

# Vincent A Magnotta

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1743908/publications.pdf>

Version: 2024-02-01

256  
papers

13,707  
citations

18482

62  
h-index

27406

106  
g-index

269  
all docs

269  
docs citations

269  
times ranked

15320  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term Antipsychotic Treatment and Brain Volumes. Archives of General Psychiatry, 2011, 68, 128.	12.3	871
2	Widespread white matter microstructural differences in schizophrenia across 4322 individuals: results from the ENIGMA Schizophrenia DTI Working Group. Molecular Psychiatry, 2018, 23, 1261-1269.	7.9	522
3	Progressive Structural Brain Abnormalities and Their Relationship to Clinical Outcome. Archives of General Psychiatry, 2003, 60, 585.	12.3	501
4	Progressive Brain Change in Schizophrenia: A Prospective Longitudinal Study of First-Episode Schizophrenia. Biological Psychiatry, 2011, 70, 672-679.	1.3	320
5	Structural MR image processing using the brains2 toolbox. Computerized Medical Imaging and Graphics, 2002, 26, 251-264.	5.8	297
6	The Neurodevelopmental Impact of Childhood-onset Temporal Lobe Epilepsy on Brain Structure and Function. Epilepsia, 2002, 43, 1062-1071.	5.1	252
7	Improving Tissue Classification in MRI: A Three-Dimensional Multispectral Discriminant Analysis Method with Automated Training Class Selection. Journal of Computer Assisted Tomography, 1999, 23, 144-154.	0.9	232
8	Longitudinal change in regional brain volumes in prodromal Huntington disease. Journal of Neurology, Neurosurgery and Psychiatry, 2011, 82, 405-410.	1.9	220
9	Striatal and white matter predictors of estimated diagnosis for Huntington disease. Brain Research Bulletin, 2010, 82, 201-207.	3.0	214
10	Brain Structure in Preclinical Huntington's Disease. Biological Psychiatry, 2006, 59, 57-63.	1.3	208
11	Tumor perfusion studies using fast magnetic resonance imaging technique in advanced cervical cancer: A new noninvasive predictive assay. International Journal of Radiation Oncology Biology Physics, 1996, 36, 623-633.	0.8	202
12	Gyrification abnormalities in childhood- and adolescent-onset schizophrenia. Biological Psychiatry, 2003, 54, 418-426.	1.3	185
13	Insular cortex abnormalities in schizophrenia: a structural magnetic resonance imaging study of first-episode patients. Schizophrenia Research, 2000, 46, 35-43.	2.0	182
14	Phase I/II randomized trial of aerobic exercise in Parkinson disease in a community setting. Neurology, 2014, 83, 413-425.	1.1	180
15	Measurement of Brain Structures with Artificial Neural Networks: Two- and Three-dimensional Applications. Radiology, 1999, 211, 781-790.	7.3	177
16	The MCIC Collection: A Shared Repository of Multi-Modal, Multi-Site Brain Image Data from a Clinical Investigation of Schizophrenia. Neuroinformatics, 2013, 11, 367-388.	2.8	168
17	Registration and machine learning-based automated segmentation of subcortical and cerebellar brain structures. NeuroImage, 2008, 39, 238-247.	4.2	155
18	An MRI-Based Parcellation Method for the Temporal Lobe. NeuroImage, 2000, 11, 271-288.	4.2	154

