Christian Beaulieu

List of Publications by Year
in descending order

186 papers	19,952 citations	28274 55 h-index	11607 135 g-index
188 all docs	188 docs citations	188 times ranked	20202 citing authors

#	Article	IF	Citations
1	The basis of anisotropic water diffusion in the nervous system â€“ a technical review. NMR in Biomedicine, 2002, 15, 435-455.	2.8	3,938
2	A Mitochondria-K+ Channel Axis Is Suppressed in Cancer and Its Normalization Promotes Apoptosis and Inhibits Cancer Growth. Cancer Cell, 2007, 11, 37-51.	16.8	1,374
3	Microstructural maturation of the human brain from childhood to adulthood. NeuroImage, 2008, 40, 1044-1055.	4.2	1,223
4	Longitudinal Development of Human Brain Wiring Continues from Childhood into Adulthood. Journal of Neuroscience, 2011, 31, 10937-10947.	3.6	989
5	Mapping Anatomical Connectivity Patterns of Human Cerebral Cortex Using In Vivo Diffusion Tensor Imaging Tractography. Cerebral Cortex, 2009, 19, 524-536.	2.9	979
6	Diffusion tensor imaging of white matter tract evolution over the lifespan. NeuroImage, 2012, 60, 340-352.	4.2	924
7	Determinants of anisotropic water diffusion in nerves. Magnetic Resonance in Medicine, 1994, 31, 394-400.	3.0	584
8	Longitudinal magnetic resonance imaging study of perfusion and diffusion in stroke: Evolution of lesion volume and correlation with clinical outcome. Annals of Neurology, 1999, 46, 568-578.	5.3	410
9	Diffusion tensor imaging detects early Wallerian degeneration of the pyramidal tract after ischemic stroke. NeuroImage, 2004, 22, 1767-1774.	4.2	382
10	Diffusion tensor imaging of neurodevelopment in children and young adults. NeuroImage, 2005, 26, 1164-1173.	4.2	313
11	Imaging brain connectivity in children with diverse reading ability. NeuroImage, 2005, 25, 1266-1271.	4.2	259
12	Diffusion tensor imaging of time-dependent axonal and myelin degradation after corpus callosotomy in epilepsy patients. NeuroImage, 2006, 32, 1090-1099.	4.2	250
13	A review of diffusion MRI of typical white matter development from early childhood to young adulthood. NMR in Biomedicine, 2019, 32, e3778.	2.8	250
14	Changes in water diffusion due to Wallerian degeneration in peripheral nerve. Magnetic Resonance in Medicine, 1996, 36, 627-631.	3.0	248
15	Bilateral limbic diffusion abnormalities in unilateral temporal lobe epilepsy. Annals of Neurology, 2005, 57, 188-196.	5.3	242
16	Lateralization of the arcuate fasciculus from childhood to adulthood and its relation to cognitive abilities in children. Human Brain Mapping, 2009, 30, 3563-3573.	3.6	239
17	Water diffusion in the giant axon of the squid: Implications for diffusion-weighted MRI of the nervous system. Magnetic Resonance in Medicine, 1994, 32, 579-583.	3.0	224
18	Is Early Ischemic Lesion Volume on Diffusion-Weighted Imaging an Independent Predictor of Stroke Outcome?. Stroke, 2000, 31, 2597-2602.	2.0	216

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19	Voxel based versus region of interest analysis in diffusion tensor imaging of neurodevelopment. NeuroImage, 2007, 34, 243-252.	4.2	213
20	Diffusion tensor tractography of the limbic system. American Journal of Neuroradiology, 2005, 26, 2267-74.	2.4	202
21	Diffusion anisotropy in subcortical white matter and cortical gray matter: Changes with aging and the role of CSF-suppression. Journal of Magnetic Resonance Imaging, 2004, 20, 216-227.	3.4	198
22	In VivoDiffusion Tensor Imaging and Histopathology of the Fimbria-Fornix in Temporal Lobe Epilepsy. Journal of Neuroscience, 2010, 30, 996-1002.	3.6	192
23	Brain Diffusion Abnormalities in Children With Fetal Alcohol Spectrum Disorder. Alcoholism: Clinical and Experimental Research, 2008, 32, 1732-1740.	2.4	175
24	Age-related regional variations of the corpus callosum identified by diffusion tensor tractography. NeuroImage, 2010, 52, 20-31.	4.2	174
