

# Robert Bartha

## List of Publications by Citations

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183  
papers

5,598  
citations

39  
h-index

68  
g-index

204  
ext. papers

6,645  
ext. citations

4.7  
avg, IF

5.46  
L-index

#	Paper	IF	Citations
183	Clinical proton MR spectroscopy in central nervous system disorders. <i>Radiology</i> , <b>2014</b> , 270, 658-79	20.5	381
182	Glutamate and glutamine measured with 4.0 T proton MRS in never-treated patients with schizophrenia and healthy volunteers. <i>American Journal of Psychiatry</i> , <b>2002</b> , 159, 1944-6	11.9	338
181	Ventricular enlargement as a possible measure of Alzheimer's disease progression validated using the Alzheimer's disease neuroimaging initiative database. <i>Brain</i> , <b>2008</b> , 131, 2443-54	11.2	289
180	Resting state default-mode network connectivity in early depression using a seed region-of-interest analysis: decreased connectivity with caudate nucleus. <i>Psychiatry and Clinical Neurosciences</i> , <b>2009</b> , 63, 754-61	6.2	222
179	Measurement of glutamate and glutamine in the medial prefrontal cortex of never-treated schizophrenic patients and healthy controls by proton magnetic resonance spectroscopy. <i>Archives of General Psychiatry</i> , <b>1997</b> , 54, 959-65		193
178	Association of Dual-Task Gait With Incident Dementia in Mild Cognitive Impairment: Results From the Gait and Brain Study. <i>JAMA Neurology</i> , <b>2017</b> , 74, 857-865	17.2	176
177	A short echo 1H spectroscopy and volumetric MRI study of the corpus striatum in patients with obsessive-compulsive disorder and comparison subjects. <i>American Journal of Psychiatry</i> , <b>1998</b> , 155, 1584-91	11.9	139
176	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 527-550	4.4	134
175	Comparison of the quantification precision of human short echo time (1)H spectroscopy at 1.5 and 4.0 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 185-92	4.4	120
174	Quantitative tissue pH measurement during cerebral ischemia using amine and amide concentration-independent detection (AACID) with MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2014</b> , 34, 690-8	7.3	111
173	Blood pressure levels and brain volume reduction: a systematic review and meta-analysis. <i>Journal of Hypertension</i> , <b>2013</b> , 31, 1502-16	1.9	108
172	Reduced hippocampal glutamate in Alzheimer disease. <i>Neurobiology of Aging</i> , <b>2011</b> , 32, 802-10	5.6	105
171	Factors affecting the quantification of short echo in-vivo 1H MR spectra: prior knowledge, peak elimination, and filtering. <i>NMR in Biomedicine</i> , <b>1999</b> , 12, 205-16	4.4	104
170	A sensitive PARACEST contrast agent for temperature MRI: Eu3+-DOTAM-glycine (Gly)-phenylalanine (Phe). <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 59, 374-81	4.4	102
169	In vivo 1H2O T2+ measurement in the human occipital lobe at 4T and 7T by Carr-Purcell MRI: detection of microscopic susceptibility contrast. <i>Magnetic Resonance in Medicine</i> , <b>2002</b> , 47, 742-50	4.4	99
168	Four-pool modeling of proton exchange processes in biological systems in the presence of MRI-paramagnetic chemical exchange saturation transfer (PARACEST) agents. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 1197-206	4.4	98
167	Motor cortex and gait in mild cognitive impairment: a magnetic resonance spectroscopy and volumetric imaging study. <i>Brain</i> , <b>2013</b> , 136, 859-71	11.2	76