#	ARTICLE	IF	CITATIONS
19	Reducing inter-scanner variability of activation in a multicenter fMRI study: Role of smoothness equalization. <i>NeuroImage</i> , 2006, 32, 1656-1668.	4.2	148
20	Reduced cerebellar volume and neurological soft signs in first-episode schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2005, 140, 239-250.	1.8	145
21	A new method for the in vivo volumetric measurement of the human hippocampus with high neuroanatomical accuracy. <i>Hippocampus</i> , 2000, 10, 752-758.	1.9	144
22	Pixel analysis of MR perfusion imaging in predicting radiation therapy outcome in cervical cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 12, 1027-1033.	3.4	143
23	Cerebral cortex structure in prodromal Huntington disease. <i>Neurobiology of Disease</i> , 2010, 40, 544-554.	4.4	142
24	Measurement of Signal-to-Noise and Contrast-to-Noise in the fBIRN Multicenter Imaging Study. <i>Journal of Digital Imaging</i> , 2006, 19, 140-147.	2.9	140
25	Early Change in Ferumoxytol-Enhanced Magnetic Resonance Imaging Signal Suggests Unstable Human Cerebral Aneurysm. <i>Stroke</i> , 2012, 43, 3258-3265.	2.0	138
26	Anatomic and Functional Variability: The Effects of Filter Size in Group fMRI Data Analysis. <i>NeuroImage</i> , 2001, 13, 577-588.	4.2	136
27	White Matter Abnormalities in Veterans With Mild Traumatic Brain Injury. <i>American Journal of Psychiatry</i> , 2012, 169, 1284-1291.	7.2	136
28	Detecting activity-evoked pH changes in human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8270-8273.	7.1	134
29	Abnormal Brain Structure in Children With Isolated Clefts of the Lip or Palate. <i>JAMA Pediatrics</i> , 2007, 161, 753.	3.0	133
30	Effects of olanzapine on cerebellar functional connectivity in schizophrenia measured by fMRI during a simple motor task. <i>Psychological Medicine</i> , 2001, 31, 1065-1078.	4.5	130
31	Human Frontal Cortex: An MRI-Based Parcellation Method. <i>NeuroImage</i> , 1999, 10, 500-519.	4.2	122
32	Regional frontal abnormalities in schizophrenia: a quantitative gray matter volume and cortical surface size study. <i>Biological Psychiatry</i> , 2000, 48, 110-119.	1.3	121
33	Smaller intracranial volume in prodromal Huntington's disease: evidence for abnormal neurodevelopment. <i>Brain</i> , 2011, 134, 137-142.	7.6	118
34	Voxel-based Morphometric Multisite Collaborative Study on Schizophrenia. <i>Schizophrenia Bulletin</i> , 2009, 35, 82-95.	4.3	117
35	Proton echo-planar spectroscopic imaging of coupled resonances in human brain at 3 and 4 Tesla. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 236-244.	3.0	115
36	Evidence That Acetylsalicylic Acid Attenuates Inflammation in the Walls of Human Cerebral Aneurysms: Preliminary Results. <i>Journal of the American Heart Association</i> , 2013, 2, e000019.	3.7	115

#	ARTICLE	IF	CITATIONS
37	Multi-shot sensitivity-encoded diffusion data recovery using structured low-rank matrix completion (MUSSELS). <i>Magnetic Resonance in Medicine</i> , 2017, 78, 494-507.	3.0	115
38	Global White Matter Abnormalities in Schizophrenia: A Multisite Diffusion Tensor Imaging Study. <i>Schizophrenia Bulletin</i> , 2011, 37, 222-232.	4.3	113
39	Long-term Outcome of Brain Structure in Premature Infants. <i>JAMA Pediatrics</i> , 2011, 165, 443-50.	3.0	106
40	Usefulness of tumor volumetry by magnetic resonance imaging in assessing response to radiation therapy in carcinoma of the uterine cervix. <i>International Journal of Radiation Oncology Biology Physics</i> , 1996, 35, 915-924.	0.8	105
41	Hippocampal Volume and Mood Disorders After Traumatic Brain Injury. <i>Biological Psychiatry</i> , 2007, 62, 332-338.	1.3	104
42	Macrophage Imaging Within Human Cerebral Aneurysms Wall Using Ferumoxytol-Enhanced MRI: A Pilot Study. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1032-1038.	2.4	98
43	Hippocampal volume and 2-year outcome in depression. <i>British Journal of Psychiatry</i> , 2008, 192, 472-473.	2.8	97
44	Tumor size evaluated by pelvic examination compared with 3-D MR quantitative analysis in the prediction of outcome for cervical cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 1997, 39, 395-404.	0.8	95
45	MR microcirculation assessment in cervical cancer: Correlations with histomorphological tumor markers and clinical outcome. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 10, 267-276.	3.4	93
46	Predicting Control of Primary Tumor and Survival by DCE MRI During Early Therapy in Cervical Cancer. <i>Investigative Radiology</i> , 2009, 44, 343-350.	6.2	91
47	A Review of Challenges in the Use of fMRI for Disease Classification / Characterization and A Projection Pursuit Application from A Multi-site fMRI Schizophrenia Study. <i>Brain Imaging and Behavior</i> , 2008, 2, 207-226.	2.1	89
48	The Acute Effects of Aerobic Exercise on the Functional Connectivity of Human Brain Networks. <i>Brain Plasticity</i> , 2017, 2, 171-190.	3.5	88
49	Extratemporal quantitative MR volumetrics and neuropsychological status in temporal lobe epilepsy. <i>Journal of the International Neuropsychological Society</i> , 2003, 9, 353-362.	1.8	85
50	Hippocampal volume in chronic posttraumatic stress disorder (PTSD): MRI study using two different evaluation methods. <i>Journal of Affective Disorders</i> , 2006, 94, 121-126.	4.1	84
51	Morphology of the ventral frontal cortex in schizophrenia: relationship with social dysfunction. <i>Biological Psychiatry</i> , 2002, 52, 1-8.	1.3	78
52	Morphology of the Cerebral Cortex in Preclinical Huntington's Disease. <i>American Journal of Psychiatry</i> , 2007, 164, 1428-1434.	7.2	78
53	IA-FEMesh: An open-source, interactive, multiblock approach to anatomic finite element model development. <i>Computer Methods and Programs in Biomedicine</i> , 2009, 94, 96-107.	4.7	78
54	MultiCenter Reliability of Diffusion Tensor Imaging. <i>Brain Connectivity</i> , 2012, 2, 345-355.	1.7	77

