

John S Thornton

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

4,916
citations

66343

42
h-index

102487

66
g-index

116
all docs

116
docs citations

116
times ranked

7661
citing authors

#	ARTICLE	IF	CITATIONS
1	High field MRI correlates of myelin content and axonal density in multiple sclerosis. <i>Journal of Neurology</i> , 2003, 250, 1293-1301.	3.6	266
2	MRI biomarker assessment of neuromuscular disease progression: a prospective observational cohort study. <i>Lancet Neurology</i> , The, 2016, 15, 65-77.	10.2	256
3	Resting state functional MRI in Parkinson's disease: the impact of deep brain stimulation on "effective" connectivity. <i>Brain</i> , 2014, 137, 1130-1144.	7.6	196
4	Cerebral Artery Dilatation Maintains Cerebral Oxygenation at Extreme Altitude and in Acute Hypoxia—An Ultrasound and MRI Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 2019-2029.	4.3	187
5	Magnetic resonance imaging evidence for presymptomatic change in thalamus and caudate in familial Alzheimer's disease. <i>Brain</i> , 2013, 136, 1399-1414.	7.6	174
6	Quantitative Muscle MRI as an Assessment Tool for Monitoring Disease Progression in LGMD2I: A Multicentre Longitudinal Study. <i>PLoS ONE</i> , 2013, 8, e70993.	2.5	148
7	Cerebral microbleeds and stroke risk after ischaemic stroke or transient ischaemic attack: a pooled analysis of individual patient data from cohort studies. <i>Lancet Neurology</i> , The, 2019, 18, 653-665.	10.2	143
8	Diffusion-weighted magnetic resonance imaging differentiates Parkinsonian variant of multiple system atrophy from progressive supranuclear palsy. <i>Movement Disorders</i> , 2007, 22, 68-74.	3.9	132
9	Bilateral Deep Brain Stimulation of the Nucleus Basalis of Meynert for Parkinson Disease Dementia. <i>JAMA Neurology</i> , 2018, 75, 169.	9.0	112
10	The Chronic Vascular and Haemodynamic Response after Permanent Bilateral Common Carotid Occlusion in Newborn and Adult Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 1066-1075.	4.3	108
11	Functional MRI with active, fully implanted, deep brain stimulation systems: Safety and experimental confounds. <i>NeuroImage</i> , 2007, 37, 508-517.	4.2	103
12	"Therapeutic time window" duration decreases with increasing severity of cerebral hypoxia-ischaemia under normothermia and delayed hypothermia in newborn piglets. <i>Brain Research</i> , 2007, 1154, 173-180.	2.2	100
13	Clinical Safety of Brain Magnetic Resonance Imaging with Implanted Deep Brain Stimulation Hardware: Large Case Series and Review of the Literature. <i>World Neurosurgery</i> , 2011, 76, 164-172.	1.3	97
14	Feasibility of simultaneous intracranial EEG-fMRI in humans: A safety study. <i>NeuroImage</i> , 2010, 49, 379-390.	4.2	85
15	ApoE influences regional white-matter axonal density loss in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2017, 57, 8-17.	3.1	82
16	High resolution MR anatomy of the subthalamic nucleus: Imaging at 9.4T with histological validation. <i>NeuroImage</i> , 2012, 59, 2035-2044.	4.2	81
17	Quantitative Magnetic Resonance Imaging in Limb-Girdle Muscular Dystrophy 2I: A Multinational Cross-Sectional Study. <i>PLoS ONE</i> , 2014, 9, e90377.	2.5	81
18	Uncovering the underlying mechanisms and whole-brain dynamics of deep brain stimulation for Parkinson's disease. <i>Scientific Reports</i> , 2017, 7, 9882.	3.3	79