166	Elimination of the vesicular acetylcholine transporter in the striatum reveals regulation of behaviour by cholinergic-glutamatergic co-transmission. <i>PLoS Biology</i> , <b>2011</b> , 9, e1001194	9.7	74
165	Quantitative proton short-echo-time LASER spectroscopy of normal human white matter and hippocampus at 4 Tesla incorporating macromolecule subtraction. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 49, 918-27	4.4	72
164	Spectroscopic lineshape correction by QUECC: combined QUALITY deconvolution and eddy current correction. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 641-5	4.4	67
163	Stress-inducible phosphoprotein 1 has unique cochaperone activity during development and regulates cellular response to ischemia via the prion protein. <i>FASEB Journal</i> , <b>2013</b> , 27, 3594-607	0.9	65
162	Simultaneous in vivo pH and temperature mapping using a PARACEST-MRI contrast agent. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 1016-25	4.4	62
161	A short echo proton magnetic resonance spectroscopy study of the left mesial-temporal lobe in first-onset schizophrenic patients. <i>Biological Psychiatry</i> , <b>1999</b> , 45, 1403-11	7.9	60
160	Functional MRI of pain application in youth who engaged in repetitive non-suicidal self-injury vs. psychiatric controls. <i>Psychiatry Research - Neuroimaging</i> , <b>2014</b> , 223, 104-12	2.9	57
159	Vitamin D concentration and lateral cerebral ventricle volume in older adults. <i>Molecular Nutrition and Food Research</i> , <b>2013</b> , 57, 267-76	5.9	52
158	The Canadian Dementia Imaging Protocol: Harmonizing National Cohorts. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 49, 456-465	5.6	50
157	Multiparametric MRI changes persist beyond recovery in concussed adolescent hockey players. <i>Neurology</i> , <b>2017</b> , 89, 2157-2166	6.5	47
156	Forebrain deletion of the vesicular acetylcholine transporter results in deficits in executive function, metabolic, and RNA splicing abnormalities in the prefrontal cortex. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 14908-20	6.6	46
155	A robust and convergent synthesis of dipeptide-DOTAM conjugates as chelators for lanthanide ions: new PARACEST MRI agents. <i>Bioconjugate Chemistry</i> , <b>2007</b> , 18, 1625-36	6.3	46
154	Aerobic Glycolysis in the Frontal Cortex Correlates with Memory Performance in Wild-Type Mice But Not the APP/PS1 Mouse Model of Cerebral Amyloidosis. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 1871-8	6.6	45
153	The Ontario Neurodegenerative Disease Research Initiative (ONDRI). <i>Canadian Journal of Neurological Sciences</i> , <b>2017</b> , 44, 196-202	1	44
152	Brain reorganization in patients with spinal cord compression evaluated using fMRI. <i>Neurology</i> , <b>2010</b> , 74, 1048-54	6.5	44
151	Increased glutamate in the hippocampus after galantamine treatment for Alzheimer disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2010</b> , 34, 104-10	5.5	44
150	Combination of memantine and vitamin D prevents axon degeneration induced by amyloid-beta and glutamate. <i>Neurobiology of Aging</i> , <b>2014</b> , 35, 331-5	5.6	41
149	Motor Phenotype in Neurodegenerative Disorders: Gait and Balance Platform Study Design Protocol for the Ontario Neurodegenerative Research Initiative (ONDRI). <i>Journal of Alzheimer's Disease</i> , <b>2017</b> , 59, 707-721	4.3	40

