

Robert Bartha

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

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	Deep Bayesian networks for uncertainty estimation and adversarial resistance of white matter hyperintensity segmentation.. <i>Human Brain Mapping</i> , 2022 ,	5.9	2
182	Brain pH Measurement Using AACID CEST MRI Incorporating the 2 ppm Amine Resonance.. <i>Tomography</i> , 2022 , 8, 730-739	3.1	
181	Investigating the contribution of white matter hyperintensities and cortical thickness to empathy in neurodegenerative and cerebrovascular diseases.. <i>GeroScience</i> , 2022 , 1	8.9	
180	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> , 2021 , 9, 60	7.3	6
179	Effect of Memantine Treatment and Combination with Vitamin D Supplementation on Body Composition in the APP/PS1 Mouse Model of Alzheimer's Disease Following Chronic Vitamin D Deficiency. <i>Journal of Alzheimer's Disease</i> , 2021 , 81, 375-388	4.3	0
178	The effect of physical exercise on functional brain network connectivity in older adults with and without cognitive impairment. A systematic review. <i>Mechanisms of Ageing and Development</i> , 2021 , 196, 111493	5.6	3
177	Concussion Acutely Decreases Plasma Glycerophospholipids in Adolescent Male Athletes. <i>Journal of Neurotrauma</i> , 2021 , 38, 1608-1614	5.4	3
176	Spinal cord compression is associated with brain plasticity in degenerative cervical myelopathy. <i>Brain Communications</i> , 2021 , 3, fcab131	4.5	0
175	Improved Segmentation of the Intracranial and Ventricular Volumes in Populations with Cerebrovascular Lesions and Atrophy Using 3D CNNs. <i>Neuroinformatics</i> , 2021 , 19, 597-618	3.2	5
174	Multimodality In Vivo Imaging of Perfusion and Glycolysis in a Rat Model of C6 Glioma. <i>Molecular Imaging and Biology</i> , 2021 , 23, 516-526	3.8	1
173	Multisite Comparison of MRI Defacing Software Across Multiple Cohorts. <i>Frontiers in Psychiatry</i> , 2021 , 12, 617997	5	3
172	MRI-visible perivascular space volumes, sleep duration and daytime dysfunction in adults with cerebrovascular disease. <i>Sleep Medicine</i> , 2021 , 83, 83-88	4.6	2
171	Resting state fMRI scanner instabilities revealed by longitudinal phantom scans in a multi-center study. <i>NeuroImage</i> , 2021 , 237, 118197	7.9	1
170	Neurite orientation dispersion and density imaging in a rodent model of acute mild traumatic brain injury. <i>Journal of Neuroimaging</i> , 2021 , 31, 879-892	2.8	2
169	Predicting Cognitive Impairment in Cerebrovascular Disease Using Spoken Discourse Production. <i>Topics in Language Disorders</i> , 2021 , 41, 73-98	1.3	2
168	Magnetic Resonance Imaging Sequence Identification Using a Metadata Learning Approach. <i>Frontiers in Neuroinformatics</i> , 2021 , 15, 622951	3.9	1
167	Putative Concussion Biomarkers Identified in Adolescent Male Athletes Using Targeted Plasma Proteomics.. <i>Frontiers in Neurology</i> , 2021 , 12, 787480	4.1	0