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19	Anisotropic water diffusion in white and gray matter of the neonatal piglet brain before and after transient hypoxia-ischaemia. <i>Magnetic Resonance Imaging</i> , 1997, 15, 433-440.	1.8	77
20	Cerebral venous system and anatomical predisposition to high-altitude headache. <i>Annals of Neurology</i> , 2013, 73, 381-389.	5.3	76
21	Relating functional changes during hand movement to clinical parameters in patients with multiple sclerosis in a multi-centre fMRI study. <i>European Journal of Neurology</i> , 2008, 15, 113-122.	3.3	75
22	Safety of localizing epilepsy monitoring intracranial electroencephalograph electrodes using MRI: Radiofrequency-induced heating. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 1233-1244.	3.4	74
23	Temporal and anatomical variations of brain water apparent diffusion coefficient in perinatal cerebral hypoxic-ischemic injury: Relationships to cerebral energy metabolism. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 920-927.	3.0	73
24	Preventing visual field deficits from neurosurgery. <i>Neurology</i> , 2014, 83, 604-611.	1.1	67
25	Therapeutic Subthalamic Nucleus Deep Brain Stimulation Reverses Cortico-Thalamic Coupling during Voluntary Movements in Parkinson's Disease. <i>PLoS ONE</i> , 2012, 7, e50270.	2.5	66
26	Depth of delayed cooling alters neuroprotection pattern after hypoxia-ischemia. <i>Annals of Neurology</i> , 2005, 58, 75-87.	5.3	62
27	Simultaneous intracranial EEG-fMRI in humans: Protocol considerations and data quality. <i>NeuroImage</i> , 2012, 63, 301-309.	4.2	62
28	Auditory tracts identified with combined fMRI and diffusion tractography. <i>NeuroImage</i> , 2014, 84, 562-574.	4.2	62
29	Delayed Whole-Body Cooling to 33 or 35°C and the Development of Impaired Energy Generation Consequential to Transient Cerebral Hypoxia-Ischemia in the Newborn Piglet. <i>Pediatrics</i> , 2006, 117, 1549-1559.	2.1	59
30	Quantitative magnetization transfer in in vivo healthy human skeletal muscle at 3 T. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1739-1748.	3.0	57
31	Muscle MRI reveals distinct abnormalities in genetically proven non-dystrophic myotonias. <i>Neuromuscular Disorders</i> , 2013, 23, 637-646.	0.6	56
32	Upper Limb Evaluation in Duchenne Muscular Dystrophy: Fat-Water Quantification by MRI, Muscle Force and Function Define Endpoints for Clinical Trials. <i>PLoS ONE</i> , 2016, 11, e0162542.	2.5	55
33	Reproducibility, and age, body-weight and gender dependency of candidate skeletal muscle MRI outcome measures in healthy volunteers. <i>European Radiology</i> , 2014, 24, 1610-1620.	4.5	53
34	Intra-Arterial Therapy and Post-Treatment Infarct Volumes. <i>Stroke</i> , 2016, 47, 777-781.	2.0	53
35	Impairment of movement-associated brain deactivation in multiple sclerosis: further evidence for a functional pathology of interhemispheric neuronal inhibition. <i>Experimental Brain Research</i> , 2008, 187, 25-31.	1.5	52
36	Skeletal muscle MRI differentiates SBMA and ALS and correlates with disease severity. <i>Neurology</i> , 2019, 93, e895-e907.	1.1	51