148	Effect of signal-to-noise ratio and spectral linewidth on metabolite quantification at 4 T. <i>NMR in Biomedicine</i> , <b>2007</b> , 20, 512-21	4.4	40
147	Duration of untreated psychosis vs. N-acetylaspartate and choline in first episode schizophrenia: a 1H magnetic resonance spectroscopy study at 4.0 Tesla. <i>Psychiatry Research - Neuroimaging</i> , <b>2004</b> , 131, 107-14	2.9	40
146	Advanced single voxel H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , <b>2020</b> , 34, e4236	4.4	40
145	Comorbid A $\beta$ toxicity and stroke: hippocampal atrophy, pathology, and cognitive deficit. <i>Neurobiology of Aging</i> , <b>2014</b> , 35, 1605-14	5.6	39
144	A paramagnetic chemical exchange-based MRI probe metabolized by cathepsin D: design, synthesis and cellular uptake studies. <i>Organic and Biomolecular Chemistry</i> , <b>2010</b> , 8, 2560-6	3.9	39
143	Vitamin D and brain volumetric changes: Systematic review and meta-analysis. <i>Maturitas</i> , <b>2014</b> , 78, 30-9	5	36
142	MRI and multinuclear MR spectroscopy of 3,200-year-old Egyptian mummy brain. <i>American Journal of Roentgenology</i> , <b>2007</b> , 189, W105-10	5.4	36
141	Higher gait variability is associated with decreased parietal gray matter volume among healthy older adults. <i>Brain Topography</i> , <b>2014</b> , 27, 293-5	4.3	35
140	High field (1)H MRS of the hippocampus after donepezil treatment in Alzheimer disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2008</b> , 32, 786-93	5.5	35
139	Contribution of brain imaging to the understanding of gait disorders in Alzheimer's disease: a systematic review. <i>American Journal of Alzheimer's Disease and Other Dementias</i> , <b>2012</b> , 27, 371-80	2.5	34
138	Proton magnetic resonance spectroscopy of the motor cortex in cervical myelopathy. <i>Brain</i> , <b>2012</b> , 135, 461-8	11.2	32
137	Topiramate induces acute intracellular acidification in glioblastoma. <i>Journal of Neuro-Oncology</i> , <b>2016</b> , 130, 465-472	4.8	32
136	Metabolomics profiling of concussion in adolescent male hockey players: a novel diagnostic method. <i>Metabolomics</i> , <b>2016</b> , 12, 1	4.7	31
135	Association between gait variability and brain ventricle attributes: a brain mapping study. <i>Experimental Gerontology</i> , <b>2014</b> , 57, 256-63	4.5	29
134	In vivo detection of MRI-PARACEST agents in mouse brain tumors at 9.4 T. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 67-72	4.4	29
133	Low-grade glioma: correlation of short echo time 1H-MR spectroscopy with 23Na MR imaging. <i>American Journal of Neuroradiology</i> , <b>2008</b> , 29, 464-70	4.4	29
132	Long component time constant of 23Na T*2 relaxation in healthy human brain. <i>Magnetic Resonance in Medicine</i> , <b>2004</b> , 52, 407-10	4.4	29
131	Glutamate and Dysconnection in the Salience Network: Neurochemical, Effective Connectivity, and Computational Evidence in Schizophrenia. <i>Biological Psychiatry</i> , <b>2020</b> , 88, 273-281	7.9	28

