

# Robert Bartha

## List of Publications by Year in descending order

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Version: 2024-02-01

185  
papers

7,463  
citations

66343

42  
h-index

71685

76  
g-index

204  
all docs

204  
docs citations

204  
times ranked

9972  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characteristics of the Ontario Neurodegenerative Disease Research Initiative cohort. <i>Alzheimer's and Dementia</i> , 2023, 19, 226-243.	0.8	15
2	Deep Bayesian networks for uncertainty estimation and adversarial resistance of white matter hyperintensity segmentation. <i>Human Brain Mapping</i> , 2022, 43, 2089-2108.	3.6	17
3	Effects of Memantine and High Dose Vitamin D on Gait in Male APP/PS1 Alzheimer's Disease Mice Following Vitamin D Deprivation. <i>Journal of Alzheimer's Disease</i> , 2022, 85, 1755-1766.	2.6	1
4	Brain pH Measurement Using AACID CEST MRI Incorporating the 2 ppm Amine Resonance. <i>Tomography</i> , 2022, 8, 730-739.	1.8	0
5	Investigating the contribution of white matter hyperintensities and cortical thickness to empathy in neurodegenerative and cerebrovascular diseases. <i>GeroScience</i> , 2022, 44, 1575-1598.	4.6	4
6	Small and Large Magnetic Resonance Imaging-Visible Perivascular Spaces in the Basal Ganglia of Parkinson's Disease Patients. <i>Movement Disorders</i> , 2022, 37, 1304-1309.	3.9	11
7	Increased brain volumetric measurement precision from multi-site 3D T1-weighted magnetic resonance imaging by correcting geometric distortions. <i>Magnetic Resonance Imaging</i> , 2022, 92, 150-160.	1.8	1
8	Advanced single voxel <sup>1</sup> H magnetic resonance spectroscopy techniques in humans: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4236.	2.8	98
9	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.	2.8	14
10	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.	2.6	7
11	Multisite Comparison of MRI Defacing Software Across Multiple Cohorts. <i>Frontiers in Psychiatry</i> , 2021, 12, 617997.	2.6	32
12	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.	5.2	31
13	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.	2.6	6
14	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.	4.6	19
15	Concussion Acutely Decreases Plasma Glycerophospholipids in Adolescent Male Athletes. <i>Journal of Neurotrauma</i> , 2021, 38, 1608-1614.	3.4	9
16	Spinal cord compression is associated with brain plasticity in degenerative cervical myelopathy. <i>Brain Communications</i> , 2021, 3, fcab131.	3.3	7
17	MRI-visible perivascular space volumes, sleep duration and daytime dysfunction in adults with cerebrovascular disease. <i>Sleep Medicine</i> , 2021, 83, 83-88.	1.6	11
18	Resting state fMRI scanner instabilities revealed by longitudinal phantom scans in a multi-center study. <i>NeuroImage</i> , 2021, 237, 118197.	4.2	5

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19	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.	2.0	6
20	Predicting Cognitive Impairment in Cerebrovascular Disease Using Spoken Discourse Production. <i>Topics in Language Disorders</i> , 2021, 41, 73-98.	1.0	5
21	Magnetic Resonance Imaging Sequence Identification Using a Metadata Learning Approach. <i>Frontiers in Neuroinformatics</i> , 2021, 15, 622951.	2.5	2
22	Putative Concussion Biomarkers Identified in Adolescent Male Athletes Using Targeted Plasma Proteomics. <i>Frontiers in Neurology</i> , 2021, 12, 787480.	2.4	3
23	Striatal Acetylcholine Helps to Preserve Functional Outcomes in a Mouse Model of Stroke. <i>ASN Neuro</i> , 2020, 12, 175909142096161.	2.7	5
24	Brain Metabolite Levels in Sedentary Women and Non-contact Athletes Differ From Contact Athletes. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 593498.	2.0	5
25	Ontario Neurodegenerative Disease Research Initiative (ONDRI): Structural MRI Methods and Outcome Measures. <i>Frontiers in Neurology</i> , 2020, 11, 847.	2.4	23
26	Cortical Thickness Estimation in Individuals With Cerebral Small Vessel Disease, Focal Atrophy, and Chronic Stroke Lesions. <i>Frontiers in Neuroscience</i> , 2020, 14, 598868.	2.8	18
27	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, 74, 747-757.	2.6	9
28	Longitudinal changes of brain microstructure and function in nonconcussed female rugby players. <i>Neurology</i> , 2020, 95, e402-e412.	1.1	20
29	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, 73, 1385-1405.	2.6	37
30	Glutamate and Dysconnection in the Salience Network: Neurochemical, Effective Connectivity, and Computational Evidence in Schizophrenia. <i>Biological Psychiatry</i> , 2020, 88, 273-281.	1.3	58
31	Neural effects of oxytocin and mimicry in frontotemporal dementia. <i>Neurology</i> , 2020, 95, e2635-e2647.	1.1	15
32	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, 74, 698-704.	3.6	35
33	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, 37, 595-601.	2.6	20
34	Brain tumor acidification using drugs simultaneously targeting multiple pH regulatory mechanisms. <i>Journal of Neuro-Oncology</i> , 2019, 144, 453-462.	2.9	17
35	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.	2.7	26
36	The Canadian Dementia Imaging Protocol: Harmonization validity for morphometry measurements. <i>NeuroImage: Clinical</i> , 2019, 24, 101943.	2.7	10