166	Structural Brain Magnetic Resonance Imaging to Rule Out Comorbid Pathology in the Assessment of Alzheimer's Disease Dementia: Findings from the Ontario Neurodegenerative Disease Research Initiative (ONDRI) Study and Clinical Trials Over the Past 10 Years. <i>Journal of Alzheimer's Disease</i> , 2020 , <i>74</i> , 747-757	4.3	4
165	Longitudinal changes of brain microstructure and function in nonconcussed female rugby players. <i>Neurology</i> , 2020 , <i>95</i> , e402-e412	6.5	12
164	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> , 2020 , <i>73</i> , 1385-1405	4.3	16
163	Glutamate and Dysconnection in the Salience Network: Neurochemical, Effective Connectivity, and Computational Evidence in Schizophrenia. <i>Biological Psychiatry</i> , 2020 , <i>88</i> , 273-281	7.9	28
162	Neural effects of oxytocin and mimicry in frontotemporal dementia: A randomized crossover study. <i>Neurology</i> , 2020 , <i>95</i> , e2635-e2647	6.5	5
161	Striatal Acetylcholine Helps to Preserve Functional Outcomes in a Mouse Model of Stroke. <i>ASN Neuro</i> , 2020 , <i>12</i> , 1759091420961612	5.3	1
160	Brain Metabolite Levels in Sedentary Women and Non-contact Athletes Differ From Contact Athletes. <i>Frontiers in Human Neuroscience</i> , 2020 , <i>14</i> , 593498	3.3	2
159	Ontario Neurodegenerative Disease Research Initiative (ONDRI): Structural MRI Methods and Outcome Measures. <i>Frontiers in Neurology</i> , 2020 , <i>11</i> , 847	4.1	7
158	Cortical Thickness Estimation in Individuals With Cerebral Small Vessel Disease, Focal Atrophy, and Chronic Stroke Lesions. <i>Frontiers in Neuroscience</i> , 2020 , <i>14</i> , 598868	5.1	4
157	Advanced single voxel H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2020 , <i>34</i> , e4236	4.4	40
156	Does the Neurological Examination Correlate with Patient-Perceived Outcomes in Degenerative Cervical Myelopathy?. <i>World Neurosurgery</i> , 2019 , <i>132</i> , e885-e890	2.1	1
155	Reproducibility of Neurite Orientation Dispersion and Density Imaging (NODDI) in rats at 9.4 Tesla. <i>PLoS ONE</i> , 2019 , <i>14</i> , e0215974	3.7	13
154	Differential effects of transcranial direct current stimulation on antiphase and inphase motor tasks: A pilot study. <i>Behavioural Brain Research</i> , 2019 , <i>366</i> , 13-18	3.4	2
153	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , 2019 , <i>82</i> , 527-550	4.4	134
152	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> , 2019 , <i>2019</i> , 6403274	3.2	12
151	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> , 2019 , <i>74</i> , 698-704	6.4	21
150	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> , 2019 , <i>37</i> , 595-601	4.3	13
149	Brain tumor acidification using drugs simultaneously targeting multiple pH regulatory mechanisms. <i>Journal of Neuro-Oncology</i> , 2019 , <i>144</i> , 453-462	4.8	10

148	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> , 2019 , 24, 101975	5.3	15
147	The Canadian Dementia Imaging Protocol: Harmonization validity for morphometry measurements. <i>NeuroImage: Clinical</i> , 2019 , 24, 101943	5.3	5
146	Synergistic toxicity in an in vivo model of neurodegeneration through the co-expression of human TDP-43 and tau protein. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 170	7.3	5
145	MouseBytes, an open-access high-throughput pipeline and database for rodent touchscreen-based cognitive assessment. <i>ELife</i> , 2019 , 8,	8.9	24
144	A preliminary magnetic resonance spectroscopy study of postmenopausal hormone effects on the brain. <i>Minerva Ginecologica</i> , 2019 , 71, 392-393	1.2	
143	Ventricular volume expansion in presymptomatic genetic frontotemporal dementia. <i>Neurology</i> , 2019 , 93, e1699-e1706	6.5	11
142	Comparison of quality control methods for automated diffusion tensor imaging analysis pipelines. <i>PLoS ONE</i> , 2019 , 14, e0226715	3.7	14
141	The Canadian Dementia Imaging Protocol: Harmonizing National Cohorts. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 456-465	5.6	50
140	Linked MRI signatures of the brain's acute and persistent response to concussion in female varsity rugby players. <i>NeuroImage: Clinical</i> , 2019 , 21, 101627	5.3	11
139	Characterization of clinical human prostate cancer lesions using 3.0-T sodium MRI registered to Gleason-graded whole-mount histopathology. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 1409-1419	5.6	5
138	Semiautomated Assessment of the Anterior Cingulate Cortex in Alzheimer's Disease. <i>Journal of Neuroimaging</i> , 2019 , 29, 376-382	2.8	1
137	The Dynamics of Impaired Blood-Brain Barrier Restoration in a Rat Model of Co-morbid Injury. <i>Molecular Neurobiology</i> , 2018 , 55, 8071-8083	6.2	11
136	Motor network recovery in patients with chronic spinal cord compression: a longitudinal study following decompression surgery. <i>Journal of Neurosurgery: Spine</i> , 2018 , 28, 379-388	2.8	12
135	An Aspartyl Cathepsin Targeted PET Agent: Application in an Alzheimer's Disease Mouse Model. <i>Journal of Alzheimer's Disease</i> , 2018 , 61, 1241-1252	4.3	5
134	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> , 2018 , 39, 1489-1499	5.9	16
133	In vivo detection of acute intracellular acidification in glioblastoma multiforme following a single dose of cariporide. <i>International Journal of Clinical Oncology</i> , 2018 , 23, 812-819	4.2	12
132	Somatic Gene Transfer Using a Recombinant Adenoviral Vector (rAAV9) Encoding Pseudophosphorylated Human Thr175 Tau in Adult Rat Hippocampus Induces Tau Pathology. <i>Journal of Neuropathology and Experimental Neurology</i> , 2018 , 77, 685-695	3.1	3
131	Longitudinal Measurements of Intra- and Extracellular pH Gradient in a Rat Model of Glioma. <i>Tomography</i> , 2018 , 4, 46-54	3.1	9