25	Diffusion tensor spectroscopy (DTS) of human brain. Magnetic Resonance in Medicine, 2006, 55, 1-8.	3.0	171
26	White-matter diffusion abnormalities in temporal-lobe epilepsy with and without mesial temporal sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2009, 80, 312-319.	1.9	165
27	Extratemporal White Matter Abnormalities in Mesial Temporal Lobe Epilepsy Demonstrated with Diffusion Tensor Imaging. Epilepsia, 2006, 47, 1360-1363.	5.1	161
28	Quantitative Analysis of Apoptotic Cell Death Using Proton Nuclear Magnetic Resonance Spectroscopy. Blood, 1997, 89, 3778-3786.	1.4	145
29	Longitudinal MRI Reveals Altered Trajectory of Brain Development during Childhood and Adolescence in Fetal Alcohol Spectrum Disorders. Journal of Neuroscience, 2013, 33, 10098-10109.	3.6	132
30	Structural degree predicts functional network connectivity: A multimodal resting-state fMRI and MEG study. NeuroImage, 2014, 97, 296-307.	4.2	125
31	Multicomponent water proton transverse relaxation and T2-discriminated water diffusion in myelinated and nonmyelinated nerve. Magnetic Resonance Imaging, 1998, 16, 1201-1210.	1.8	120
32	Evolution of deep gray matter volume across the human lifespan. Human Brain Mapping, 2017, 38, 3771-3790.	3.6	115
33	Oscillating gradient spinâ€echo (OGSE) diffusion tensor imaging of the human brain. Magnetic Resonance in Medicine, 2014, 72, 726-736.	3.0	101
34	Diffusion MR Imaging During Acute Subarachnoid Hemorrhage in Rats. Stroke, 1998, 29, 2155-2161.	2.0	98
35	Extensive Deep Gray Matter Volume Reductions in Children and Adolescents with Fetal Alcohol Spectrum Disorders. Alcoholism: Clinical and Experimental Research, 2011, 35, no-no.	2.4	98
36	In vivo sodium magnetic resonance imaging of the human brain using soft inversion recovery fluid attenuation. Magnetic Resonance in Medicine, 2005, 54, 1305-1310.	3.0	97

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37	Diffusion tensor imaging tractography and reliability analysis for limbic and paralimbic white matter tracts. Psychiatry Research - Neuroimaging, 2008, 164, 132-142.	1.8	96
38	The Biological Basis of Diffusion Anisotropy. , 2009, , 105-126.		94
39	Bilateral White Matter Diffusion Changes Persist after Epilepsy Surgery. Epilepsia, 2007, 48, 931-940.	5.1	93
40	Developmental cortical thinning in fetal alcohol spectrum disorders. NeuroImage, 2011, 58, 16-25.	4.2	93
41	Cortical thickness asymmetry from childhood to older adulthood. NeuroImage, 2013, 83, 66-74.	4.2	93
42	Six is enough? Comparison of diffusion parameters measured using six or more diffusionâ€encoding gradient directions with deterministic tractography. Magnetic Resonance in Medicine, 2012, 68, 474-483.	3.0	92
43	Brain Microstructure Is Related to Math Ability in Children With Fetal Alcohol Spectrum Disorder. Alcoholism: Clinical and Experimental Research, 2010, 34, 354-363.	2.4	89
44	Accelerated longitudinal cortical thinning in adolescence. NeuroImage, 2015, 104, 138-145.	4.2	89
45	Relationships between Head Circumference, Brain Volume and Cognition in Children with Prenatal Alcohol Exposure. PLoS ONE, 2016, 11, e0150370.	2.5	87
46	Decompressive Craniectomy, Reperfusion, or a Combination for Early Treatment of Acute â€œMalignantâ€• Cerebral Hemispheric Stroke in Rats?. Stroke, 1999, 30, 1456-1463.	2.0	86
47	Dynamics of cerebral injury, perfusion, and blood-brain barrier changes after temporary and permanent middle cerebral artery occlusion in the rat. Journal of the Neurological Sciences, 1999, 166, 91-99.	0.6	84
48	Multi-component T1 relaxation and magnetisation transfer in peripheral nerve. Magnetic Resonance Imaging, 1998, 16, 1033-1041.	1.8	78