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37	Synergistic toxicity in an in vivo model of neurodegeneration through the co-expression of human TDP-43M337V and tauT175D protein. <i>Acta Neuropathologica Communications</i> , 2019, 7, 170.	5.2	9
38	Does the Neurological Examination Correlate with Patient-Perceived Outcomes in Degenerative Cervical Myelopathy?. <i>World Neurosurgery</i> , 2019, 132, e885-e890.	1.3	2
39	Reproducibility of Neurite Orientation Dispersion and Density Imaging (NODDI) in rats at 9.4 Tesla. <i>PLoS ONE</i> , 2019, 14, e0215974.	2.5	17
40	Differential effects of transcranial direct current stimulation on antiphase and inphase motor tasks: A pilot study. <i>Behavioural Brain Research</i> , 2019, 366, 13-18.	2.2	3
41	The Canadian Dementia Imaging Protocol: Harmonizing National Cohorts. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, spcone.	3.4	1
42	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 527-550.	3.0	280
43	Detection of Active Caspase-3 in Mouse Models of Stroke and Alzheimer's Disease with a Novel Dual Positron Emission Tomography/Fluorescent Tracer [ <sup>68</sup> Ga]Ga-TC3-OGDOTA. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-17.	0.8	17
44	Ventricular volume expansion in presymptomatic genetic frontotemporal dementia. <i>Neurology</i> , 2019, 93, e1699-e1706.	1.1	19
45	Comparison of quality control methods for automated diffusion tensor imaging analysis pipelines. <i>PLoS ONE</i> , 2019, 14, e0226715.	2.5	22
46	The Canadian Dementia Imaging Protocol: Harmonizing National Cohorts. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 456-465.	3.4	101
47	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.	2.7	19
48	Characterization of clinical human prostate cancer lesions using 3.0T sodium MRI registered to Gleason-graded whole-mount histopathology. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1409-1419.	3.4	8
49	Semiautomated Assessment of the Anterior Cingulate Cortex in Alzheimer's Disease. <i>Journal of Neuroimaging</i> , 2019, 29, 376-382.	2.0	7
50	MouseBytes, an open-access high-throughput pipeline and database for rodent touchscreen-based cognitive assessment. <i>ELife</i> , 2019, 8, .	6.0	38
51	A preliminary magnetic resonance spectroscopy study of postmenopausal hormone effects on the brain. <i>Minerva Ginecologica</i> , 2019, 71, 392-393.	0.8	0
52	The Dynamics of Impaired Blood-Brain Barrier Restoration in a Rat Model of Co-morbid Injury. <i>Molecular Neurobiology</i> , 2018, 55, 8071-8083.	4.0	14
53	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.	1.7	20
54	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.	2.6	7