130	Dichloroacetate induced intracellular acidification in glioblastoma: in vivo detection using AACID-CEST MRI at 9.4T Tesla. <i>Journal of Neuro-Oncology</i> , 2018 , 136, 255-262	4.8	22
129	P3-379: BRAIN DIFFUSION TENSOR IMAGING METRICS IN ISCHEMIC LESIONS IN VASCULAR COGNITIVE IMPAIRMENT 2018 , 14, P1238-P1239		1
128	Optimized in vivo brain glutamate measurement using long-echo-time semi-LASER at 7 T. <i>NMR in Biomedicine</i> , 2018 , 31, e4002	4.4	14
127	¹ H MR spectroscopy of the motor cortex immediately following transcranial direct current stimulation at 7 Tesla. <i>PLoS ONE</i> , 2018 , 13, e0198053	3.7	11
126	Metabolite and functional profile of patients with cervical spondylotic myelopathy. <i>Journal of Neurosurgery: Spine</i> , 2017 , 26, 547-553	2.8	11
125	Association of Dual-Task Gait With Incident Dementia in Mild Cognitive Impairment: Results From the Gait and Brain Study. <i>JAMA Neurology</i> , 2017 , 74, 857-865	17.2	176
124	The Ontario Neurodegenerative Disease Research Initiative (ONDRI). <i>Canadian Journal of Neurological Sciences</i> , 2017 , 44, 196-202	1	44
123	Spontaneous low frequency BOLD signal variations from resting-state fMRI are decreased in Alzheimer disease. <i>PLoS ONE</i> , 2017 , 12, e0178529	3.7	13
122	Cervical Spondylotic Myelopathy: Metabolite Changes in the Primary Motor Cortex after Surgery. <i>Radiology</i> , 2017 , 282, 817-825	20.5	15
121	Multiparametric MRI changes persist beyond recovery in concussed adolescent hockey players. <i>Neurology</i> , 2017 , 89, 2157-2166	6.5	47
120	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> , 2017 , 59, 707-721	4.3	40
119	Metabolomics profiling of concussion in adolescent male hockey players: a novel diagnostic method. <i>Metabolomics</i> , 2016 , 12, 1	4.7	31
118	Preliminary evaluation of PARACEST MRI agents for the detection of nitric oxide synthase. <i>Canadian Journal of Chemistry</i> , 2016 , 94, 715-722	0.9	3
117	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> , 2016 , 36, 1871-8	6.6	45
116	Anatomic Correlation of the Mini-Mental State Examination: A Voxel-Based Morphometric Study in Older Adults. <i>PLoS ONE</i> , 2016 , 11, e0162889	3.7	22
115	N-acetylaspartate in the motor and sensory cortices following functional recovery after surgery for cervical spondylotic myelopathy. <i>Journal of Neurosurgery: Spine</i> , 2016 , 25, 436-443	2.8	14
114	P1-273: Neuronal Activity Derived From Resting State Functional MRI: A Potential Biomarker for Alzheimer's Disease 2016 , 12, P521-P521		
113	IC-P-121: Neuronal Activity Derived From Resting State Functional MRI: A Potential Biomarker for Alzheimer Disease 2016 , 12, P90-P90		

