP, catheter and line position dataset. *Scientific Data*, **2021**, 8, 285	8.2	3
108	Body mass index, time of day and genetics affect perivascular spaces in the white matter. *Journal of Cerebral Blood Flow and Metabolism*, **2021**, 41, 1563-1578	7.3	13
107	Diffusion Imaging Reveals Sex Differences in the White Matter Following Sports-Related Concussion. *Cerebral Cortex*, **2021**, 31, 4411-4419	5.1	6
106	White and Gray Matter Abnormalities in Australian Footballers With a History of Sports-Related Concussion: An MRI Study. *Cerebral Cortex*, **2021**, 31, 5331-5338	5.1	2
105	Neuroimaging at 3T vs 7T: Is It Really Worth It?. *Magnetic Resonance Imaging Clinics of North America*, **2021**, 29, 1-12	1.6	2
104	Cognitive ocular motor deficits and white matter damage chronically after sports-related concussion. *Brain Communications*, **2021**, 3, fcab213	4.5	2
103	Perivascular Space Imaging at Ultrahigh Field MR Imaging. *Magnetic Resonance Imaging Clinics of North America*, **2021**, 29, 67-75	1.6	4
102	The RSNA Pulmonary Embolism CT Dataset. *Radiology: Artificial Intelligence*, **2021**, 3, e200254	8.7	10
101	Artificial intelligence in medical imaging: implications for patient radiation safety. *British Journal of Radiology*, **2021**, 94, 20210406	3.4	2
100	Association of Immunosuppression and Viral Load With Subcortical Brain Volume in an International Sample of People Living With HIV. *JAMA Network Open*, **2021**, 4, e2031190	10.4	4
99	Clinical utility of deep learning motion correction for T1 weighted MPRAGE MR images. *European Journal of Radiology*, **2020**, 133, 109384	4.7	0
98	Microstructural correlates of Na relaxation in human brain at 7 Tesla. *NeuroImage*, **2020**, 211, 116609	7.9	0

97	Treatment of symptomatic fibroid disease using uterine fibroid embolisation: An Australian perspective. *Australian and New Zealand Journal of Obstetrics and Gynaecology*, **2020**, 60, 324-329	1.7	3
96	APOE4 leads to blood-brain barrier dysfunction predicting cognitive decline. *Nature*, **2020**, 581, 71-76	50.4	356
95	Tracer kinetic models as temporal constraints during brain tumor DCE-MRI reconstruction. *Medical Physics*, **2020**, 47, 37-51	4.4	3
94	Technique, radiation safety and image quality for chest X-ray imaging through glass and in mobile settings during the COVID-19 pandemic. *Physical and Engineering Sciences in Medicine*, **2020**, 43, 765-779	7	10
93	Artificial intelligence for clinical decision support in neurology. *Brain Communications*, **2020**, 2, fcaa096	4.5	14
92	Serum Protein Biomarker Findings Reflective of Oxidative Stress and Vascular Abnormalities in Male, but Not Female, Collision Sport Athletes. *Frontiers in Neurology*, **2020**, 11, 549624	4.1	10
91	Advanced ADC Histogram, Perfusion, and Permeability Metrics Show an Association with Survival and Pseudoprogression in Newly Diagnosed Diffuse Intrinsic Pontine Glioma: A Report from the Pediatric Brain Tumor Consortium. *American Journal of Neuroradiology*, **2020**, 41, 718-724	4.4	8
90	Image processing approaches to enhance perivascular space visibility and quantification using MRI. *Scientific Reports*, **2019**, 9, 12351	4.9	21
89	The LONI QC System: A Semi-Automated, Web-Based and Freely-Available Environment for the Comprehensive Quality Control of Neuroimaging Data. *Frontiers in Neuroinformatics*, **2019**, 13, 60	3.9	17
88	Perivascular space fluid contributes to diffusion tensor imaging changes in white matter. *NeuroImage*, **2019**, 197, 243-254	7.9	38
