

Jeff F Dunn

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

2,938
citations

30
h-index

51
g-index

109
ext. papers

3,351
ext. citations

4.8
avg, IF

4.96
L-index

#	Paper	IF	Citations
101	Physical training improves skeletal muscle metabolism in patients with chronic heart failure. <i>Journal of the American College of Cardiology</i> , 1993 , 21, 1101-6	15.1	299
100	Proliferation of human glioblastoma stem cells occurs independently of exogenous mitogens. <i>Stem Cells</i> , 2009 , 27, 1722-33	5.8	152
99	Therapeutic activation of macrophages and microglia to suppress brain tumor-initiating cells. <i>Nature Neuroscience</i> , 2014 , 17, 46-55	25.5	136
98	Iron in multiple sclerosis: roles in neurodegeneration and repair. <i>Nature Reviews Neurology</i> , 2014 , 10, 459-68	15	134
97	Macroscopic structure of articular cartilage of the tibial plateau: influence of a characteristic matrix architecture on MRI appearance. <i>American Journal of Roentgenology</i> , 2004 , 182, 311-8	5.4	109
96	Changes in oxygenation of intracranial tumors with carbogen: a BOLD MRI and EPR oximetry study. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 16, 511-21	5.6	97
95	In vitro MR imaging of hyaline cartilage: correlation with scanning electron microscopy. <i>American Journal of Roentgenology</i> , 2000 , 174, 405-9	5.4	96
94	Assessment of cerebral pO ₂ by EPR oximetry in rodents: effects of anesthesia, ischemia, and breathing gas. <i>Brain Research</i> , 1995 , 685, 91-8	3.7	94
93	Delayed arteriogenesis in hypercholesterolemic mice. <i>Circulation</i> , 2005 , 112, 2501-9	16.7	89
92	Use of nitroxides for assessing perfusion, oxygenation, and viability of tissues: in vivo EPR and MRI studies. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 97-106	4.4	84
91	Multiexponential T ₂ and magnetization transfer MRI of demyelination and remyelination in murine spinal cord. <i>NeuroImage</i> , 2009 , 45, 1173-82	7.9	83
90	Near-infrared imaging in the small animal brain: optimization of fiber positions. <i>Journal of Biomedical Optics</i> , 2003 , 8, 102-10	3.5	69
89	Partial pressure of oxygen in the human body: a general review. <i>American Journal of Blood Research</i> , 2019 , 9, 1-14	1.6	68
88	Postictal behavioural impairments are due to a severe prolonged hypoperfusion/hypoxia event that is COX-2 dependent. <i>ELife</i> , 2016 , 5,	8.9	62
87	High-resolution in vivo measurements of transverse relaxation times in rats at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 285-90	4.4	59
86	Critical oxygen tension in rat brain: a combined (31)P-NMR and EPR oximetry study. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000 , 279, R9-R16	3.2	53
85	In vivo electron paramagnetic resonance oximetry with particulate materials. <i>Methods</i> , 2003 , 30, 159-66	4.6	51

84	Monitoring angiogenesis in brain using steady-state quantification of DeltaR2 with MION infusion. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 55-61	4.4	47
83	Noninvasive assessment of cerebral oxygenation during acclimation to hypobaric hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000 , 20, 1632-5	7.3	47
82	Iron Oxide as an MRI Contrast Agent for Cell Tracking. <i>Magnetic Resonance Insights</i> , 2015 , 8, 15-29	5	45
81	Effects of acute hypoxia and hyperthermia on the permeability of the blood-brain barrier in adult rats. <i>Journal of Applied Physiology</i> , 2009 , 107, 1348-56	3.7	44
80	Quantitative magnetic resonance imaging of the mdx mouse model of Duchenne muscular dystrophy. <i>Muscle and Nerve</i> , 1999 , 22, 1367-71	3.4	44
79	Automated Processing of fNIRS Data-A Visual Guide to the Pitfalls and Consequences. <i>Algorithms</i> , 2018 , 11,	1.8	37
78	A method for measuring brain partial pressure of oxygen in unanesthetized unrestrained subjects: the effect of acute and chronic hypoxia on brain tissue PO(2). <i>Journal of Neuroscience Methods</i> , 2010 , 193, 217-25	3	37
77	Magnetic-resonance-imaging-coupled broadband near-infrared tomography system for small animal brain studies. <i>Applied Optics</i> , 2005 , 44, 2177-88	1.7	34
76	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, 721-31	5	33
75	Understanding disease processes in multiple sclerosis through magnetic resonance imaging studies in animal models. <i>NeuroImage: Clinical</i> , 2014 , 4, 743-56	5.3	32
74	Quantitative T2 analysis: the effects of noise, regularization, and multivoxel approaches. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 212-7	4.4	32
73	Effect of hyperventilation on brain tissue oxygenation and cerebrovenous PO2 in rats. <i>Brain Research</i> , 2000 , 868, 150-6	3.7	32
72	The apparent diffusion constant measured by MRI correlates with pO2 in a RIF-1 tumor. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 515-9	4.4	30
71	Functional near-infrared spectroscopy reveals reduced interhemispheric cortical communication after pediatric concussion. <i>Journal of Neurotrauma</i> , 2015 , 32, 833-40	5.4	28
70	Functional brain mapping at 9.4T using a new MRI-compatible electrode chronically implanted in rats. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 222-8	4.4	28
69	Comparison of EPR oximetry and Eppendorf polarographic electrode assessments of rat brain PtO2. <i>Physiological Measurement</i> , 2004 , 25, 1413-23	2.9	26
68	Reduced cortical microvascular oxygenation in multiple sclerosis: a blinded, case-controlled study using a novel quantitative near-infrared spectroscopy method. <i>Scientific Reports</i> , 2015 , 5, 16477	4.9	26
67	Blood Oxygenation. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 645-650	3.6	25