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55	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.	3.6	24
56	Dichloroacetate induced intracellular acidification in glioblastoma: in vivo detection using AACID-CEST MRI at 9.4 Tesla. <i>Journal of Neuro-Oncology</i> , 2018, 136, 255-262.	2.9	30
57	P3379: BRAIN DIFFUSION TENSOR IMAGING METRICS IN ISCHEMIC LESIONS IN VASCULAR COGNITIVE IMPAIRMENT. <i>Alzheimer's and Dementia</i> , 2018, 14, P1238.	0.8	1
58	Optimized in vivo brain glutamate measurement using long echo time semi-LASER at 7 T. <i>NMR in Biomedicine</i> , 2018, 31, e4002.	2.8	24
59	<sup>1</sup> H MR spectroscopy of the motor cortex immediately following transcranial direct current stimulation at 7 Tesla. <i>PLoS ONE</i> , 2018, 13, e0198053.	2.5	15
60	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.	2.2	15
61	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.	1.7	4
62	Longitudinal Measurements of Intra- and Extracellular pH Gradient in a Rat Model of Glioma. <i>Tomography</i> , 2018, 4, 46-54.	1.8	14
63	Metabolite and functional profile of patients with cervical spondylotic myelopathy. <i>Journal of Neurosurgery: Spine</i> , 2017, 26, 547-553.	1.7	18
64	Association of Dual-Task Gait With Incident Dementia in Mild Cognitive Impairment. <i>JAMA Neurology</i> , 2017, 74, 857.	9.0	263
65	The Ontario Neurodegenerative Disease Research Initiative (ONDRI). <i>Canadian Journal of Neurological Sciences</i> , 2017, 44, 196-202.	0.5	72
66	Cervical Spondylotic Myelopathy: Metabolite Changes in the Primary Motor Cortex after Surgery. <i>Radiology</i> , 2017, 282, 817-825.	7.3	24
67	Multiparametric MRI changes persist beyond recovery in concussed adolescent hockey players. <i>Neurology</i> , 2017, 89, 2157-2166.	1.1	83
68	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.	2.6	54
69	Spontaneous low frequency BOLD signal variations from resting-state fMRI are decreased in Alzheimer disease. <i>PLoS ONE</i> , 2017, 12, e0178529.	2.5	19
70	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.	1.7	17
71	P1273: Neuronal Activity Derived From Resting State Functional MRI: A Potential Biomarker for Alzheimer's Disease. <i>Alzheimer's and Dementia</i> , 2016, 12, P521.	0.8	0
72	ICP121: Neuronal Activity Derived from Resting State Functional MRI: A Potential Biomarker for Alzheimer Disease. <i>Alzheimer's and Dementia</i> , 2016, 12, P90.	0.8	0

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73	Illness versus substance use effects on the frontal white matter in early phase schizophrenia: A 4 Tesla 1 H-MRS study. <i>Schizophrenia Research</i> , 2016, 175, 4-11.	2.0	7
74	Topiramate induces acute intracellular acidification in glioblastoma. <i>Journal of Neuro-Oncology</i> , 2016, 130, 465-472.	2.9	39
75	Metabolomics profiling of concussion in adolescent male hockey players: a novel diagnostic method. <i>Metabolomics</i> , 2016, 12, 1.	3.0	43
76	Preliminary evaluation of PARACEST MRI agents for the detection of nitric oxide synthase. <i>Canadian Journal of Chemistry</i> , 2016, 94, 715-722.	1.1	5
77	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, 1871-1878.	3.6	75
78	Anatomic Correlation of the Mini-Mental State Examination: A Voxel-Based Morphometric Study in Older Adults. <i>PLoS ONE</i> , 2016, 11, e0162889.	2.5	33
79	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.	1.7	12
80	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.	2.6	10
81	Use of Vitamin K Antagonists and Brain Volumetry in Older Adults: Preliminary Results From the <sc>GAIT</sc> Study. <i>Journal of the American Geriatrics Society</i> , 2015, 63, 2199-2202.	2.6	8
82	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.	1.5	3
83	Unshielded asymmetric transmit-only and endorectal receive-only radiofrequency coil for <sup>23</sup> Na MRI of the prostate at 3 tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 436-445.	3.4	7
84	Semi-LASER <sup>1</sup> 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.	3.0	34
85	Vitamin D-related changes in intracranial volume in older adults: A quantitative neuroimaging study. <i>Maturitas</i> , 2015, 80, 312-317.	2.4	23
86	Vitamin D and white matter abnormalities in older adults: A quantitative volumetric analysis of brain MRI. <i>Experimental Gerontology</i> , 2015, 63, 41-47.	2.8	33
87	Memantine Plus Vitamin D Prevents Axonal Degeneration Caused by Lysed Blood. <i>ACS Chemical Neuroscience</i> , 2015, 6, 393-397.	3.5	10
88	Functional MRI of neuronal activation in epilepsy patients with malformations of cortical development. <i>Epilepsy Research</i> , 2015, 116, 1-7.	1.6	11
89	Imaging chemical exchange saturation transfer (CEST) effects following tumor-selective acidification using Iodamine. <i>NMR in Biomedicine</i> , 2015, 28, 566-575.	2.8	32
90	Introduction of Peripheral Carboxylates to Decrease the Charge on Tm <sup>3+</sup> DOTAM-Alkyl Complexes: Implications for Detection Sensitivity and in Vivo Toxicity of PARACEST MRI Contrast Agents. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 6516-6532.	6.4	7

