

Samuel R Barnes

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

2,653
citations

516561

16
h-index

477173

29
g-index

37
all docs

37
docs citations

37
times ranked

4693
citing authors

#	ARTICLE	IF	CITATIONS
1	Blood-Brain Barrier Breakdown in the Aging Human Hippocampus. <i>Neuron</i> , 2015, 85, 296-302.	3.8	1,436
2	Semiautomated detection of cerebral microbleeds in magnetic resonance images. <i>Magnetic Resonance Imaging</i> , 2011, 29, 844-852.	1.0	101
3	Susceptibility-Weighted Imaging: Clinical Angiographic Applications. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2009, 17, 47-61.	0.6	97
4	A Novel, Noninvasive, Predictive Epilepsy Biomarker with Clinical Potential. <i>Journal of Neuroscience</i> , 2014, 34, 8672-8684.	1.7	92
5	Acoustically modulated magnetic resonance imaging of gas-filled protein nanostructures. <i>Nature Materials</i> , 2018, 17, 456-463.	13.3	88
6	Optimal acquisition and modeling parameters for accurate assessment of low K_{trans} blood-brain barrier permeability using dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1967-1977.	1.9	87
7	APOE4 accelerates advanced-stage vascular and neurodegenerative disorder in old Alzheimer's mice via cyclophilin A independently of amyloid- β . <i>Nature Aging</i> , 2021, 1, 506-520.	5.3	77
8	ROCKETSHIP: a flexible and modular software tool for the planning, processing and analysis of dynamic MRI studies. <i>BMC Medical Imaging</i> , 2015, 15, 19.	1.4	63
9	Imaging the vessel wall in major peripheral arteries using susceptibility-weighted imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 357-365.	1.9	45
10	Susceptibility-weighted imaging in the experimental autoimmune encephalomyelitis model of multiple sclerosis indicates elevated deoxyhemoglobin, iron deposition and demyelination. <i>Multiple Sclerosis Journal</i> , 2013, 19, 721-731.	1.4	37
11	Magnetic Resonance Imaging of Blood-Brain Barrier permeability in Dementia. <i>Neuroscience</i> , 2021, 474, 14-29.	1.1	35
12	Omega-3 fatty acids are associated with blood-brain barrier integrity in a healthy aging population. <i>Brain and Behavior</i> , 2021, 11, e2273.	1.0	24
13	Low Dose Focused Ultrasound Induces Enhanced Tumor Accumulation of Natural Killer Cells. <i>PLoS ONE</i> , 2015, 10, e0142767.	1.1	21
14	Iron quantification of microbleeds in postmortem brain. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1592-1601.	1.9	20
15	In Vivo Monitoring of Natural Killer Cell Trafficking during Tumor Immunotherapy. <i>Magnetic Resonance Insights</i> , 2014, 7, MRI.S13145.	2.5	19
16	Imaging subtle leaks in the blood-brain barrier in the aging human brain: potential pitfalls, challenges, and possible solutions. <i>GeroScience</i> , 2022, 44, 1339-1351.	2.1	17
17	Comparison of T2 and T2*-weighted MR molecular imaging of a mouse model of glioma. <i>BMC Medical Imaging</i> , 2013, 13, 20.	1.4	16
18	Imaging the Effects of Oxygen Saturation Changes in Voluntary Apnea and Hyperventilation on Susceptibility-Weighted Imaging. <i>American Journal of Neuroradiology</i> , 2014, 35, 1091-1095.	1.2	15

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19	Magnetic Intramedullary Lengthening Nails and MRI Compatibility. Journal of Pediatric Orthopaedics, 2018, 38, e584-e587.	0.6	14
20	7T multi-shell hybrid diffusion imaging (HYDI) for mapping brain connectivity in mice. Proceedings of SPIE, 2015, 9413, .	0.8	9
21	Effect of Incorporating 1 Avocado Per Day Versus Habitual Diet on Visceral Adiposity: A Randomized Trial. Journal of the American Heart Association, 2022, 11, .	1.6	8
22	Settling properties of venous blood demonstrated in the peripheral vasculature using susceptibility-weighted imaging (SWI). Journal of Magnetic Resonance Imaging, 2009, 29, 1465-1470.	1.9	6
23	In vivo iron quantification in collagenase-induced microbleeds in rat brain. Magnetic Resonance in Medicine, 2012, 67, 711-717.	1.9	5
24	Monte Carlo simulation of single-plane magnetically focused narrow proton beams. Physics in Medicine and Biology, 2013, 58, 535-553.	1.6	4
25	Susceptibility-weighted imaging. , 0, , 22-33.		3
26	The effects of mapping CT images to Monte Carlo materials on GEANT4 proton simulation accuracy. Medical Physics, 2013, 40, 041701.	1.6	3
27	Direct contrast-enhanced magnetic resonance lymphangiography in the diagnosis of persistent occult chylous effusion leak after thoracic duct embolization. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2019, 7, 251-257.	0.9	3
28	Imaging the vessel wall in major peripheral arteries using susceptibility weighted imaging: visualizing calcifications. Journal of Cardiovascular Magnetic Resonance, 2009, 11, .	1.6	1
29	1052 The settling properties of slow flow blood demonstrated using SWI. Journal of Cardiovascular Magnetic Resonance, 2008, 10, .	1.6	0
30	Modeling considerations for improving accuracy of a proton therapy beam with GEANT4. , 2012, , .		0
31	Susceptibility Weighted Imaging and MR Angiography. , 2012, , 157-167.		0