

William D Rooney

List of Publications by Year in descending order

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42
papers

2,679
citations

304743

22
h-index

276875

41
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44
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44
docs citations

44
times ranked

3855
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic field and tissue dependencies of human brain longitudinal $^1\text{H}_2\text{O}$ relaxation in vivo. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 308-318.	3.0	546
2	Current and potential imaging applications of ferumoxytol for magnetic resonance imaging. <i>Kidney International</i> , 2017, 92, 47-66.	5.2	230
3	Determination of the MRI contrast agent concentration time course in vivo following bolus injection: Effect of equilibrium transcytolemmal water exchange. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 563-574.	3.0	199
4	Variation of the relaxographic "shutter-speed" for transcytolemmal water exchange affects the CR bolus-tracking curve shape. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 1151-1169.	3.0	171
5	Pseudoprogression of Glioblastoma after Chemo- and Radiation Therapy: Diagnosis by Using Dynamic Susceptibility-weighted Contrast-enhanced Perfusion MR Imaging with Ferumoxytol versus Gadoteridol and Correlation with Survival. <i>Radiology</i> , 2013, 266, 842-852.	7.3	145
6	A unified magnetic resonance imaging pharmacokinetic theory: Intravascular and extracellular contrast reagents. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1351-1359.	3.0	141
7	Volumetric Analysis from a Harmonized Multisite Brain MRI Study of a Single Subject with Multiple Sclerosis. <i>American Journal of Neuroradiology</i> , 2017, 38, 1501-1509.	2.4	95
8	High-Resolution Steady-State Cerebral Blood Volume Maps in Patients with Central Nervous System Neoplasms Using Ferumoxytol, a Superparamagnetic Iron Oxide Nanoparticle. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 780-786.	4.3	94
9	Evidence for shutter-speed variation in CR bolus-tracking studies of human pathology. <i>NMR in Biomedicine</i> , 2005, 18, 173-185.	2.8	85
10	The magnetic resonance shutter speed discriminates vascular properties of malignant and benign breast tumors in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17943-17948.	7.1	85
11	Intratumor mapping of intracellular water lifetime: metabolic images of breast cancer?. <i>NMR in Biomedicine</i> , 2014, 27, 760-773.	2.8	75
12	Dynamic NMR effects in breast cancer dynamic-contrast-enhanced MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17937-17942.	7.1	69
13	Baseline NAWM structural integrity and CBF predict periventricular WMH expansion over time. <i>Neurology</i> , 2018, 90, e2119-e2126.	1.1	69
14	Shutter-speed analysis of contrast reagent bolus-tracking data: Preliminary observations in benign and malignant breast disease. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 724-729.	3.0	67
15	Comparison of cerebral blood flow and structural penumbras in relation to white matter hyperintensities: A multi-modal magnetic resonance imaging study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1528-1536.	4.3	62
16	Mapping human brain capillary water lifetime: high-resolution metabolic neuroimaging. <i>NMR in Biomedicine</i> , 2015, 28, 607-623.	2.8	58
17	Modeling disease trajectory in Duchenne muscular dystrophy. <i>Neurology</i> , 2020, 94, e1622-e1633.	1.1	49
18	Reanalysis of multislice ^1H MRSI in amyotrophic lateral sclerosis. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 513-516.	3.0	47

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19	Japanese macaque encephalomyelitis: A spontaneous multiple sclerosis-like disease in a nonhuman primate. <i>Annals of Neurology</i> , 2011, 70, 362-373.	5.3	46
20	Signal-to-noise ratio, contrast-to-noise ratio and pharmacokinetic modeling considerations in dynamic contrast-enhanced magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1313-1322.	1.8	44
21	Intensity warping for multisite MRI harmonization. <i>NeuroImage</i> , 2020, 223, 117242.	4.2	34
22	Cell membrane water exchange effects in prostate DCE-MRI. <i>Journal of Magnetic Resonance</i> , 2012, 218, 77-85.	2.1	30
23	Combined iron oxide nanoparticle ferumoxytol and gadolinium contrast enhanced MRI define glioblastoma pseudoprogression. <i>Neuro-Oncology</i> , 2019, 21, 517-526.	1.2	28
24	Multisite reliability and repeatability of an advanced brain MRI protocol. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 878-888.	3.4	27
25	An Automated Statistical Technique for Counting Distinct Multiple Sclerosis Lesions. <i>American Journal of Neuroradiology</i> , 2018, 39, 626-633.	2.4	24
26	Imaging Mechanisms of Disease Progression in Multiple Sclerosis: Beyond Brain Atrophy. <i>Journal of Neuroimaging</i> , 2020, 30, 251-266.	2.0	24
27	The Effect of High Fat Diet on Cerebrovascular Health and Pathology: A Species Comparative Review. <i>Molecules</i> , 2021, 26, 3406.	3.8	18
28	Intimate combination of low- and high-resolution image data: I. real-space PET and ¹ H ₂ O MRI, PETAMRI. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 345-360.	3.0	15
29	Immunopathology of Japanese macaque encephalomyelitis is similar to multiple sclerosis. <i>Journal of Neuroimmunology</i> , 2016, 291, 1-10.	2.3	15
30	4.0 T Water Proton T1 Relaxation Times in Normal Human Brain and During Acute Ethanol Intoxication. <i>Alcoholism: Clinical and Experimental Research</i> , 2000, 24, 830-836.	2.4	14
31	The effects of equilibrium transcytolemmal water exchange on the determination of contrast reagent concentration in vivo. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 422-424.	3.0	11
32	Longitudinal relaxographic imaging of white matter hyperintensities in the elderly. <i>Fluids and Barriers of the CNS</i> , 2014, 11, 24.	5.0	11
33	Resting brain metabolic activity in a 4 Tesla magnetic field. <i>Magnetic Resonance in Medicine</i> , 2000, 44, 701-705.	3.0	8
34	Distinguishing Extravascular from Intravascular Ferumoxytol Pools within the Brain: Proof of Concept in Patients with Treated Glioblastoma. <i>American Journal of Neuroradiology</i> , 2020, 41, 1193-1200.	2.4	8
35	Observation of Reduced Homeostatic Metabolic Activity and/or Coupling in White Matter Aging. <i>Journal of Neuroimaging</i> , 2020, 30, 658-665.	2.0	7
36	Recent advances in the neuroimaging of multiple sclerosis. <i>Current Neurology and Neuroscience Reports</i> , 2005, 5, 217-224.	4.2	6

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37	DCE-MRI of Brain Fluid Barriers: <i>In Vivo</i> Water Cycling at the Human Choroid Plexus. Tissue Barriers, 2022, 10, 1963143.	3.2	6
38	Myelin-specific T cells in animals with Japanese macaque encephalomyelitis. Annals of Clinical and Translational Neurology, 2021, 8, 456-470.	3.7	5
39	Gray matter blood-brain barrier water exchange dynamics are reduced in progressive multiple sclerosis. Journal of Neuroimaging, 2021, 31, 1111-1118.	2.0	5
40	Metabolic activity diffusion imaging (MADI): II. Noninvasive, high-resolution human brain mapping of sodium pump flux and cell metrics. NMR in Biomedicine, 2023, 36, .	2.8	5
41	MRI characteristics of Japanese macaque encephalomyelitis: Comparison to human diseases. Journal of Neuroimaging, 2021, 31, 480-492.	2.0	1
42	Pseudo-extravasation rate constant of dynamic susceptibility contrast-MRI determined from pharmacokinetic first principles. NMR in Biomedicine, 2017, 30, e3797.	2.8	0