112	Illness versus substance use effects on the frontal white matter in early phase schizophrenia: A 4Tesla (1)H-MRS study. <i>Schizophrenia Research</i> , 2016 , 175, 4-11	3.6	7
111	Topiramate induces acute intracellular acidification in glioblastoma. <i>Journal of Neuro-Oncology</i> , 2016 , 130, 465-472	4.8	32
110	Memantine plus vitamin D prevents axonal degeneration caused by lysed blood. <i>ACS Chemical Neuroscience</i> , 2015 , 6, 393-7	5.7	8
109	Functional MRI of neuronal activation in epilepsy patients with malformations of cortical development. <i>Epilepsy Research</i> , 2015 , 116, 1-7	3	9
108	Imaging chemical exchange saturation transfer (CEST) effects following tumor-selective acidification using lonidamine. <i>NMR in Biomedicine</i> , 2015 , 28, 566-75	4.4	27
107	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> , 2015 , 58, 6516-32	8.3	6
106	Dysprosium(III) and thulium(III) complexes of DO3A-monoanilides: an investigation of electronic effects on their relaxometric and amide-based PARACEST properties. <i>Canadian Journal of Chemistry</i> , 2015 , 93, 244-252	0.9	2
105	Association between muscle hydration measures acquired using bioelectrical impedance spectroscopy and magnetic resonance imaging in healthy and hemodialysis population. <i>Physiological Reports</i> , 2015 , 3, e12219	2.6	10
104	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> , 2015 , 48, 73-87	4.3	7
103	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> , 2015 , 63, 2199-202	5.6	7
102	Reduced N-acetylaspartate to creatine ratio in the posterior cingulate correlates with cognition in Alzheimer's disease following four months of rivastigmine treatment. <i>Dementia and Geriatric Cognitive Disorders</i> , 2015 , 39, 68-80	2.6	3
101	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> , 2015 , 42, 436-45	5.6	6
100	Semi-LASER H MR spectroscopy at 7 Tesla in human brain: Metabolite quantification incorporating subject-specific macromolecule removal. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 4-12	4.4	27
99	Vitamin D-related changes in intracranial volume in older adults: a quantitative neuroimaging study. <i>Maturitas</i> , 2015 , 80, 312-7	5	15
98	Vitamin D and white matter abnormalities in older adults: a quantitative volumetric analysis of brain MRI. <i>Experimental Gerontology</i> , 2015 , 63, 41-7	4.5	23
97	Higher gait variability is associated with decreased parietal gray matter volume among healthy older adults. <i>Brain Topography</i> , 2014 , 27, 293-5	4.3	35
96	MRI ParaCEST agents that improve amide based pH measurements by limiting inner sphere water T2 exchange. <i>RSC Advances</i> , 2014 , 4, 1666-1674	3.7	7
95	Vitamin D and brain volumetric changes: Systematic review and meta-analysis. <i>Maturitas</i> , 2014 , 78, 30-9	5	36