49	Reduction of Diffusion-Weighted Imaging Contrast of Acute Ischemic Stroke at Short Diffusion Times. Stroke, 2015, 46, 2136-2141.	2.0	76
50	Disrupted anatomic white matter network in left mesial temporal lobe epilepsy. Epilepsia, 2014, 55, 674-682.	5.1	74
51	Sodium imaging intensity increases with time after human ischemic stroke. Annals of Neurology, 2009, 66, 55-62.	5.3	73
52	Amygdala subnuclei response and connectivity during emotional processing. NeuroImage, 2016, 133, 98-110.	4.2	73
53	White matter correlates of cognitive inhibition during development: A diffusion tensor imaging study. Neuroscience, 2014, 276, 87-97.	2.3	72
54	Diffusion tensor imaging correlates of reading ability in dysfluent and non-impaired readers. Brain and Language, 2013, 125, 215-222.	1.6	69

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55	Graph theoretical analysis of developmental patterns of the white matter network. Frontiers in Human Neuroscience, 2013, 7, 716.	2.0	69
56	Magnetic Resonance Imaging Assessment of Cerebral Hemodynamics during Spreading Depression in Rats. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 1008-1017.	4.3	64
57	White matter abnormalities associate with type and localization of focal epileptogenic lesions. Epilepsia, 2015, 56, 125-132.	5.1	63
58	Mesial temporal sclerosis is linked with more widespread white matter changes in temporal lobe epilepsy. NeuroImage: Clinical, 2012, 1, 99-105.	2.7	59
59	The effect of concomitant gradient fields on diffusion tensor imaging. Magnetic Resonance in Medicine, 2012, 68, 1190-1201.	3.0	56
60	Distinct white matter abnormalities in different idiopathic generalized epilepsy syndromes. Epilepsia, 2011, 52, 2267-2275.	5.1	55
61	Aberrant topological patterns of brain structural network in temporal lobe epilepsy. Epilepsia, 2015, 56, 1992-2002.	5.1	55
62	Relationship between sodium intensity and perfusion deficits in acute ischemic stroke. Journal of Magnetic Resonance Imaging, 2011, 33, 41-47.	3.4	54
63	Advancing Concussion Assessment in Pediatrics (A-CAP): a prospective, concurrent cohort, longitudinal study of mild traumatic brain injury in children: protocol study. BMJ Open, 2017, 7, e017012.	1.9	54
64	The acute phase of Wallerian degeneration: Longitudinal diffusion tensor imaging of the fornix following temporal lobe surgery. NeuroImage, 2013, 74, 128-139.	4.2	52
65	Anin vitro evaluation of the effects of local magnetic-susceptibility-induced gradients on anisotropic water diffusion in nerve. Magnetic Resonance in Medicine, 1996, 36, 39-44.	3.0	50
66	Fetal Alcohol Spectrum Disorders: Gene-Environment Interactions, Predictive Biomarkers, and the Relationship Between Structural Alterations in the Brain and Functional Outcomes. Seminars in Pediatric Neurology, 2011, 18, 49-55.	2.0	50
67	Combined structural and neurochemical evaluation of the corticospinal tract in amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2010, 11, 157-165.	2.1	48
68	Diffusion Tensor Imaging Abnormalities in Focal Cortical Dysplasia. Canadian Journal of Neurological Sciences, 2005, 32, 477-482.	0.5	47
69	Corpus Callosum and Cingulum Tractography in Parkinson's Disease. Canadian Journal of Neurological Sciences, 2010, 37, 595-600.	0.5	47
70	Pulsed arterial spin labeling parameter optimization for an elderly population. Journal of Magnetic Resonance Imaging, 2006, 23, 398-403.	3.4	46
71	Sexual dimorphism of volume reduction but not cognitive deficit in fetal alcohol spectrum disorders: A combined diffusion tensor imaging, cortical thickness and brain volume study. NeuroImage: Clinical, 2017, 15, 284-297.	2.7	46
72	Trace apparent diffusion coefficients of metabolites in human brain using diffusion weighted magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 2005, 53, 1025-1032.	3.0	45

