Siamak P Nejad-Davarani

List of Publications by Year
in descending order

30 papers	1,427 citations	471509 17 h-index	477307 29 g-index
30 all docs	30 docs citations	30 times ranked	2277 citing authors

#	ARTICLE	IF	CITATIONS
1	Generating synthetic CTs from magnetic resonance images using generative adversarial networks. Medical Physics, 2018, 45, 3627-3636.	3.0	207
2	Comparison of multiwavelet, wavelet, Haralick, and shape features for microcalcification classification in mammograms. Pattern Recognition, 2004, 37, 1973-1986.	8.1	170
3	Investigation of neural progenitor cell induced angiogenesis after embolic stroke in rat using MRI. NeuroImage, 2005, 28, 698-707.	4.2	151
4	Magnetic Resonance Imaging Investigation of Axonal Remodeling and Angiogenesis after Embolic Stroke in Sildenafil-Treated Rats. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 1440-1448.	4.3	133
5	Patterns and Dynamics of Subventricular Zone Neuroblast Migration in the Ischemic Striatum of the Adult Mouse. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1240-1250.	4.3	108
6	Increasing tPA Activity in Astrocytes Induced by Multipotent Mesenchymal Stromal Cells Facilitate Neurite Outgrowth after Stroke in the Mouse. PLoS ONE, 2010, 5, e9027.	2.5	94
7	Stroke Increases Neural Stem Cells and Angiogenesis in the Neurogenic Niche of the Adult Mouse. PLoS ONE, 2014, 9, e113972.	2.5	80
8	Ascl1 Lineage Cells Contribute to Ischemia-Induced Neurogenesis and Oligodendrogenesis. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 614-625.	4.3	78
9	Model selection for DCE–T1 studies in glioblastoma. Magnetic Resonance in Medicine, 2012, 68, 241-251.	3.0	74
10	Quantification of brain cholinergic denervation in dementia with Lewy bodies using PET imaging with [18F]-FEOBV. Molecular Psychiatry, 2019, 24, 322-327.	7.9	37
11	Augmented Healing Process in Female Mice with Acute Myocardial Infarction. Gender Medicine, 2007, 4, 230-247.	1.4	27
12	MRI Detects Brain Reorganization after Human Umbilical Tissue-Derived Cells (hUTC) Treatment of Stroke in Rat. PLoS ONE, 2012, 7, e42845.	2.5	27
13	MRI Measurement of Angiogenesis and the Therapeutic Effect of Acute Marrow Stromal Cell Administration on Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 2023-2032.	4.3	23
14	Large field of view distortion assessment in a low‐field MR ‐linac. Medical Physics, 2019, 46, 2347-2355.	3.0	21
15	Optimization of a novel large field of view distortion phantom for MR‐only treatment planning. Journal of Applied Clinical Medical Physics, 2017, 18, 51-61.	1.9	20
16	Comparison of Neurite Density Measured by MRI and Histology after TBI. PLoS ONE, 2013, 8, e63511.	2.5	19
17	Geometric and dosimetric impact of anatomical changes for <scp>MR</scp>‐only radiation therapy for the prostate. Journal of Applied Clinical Medical Physics, 2019, 20, 10-17.	1.9	19
18	Characterizing Brain Structures and Remodeling after TBI Based on Information Content, Diffusion Entropy. PLoS ONE, 2013, 8, e76343.	2.5	19

#	Article	IF	Citations
19	MRI of Neuronal Recovery after Low-Dose Methamphetamine Treatment of Traumatic Brain Injury in Rats. PLoS ONE, 2013, 8, e61241.	2.5	17
20	Measurement of rat brain tumor kinetics using an intravascular MR contrast agent and DCE‐MRI nested model selection. Journal of Magnetic Resonance Imaging, 2014, 40, 1223-1229.	3.4	15
21	A parametric model of the brain vascular system for estimation of the arterial input function (AIF) at the tissue level. NMR in Biomedicine, 2017, 30, e3695.	2.8	15
22	Performance of deep learning synthetic CTs for MR‐only brain radiation therapy. Journal of Applied Clinical Medical Physics, 2021, 22, 308-317.	1.9	15
23	An extended vascular model for less biased estimation of permeability parameters in DCE‐T1 images. NMR in Biomedicine, 2017, 30, e3698.	2.8	12
24	Cell Treatment for Stroke in Type Two Diabetic Rats Improves Vascular Permeability Measured by MRI. PLoS ONE, 2016, 11, e0149147.	2.5	11
25	Resting state fMRI connectivity analysis as a tool for detection of abnormalities in five different cognitive networks of the brain in MS patients. Clinical Case Reports and Reviews, 2016, 2, 464-471.	0.1	10
26	Blood-Brain-Barrier Imaging in Brain Tumors: Concepts and Methods. Neurographics, 2012, 2, 48-59.	0.1	9
27	Diffusion-Derived Magnetic Resonance Imaging Measures of Longitudinal Microstructural Remodeling Induced by Marrow Stromal Cell Therapy after Traumatic Brain Injury. Journal of Neurotrauma, 2017, 34, 182-191.	3.4	9
28	Perfusion and Diffusion Abnormalities of Multiple Sclerosis Lesions and Relevance of Classified Lesions to Disease Status. Journal of Neurology & Neurophysiology, 2013, s12, 12.	0.1	6
29	Impairments of white matter tracts and connectivity alterations in five cognitive networks of patients with multiple sclerosis. Clinical Neurology and Neurosurgery, 2021, 201, 106424.	1.4	1
30	NIMG-50SURVIVAL RATE PREDICTION IN PATIENTS WITH GLIOBLASTOMA MULTIFORME (GBM), USING DYNAMIC CONTRAST ENHANCED MRI AND NESTED MODEL SELECTION TECHNIQUE (NMS). Neuro-Oncology, 2015, 17, v165.2-v165.	1.2	0