94	NPAS3 variants in schizophrenia: a neuroimaging study. <i>BMC Medical Genetics</i> , 2014 , 15, 37	2.1	1
93	Clinical proton MR spectroscopy in central nervous system disorders. <i>Radiology</i> , 2014 , 270, 658-79	20.5	381
92	Combination of memantine and vitamin D prevents axon degeneration induced by amyloid-beta and glutamate. <i>Neurobiology of Aging</i> , 2014 , 35, 331-5	5.6	41
91	Functional MRI of pain application in youth who engaged in repetitive non-suicidal self-injury vs. psychiatric controls. <i>Psychiatry Research - Neuroimaging</i> , 2014 , 223, 104-12	2.9	57
90	Comorbid A β toxicity and stroke: hippocampal atrophy, pathology, and cognitive deficit. <i>Neurobiology of Aging</i> , 2014 , 35, 1605-14	5.6	39
89	Automated algorithm to measure changes in medial temporal lobe volume in Alzheimer disease. <i>Journal of Neuroscience Methods</i> , 2014 , 227, 35-46	3	11
88	4-T fMRI of the motor and sensory cortices in patients with polymicrogyria and epilepsy. <i>Clinical Neurology and Neurosurgery</i> , 2014 , 122, 29-33	2	4
87	Thalamic cramp-like pain. <i>Journal of the Neurological Sciences</i> , 2014 , 336, 269-72	3.2	5
86	Vitamin D and caudal primary motor cortex: a magnetic resonance spectroscopy study. <i>PLoS ONE</i> , 2014 , 9, e87314	3.7	17
85	Advances in high-field magnetic resonance spectroscopy in Alzheimer's disease. <i>Current Alzheimer Research</i> , 2014 , 11, 367-88	3	22
84	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> , 2014 , 34, 690-8	7.3	111
83	Association between gait variability and brain ventricle attributes: a brain mapping study. <i>Experimental Gerontology</i> , 2014 , 57, 256-63	4.5	29
82	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> , 2013 , 1, 5628-5635	7.3	15
81	Motor cortex and gait in mild cognitive impairment: a magnetic resonance spectroscopy and volumetric imaging study. <i>Brain</i> , 2013 , 136, 859-71	11.2	76
80	Multimodal neuroimaging of frontal white matter microstructure in early phase schizophrenia: the impact of early adolescent cannabis use. <i>BMC Psychiatry</i> , 2013 , 13, 264	4.2	7
79	Stress-inducible phosphoprotein 1 has unique cochaperone activity during development and regulates cellular response to ischemia via the prion protein. <i>FASEB Journal</i> , 2013 , 27, 3594-607	0.9	65
78	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> , 2013 , 33, 14908-20	6.6	46
77	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> , 2013 , 8, 289-92	3.2	14

76	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> , 2013 , 5, S3	9	20
75	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> , 2013 , 5, S4	9	14
74	Click chemistry toward bis(DOTA-derived) heterometallic complexes: potential bimodal MRI/PET(SPECT) molecular imaging probes. <i>RSC Advances</i> , 2013 , 3, 3249	3.7	16
73	A dual magnetic resonance imaging/fluorescent contrast agent for Cathepsin-D detection. <i>Contrast Media and Molecular Imaging</i> , 2013 , 8, 127-39	3.2	9
72	Vitamin D concentration and lateral cerebral ventricle volume in older adults. <i>Molecular Nutrition and Food Research</i> , 2013 , 57, 267-76	5.9	52
71	Slow gait in MCI is associated with ventricular enlargement: results from the Gait and Brain Study. <i>Journal of Neural Transmission</i> , 2013 , 120, 1083-92	4.3	25
70	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) magnetic resonance imaging (MRI) contrast agents. <i>Canadian Journal of Chemistry</i> , 2013 , 91, 211-219	0.9	8
69	Blood pressure levels and brain volume reduction: a systematic review and meta-analysis. <i>Journal of Hypertension</i> , 2013 , 31, 1502-16	1.9	108
68	Association between serum 25-hydroxyvitamin D concentration and optic chiasm volume. <i>Journal of the American Geriatrics Society</i> , 2013 , 61, 1026-8	5.6	11
67	Simultaneous in vivo pH and temperature mapping using a PARACEST-MRI contrast agent. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 1016-25	4.4	62
66	Reliability of Calf Bioelectrical Impedance Spectroscopy and Magnetic-Resonance-Imaging-Acquired Skeletal Muscle Hydration Measures in Healthy People. <i>Physiology Journal</i> , 2013 , 2013, 1-12		2
65	Vitamin D concentration and lateral cerebral ventricle volume in older adults 2013 , 57, 267		1
64	ParaCEST MRI contrast agents capable of derivatization via "click" chemistry. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 287-92	3.9	25
63	A novel MRI-compatible brain ventricle phantom for validation of segmentation and volumetry methods. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 476-82	5.6	11
62	DOTAM-type ligands possessing arginine pendant groups for use in PARACEST MRI. <i>Contrast Media and Molecular Imaging</i> , 2012 , 7, 441-9	3.2	9
61	Nutrient biomarker patterns, cognitive function, and MRI measures of brain aging. <i>Neurology</i> , 2012 , 78, 1281; author reply 1281-2	6.5	6
60	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> , 2012 , 27, 371-80	2.5	34
59	Proton magnetic resonance spectroscopy of the motor cortex in cervical myelopathy. <i>Brain</i> , 2012 , 135, 461-8	11.2	32