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73	Elevations of diffusion anisotropy are associated with hyper-acute stroke: a serial imaging study. Magnetic Resonance Imaging, 2008, 26, 683-693.	1.8	45
74	A prospective harmonized multicenter DTI study of cerebral white matter degeneration in ALS. Neurology, 2020, 95, e943-e952.	1.1	45
75	Longitudinal MRI reveals impaired cortical thinning in children and adolescents prenatally exposed to alcohol. Human Brain Mapping, 2014, 35, 4892-4903.	3.6	44
76	Polynitroxyl Albumin Reduces Infarct Size in Transient Focal Cerebral Ischemia in the Rat: Potential Mechanisms Studied by Magnetic Resonance Imaging. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 1022-1031.	4.3	43
77	Thalamic diffusion and volumetry in temporal lobe epilepsy with and without mesial temporal sclerosis. Epilepsy Research, 2008, 80, 184-193.	1.6	42
78	The Biological Basis of Diffusion Anisotropy. , 2014, , 155-183.		42
79	Spatial Profiling of the Corticospinal Tract in Amyotrophic Lateral Sclerosis Using Diffusion Tensor Imaging. Journal of Neuroimaging, 2007, 17, 234-240.	2.0	40
80	Advantage of sampling density weighted apodization over postacquisition filtering apodization for sodium MRI of the human brain. Magnetic Resonance in Medicine, 2008, 60, 981-986.	3.0	40
81	Diffusion Tensor Imaging Correlates of Saccadic Reaction Time in Children with Fetal Alcohol Spectrum Disorder. Alcoholism: Clinical and Experimental Research, 2013, 37, 1499-1507.	2.4	40
82	Maturation Along White Matter Tracts in Human Brain Using a Diffusion Tensor Surface Model Tract-Specific Analysis. Frontiers in Neuroanatomy, 2016, 10, 9.	1.7	37
83	Preserved cortical asymmetry despite thinner cortex in children and adolescents with prenatal alcohol exposure and associated conditions. Human Brain Mapping, 2018, 39, 72-88.	3.6	35
84	Spreading waves of transient and prolonged decreases in water diffusion after subarachnoid hemorrhage in rats. Magnetic Resonance in Medicine, 2000, 44, 110-116.	3.0	34
85	White matter hyperintensity volume predicts persistent cognitive impairment in transient ischemic attack and minor stroke. International Journal of Stroke, 2017, 12, 264-272.	5.9	34
86	Diffusion tensor imaging of white matter and correlates to eye movement control and psychometric testing in children with prenatal alcohol exposure. Human Brain Mapping, 2017, 38, 444-456.	3.6	33
87	The Relationship between Diffusion Anisotropy and Time of Onset after Stroke. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 1442-1450.	4.3	31
88	Tripleâ€quantumâ€filtered sodium imaging of the human brain at 4.7 T. Magnetic Resonance in Medicine, 2012, 67, 1633-1643.	3.0	31
89	Diffusion-weighted magnetic resonance imaging: Theory and potential applications to child neurology. Seminars in Pediatric Neurology, 1999, 6, 87-100.	2.0	30
90	Response inhibition deficits in children with Fetal Alcohol Spectrum Disorder: Relationship between diffusion tensor imaging of the corpus callosum and eye movement control. NeuroImage: Clinical, 2014, 5, 53-61.	2.7	30

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91	High resolution in-vivo diffusion imaging of the human hippocampus. NeuroImage, 2018, 182, 479-487.	4.2	26
92	Involvement of the dentate nucleus in the pathophysiology of amyotrophic lateral sclerosis: A multi-center and multi-modal neuroimaging study. NeuroImage: Clinical, 2020, 28, 102385.	2.7	25
93	Sodium imaging optimization under specific absorption rate constraint. Magnetic Resonance in Medicine, 2008, 59, 345-355.	3.0	24
94	<scp>R2</scp>* and quantitative susceptibility mapping in deep gray matter of 498 healthy controls from 5 to 90â€‰years. Human Brain Mapping, 2021, 42, 4597-4610.	3.6	24