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91	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.	1.1	2
92	Vitamin D and Caudal Primary Motor Cortex: A Magnetic Resonance Spectroscopy Study. <i>PLoS ONE</i> , 2014, 9, e87314.	2.5	20
93	Advances in High-Field Magnetic Resonance Spectroscopy in Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2014, 11, 367-388.	1.4	29
94	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, 690-698.	4.3	137
95	Association between gait variability and brain ventricle attributes: a brain mapping study. <i>Experimental Gerontology</i> , 2014, 57, 256-263.	2.8	35
96	Higher Gait Variability is Associated with Decreased Parietal Gray Matter Volume Among Healthy Older Adults. <i>Brain Topography</i> , 2014, 27, 293-295.	1.8	44
97	MRI ParaCEST agents that improve amide based pH measurements by limiting inner sphere water T <sub>2</sub> exchange. <i>RSC Advances</i> , 2014, 4, 1666-1674.	3.6	10
98	Vitamin D and brain volumetric changes: Systematic review and meta-analysis. <i>Maturitas</i> , 2014, 78, 30-39.	2.4	49
99	NPAS3 variants in schizophrenia: a neuroimaging study. <i>BMC Medical Genetics</i> , 2014, 15, 37.	2.1	1
100	Clinical Proton MR Spectroscopy in Central Nervous System Disorders. <i>Radiology</i> , 2014, 270, 658-679.	7.3	524
101	Combination of memantine and vitamin D prevents axon degeneration induced by amyloid-beta and glutamate. <i>Neurobiology of Aging</i> , 2014, 35, 331-335.	3.1	53
102	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, 104-112.	1.8	91
103	Comorbid A $\beta$ toxicity and stroke: hippocampal atrophy, pathology, and cognitive deficit. <i>Neurobiology of Aging</i> , 2014, 35, 1605-1614.	3.1	44
104	Automated algorithm to measure changes in medial temporal lobe volume in Alzheimer disease. <i>Journal of Neuroscience Methods</i> , 2014, 227, 35-46.	2.5	14
105	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.	1.4	5
106	Thalamic cramp-like pain. <i>Journal of the Neurological Sciences</i> , 2014, 336, 269-272.	0.6	6
107	Metastatic brain cancer: prediction of response to whole-brain helical tomotherapy with simultaneous intralesional boost for metastatic disease using quantitative MR imaging features. , 2014, , .		0
108	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.	5.8	19

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109	Motor cortex and gait in mild cognitive impairment: a magnetic resonance spectroscopy and volumetric imaging study. <i>Brain</i> , 2013, 136, 859-871.	7.6	86
110	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.	2.6	8
111	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, 3594-3607.	0.5	86
112	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, 14908-14920.	3.6	56
113	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, 289-292.	0.8	14
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> , 2013, 5, S3.	6.2	23
115	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.	6.2	16
116	Click chemistry toward bis(DOTA-derived) heterometallic complexes: potential bimodal MRI/PET(SPECT) molecular imaging probes. <i>RSC Advances</i> , 2013, 3, 3249.	3.6	17
117	A dual magnetic resonance imaging/fluorescent contrast agent for Cathepsin D detection. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 127-139.	0.8	15
118	Vitamin D concentration and lateral cerebral ventricle volume in older adults. <i>Molecular Nutrition and Food Research</i> , 2013, 57, 267-276.	3.3	63
119	Slow gait in MCI is associated with ventricular enlargement: results from the Gait and Brain Study. <i>Journal of Neural Transmission</i> , 2013, 120, 1083-1092.	2.8	30
120	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.	1.1	8
121	Blood pressure levels and brain volume reduction. <i>Journal of Hypertension</i> , 2013, 31, 1502-1516.	0.5	143
122	Association Between Serum 25-Hydroxyvitamin D Concentration and Optic Chiasm Volume. <i>Journal of the American Geriatrics Society</i> , 2013, 61, 1026-1028.	2.6	14
123	Simultaneous in vivo pH and temperature mapping using a PARACEST-MRI contrast agent. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1016-1025.	3.0	66
124	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.	0.4	2
125	Vitamin D concentration and lateral cerebral ventricle volume in older adults. , 2013, 57, 267.		1
126	Nutrient Biomarker Patterns, Cognitive Function, and Mri Measures of Brain Aging. <i>Neurology</i> , 2012, 78, 1281-1282.	1.1	7