130	Linear aspects of transformation from interictal epileptic discharges to BOLD fMRI signals in an animal model of occipital epilepsy. <i>NeuroImage</i> , <b>2006</b> , 30, 1133-48	7.9	28
129	Imaging chemical exchange saturation transfer (CEST) effects following tumor-selective acidification using lonidamine. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 566-75	4.4	27
128	Semi-LASER H MR spectroscopy at 7 Tesla in human brain: Metabolite quantification incorporating subject-specific macromolecule removal. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 4-12	4.4	27
127	ParaCEST MRI contrast agents capable of derivatization via "click" chemistry. <i>Organic and Biomolecular Chemistry</i> , <b>2012</b> , 10, 287-92	3.9	25
126	Slow gait in MCI is associated with ventricular enlargement: results from the Gait and Brain Study. <i>Journal of Neural Transmission</i> , <b>2013</b> , 120, 1083-92	4.3	25
125	MouseBytes, an open-access high-throughput pipeline and database for rodent touchscreen-based cognitive assessment. <i>ELife</i> , <b>2019</b> , 8,	8.9	24
124	Vitamin D and white matter abnormalities in older adults: a quantitative volumetric analysis of brain MRI. <i>Experimental Gerontology</i> , <b>2015</b> , 63, 41-7	4.5	23
123	Analogs of Eu <sup>3+</sup> DOTAM-Gly-Phe-OH and Tm <sup>3+</sup> DOTAM-Gly-Lys-OH: synthesis and magnetic properties of potential PARACEST MRI contrast agents. <i>Bioorganic and Medicinal Chemistry</i> , <b>2008</b> , 16, 6156-66	3.4	23
122	Advances in high-field magnetic resonance spectroscopy in Alzheimer's disease. <i>Current Alzheimer Research</i> , <b>2014</b> , 11, 367-88	3	22
121	Endothelin-1 induced MCAO: dose dependency of cerebral blood flow. <i>Journal of Neuroscience Methods</i> , <b>2009</b> , 179, 22-8	3	22
120	Association between ambulatory 24-hour blood pressure levels and brain volume reduction: a cross-sectional elderly population-based study. <i>Hypertension</i> , <b>2012</b> , 60, 1324-31	8.5	22
119	Changes in functional magnetic resonance imaging cortical activation after decompression of cervical spondylosis: case report. <i>Neurosurgery</i> , <b>2010</b> , 67, E863-4; discussion E864	3.2	22
118	Real-time display of artifact-free electroencephalography during functional magnetic resonance imaging and magnetic resonance spectroscopy in an animal model of epilepsy. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 53, 456-64	4.4	22
117	Anatomic Correlation of the Mini-Mental State Examination: A Voxel-Based Morphometric Study in Older Adults. <i>PLoS ONE</i> , <b>2016</b> , 11, e0162889	3.7	22
116	Dichloroacetate induced intracellular acidification in glioblastoma: in vivo detection using AACID-CEST MRI at 9.4T Tesla. <i>Journal of Neuro-Oncology</i> , <b>2018</b> , 136, 255-262	4.8	22
115	Entorhinal Cortex Volume Is Associated With Dual-Task Gait Cost Among Older Adults With MCI: Results From the Gait and Brain Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2019</b> , 74, 698-704	6.4	21
114	Clinical applications of neuroimaging in patients with Alzheimer's disease: a review from the Fourth Canadian Consensus Conference on the Diagnosis and Treatment of Dementia 2012. <i>Alzheimer's Research and Therapy</i> , <b>2013</b> , 5, S3	9	20
113	MR compatibility of EEG scalp electrodes at 4 tesla. <i>Journal of Magnetic Resonance Imaging</i> , <b>2007</b> , 25, 872-7	5.6	20