95	Hyperglycemia Delays Terminal Depolarization and Enhances Repolarization after Peri-Infarct Spreading Depression as Measured by Serial Diffusion MR Mapping. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 591-595.	4.3	23
96	Residual quadrupole interaction in brain and its effect on quantitative sodium imaging. NMR in Biomedicine, 2016, 29, 119-128.	2.8	23
97	Multilocal magnetic resonance perfusion mapping comparing the cerebral hemodynamic effects of decompressive craniectomy versus reperfusion in experimental acute hemispheric stroke in rats. Neuroscience Letters, 2003, 344, 127-131.	2.1	22
98	Considerations for measuring the fractional anisotropy of metabolites with diffusion tensor spectroscopy. NMR in Biomedicine, 2011, 24, 270-280.	2.8	22
99	Acquisition strategy to reduce cerebrospinal fluid partial volume effects for improved DTI tractography. Magnetic Resonance in Medicine, 2015, 73, 1075-1084.	3.0	22
100	White matter structural network abnormalities underlie executive dysfunction in amyotrophic lateral sclerosis. Human Brain Mapping, 2017, 38, 1249-1268.	3.6	22
101	Corticospinal tract degeneration in ALS unmasked in T1â€weighted images using texture analysis. Human Brain Mapping, 2019, 40, 1174-1183.	3.6	22
102	Longitudinal white matter microstructural changes in pediatric mild traumatic brain injury: An <scp>Aâ€CAP</scp> study. Human Brain Mapping, 2022, 43, 3809-3823.	3.6	21
103	Sensorimotor network alterations in children and youth with prenatal alcohol exposure. Human Brain Mapping, 2018, 39, 2258-2268.	3.6	20
104	Anisotropic diffusion of metabolites in peripheral nerve using diffusion weighted magnetic resonance spectroscopy at ultra-high field. Journal of Magnetic Resonance, 2007, 184, 20-28.	2.1	19
105	Altered Functional Connectivity Observed at Rest in Children and Adolescents Prenatally Exposed to Alcohol. Brain Connectivity, 2018, 8, 503-515.	1.7	19
106	Insights into the sequence of structural consequencesâ€¨ of convulsive status epilepticus: A longitudinal MRI study. Epilepsia, 2008, 49, 1941-1945.	5.1	18
107	Correlations between Limbic White Matter and Cognitive Function in Temporal-Lobe Epilepsy, Preliminary Findings. Frontiers in Aging Neuroscience, 2014, 6, 142.	3.4	18
108	Progressive contralateral hippocampal atrophy following surgery for medically refractory temporal lobe epilepsy. Epilepsy Research, 2016, 125, 62-71.	1.6	18

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109	Calculating potential error in sodium <scp>MRI</scp> with respect to the analysis of small objects. Magnetic Resonance in Medicine, 2018, 79, 2968-2977.	3.0	18
110	Structural and functional multi-platform MRI series of a single human volunteer over more than fifteen years. Scientific Data, 2019, 6, 245.	5.3	18
111	Multivariate models of brain volume for identification of children and adolescents with fetal alcohol spectrum disorder. Human Brain Mapping, 2020, 41, 1181-1194.	3.6	18
112	Altered brain white matter connectome in children and adolescents with prenatal alcohol exposure. Brain Structure and Function, 2020, 225, 1123-1133.	2.3	18
113	Comparison of multislice and single-slice acquisitions for pulsed arterial spin labeling measurements of cerebral perfusion. Magnetic Resonance Imaging, 2006, 24, 869-876.	1.8	17
114	Diffusion abnormalities of the corpus callosum in patients with malformations of cortical development and epilepsy. Epilepsy Research, 2014, 108, 1533-1542.	1.6	17
115	Full Activation Profiles and Integrity of Corticospinal Pathways in Adults With Bilateral Spastic Cerebral Palsy. Neurorehabilitation and Neural Repair, 2019, 33, 59-69.	2.9	17
116	Radiological Findings on Structural Magnetic Resonance Imaging in Fetal Alcohol Spectrum Disorders and Healthy Controls. Alcoholism: Clinical and Experimental Research, 2020, 44, 455-462.	2.4	17