87	Nonparenchymal fluid is the source of increased mean diffusivity in preclinical Alzheimer's disease. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2019**, 11, 348-354	5.2	8
86	Signal Hyperintensity on Unenhanced T1-Weighted Brain and Cervical Spinal Cord MR Images after Multiple Doses of Linear Gadolinium-Based Contrast Agent. *American Journal of Neuroradiology*, **2019**, 40, 1274-1281	4.4	2
85	Multicenter study demonstrates radiomic features derived from magnetic resonance perfusion images identify pseudoprogression in glioblastoma. *Nature Communications*, **2019**, 10, 3170	17.4	69
84	Repeated mild traumatic brain injuries induce persistent changes in plasma protein and magnetic resonance imaging biomarkers in the rat. *Scientific Reports*, **2019**, 9, 14626	4.9	18
83	Physicochemical Investigation into Major League Baseballs in the Era of Unprecedented Rise in Home Runs. *ACS Omega*, **2019**, 4, 20109-20117	3.9	0
82	Undetectable gadolinium brain retention in individuals with an age-dependent blood-brain barrier breakdown in the hippocampus and mild cognitive impairment. *Alzheimer's and Dementia*, **2019**, 15, 1568-1575	1.2	10
81	Assessment of metallic patient support devices and other items at 7-Tesla: Findings applied to 46 additional devices. *Magnetic Resonance Imaging*, **2019**, 57, 250-253	3.3	3
80	Vascular dysfunction-The disregarded partner of Alzheimer's disease. *Alzheimer's and Dementia*, **2019**, 15, 158-167	1.2	265

79	Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. *Nature Medicine*, **2019**, 25, 270-276	50.5	577
78	Clinical 7 T MRI: Are we there yet? A review about magnetic resonance imaging at ultra-high field. *British Journal of Radiology*, **2019**, 92, 20180492	3.4	32
77	7-Tesla MRI of the brain in a research subject with bilateral, total knee replacement implants: Case report and proposed safety guidelines. *Magnetic Resonance Imaging*, **2019**, 57, 313-316	3.3	3
76	Conventional and Advanced Imaging of Spine Oncologic Disease, Nonoperative Post-treatment Effects, and Unique Spinal Conditions. *Neurosurgery*, **2018**, 82, 1-23	3.2	4
75	Nervous System Injury and Neuroimaging of Zika Virus Infection. *Frontiers in Neurology*, **2018**, 9, 227	4.1	9
74	Analytic Tools for Post-traumatic Epileptogenesis Biomarker Search in Multimodal Dataset of an Animal Model and Human Patients. *Frontiers in Neuroinformatics*, **2018**, 12, 86	3.9	15
73	Impact of Neuroradiology Staffing on Academic Hospital Level Quality and Cost Measures for the Neuroscience Service Line. *Journal of the American College of Radiology*, **2018**, 15, 1609-1612	3.5	
72	A T1 and DTI fused 3D corpus callosum analysis in MCI subjects with high and low cardiovascular risk profile. *NeuroImage: Clinical*, **2017**, 14, 298-307	5.3	8
71	CT Angiography of the Head in Extracorporeal Membrane Oxygenation. *American Journal of Neuroradiology*, **2017**, 38, 773-776	4.4	12
70	Abnormal brain function in neuromyelitis optica: A fMRI investigation of mPASAT. *European Journal of Radiology*, **2017**, 95, 197-201	4.7	3
69	Symptomatic orbital cysticercosis: Patterns of positive imaging findings on CT. *Radiology of Infectious Diseases*, **2017**, 4, 108-112	2	
68	Dysregulation of PINCH signaling in mesial temporal epilepsy. *Journal of Clinical Neuroscience*, **2017** , 36, 43-52	2.2	10
67	Brain cortical structural differences between non-central nervous system cancer patients treated with and without chemotherapy compared to non-cancer controls: a cross-sectional pilot MRI study using clinically-indicated scans. *Proceedings of SPIE*, **2017**, 10572,	1.7	5