58	Association between ambulatory 24-hour blood pressure levels and brain volume reduction: a cross-sectional elderly population-based study. <i>Hypertension</i> , 2012 , 60, 1324-31	8.5	22
57	Reduced hippocampal glutamate in Alzheimer disease. <i>Neurobiology of Aging</i> , 2011 , 32, 802-10	5.6	105
56	In vivo detection of MRI-PARACEST agents in mouse brain tumors at 9.4 T. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 67-72	4.4	29
55	Mono- and Tetraalkyne Modified Ligands and Their Eu ³⁺ Complexes Utilizing Click Chemistry to Expand the Scope of Conjugation Chemistry. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 6532-6543	3.3	13
54	Efficient 3D rendering for web-based medical imaging software: a proof of concept 2011 ,		2
53	Elimination of the vesicular acetylcholine transporter in the striatum reveals regulation of behaviour by cholinergic-glutamatergic co-transmission. <i>PLoS Biology</i> , 2011 , 9, e1001194	9.7	74
52	Brain reorganization in patients with spinal cord compression evaluated using fMRI. <i>Neurology</i> , 2010 , 74, 1048-54	6.5	44
51	Increased glutamate in the hippocampus after galantamine treatment for Alzheimer disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2010 , 34, 104-10	5.5	44
50	A paramagnetic chemical exchange-based MRI probe metabolized by cathepsin D: design, synthesis and cellular uptake studies. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 2560-6	3.9	39
49	Changes in functional magnetic resonance imaging cortical activation after decompression of cervical spondylosis: case report. <i>Neurosurgery</i> , 2010 , 67, E863-4; discussion E864	3.2	22
48	Quantitative sodium MRI of the mouse prostate. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 822-7	4.4	7
47	In vivo detection of PARACEST agents with relaxation correction. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1184-92	4.4	19
46	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> , 2010 , 51, 1087-1090	2	9
45	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> , 2010 , 20, 5521-6	2.9	7
44	High-field MRSI of the prostate using a transmit/receive endorectal coil and gradient modulated adiabatic localization. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 335-43	5.6	15
43	Reduced power magnetic resonance spectroscopic imaging of the prostate at 4.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 273-81	4.4	9
42	Optimized MRI contrast for on-resonance proton exchange processes of PARACEST agents in biological systems. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 1282-91	4.4	7
41	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> , 2009 , 63, 754-61	6.2	222

40	Endothelin-1 induced MCAO: dose dependency of cerebral blood flow. <i>Journal of Neuroscience Methods</i> , 2009 , 179, 22-8	3	22
39	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> , 2009 , 34, 352-60	4.5	16
38	High field (1)H MRS of the hippocampus after donepezil treatment in Alzheimer disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2008 , 32, 786-93	5.5	35
37	A new synthesis of cystamine modified Eu ³⁺ DOTAM-Gly-Phe-OH: a conjugation ready temperature sensitive MRI contrast agent. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 3588-96	3.9	10
36	Low-grade glioma: correlation of short echo time 1H-MR spectroscopy with ²³ Na MR imaging. <i>American Journal of Neuroradiology</i> , 2008 , 29, 464-70	4.4	29
35	Ventricular enlargement as a possible measure of Alzheimer's disease progression validated using the Alzheimer's disease neuroimaging initiative database. <i>Brain</i> , 2008 , 131, 2443-54	11.2	289
34	A sensitive PARACEST contrast agent for temperature MRI: Eu ³⁺ -DOTAM-glycine (Gly)-phenylalanine (Phe). <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 374-81	4.4	102
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