117	A simple estimate of axon size with diffusion MRI. NeuroImage, 2021, 227, 117619.	4.2	17
118	Fatigue in Multiple Sclerosis: Assessing Pontine Involvement Using Proton MR Spectroscopic Imaging. PLoS ONE, 2016, 11, e0149622.	2.5	16
119	In vivo double quantum filtered sodium magnetic resonance imaging of human brain. Magnetic Resonance in Medicine, 2015, 73, 497-504.	3.0	15
120	Diffusion time dependency along the human corpus callosum and exploration of age and sex differences as assessed by oscillating gradient spin-echo diffusion tensor imaging. NeuroImage, 2020, 210, 116533.	4.2	15
121	Diffusionâ€Weighted Magnetic Resonance Imaging Characteristics of Hemorrhagic Transformation in Experimental Embolic Stroke. Journal of Neuroimaging, 1997, 7, 227-231.	2.0	14
122	Brain Myelin Water Fraction and Diffusion Tensor Imaging Atlases for 9â€10 Yearâ€Old Children. Journal of Neuroimaging, 2020, 30, 150-160.	2.0	14
123	Cerebrovascular Reactivity Across the Entire Brain in Cerebral Amyloid Angiopathy. Neurology, 2022, 98, .	1.1	14
124	In vivo magnetic resonance imaging of the human cervical spinal cord at 3 Tesla. Journal of Magnetic Resonance Imaging, 2002, 16, 21-27.	3.4	13
125	Low Cerebral Blood Volume Is Predictive of Diffusion Restriction Only in Hyperacute Stroke. Stroke, 2010, 41, 2795-2800.	2.0	13
126	Signalâ€toâ€noise optimization for sodium MRI of the human knee at 4.7 Tesla using steady state. Magnetic Resonance in Medicine, 2011, 66, 697-705.	3.0	13

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127	Diffusion tensor imaging tractography reveals altered fornix in all diagnostic subtypes of multiple sclerosis. Brain and Behavior, 2020, 10, e01514.	2.2	13
128	Myelin Water Imaging Demonstrates Lower Brain Myelination in Children and Adolescents With Poor Reading Ability. Frontiers in Human Neuroscience, 2020, 14, 568395.	2.0	13
129	Current Socioeconomic Status Correlates With Brain Volumes in Healthy Children and Adolescents but Not in Children With Prenatal Alcohol Exposure. Frontiers in Human Neuroscience, 2020, 14, 223.	2.0	13
130	Experimental and theoretical estimates of the internal rotational barrier of benzyl fluoride in the vapor phase. Canadian Journal of Chemistry, 1990, 68, 581-586.	1.1	12
131	Long-range 1H,19F and 13C,19F coupling constants and molecular orbital computations as indicators of internal motion in C6H5OCF3 and its 4-fluoro derivative. Canadian Journal of Chemistry, 1991, 69, 1047-1053.	1.1	12
132	Comparison of diffusion, blood oxygenation, and blood volume changes during global ischemia in rats. Magnetic Resonance in Medicine, 2001, 45, 10-16.	3.0	11
133	Sodium imaging of the human knee using soft inversion recovery fluid attenuation. Journal of Magnetic Resonance, 2013, 234, 197-206.	2.1	11
134	Regional hippocampal diffusion abnormalities associated with subfieldâ€specific pathology in temporal lobe epilepsy. Epilepsia Open, 2019, 4, 544-554.	2.4	11
135	High resolution continuous arterial spin labeling of human cerebral perfusion using a separate neck tagging RF coil. PLoS ONE, 2019, 14, e0215998.	2.5	11
136	Neuroanatomical associations of the Edinburgh cognitive and Behavioural ALS screen (ECAS). Brain Imaging and Behavior, 2021, 15, 1641-1654.	2.1	11
137	High resolution diffusion tensor imaging of the hippocampus across the healthy lifespan. Hippocampus, 2021, 31, 1271-1284.	1.9	11
138	Thrombolysis with reteplase, an unglycosylated plasminogen activator variant, in experimental embolic stroke. Journal of Stroke and Cerebrovascular Diseases, 1998, 7, 179-186.	1.6	10
139	Evaluation of B0-inhomogeneity correction for triple-quantum-filtered sodium MRI of the human brain at 4.7T. Journal of Magnetic Resonance, 2013, 230, 134-144.	2.1	10