112	In vivo detection of PARACEST agents with relaxation correction. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 1184-92	4.4	19
111	Sodium T2*-weighted MR imaging of acute focal cerebral ischemia in rabbits. <i>Magnetic Resonance Imaging</i> , <b>2004</b> , 22, 983-91	3.3	18
110	Physiological monitoring of small animals during magnetic resonance imaging. <i>Journal of Neuroscience Methods</i> , <b>2005</b> , 144, 207-13	3	18
109	Vitamin D and caudal primary motor cortex: a magnetic resonance spectroscopy study. <i>PLoS ONE</i> , <b>2014</b> , 9, e87314	3.7	17
108	Reduced Hippocampal Glutamate and Posterior Cingulate N-Acetyl Aspartate in Mild Cognitive Impairment and Alzheimer's Disease Is Associated with Episodic Memory Performance and White Matter Integrity in the Cingulum: A Pilot Study. <i>Journal of Alzheimer's Disease</i> , <b>2020</b> , 73, 1385-1405	4.3	16
107	Reduced brain glutamine in female varsity rugby athletes after concussion and in non-concussed athletes after a season of play. <i>Human Brain Mapping</i> , <b>2018</b> , 39, 1489-1499	5.9	16
106	Click chemistry toward bis(DOTA-derived) heterometallic complexes: potential bimodal MRI/PET(SPECT) molecular imaging probes. <i>RSC Advances</i> , <b>2013</b> , 3, 3249	3.7	16
105	Registration of in vivo magnetic resonance T1-weighted brain images to triphenyltetrazolium chloride stained sections in small animals. <i>Journal of Neuroscience Methods</i> , <b>2006</b> , 156, 368-75	3	16
104	Effects of overnight sleep restriction on brain chemistry and mood in women with unipolar depression and healthy controls. <i>Journal of Psychiatry and Neuroscience</i> , <b>2009</b> , 34, 352-60	4.5	16
103	White matter integrity is associated with gait impairment and falls in mild cognitive impairment. Results from the gait and brain study. <i>NeuroImage: Clinical</i> , <b>2019</b> , 24, 101975	5.3	15
102	Water-soluble gold nanoparticles (AuNP) functionalized with a gadolinium(iii) chelate via Michael addition for use as a MRI contrast agent. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 5628-5635	7.3	15
101	Cervical Spondylotic Myelopathy: Metabolite Changes in the Primary Motor Cortex after Surgery. <i>Radiology</i> , <b>2017</b> , 282, 817-825	20.5	15
100	Vitamin D-related changes in intracranial volume in older adults: a quantitative neuroimaging study. <i>Maturitas</i> , <b>2015</b> , 80, 312-7	5	15
99	High-field MRSI of the prostate using a transmit/receive endorectal coil and gradient modulated adiabatic localization. <i>Journal of Magnetic Resonance Imaging</i> , <b>2009</b> , 30, 335-43	5.6	15
98	A DOTAM-based paraCEST agent favoring TSAP geometry for enhanced amide proton chemical shift dispersion and temperature sensitivity. <i>Contrast Media and Molecular Imaging</i> , <b>2013</b> , 8, 289-92	3.2	14
97	Role of emerging neuroimaging modalities in patients with cognitive impairment: a review from the Canadian Consensus Conference on the Diagnosis and Treatment of Dementia 2012. <i>Alzheimer's Research and Therapy</i> , <b>2013</b> , 5, S4	9	14
96	N-acetylaspartate in the motor and sensory cortices following functional recovery after surgery for cervical spondylotic myelopathy. <i>Journal of Neurosurgery: Spine</i> , <b>2016</b> , 25, 436-443	2.8	14
95	Comparison of quality control methods for automated diffusion tensor imaging analysis pipelines. <i>PLoS ONE</i> , <b>2019</b> , 14, e0226715	3.7	14