66	The Clinical Outcome of Posterior Reversible Encephalopathy Syndrome. *American Journal of Neuroradiology*, **2016**, 37, E55-6	4.4	5
65	Atypical central neurocytoma with metastatic craniospinal dissemination: a case report. *Clinical Imaging*, **2016**, 40, 1108-1111	2.7	3
64	Optimal acquisition and modeling parameters for accurate assessment of low Ktrans blood-brain barrier permeability using dynamic contrast-enhanced MRI. *Magnetic Resonance in Medicine*, **2016**, 75, 1967-77	4.4	70
63	Automated retinofugal visual pathway reconstruction with multi-shell HARDI and FOD-based analysis. *NeuroImage*, **2016**, 125, 767-779	7.9	38
62	25 Years of Contrast-Enhanced MRI: Developments, Current Challenges and Future Perspectives. *Advances in Therapy*, **2016**, 33, 1-28	4.1	211

61	Predicting Meningioma Consistency on Preoperative Neuroimaging Studies. *Neurosurgery Clinics of North America*, **2016**, 27, 145-54	4	24
60	GOCART: GOlden-angle CArtesian randomized time-resolved 3D MRI. *Magnetic Resonance Imaging*, **2016**, 34, 940-50	3.3	25
59	High-resolution whole-brain DCE-MRI using constrained reconstruction: Prospective clinical evaluation in brain tumor patients. *Medical Physics*, **2016**, 43, 2013	4.4	22
58	A T1 and DTI fused 3D Corpus Callosum analysis in pre- vs. post-season contact sports players. *Proceedings of SPIE*, **2015**, 9287,	1.7	10
57	An anatomic review of thalamolimbic fiber tractography: ultra-high resolution direct visualization of thalamolimbic fibers anterior thalamic radiation, superolateral and inferomedial medial forebrain bundles, and newly identified septum pellucidum tract. *World Neurosurgery*, **2015**, 83, 54-61.e32	2.1	29
56	Principles of T2 *-weighted dynamic susceptibility contrast MRI technique in brain tumor imaging. *Journal of Magnetic Resonance Imaging*, **2015**, 41, 296-313	5.6	76
55	Imaging of the Posttherapeutic Brain. *Topics in Magnetic Resonance Imaging*, **2015**, 24, 147-54	2.3	6
54	Fiber estimation and tractography in diffusion MRI: development of simulated brain images and comparison of multi-fiber analysis methods at clinical b-values. *NeuroImage*, **2015**, 109, 341-56	7.9	67
53	Blood-brain barrier breakdown in the aging human hippocampus. *Neuron*, **2015**, 85, 296-302	13.9	1023
52	Clinical applications of diffusion tensor imaging. *World Neurosurgery*, **2014**, 82, 96-109	2.1	78
51	Pictorial review of in vivo human brain: from anatomy to molecular imaging. *World Neurosurgery*, **2014**, 82, 72-95	2.1	9
50	Diffusion restriction in a non-enhancing metastatic brain tumor treated with bevacizumab - recurrent tumor or atypical necrosis?. *Clinical Imaging*, **2014**, 38, 724-6	2.7	4
49	Multimodal magnetic resonance imaging evaluation of primary brain tumors. *Seminars in Oncology*, **2014**, 41, 478-495	5.5	10
48	Technological advances in neuroimaging: neurosurgical applications for the future. *World Neurosurgery*, **2014**, 82, 32-4	2.1	2
47	Highly accelerated dynamic contrast enhanced imaging. *Magnetic Resonance in Medicine*, **2014**, 71, 635-44	4.4	27
46	Magnetic resonance imaging of infectious meningitis and ventriculitis in adults. *Topics in Magnetic Resonance Imaging*, **2014**, 23, 315-25	2.3	24
45	Concurrent intracranial and spinal subdural hematoma in a teenage athlete: a case report of this rare entity. *Case Reports in Radiology*, **2014**, 2014, 143408	0.6	6
44	Image coregistration: quantitative processing framework for the assessment of brain lesions. *Journal of Digital Imaging*, **2014**, 27, 369-79	5.3	7

43	Effect of Data Acquisition and Analysis Method on Fiber Orientation Estimation in Diffusion MRI. *Mathematics and Visualization*, **2014**, 2013, 13-24	0.6	2