140	Exploring and enhancing relaxation-based sodium MRI contrast. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 21-33.	2.0	10
141	Dynamic Evolution of Diffusion-Weighted Imaging Lesions in Patients With Minor Ischemic Stroke. Stroke, 2015, 46, 2318-2321.	2.0	10
142	Myelin Water Fraction Imaging of the Brain in Children with Prenatal Alcohol Exposure. Alcoholism: Clinical and Experimental Research, 2019, 43, 833-841.	2.4	10
143	Venous contribution to sodium MRI in the human brain. Magnetic Resonance in Medicine, 2020, 83, 1331-1338.	3.0	10
144	Combined X-ray angiography and diffusionâ€“perfusion MRI for studying stroke evolution after rt-PA treatment in rats. Brain Research, 2002, 953, 112-118.	2.2	9

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145	Examining brain white matter after pediatric mild traumatic brain injury using neurite orientation dispersion and density imaging: An A-CAP study. NeuroImage: Clinical, 2021, 32, 102887.	2.7	9
146	An NMR study of steric and hyperconjugative barriers in benzyl X(CH3)3, Xâ€,=â€,C, Si, Ge, Sn, Pb. Canadian Journal of Chemistry, 1989, 67, 1283-1287.	1.1	8
147	Molecular orbital and 1H nuclear magnetic resonance studies of the inversion potentials of thianthrene and thioxanthene. Canadian Journal of Chemistry, 1991, 69, 927-933.	1.1	8
148	Longitudinal hippocampal and extra-hippocampal microstructural and macrostructural changes following temporal lobe epilepsy surgery. Epilepsy Research, 2018, 140, 128-137.	1.6	8
149	Blood pressure reduction in hypertensive acute ischemic stroke patients does not affect cerebral blood flow. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1878-1887.	4.3	8
150	Curved multiplanar reformatting provides improved visualization of hippocampal anatomy. Hippocampus, 2020, 30, 156-161.	1.9	8
151	Diffusion properties of the fornix assessed by deterministic tractography shows age, sex, volume, cognitive, hemispheric, and twin relationships in young adults from the Human Connectome Project. Brain Structure and Function, 2021, 226, 381-395.	2.3	8
152	Quantification of lung water density with UTE Yarnball MRI. Magnetic Resonance in Medicine, 2021, 86, 1330-1344.	3.0	8
153	Automated cerebral cortex segmentation based solely on diffusion tensor imaging for investigating cortical anisotropy. NeuroImage, 2021, 237, 118105.	4.2	8
154	Multisite Harmonization of Structural DTI Networks in Children: An A-CAP Study. Frontiers in Neurology, 0, 13, .	2.4	8
155	Brain Anatomy, Processing Speed, and Reading in School-Age Children. Developmental Neuropsychology, 2011, 36, 828-846.	1.4	7
156	23Na MRI of human skeletal muscle using long inversion recovery pulses. Magnetic Resonance Imaging, 2019, 63, 280-290.	1.8	7
157	Distinct patterns of progressive gray and white matter degeneration in amyotrophic lateral sclerosis. Human Brain Mapping, 2022, 43, 1519-1534.	3.6	7
158	2-Phenyladamantane as a model for axial phenylcyclohexane. 1H NMR and molecular orbital studies of motion about the Csp2â€"Csp3 bond. Canadian Journal of Chemistry, 1991, 69, 503-508.	1.1	6
159	Motion robust GRAPPA for echoâ€planar imaging. Magnetic Resonance in Medicine, 2016, 75, 1166-1174.	3.0	6
160	Radiofrequency excitationâ€"related 23 Na MRI signal loss in skeletal muscle, cartilage, and skin. Magnetic Resonance in Medicine, 2020, 83, 1992-2001.	3.0	6
161	Diffusion imaging of fornix and interconnected limbic deep grey matter is linked to cognitive impairment in multiple sclerosis. European Journal of Neuroscience, 2022, 55, 277-294.	2.6	6
162	Assessment of Averaging Spatially Correlated Noise for 3-D Radial Imaging. IEEE Transactions on Medical Imaging, 2011, 30, 1381-1390.	8.9	5