94	Optimized in vivo brain glutamate measurement using long-echo-time semi-LASER at 7 T. <i>NMR in Biomedicine</i> , <b>2018</b> , 31, e4002	4.4	14
93	Reproducibility of Neurite Orientation Dispersion and Density Imaging (NODDI) in rats at 9.4 Tesla. <i>PLoS ONE</i> , <b>2019</b> , 14, e0215974	3.7	13
92	Spontaneous low frequency BOLD signal variations from resting-state fMRI are decreased in Alzheimer disease. <i>PLoS ONE</i> , <b>2017</b> , 12, e0178529	3.7	13
91	The Monocarboxylate transporter inhibitor Quercetin induces intracellular acidification in a mouse model of Glioblastoma Multiforme: in-vivo detection using magnetic resonance imaging. <i>Investigational New Drugs</i> , <b>2019</b> , 37, 595-601	4.3	13
90	Mono- and Tetraalkyne Modified Ligands and Their Eu <sup>3+</sup> Complexes Utilizing Click Chemistry to Expand the Scope of Conjugation Chemistry. <i>European Journal of Organic Chemistry</i> , <b>2011</b> , 2011, 6532-6543	3.2	13
89	Transceive surface coil array for MRI of the human prostate at 4T. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 455-8	4.4	13
88	Quantitative short echo-time 1H LASER-CSI in human brain at 4 T. <i>NMR in Biomedicine</i> , <b>2006</b> , 19, 999-1009	4.4	13
87	Detection of Active Caspase-3 in Mouse Models of Stroke and Alzheimer's Disease with a Novel Dual Positron Emission Tomography/Fluorescent Tracer [Ga]Ga-TC3-OGDOTA. <i>Contrast Media and Molecular Imaging</i> , <b>2019</b> , 2019, 6403274	3.2	12
86	Longitudinal changes of brain microstructure and function in nonconcussed female rugby players. <i>Neurology</i> , <b>2020</b> , 95, e402-e412	6.5	12
85	Motor network recovery in patients with chronic spinal cord compression: a longitudinal study following decompression surgery. <i>Journal of Neurosurgery: Spine</i> , <b>2018</b> , 28, 379-388	2.8	12
84	In vivo detection of acute intracellular acidification in glioblastoma multiforme following a single dose of cariporide. <i>International Journal of Clinical Oncology</i> , <b>2018</b> , 23, 812-819	4.2	12
83	Metabolite and functional profile of patients with cervical spondylotic myelopathy. <i>Journal of Neurosurgery: Spine</i> , <b>2017</b> , 26, 547-553	2.8	11
82	The Dynamics of Impaired Blood-Brain Barrier Restoration in a Rat Model of Co-morbid Injury. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 8071-8083	6.2	11
81	Automated algorithm to measure changes in medial temporal lobe volume in Alzheimer disease. <i>Journal of Neuroscience Methods</i> , <b>2014</b> , 227, 35-46	3	11
80	A novel MRI-compatible brain ventricle phantom for validation of segmentation and volumetry methods. <i>Journal of Magnetic Resonance Imaging</i> , <b>2012</b> , 36, 476-82	5.6	11
79	Association between serum 25-hydroxyvitamin D concentration and optic chiasm volume. <i>Journal of the American Geriatrics Society</i> , <b>2013</b> , 61, 1026-8	5.6	11
78	Ventricular volume expansion in presymptomatic genetic frontotemporal dementia. <i>Neurology</i> , <b>2019</b> , 93, e1699-e1706	6.5	11
77	Linked MRI signatures of the brain's acute and persistent response to concussion in female varsity rugby players. <i>NeuroImage: Clinical</i> , <b>2019</b> , 21, 101627	5.3	11