66	Reduced Functional Connectivity in Adults with Persistent Post-Concussion Symptoms: A Functional Near-Infrared Spectroscopy Study. <i>Journal of Neurotrauma</i> , 2018 , 35, 1224-1232	5.4	21
65	Multiple sclerosis disease progression: Contributions from a hypoxia-inflammation cycle. <i>Multiple Sclerosis Journal</i> , 2019 , 25, 1715-1718	5	21
64	Blood-oxygen-level-dependent magnetic resonance signal and cerebral oxygenation responses to brain activation are enhanced by concurrent transient hypertension in rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007 , 27, 1280-9	7.3	21
63	What does EPR oximetry with solid particles measure--and how does this relate to other measures of PO ₂ ?. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 428, 663-70	3.6	21
62	Near-infrared measurements of brain oxygenation in stroke. <i>Neurophotonics</i> , 2016 , 3, 031403	3.9	20
61	Gray Matter Hypoxia in the Brain of the Experimental Autoimmune Encephalomyelitis Model of Multiple Sclerosis. <i>PLoS ONE</i> , 2016 , 11, e0167196	3.7	20
60	Bold MRI vs. NIR Spectrophotometry. <i>Advances in Experimental Medicine and Biology</i> , 1998 , 103-113	3.6	20
59	Control of brain tumor growth by reactivating myeloid cells with niacin. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	17
58	Training the brain to survive stroke. <i>PLoS ONE</i> , 2012 , 7, e45108	3.7	17
57	Central nervous system targeted autoimmunity causes regional atrophy: a 9.4T MRI study of the EAE mouse model of Multiple Sclerosis. <i>Scientific Reports</i> , 2019 , 9, 8488	4.9	16
56	MR Imaging of Tumor-Associated Macrophages: The Next Frontier in Cancer Imaging. <i>Magnetic Resonance Insights</i> , 2018 , 11, 1178623X18771974	5	16
55	Cortical excitability after pediatric mild traumatic brain injury. <i>Brain Stimulation</i> , 2017 , 10, 305-314	5.1	16
54	Functional MRI response and correlated electrophysiological changes during posterior hypothalamic nucleus deep brain stimulation. <i>NeuroImage</i> , 2011 , 56, 35-44	7.9	16
53	High resolution renal diffusion imaging using a modified steady-state free precession sequence. <i>Magnetic Resonance in Medicine</i> , 1995 , 34, 586-95	4.4	16
52	Methylphenidate-mediated reduction in prefrontal hemodynamic responses to working memory task: a functional near-infrared spectroscopy study. <i>Human Psychopharmacology</i> , 2012 , 27, 615-21	2.3	15
51	Near-infrared spectroscopy shows preictal haemodynamic changes in temporal lobe epilepsy. <i>Epileptic Disorders</i> , 2012 , 14, 371-8	1.9	14
50	The functional microstructure of tendon collagen revealed by high-field MRI. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 520-7	4.4	14
49	monitoring of tissue oxygen saturation in deep brain structures using a single fiber optical system. <i>Biomedical Optics Express</i> , 2016 , 7, 4685-4694	3.5	14

