Farshid Sepehrband

List of Publications by Year
in descending order

50 papers	2,356 citations	394421 19 h-index	315739 38 g-index
62 all docs	62 docs citations	62 times ranked	3730 citing authors

#	Article	IF	Citations
1	Blood–brain barrier breakdown is an early biomarker of human cognitive dysfunction. Nature Medicine, 2019, 25, 270-276.	30.7	987
2	Quantitative Comparison of Reconstruction Methods for Intra-Voxel Fiber Recovery From Diffusion MRI. IEEE Transactions on Medical Imaging, 2014, 33, 384-399.	8.9	145
3	Brain tissue compartment density estimated using diffusion–weighted <scp>MRI</scp> yields tissue parameters consistent with histology. Human Brain Mapping, 2015, 36, 3687-3702.	3.6	113
4	Neuroanatomical morphometric characterization of sex differences in youth using statistical learning. NeuroImage, 2018, 172, 217-227.	4.2	82
5	Towards higher sensitivity and stability of axon diameter estimation with diffusion–weighted MRI. NMR in Biomedicine, 2016, 29, 293-308.	2.8	70
6	Image processing approaches to enhance perivascular space visibility and quantification using MRI. Scientific Reports, 2019, 9, 12351.	3.3	67
7	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.	2.2	66
8	Complement C5aR1 Signaling Promotes Polarization and Proliferation of Embryonic Neural Progenitor Cells through PKCζ. Journal of Neuroscience, 2017, 37, 5395-5407.	3.6	63
9	Perivascular space fluid contributes to diffusion tensor imaging changes in white matter. NeuroImage, 2019, 197, 243-254.	4.2	62
10	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.	4.3	57
11	Three-dimensional MRI study of the relationship between eye dimensions, retinal shape and myopia. Biomedical Optics Express, 2017, 8, 2386.	2.9	54
12	Cross-scanner and cross-protocol multi-shell diffusion MRI data harmonization: Algorithms and results. NeuroImage, 2020, 221, 117128.	4.2	54
13	Global and Regional Changes in Perivascular Space in Idiopathic and Familial Parkinson's Disease. Movement Disorders, 2021, 36, 1126-1136.	3.9	49
14	Volumetric distribution of perivascular space in relation to mild cognitive impairment. Neurobiology of Aging, 2021, 99, 28-43.	3.1	45
15	Retrospective motion artifact correction of structural MRI images using deep learning improves the quality of cortical surface reconstructions. NeuroImage, 2021, 230, 117756.	4.2	39
16	Imaging perivascular space structure and function using brain MRI. NeuroImage, 2022, 257, 119329.	4.2	29
17	Analytic Tools for Post-traumatic Epileptogenesis Biomarker Search in Multimodal Dataset of an Animal Model and Human Patients. Frontiers in Neuroinformatics, 2018, 12, 86.	2.5	28
18	Three–dimensional self–attention conditional GAN with spectral normalization for multimodal neuroimaging synthesis. Magnetic Resonance in Medicine, 2021, 86, 1718-1733.	3.0	28

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19	Parametric Probability Distribution Functions for Axon Diameters of Corpus Callosum. Frontiers in Neuroanatomy, 2016, 10, 59.	1.7	26
20	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.	7.1	26
21	Validation of a partial coherence interferometry method for estimating retinal shape. Biomedical Optics Express, 2015, 6, 3235.	2.9	24
22	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.	0.8	22
23	The relation of structural integrity and task-related functional connectivity in the aging brain. Neurobiology of Aging, 2015, 36, 2830-2837.	3.1	21
24	Lens Shape and Refractive Index Distribution in Type 1 Diabetes. , 2015, 56, 4759.		20
25	Perivascular Space Imaging at Ultrahigh Field MR Imaging. Magnetic Resonance Imaging Clinics of North America, 2021, 29, 67-75.	1.1	19
26	A time‐efficient acquisition protocol for multipurpose diffusion‐weighted microstructural imaging at 7 Tesla. Magnetic Resonance in Medicine, 2017, 78, 2170-2184.	3.0	18
27	Imputation Strategy for Reliable Regional MRI Morphological Measurements. Neuroinformatics, 2020, 18, 59-70.	2.8	13
28	Muti-shell Diffusion MRI Harmonisation and Enhancement Challenge (MUSHAC): Progress and Results. Mathematics and Visualization, 2019, , 217-224.	0.6	12
29	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.	2.4	11
30	Microstructural properties within the amygdala and affiliated white matter tracts across adolescence. NeuroImage, 2021, 243, 118489.	4.2	10
31	Simple lossless and near-lossless medical image compression based on enhanced DPCM transformation. , 2011, , .		9
32	White Matter Microstructural Differences in Youth With Classical Congenital Adrenal Hyperplasia. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 3196-3212.	3.6	8
33	Acquiring and Predicting Multidimensional Diffusion (MUDI) Data: An Open Challenge. Mathematics and Visualization, 2020, , 195-208.	0.6	8
34	Homologous laminar organization of the mouse and human subiculum. Scientific Reports, 2021, 11, 3729.	3.3	7
35	lop-DWI: A Novel Scheme for Pre-Processing of Diffusion-Weighted Images in the Gradient Direction Domain. Frontiers in Neurology, 2014, 5, 290.	2.4	6
36	IC‐P‐059: REVEALING SMALL SUBFIELDS OF HIPPOCAMPUS IN VIVO WITH 7T STRUCTURAL MRI. Alzheimer's and Dementia, 2018, 14, P55.	0.8	5

#	Article	IF	Citations
37	Binary Hybrid GA-PSO based algorithm for compression of hyperspectral data. , 2011, , .		4
38	Efficient medical image transformation method for lossless compression by considering real time applications. , 2010, , .		3
39	Life After Mild Traumatic Brain Injury: Widespread Structural Brain Changes Associated With Psychological Distress Revealed With Multimodal Magnetic Resonance Imaging. Biological Psychiatry Global Open Science, 2023, 3, 374-385.	2.2	3
40	Pitch extraction using dyadic wavelet transform and modified higher order moment. , 2010, , .		2
41	An efficient lossless medical image transformation method by improving prediction model. , 2010, , .		2
42	Simple and efficient remote sensing image transformation for lossless compression. Proceedings of SPIE, 2011, , .	0.8	2
43	Alteration of perivascular spaces in early cognitive decline. Alzheimer's and Dementia, 2020, 16, e045605.	0.8	2
44	A new method for compression of remote sensing images based on an enhanced differential pulse code modulation transformation. ScienceAsia, 2013, 39, 546.	0.5	2
45	Comparison study between dyadic wavelet transform and modified higher order moment. , 2011, , .		0
46	Intracellular signal changes in the anterosuperior medial temporal lobe associated with early cognitive decline. Alzheimer's and Dementia, 2020, 16, e044218.	0.8	0
47	Perivascular space alteration in idiopathic and familial Parkinson's disease. Alzheimer's and Dementia, 2020, 16, e044269.	0.8	0
48	Differential correlation of white matter hyperintensity with Alzheimer's pathology within A/T groups. Alzheimer's and Dementia, 2021, 17, .	0.8	0
49	Microstructural mapping of dentate gyrus pathology in Alzheimer's disease: A 16.4 Tesla magnetic resonance imaging study. Alzheimer's and Dementia, 2021, 17, .	0.8	0
50	Premortem perivascular space morphology is a predictor of postmortem glia tau pathology in Alzheimer's disease.. Alzheimer's and Dementia, 2021, 17 Suppl 3, e054579.	0.8	0