42	Perfusion MRI: the five most frequently asked technical questions. *American Journal of Roentgenology*, **2013**, 200, 24-34	5.4	225
41	Clinical image quality assessment of accelerated magnetic resonance neuroimaging using compressed sensing. *Investigative Radiology*, **2013**, 48, 638-45	10.1	61
40	A system architecture for sharing de-identified, research-ready brain scans and health information across clinical imaging centers. *Studies in Health Technology and Informatics*, **2012**, 175, 19-28	0.5	2
39	Diffusion tensor MR imaging (DTI) metrics in the cervical spinal cord in asymptomatic HIV-positive patients. *Neuroradiology*, **2011**, 53, 585-92	3.2	12
38	Relative cerebral blood volume measurements of low-grade gliomas predict patient outcome in a multi-institution setting. *European Journal of Radiology*, **2010**, 73, 215-20	4.7	61
37	Perfusion MRI of Brain Neoplams. *Current Medical Imaging*, **2010**, 6, 232-245	1.2	1
36	Advanced imaging techniques in brain tumors. *Cancer Imaging*, **2009**, 9 Spec No A, S4-9	5.6	33
35	Consensus recommendations to accelerate clinical trials for neurofibromatosis type 2. *Clinical Cancer Research*, **2009**, 15, 5032-5039	12.9	61
34	Correlation of volumetric mismatch and mismatch of Alberta Stroke Program Early CT Scores on CT perfusion maps. *Neuroradiology*, **2009**, 51, 17-23	3.2	30
33	Neurological complications. *Cancer Imaging*, **2009**, 9 Spec No A, S71-4	5.6	8
32	Prognostic value of proton magnetic resonance spectroscopy findings in near drowning patients: reversibility of the early metabolite abnormalities relates with a good outcome. *Arquivos De Neuro-Psiquiatria*, **2009**, 67, 55-7	1.6	4
31	Intracranial lesions mimicking neoplasms. *Archives of Pathology and Laboratory Medicine*, **2009**, 133, 101-23	3	30
30	Imaging of lymphoma of the central nervous system, spine, and orbit. *Radiologic Clinics of North America*, **2008**, 46, 339-61, ix	2.3	53
29	Gliomas: predicting time to progression or survival with cerebral blood volume measurements at dynamic susceptibility-weighted contrast-enhanced perfusion MR imaging. *Radiology*, **2008**, 247, 490-8	20.5	403
28	Central nervous system lymphoma characterization by diffusion-weighted imaging and MR spectroscopy. *Journal of Neuroimaging*, **2008**, 18, 411-7	2.8	107
27	Differentiating intracranial aspergillosis from a high grade glioma using MRI and MR spectroscopic imaging. *Journal of Neuroimaging*, **2007**, 17, 361-6	2.8	8
26	Perfusion MR imaging and proton MR spectroscopic imaging in differentiating necrotizing cerebritis from glioblastoma multiforme. *Magnetic Resonance Imaging*, **2007**, 25, 238-43	3.3	17

25	Brainstem corticospinal tract diffusion tensor imaging in patients with primary posterior fossa neoplasms stratified by tumor type: a study of association with motor weakness and outcome. *Neurosurgery*, **2007**, 61, 1199-207; discussion 1207-8	3.2	26
24	The emerging role of multidetector row CT angiography in the diagnosis of cervical arterial dissection: preliminary study. *Neuroradiology*, **2006**, 48, 606-12	3.2	46
23	Low-grade gliomas: dynamic susceptibility-weighted contrast-enhanced perfusion MR imaging--prediction of patient clinical response. *Radiology*, **2006**, 238, 658-67	20.5	206
22	Magnetic resonance and diffusion tensor imaging in pediatric white matter diseases. *Topics in Magnetic Resonance Imaging*, **2006**, 17, 265-74	2.3	17
21	Angiogenesis in gliomas: biology and molecular pathophysiology. *Brain Pathology*, **2005**, 15, 297-310	6	254