48	Hypoxia and Inflammation-Induced Disruptions of the Blood-Brain and Blood-Cerebrospinal Fluid Barriers Assessed Using a Novel T1-Based MRI Method. <i>Acta Neurochirurgica Supplementum</i> , 2016 , 121, 23-8	1.7	13
47	In vivo open-bore MRI reveals region- and sub-arc-specific lengthening of the unloaded human posterior cruciate ligament. <i>PLoS ONE</i> , 2012 , 7, e48714	3.7	13
46	Integrating psychosocial care into neuro-oncology: challenges and strategies. <i>Frontiers in Oncology</i> , 2015 , 5, 41	5.3	12
45	Cerebral PtO ₂ , acute hypoxia, and volatile anesthetics in the rat brain. <i>Advances in Experimental Medicine and Biology</i> , 2005 , 566, 179-85	3.6	12
44	Stabilization of hypoxia-inducible factor-1 α in buffer containing cobalt chloride for Western blot analysis. <i>Analytical Biochemistry</i> , 2011 , 416, 120-2	3.1	11
43	MRI monitoring of monocytes to detect immune stimulating treatment response in brain tumor. <i>Neuro-Oncology</i> , 2017 , 19, 364-371	1	11
42	Repeated Pediatric Concussions Evoke Long-Term Oligodendrocyte and White Matter Microstructural Dysregulation Distant from the Injury. <i>Developmental Neuroscience</i> , 2018 , 40, 358-375	2.2	11
41	The effects of anesthesia on cerebral tissue oxygen tension: use of EPR oximetry to make repeated measurements. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 530, 569-75	3.6	11
40	Assessment of the efficacy of MRI for detection of changes in bone morphology in a mouse model of bone injury. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 38, 231-7	5.6	10
39	Using magnetic resonance imaging in animal models to guide drug development in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2014 , 20, 3-11	5	9
38	Assessment of brain oxygenation imbalance following soman exposure in rats. <i>NeuroToxicology</i> , 2018 , 65, 28-37	4.4	9
37	Detecting deoxyhemoglobin in spinal cord vasculature of the experimental autoimmune encephalomyelitis mouse model of multiple sclerosis using susceptibility MRI and hyperoxygenation. <i>PLoS ONE</i> , 2015 , 10, e0127033	3.7	8
36	Ventral medulla pHi measured in vivo by ³¹ P NMR is not regulated during hypercapnia in anesthetized rat. <i>Respiratory Physiology and Neurobiology</i> , 2002 , 130, 139-49	2.8	8
35	Using a multimodal near-infrared spectroscopy and MRI to quantify gray matter metabolic rate for oxygen: A hypothermia validation study. <i>NeuroImage</i> , 2020 , 206, 116315	7.9	8
34	Brain tissue and sagittal sinus pO ₂ measurements using the lifetimes of oxygen-quenched luminescence of a ruthenium compound. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 530, 101-111	3.6	8
33	Studying cerebral hemodynamics and metabolism using simultaneous near-infrared spectroscopy and transcranial Doppler ultrasound: a hyperventilation and caffeine study. <i>Physiological Reports</i> , 2015 , 3, e12378	2.6	7
32	Artifact reduction in long-term monitoring of cerebral hemodynamics using near-infrared spectroscopy. <i>NeuroPhotonics</i> , 2015 , 2, 025004	3.9	7
31	Detection of reduced interhemispheric cortical communication during task execution in multiple sclerosis patients using functional near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2014 , 19, 076008	3.5	7