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37	Reproducibility of fMRI in the clinical setting: Implications for trial designs. <i>NeuroImage</i> , 2008, 42, 603-610.	4.2	49
38	MRI shows increased sciatic nerve cross sectional area in inherited and inflammatory neuropathies. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2011, 82, 1283-1286.	1.9	49
39	9.4 T MR microscopy of the substantia nigra with pathological validation in controls and disease. <i>NeuroImage: Clinical</i> , 2017, 13, 154-163.	2.7	49
40	Imaging cadavers: Cold FLAIR and noninvasive brain thermometry using CSF diffusion. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 190-195.	3.0	46
41	High-b-Value Diffusion MR Imaging and Basal Nuclei Apparent Diffusion Coefficient Measurements in Variant and Sporadic Creutzfeldt-Jakob Disease. <i>American Journal of Neuroradiology</i> , 2010, 31, 521-526.	2.4	46
42	The Safety of Using Body-Transmit MRI in Patients with Implanted Deep Brain Stimulation Devices. <i>PLoS ONE</i> , 2015, 10, e0129077.	2.5	46
43	Comparative Prognostic Utilities of Early Quantitative Magnetic Resonance Imaging Spin-Spin Relaxometry and Proton Magnetic Resonance Spectroscopy in Neonatal Encephalopathy. <i>Pediatrics</i> , 2006, 118, 1467-1477.	2.1	45
44	Simultaneous T_2 and lipid quantitation using IDEAL-CPMG. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1293-1302.	3.0	45
45	Validation of MRC Centre MRI calf muscle fat fraction protocol as an outcome measure in CMT1A. <i>Neurology</i> , 2018, 91, e1125-e1129.	1.1	43
46	Skeletal muscle MRI magnetisation transfer ratio reflects clinical severity in peripheral neuropathies. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2012, 83, 29-32.	1.9	40
47	Accurate Localization of Optic Radiation During Neurosurgery in an Interventional MRI Suite. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 882-891.	8.9	40
48	Bilateral nucleus basalis of Meynert deep brain stimulation for dementia with Lewy bodies: A randomised clinical trial. <i>Brain Stimulation</i> , 2020, 13, 1031-1039.	1.6	39
49	Short-term adaptation to a simple motor task: A physiological process preserved in multiple sclerosis. <i>NeuroImage</i> , 2009, 45, 500-511.	4.2	38
50	Development of imaging-based risk scores for prediction of intracranial haemorrhage and ischaemic stroke in patients taking antithrombotic therapy after ischaemic stroke or transient ischaemic attack: a pooled analysis of individual patient data from cohort studies. <i>Lancet Neurology</i> , The, 2021, 20, 294-303.	10.2	37
51	Functional magnetic resonance imaging exploration of combined hand and speech movements in Parkinson's disease. <i>Movement Disorders</i> , 2011, 26, 2212-2219.	3.9	35
52	Deep brain stimulation has state-dependent effects on motor connectivity in Parkinson's disease. <i>Brain</i> , 2019, 142, 2417-2431.	7.6	33
53	The quantitative neuroradiology initiative framework: application to dementia. <i>British Journal of Radiology</i> , 2019, 92, 20190365.	2.2	32
54	Targeting of the pedunculo-pontine nucleus by an MRI-guided approach: a cadaver study. <i>Journal of Neural Transmission</i> , 2011, 118, 1487-1495.	2.8	28

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55	Natural history of limb girdle muscular dystrophy R9 over 6Âyears: searching for trial endpoints. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 1033-1045.	3.7	28
56	Choice of echo time on GRE T2*-weighted MRI influences the classification of brain microbleeds. <i>Clinical Radiology</i> , 2010, 65, 391-394.	1.1	27
57	Design, Operation, and Safety of Singleâ€Room Interventional MRI Suites: Practical Experience From Two Centers. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 34-43.	3.4	26
58	Cerebral tissue water spin-spin relaxation times in human neonates at 2.4 Tesla: Methodology and the effects of maturation. <i>Magnetic Resonance Imaging</i> , 1999, 17, 1289-1295.	1.8	25
59	Feasibility of Diffusion Tractography for the Reconstruction of Intra-Thalamic and Cerebello-Thalamic Targets for Functional Neurosurgery: A Multi-Vendor Pilot Study in Four Subjects. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 76.	1.7	25
60	Improved anatomical reproducibility in quantitative lowerâ€limb muscle MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1033-1038.	3.4	24
61	Muscle magnetic resonance imaging in congenital myasthenic syndromes. <i>Muscle and Nerve</i> , 2016, 54, 211-219.	2.2	24
62	Extra-ocular muscle MRI in genetically-defined mitochondrial disease. <i>European Radiology</i> , 2016, 26, 130-137.	4.5	24
63	Semi-Automated Analysis of Diaphragmatic Motion with Dynamic Magnetic Resonance Imaging in Healthy Controls and Non-Ambulant Subjects with Duchenne Muscular Dystrophy. <i>Frontiers in Neurology</i> , 2018, 9, 9.	2.4	24
64	Inclusion or Exclusion of Intratumoral Vessels in Relative Cerebral Blood Volume Characterization in Low-Grade Gliomas: Does It Make a Difference?. <i>American Journal of Neuroradiology</i> , 2008, 29, 1140-1141.	2.4	23
65	Superficial brain is cooler in small piglets: Neonatal hypothermia implications. <i>Annals of Neurology</i> , 2006, 60, 578-585.	5.3	22
66	Technical challenges and safety of magnetic resonance imaging with in situ neuromodulation from spine to brain. <i>European Journal of Paediatric Neurology</i> , 2017, 21, 232-241.	1.6	21
67	Expanding the role of stent-retriever endovascular thrombectomy: a case series of free-floating thrombus. <i>Journal of NeuroInterventional Surgery</i> , 2018, 10, 1164-1167.	3.3	20
68	Susceptibility artefact correction using dynamic graph cuts: Application to neurosurgery. <i>Medical Image Analysis</i> , 2014, 18, 1132-1142.	11.6	19
69	Automated quantitative MRI volumetry reports support diagnostic interpretation in dementia: a multi-rater, clinical accuracy study. <i>European Radiology</i> , 2021, 31, 5312-5323.	4.5	19
70	Magnetic resonance proton spectroscopy and diffusion weighted imaging of chick embryo brain in ovo. <i>Developmental Brain Research</i> , 2003, 141, 101-107.	1.7	18
71	A functional form for injected MRI Gd-chelate contrast agent concentration incorporating recirculation, extravasation and excretion. <i>Physics in Medicine and Biology</i> , 2009, 54, 2933-2949.	3.0	18
72	Clinical quantitative MRI and the need for metrology. <i>British Journal of Radiology</i> , 2021, 94, 20201215.	2.2	18