20	Angiogenesis in gliomas: imaging and experimental therapeutics. *Brain Pathology*, **2005**, 15, 342-63	6	44
19	Applications of diffusion tensor MR imaging in multiple sclerosis. *Annals of the New York Academy of Sciences*, **2005**, 1064, 202-19	6.5	76
18	Novel approach to the measurement of absolute cerebral blood volume using vascular-space-occupancy magnetic resonance imaging. *Magnetic Resonance in Medicine*, **2005**, 54, 1403-11	4.4	97
17	Prominent perivenular spaces in multiple sclerosis as a sign of perivascular inflammation in primary demyelination. *American Journal of Neuroradiology*, **2005**, 26, 2316-9	4.4	36
16	Dynamic susceptibility contrast perfusion MR imaging of multiple sclerosis lesions: characterizing hemodynamic impairment and inflammatory activity. *American Journal of Neuroradiology*, **2005**, 26, 1539-47	4.4	108
15	Diffusion-tensor MR imaging of intracranial neoplasia and associated peritumoral edema: introduction of the tumor infiltration index. *Radiology*, **2004**, 232, 221-8	20.5	259
14	Microvascular abnormality in relapsing-remitting multiple sclerosis: perfusion MR imaging findings in normal-appearing white matter. *Radiology*, **2004**, 231, 645-52	20.5	192
13	Differentiating surgical from non-surgical lesions using perfusion MR imaging and proton MR spectroscopic imaging. *Technology in Cancer Research and Treatment*, **2004**, 3, 557-65	2.7	37
12	Conventional MR imaging with simultaneous measurements of cerebral blood volume and vascular permeability in ganglioglioma. *Magnetic Resonance Imaging*, **2004**, 22, 599-606	3.3	25
11	MR spectroscopy of brain tumors. *Topics in Magnetic Resonance Imaging*, **2004**, 15, 291-313	2.3	68
10	Comparison of cerebral blood volume and vascular permeability from dynamic susceptibility contrast-enhanced perfusion MR imaging with glioma grade. *American Journal of Neuroradiology*, **2004**, 25, 746-55	4.4	353
9	Dynamic susceptibility contrast-enhanced perfusion and conventional MR imaging findings for adult patients with cerebral primitive neuroectodermal tumors. *American Journal of Neuroradiology* , **2004**, 25, 997-1005	4.4	15
8	Imaging of the intracranial venous system with a contrast-enhanced volumetric interpolated examination. *European Radiology*, **2003**, 13, 1010-8	8	30

7	Dynamic contrast-enhanced perfusion MR imaging measurements of endothelial permeability: differentiation between atypical and typical meningiomas. *American Journal of Neuroradiology*, **2003**, 24, 1554-9	4.4	99
6	Conventional and perfusion MR imaging of parafalcine chondrosarcoma. *American Journal of Neuroradiology*, **2003**, 24, 245-8	4.4	18
5	Glioma grading: sensitivity, specificity, and predictive values of perfusion MR imaging and proton MR spectroscopic imaging compared with conventional MR imaging. *American Journal of Neuroradiology*, **2003**, 24, 1989-98	4.4	725
4	High-grade gliomas and solitary metastases: differentiation by using perfusion and proton spectroscopic MR imaging. *Radiology*, **2002**, 222, 715-21	20.5	444
3	Relative cerebral blood volume measurements in intracranial mass lesions: interobserver and intraobserver reproducibility study. *Radiology*, **2002**, 224, 797-803	20.5	207
2	Proton MR spectroscopy of tumefactive demyelinating lesions. *American Journal of Neuroradiology*, **2002**, 23, 1378-86	4.4	94
1	Preoperative assessment of intracranial tumors with perfusion MR and a volumetric interpolated examination: a comparative study with DSA. *American Journal of Neuroradiology*, **2002**, 23, 1767-74	4.4	20