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163	Rapid acquisition diffusion MR spectroscopy of metabolites in human brain. NMR in Biomedicine, 2021, 34, e4270.	2.8	5
164	Sodium Intensity Changes Differ Between Relaxation- and Density-Weighted MRI in Multiple Sclerosis. Frontiers in Neurology, 2021, 12, 693447.	2.4	5
165	Characterization of B₁⁺ field variation in brain at 3 T using 385 healthy individuals across the lifespan. Magnetic Resonance in Medicine, 2022, 87, 960-971.	3.0	5
166	Motion about the bond in benzyl OR (Râ€,=â€,CH3, CH2CH3, CH(CH3)2, C(CH3)3). Solvent and substituent dependence. Canadian Journal of Chemistry, 1990, 68, 1553-1558.	1.1	4
167	Isolated febrile seizures are not associated with structural abnormalities of the limbic system. Epilepsy Research, 2012, 102, 216-220.	1.6	4
168	Threeâ€dimensional Yarnball kâ€space acquisition for accelerated MRI. Magnetic Resonance in Medicine, 2021, 85, 1840-1854.	3.0	4
169	Peri-hematoma corticospinal tract integrity in intracerebral hemorrhage patients: A diffusion-tensor imaging study. Journal of the Neurological Sciences, 2021, 421, 117317.	0.6	4
170	Prenatal Exposure And Child brain and mental Health (PEACH) study: protocol for a cohort study of children and youth with prenatal alcohol exposure. BMJ Open, 2021, 11, e051660.	1.9	4
171	Intraoperative acquisition of DTI in cranial neurosurgery: readout-segmented DTI versus standard single-shot DTI. Journal of Neurosurgery, 2020, 133, 1210-1219.	1.6	4
172	Lifespan Volume Trajectories From Nonâ€“harmonized T1â€“Weighted MRI Do Not Differ After Site Correction Based on Traveling Human Phantoms. Frontiers in Neurology, 2022, 13, .	2.4	4
173	High spatial resolution nerveâ€specific DTI protocol outperforms wholeâ€brain DTI protocol for imaging the trigeminal nerve in healthy individuals. NMR in Biomedicine, 2021, 34, e4427.	2.8	3
174	Highâ€resolution diffusion tensor imaging identifies hippocampal volume loss without diffusion changes in individuals with prenatal alcohol exposure. Alcoholism: Clinical and Experimental Research, 2022, 46, 1204-1219.	2.4	3
175	ISDN2014_0283: Is head circumference an accurate proxy for brain volume in individuals with fetal alcohol spectrum disorders?. International Journal of Developmental Neuroscience, 2015, 47, 84-85.	1.6	2
176	Imaging Brain Structure in FASD. International Library of Ethics, Law, and the New Medicine, 2018, , 77-93.	0.5	2
177	Nitroglycerin Is Not Associated with Improved Cerebral Perfusion in Acute Ischemic Stroke. Canadian Journal of Neurological Sciences, 2021, 48, 349-357.	0.5	2
178	A Normative Brain MRI Database of Neurotypical Participants from 5-90 Years of Age. Canadian Journal of Neurological Sciences, 2022, , 1-13.	0.5	2
179	Diffusion tensor tractography of the fornix in cerebral amyloid angiopathy, mild cognitive impairment and Alzheimerâ€™s disease. NeuroImage: Clinical, 2022, 34, 103002.	2.7	2
180	Motor Cortex and Spinal Degeneration in Multisystem Atrophy: A Multimodal Study. Canadian Journal of Neurological Sciences, 2008, 35, 658-660.	0.5	1

#	Article	IF	Citations
181	Hippocampus Segmentation On High Resolution Diffusion MRI. , 2021, , .		1
182	White Matter Diffusion Properties in Chronic Temporomandibular Disorders: An Exploratory Analysis. Frontiers in Pain Research, 0, 3, .	2.0	1
183	ISDN2014_0383: Thinner cortex and reduced brain volumes in children and adolescents with prenatal alcohol exposure. International Journal of Developmental Neuroscience, 2015, 47, 112-113.	1.6	0
184	Cover Image, Volume 30, Issue 2. Hippocampus, 2020, 30, C1.	1.9	0
185	MRI Demonstrates that Tissue-Type Plasminogen Activator Increases Stroke Volume if Cerebral Arteries Are not Successfully Recanalized. , 2001, , 420-427.		0
186	Diffusion Tensor Imaging of the Brain in Fetal Alcohol Spectrum Disorder. , 2011, , 2897-2913.		0