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73	Development of MRC Centre MRI calf muscle fat fraction protocol as a sensitive outcome measure in Hereditary Sensory Neuropathy Type 1. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 895-906.	1.9	17
74	Delayed hypothermia prevents decreases in N-acetylaspartate and reduced glutathione in the cerebral cortex of the neonatal pig following transient hypoxia-ischaemia. <i>Neurochemical Research</i> , 2002, 27, 1599-1604.	3.3	15
75	Correcting radiofrequency inhomogeneity effects in skeletal muscle magnetisation transfer maps. <i>NMR in Biomedicine</i> , 2012, 25, 262-270.	2.8	13
76	Somatotopic organization of corticospinal/corticobulbar motor tracts in controls and patients with tumours: A combined fMRIâ€“DTI study. <i>NeuroImage: Clinical</i> , 2019, 23, 101910.	2.7	12
77	MRI of Animal Models of Brain Disease. <i>Methods in Enzymology</i> , 2004, 386, 149-177.	1.0	11
78	Clinical evaluation of automated quantitative MRI reports for assessment of hippocampal sclerosis. <i>European Radiology</i> , 2021, 31, 34-44.	4.5	11
79	Magnetization transfer ratio may be a surrogate of spongiform change in human prion diseases. <i>Brain</i> , 2010, 133, 3058-3068.	7.6	10
80	Stability and sensitivity of water T_2 obtained with IDEALâ€“CPMG in healthy and fatâ€“infiltrated skeletal muscle. <i>NMR in Biomedicine</i> , 2016, 29, 1800-1812.	2.8	10
81	^1H -MRS internal thermometry in test-objects (phantoms) to within 0.1â€“%K for quality assurance in long-term quantitative MR studies. <i>NMR in Biomedicine</i> , 2006, 19, 560-565.	2.8	8
82	Multiparameter MR Imaging in the $^6\text{-OPRI}$ Variant of Inherited Prion Disease. <i>American Journal of Neuroradiology</i> , 2013, 34, 1723-1730.	2.4	8
83	Objective Bayesian fMRI analysisâ€“a pilot study in different clinical environments. <i>Frontiers in Neuroscience</i> , 2015, 9, 168.	2.8	8
84	Neuroanatomical correlates of prion disease progression - a 3T longitudinal voxel-based morphometry study. <i>NeuroImage: Clinical</i> , 2017, 13, 89-96.	2.7	8
85	Acquisition of sensorimotor fMRI under general anaesthesia: Assessment of feasibility, the BOLD response and clinical utility. <i>NeuroImage: Clinical</i> , 2019, 23, 101923.	2.7	8
86	Growth restriction and the cerebral metabolic response to acute hypoxia of chick embryos in-ovo: A proton magnetic resonance spectroscopy study. <i>Developmental Brain Research</i> , 2005, 160, 203-210.	1.7	7
87	Brain-water diffusion coefficients reflect the severity of inherited prion disease. <i>Neurology</i> , 2010, 74, 658-665.	1.1	7
88	Prion disease diagnosis using subject-specific imaging biomarkers within a multi-kernel Gaussian process. <i>NeuroImage: Clinical</i> , 2019, 24, 102051.	2.7	7
89	Longitudinal Changes in MRI Muscle Morphometry and Composition in People With Inclusion Body Myositis. <i>Neurology</i> , 2022, 99, .	1.1	7
90	MRI quantifies lumbosacral nerve root and sciatic nerve hypertrophy in chronic inflammatory demyelinating polyradiculoneuropathy. <i>European Journal of Radiology</i> , 2020, 130, 109164.	2.6	6