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127	Contribution of Brain Imaging to the Understanding Of Gait Disorders in Alzheimer's Disease. American Journal of Alzheimer's Disease and Other Dementias, 2012, 27, 371-380.	1.9	47
128	Proton magnetic resonance spectroscopy of the motor cortex in cervical myelopathy. Brain, 2012, 135, 461-468.	7.6	39
129	Association Between Ambulatory 24-Hour Blood Pressure Levels and Brain Volume Reduction. Hypertension, 2012, 60, 1324-1331.	2.7	27
130	ParaCEST MRI contrast agents capable of derivatization via click chemistry. Organic and Biomolecular Chemistry, 2012, 10, 287-292.	2.8	26
131	A novel MRI-compatible brain ventricle phantom for validation of segmentation and volumetry methods. Journal of Magnetic Resonance Imaging, 2012, 36, 476-482.	3.4	11
132	DOTAM-type ligands possessing arginine pendant groups for use in PARACEST MRI. Contrast Media and Molecular Imaging, 2012, 7, 441-449.	0.8	10
133	Reduced hippocampal glutamate in Alzheimer disease. Neurobiology of Aging, 2011, 32, 802-810.	3.1	137
134	In vivo detection of MRI-PARACEST agents in mouse brain tumors at 9.4 T. Magnetic Resonance in Medicine, 2011, 66, 67-72.	3.0	30
135	Mono- and Tetraalkyne Modified Ligands and Their Eu <sup>3+</sup> Complexes Utilizing Click Chemistry to Expand the Scope of Conjugation Chemistry. European Journal of Organic Chemistry, 2011, 2011, 6532-6543.	2.4	13
136	Efficient 3D rendering for web-based medical imaging software: a proof of concept. Proceedings of SPIE, 2011, , .	0.8	3
137	Elimination of the Vesicular Acetylcholine Transporter in the Striatum Reveals Regulation of Behaviour by Cholinergic-Glutamatergic Co-Transmission. PLoS Biology, 2011, 9, e1001194.	5.6	80
138	Changes in Functional Magnetic Resonance Imaging Cortical Activation After Decompression of Cervical Spondylosis. Neurosurgery, 2010, 67, E863-E864.	1.1	25
139	Quantitative sodium MRI of the mouse prostate. Magnetic Resonance in Medicine, 2010, 63, 822-827.	3.0	8
140	In vivo detection of PARACEST agents with relaxation correction. Magnetic Resonance in Medicine, 2010, 63, 1184-1192.	3.0	20
141	A bifunctional chelator featuring the DOTAM-Gly-I-Phe-OH structural subunit: en route toward homo- and heterobimetallic lanthanide(III) complexes as PARACEST MRI contrast agents. Tetrahedron Letters, 2010, 51, 1087-1090.	1.4	11
142	Synthesis of MRI contrast agents derived from DOTAM-Gly-I-Phe-OH incorporating a disulfide bridge: Conjugation to a cell penetrating peptide and preparation of a dimeric agent. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5521-5526.	2.2	8
143	Brain reorganization in patients with spinal cord compression evaluated using fMRI. Neurology, 2010, 74, 1048-1054.	1.1	59
144	Detection of small human cerebral cortical lesions with MRI under different levels of Gaussian smoothing: applications in epilepsy. Proceedings of SPIE, 2010, , .	0.8	0

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145	Increased glutamate in the hippocampus after galantamine treatment for Alzheimer disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2010, 34, 104-110.	4.8	51
146	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.	2.8	43
147	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, 335-343.	3.4	16
148	Reduced power magnetic resonance spectroscopic imaging of the prostate at 4.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 273-281.	3.0	9
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