30	Cerebral oxygenation in awake rats during acclimation and deacclimation to hypoxia: an in vivo electron paramagnetic resonance study. <i>High Altitude Medicine and Biology</i> , 2011 , 12, 71-7	1.9	7
29	A near-infrared calibration method suitable for quantification of broadband data in humans. <i>Journal of Neuroscience Methods</i> , 2010 , 188, 181-6	3	7
28	QuantitativeT2: interactive quantitative T2 MRI witnessed in mouse glioblastoma. <i>Journal of Medical Imaging</i> , 2015 , 2, 036002	2.6	6
27	Absorption and scattering imaging of tissue with steady-state second-differential spectral-analysis tomography. <i>Optics Letters</i> , 2004 , 29, 2043-5	3	6
26	Modeling of the response of ptO2 in rat brain to changes in physiological parameters. <i>Advances in Experimental Medicine and Biology</i> , 2005 , 566, 111-8	3.6	6
25	Using Functional Near-Infrared Spectroscopy to Study the Effect of Repetitive Transcranial Magnetic Stimulation in Concussion: A Two-Patient Case Study. <i>Frontiers in Neurology</i> , 2019 , 10, 476	4.1	5
24	Local metabolic rate during whole body vibration. <i>Journal of Applied Physiology</i> , 2013 , 114, 1421-5	3.7	5
23	Monitoring angiogenesis using a human compatible calibration for broadband near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2013 , 18, 16011	3.5	5
22	Fiber photometry for monitoring cerebral oxygen saturation in freely-moving rodents. <i>Biomedical Optics Express</i> , 2020 , 11, 3491-3506	3.5	5
21	Persistent enhancement of functional MRI responsiveness to sensory stimulation following repeated seizures. <i>Epilepsia</i> , 2011 , 52, 2285-92	6.4	4
20	Measuring oxygenation in vivo with MRS/MRI--from gas exchange to the cell. <i>Antioxidants and Redox Signaling</i> , 2007 , 9, 1157-68	8.4	4
19	Expanding the Potential Therapeutic Options for Remote Ischemic Preconditioning: Use in Multiple Sclerosis. <i>Frontiers in Neurology</i> , 2018 , 9, 475	4.1	3
18	Proton buffering in human skeletal muscle studied in vivo by phosphorus magnetic resonance spectroscopy. <i>Biochemical Society Transactions</i> , 1991 , 19, 207S	5.1	3
17	MR oximetry. <i>Methods in Molecular Biology</i> , 2011 , 771, 227-40	1.4	3
16	Insufficient sampling frequencies skew heart rate variability estimates: Implications for extracting heart rate metrics from neuroimaging and physiological data. <i>Journal of Biomedical Informatics</i> , 2021 , 123, 103934	10.2	2
15	A tale of two methods: combining near-infrared spectroscopy with MRI for studies of brain oxygenation and metabolism. <i>Advances in Experimental Medicine and Biology</i> , 2014 , 812, 65-71	3.6	2
14	Brain Oximetry and the Quest for Quantified Metabolic Rate: Applications Using MRI and Near-Infrared Spectroscopy. <i>Applied Magnetic Resonance</i> , 2021 , 52, 1343	0.8	2
13	The validity and reliability of an open source biosensing board to quantify heart rate variability. <i>Heliyon</i> , 2021 , 7, e07148	3.6	2

12	Cerebral blood flow and oxygenation in rat brain after soman exposure. <i>Toxicology Letters</i> , 2021 , 336, 50-56	4.4	2
11	The impact of hypoxia on blood-brain, blood-CSF, and CSF-brain barriers. <i>Journal of Applied Physiology</i> , 2021 , 131, 977-985	3.7	2
10	Abnormal Oxidative Metabolism in the Cuprizone Mouse Model of Demyelination: an in vivo NIRS-MRI Study.. <i>NeuroImage</i> , 2022 , 250, 118935	7.9	1
9	Quantification of cytochrome c oxidase and tissue oxygenation using CW-NIRS in a mouse cerebral cortex.. <i>Biomedical Optics Express</i> , 2021 , 12, 7632-7656	3.5	1
8	Quantitative T MRI is predictive of neurodegeneration following organophosphate exposure in a rat model. <i>Scientific Reports</i> , 2020 , 10, 13007	4.9	1
7	Neurovascular coupling on trial: How the number of trials completed impacts the accuracy and precision of temporally derived neurovascular coupling estimates.. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022 , 271678X221084400	7.3	1
6	Acute Dilation of Venous Sinuses in Animal Models of Mild Traumatic Brain Injury Detected Using 9.4T MRI. <i>Frontiers in Neurology</i> , 2020 , 11, 307	4.1	0
5	Treatment of Persistent Postconcussion Syndrome With Repetitive Transcranial Magnetic Stimulation Using Functional Near-Infrared Spectroscopy as a Biomarker of Response: Protocol for a Randomized Controlled Clinical Trial.. <i>JMIR Research Protocols</i> , 2022 , 11, e31308	2	0
4	PD-1 independent of PD-L1 ligation promotes glioblastoma growth through the NFB pathway. <i>Science Advances</i> , 2021 , 7, eabh2148	14.3	0
3	Renal pH regulation in hypertension. <i>Biochemical Society Transactions</i> , 1991 , 19, 421S	5.1	
2	Steady-state MR imaging with MION for quantification of angiogenesis in normal brain and in brain tumors. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 540, 221-6	3.6	
1	Susceptibility weighted imaging detects prominent veins that precede or coincide with maximal motor disability in a model of multiple sclerosis: A pilot study. <i>Multiple Sclerosis and Related Disorders</i> , 2021 , 54, 103124	4	