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91	FLAIR-only joint volumetric analysis of brain lesions and atrophy in clinically isolated syndrome (CIS) suggestive of multiple sclerosis. <i>NeuroImage: Clinical</i> , 2021, 29, 102542.	2.7	6
92	Cerebrospinal fluid flow dynamics in Huntington's disease evaluated by phase contrast MRI. <i>European Journal of Neuroscience</i> , 2019, 49, 1632-1639.	2.6	5
93	Temperature Measurements in the Vicinity of Human Intracranial EEG Electrodes Exposed to Body-Coil RF for MRI at 1.5T. <i>Frontiers in Neuroscience</i> , 2020, 14, 429.	2.8	5
94	Simulated field maps for susceptibility artefact correction in interventional MRI. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1405-1416.	2.8	4
95	CIRSE Position Statement: Interventional Radiologists and Intra-arterial Stroke Therapy. <i>CardioVascular and Interventional Radiology</i> , 2018, 41, 1460-1462.	2.0	4
96	Improved Neuronavigation through Integration of Intraoperative Anatomical and Diffusion Images in an Interventional MRI Suite. <i>Lecture Notes in Computer Science</i> , 2011, , 168-178.	1.3	4
97	Susceptibility artefact correction by combining B0 field maps and non-rigid registration using graph cuts. , 2013, , .		2
98	Musclesense: a Trained, Artificial Neural Network for the Anatomical Segmentation of Lower Limb Magnetic Resonance Images in Neuromuscular Diseases. <i>Neuroinformatics</i> , 2021, 19, 379-383.	2.8	2
99	Putaminal diffusion tensor imaging measures predict disease severity across human prion diseases. <i>Brain Communications</i> , 2020, 2, fcaa032.	3.3	1
100	Simulated Field Maps: Toward Improved Susceptibility Artefact Correction in Interventional MRI. <i>Lecture Notes in Computer Science</i> , 2014, , 226-235.	1.3	1
101	REGISTRATION OF RCBV AND ADC MAPS WITH STRUCTURAL AND PHYSIOLOGICAL MR IMAGES IN GLIOMA PATIENTS: STUDY AND VALIDATION. , 2007, , .		0
102	MRI QUANTIFICATION OF FAT GRADIENTS IN CALF MUSCLES IN CMT1A. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014, 85, e4.83-e4.	1.9	0
103	[P4â€“230]: LONGITUDINAL NEURITE ORIENTATION DISPERSION AND DENSITY IMAGING IN YOUNGâ€“ONSET ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P1359.	0.8	0
104	[ICâ€“Pâ€“168]: LONGITUDINAL NEURITE ORIENTATION DISPERSION AND DENSITY IMAGING IN YOUNGâ€“ONSET ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P127.	0.8	0
105	PO202â€“...Natural history study in hereditary sensory neuropathy type 1. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017, 88, A65.1-A65.	1.9	0
106	Bilateral Weighted Adaptive Local Similarity Measure for Registration in Neurosurgery. <i>Lecture Notes in Computer Science</i> , 2016, , 81-88.	1.3	0
107	E07â€“...Cerebrospinal fluid flow dynamics in huntingtonâ€™s disease using phase contrast MRI: a pilot cross-sectional study. , 2018, , .		0
108	137â€“... Outcome measures in CMT: case examples from the muscle MRI in CMT study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2022, 93, A144.1-A144.	1.9	0