76	1H MR spectroscopy of the motor cortex immediately following transcranial direct current stimulation at 7 Tesla. <i>PLoS ONE</i> , <b>2018</b> , 13, e0198053	3.7	11
75	Brain tumor acidification using drugs simultaneously targeting multiple pH regulatory mechanisms. <i>Journal of Neuro-Oncology</i> , <b>2019</b> , 144, 453-462	4.8	10
74	Association between muscle hydration measures acquired using bioelectrical impedance spectroscopy and magnetic resonance imaging in healthy and hemodialysis population. <i>Physiological Reports</i> , <b>2015</b> , 3, e12219	2.6	10
73	A new synthesis of cystamine modified Eu <sup>3+</sup> DOTAM-Gly-Phe-OH: a conjugation ready temperature sensitive MRI contrast agent. <i>Organic and Biomolecular Chemistry</i> , <b>2008</b> , 6, 3588-96	3.9	10
72	Functional MRI of neuronal activation in epilepsy patients with malformations of cortical development. <i>Epilepsy Research</i> , <b>2015</b> , 116, 1-7	3	9
71	A dual magnetic resonance imaging/fluorescent contrast agent for Cathepsin-D detection. <i>Contrast Media and Molecular Imaging</i> , <b>2013</b> , 8, 127-39	3.2	9
70	DOTAM-type ligands possessing arginine pendant groups for use in PARACEST MRI. <i>Contrast Media and Molecular Imaging</i> , <b>2012</b> , 7, 441-9	3.2	9
69	Reduced power magnetic resonance spectroscopic imaging of the prostate at 4.0 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 273-81	4.4	9
68	A bifunctional chelator featuring the DOTAM-Gly-l-Phe-OH structural subunit: en route toward homo- and heterobimetallic lanthanide(III) complexes as PARACEST MRI contrast agents. <i>Tetrahedron Letters</i> , <b>2010</b> , 51, 1087-1090	2	9
67	Longitudinal Measurements of Intra- and Extracellular pH Gradient in a Rat Model of Glioma. <i>Tomography</i> , <b>2018</b> , 4, 46-54	3.1	9
66	Memantine plus vitamin D prevents axonal degeneration caused by lysed blood. <i>ACS Chemical Neuroscience</i> , <b>2015</b> , 6, 393-7	5.7	8
65	Complexes of selected late period lanthanide(III) cations with 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid amide (DOTAM)-alkyl ligands: A new platform for the development of paramagnetic chemical exchange saturation transfer (PARACEST) agents for magnetic resonance imaging (MRI). <i>Journal of Inorganic Biochemistry</i> , <b>2012</b> , 91, 211-219	0.9	8
64	MRI ParaCEST agents that improve amide based pH measurements by limiting inner sphere water T2 exchange. <i>RSC Advances</i> , <b>2014</b> , 4, 1666-1674	3.7	7
63	Multimodal neuroimaging of frontal white matter microstructure in early phase schizophrenia: the impact of early adolescent cannabis use. <i>BMC Psychiatry</i> , <b>2013</b> , 13, 264	4.2	7
62	Prolonged In Vivo Retention of a Cathepsin D Targeted Optical Contrast Agent in a Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , <b>2015</b> , 48, 73-87	4.3	7
61	Use of Vitamin K Antagonists and Brain Volumetry in Older Adults: Preliminary Results From the GAIT Study. <i>Journal of the American Geriatrics Society</i> , <b>2015</b> , 63, 2199-202	5.6	7
60	Optimized MRI contrast for on-resonance proton exchange processes of PARACEST agents in biological systems. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 1282-91	4.4	7
59	Quantitative sodium MRI of the mouse prostate. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 63, 822-7	4.4	7



58	Synthesis of MRI contrast agents derived from DOTAM-Gly-L-Phe-OH incorporating a disulfide bridge: conjugation to a cell penetrating peptide and preparation of a dimeric agent. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2010</b> , 20, 5521-6	2.9	7
57	Ontario Neurodegenerative Disease Research Initiative (ONDRI): Structural MRI Methods and Outcome Measures. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 847	4.1	7
56	Illness versus substance use effects on the frontal white matter in early phase schizophrenia: A 4Tesla (1)H-MRS study. <i>Schizophrenia Research</i> , <b>2016</b> , 175, 4-11	3.6	7
55	Introduction of Peripheral Carboxylates to Decrease the Charge on Tm(3+) DOTAM-Alkyl Complexes: Implications for Detection Sensitivity and in Vivo Toxicity of PARACEST MRI Contrast Agents. <i>Journal of Medicinal Chemistry</i> , <b>2015</b> , 58, 6516-32	8.3	6
54	Unshielded asymmetric transmit-only and endorectal receive-only radiofrequency coil for (23) Na MRI of the prostate at 3 tesla. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 436-45	5.6	6
53	Nutrient biomarker patterns, cognitive function, and MRI measures of brain aging. <i>Neurology</i> , <b>2012</b> , 78, 1281; author reply 1281-2	6.5	6
52	The Ontario Neurodegenerative Disease Research Initiative		6
51	Repetitive mild traumatic brain injury in mice triggers a slowly developing cascade of long-term and persistent behavioral deficits and pathological changes. <i>Acta Neuropathologica Communications</i> , <b>2021</b> , 9, 60	7.3	6
50	An Aspartyl Cathepsin Targeted PET Agent: Application in an Alzheimer's Disease Mouse Model. <i>Journal of Alzheimer's Disease</i> , <b>2018</b> , 61, 1241-1252	4.3	5
49	The Canadian Dementia Imaging Protocol: Harmonization validity for morphometry measurements. <i>NeuroImage: Clinical</i> , <b>2019</b> , 24, 101943	5.3	5
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