#	ARTICLE	IF	CITATIONS
55	Fully automated analysis using BRAINS: AutoWorkup. <i>NeuroImage</i> , 2011, 54, 328-336.	4.2	76
56	Prediction of tumor control in patients with cervical cancer: analysis of combined volume and dynamic enhancement pattern by MR imaging. <i>American Journal of Roentgenology</i> , 1998, 170, 177-182.	2.2	74
57	Global and regional cortical thinning in first-episode psychosis patients: relationships with clinical and cognitive features. <i>Psychological Medicine</i> , 2011, 41, 1449-1460.	4.5	72
58	Abnormal brain development in child and adolescent carriers of mutant huntingtin. <i>Neurology</i> , 2019, 93, e1021-e1030.	1.1	72
59	Manual and Semiautomated Measurement of Cerebellar Subregions on MR Images. <i>NeuroImage</i> , 2002, 17, 61-76.	4.2	70
60	Marijuana alters the human cerebellar clock. <i>NeuroReport</i> , 2003, 14, 1145-1151.	1.2	70
61	Altered white matter microstructural organization in posttraumatic stress disorder across 3047 adults: results from the PGC-ENIGMA PTSD consortium. <i>Molecular Psychiatry</i> , 2021, 26, 4315-4330.	7.9	69
62	Hippocampal volume in first episode and recurrent depression. <i>Psychiatry Research - Neuroimaging</i> , 2009, 174, 62-66.	1.8	68
63	Cerebral cortex: a topographic segmentation method using magnetic resonance imaging. <i>Psychiatry Research - Neuroimaging</i> , 2000, 100, 97-126.	1.8	66
64	Reduced thalamic volume in first-episode non-affective psychosis: Correlations with clinical variables, symptomatology and cognitive functioning. <i>NeuroImage</i> , 2007, 35, 1613-1623.	4.2	66
65	Serial Therapy-Induced Changes in Tumor Shape in Cervical Cancer and Their Impact on Assessing Tumor Volume and Treatment Response. <i>American Journal of Roentgenology</i> , 2006, 187, 65-72.	2.2	64
66	Brain abnormalities in bipolar disorder detected by quantitative T1 $\rho$ mapping. <i>Molecular Psychiatry</i> , 2015, 20, 201-206.	7.9	61
67	Validating an image-based fNIRS approach with fMRI and a working memory task. <i>NeuroImage</i> , 2017, 147, 204-218.	4.2	61
68	Acute Exercise Effects Predict Training Change in Cognition and Connectivity. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 131-140.	0.4	61
69	Neurodevelopmental vulnerability of the corpus callosum to childhood onset localization-related epilepsy††Supported in part by NIH Grants NS R01-37738 and MO1-RR03186. <i>NeuroImage</i> , 2003, 18, 284-292. <sup>4.2</sup>	4.2	60
70	Peripheral inflammation during abnormal mood states in bipolar I disorder. <i>Journal of Affective Disorders</i> , 2015, 187, 172-178.	4.1	60
71	Selective reduction of the posterior superior vermis in men with chronic schizophrenia. <i>Schizophrenia Research</i> , 2002, 55, 61-67.	2.0	59
72	Regionally selective atrophy of subcortical structures in prodromal HD as revealed by statistical shape analysis. <i>Human Brain Mapping</i> , 2014, 35, 792-809.	3.6	58

#	ARTICLE	IF	CITATIONS
73	Manual and Automated Measurement of the Whole Thalamus and Mediodorsal Nucleus Using Magnetic Resonance Imaging. <i>NeuroImage</i> , 2002, 17, 631-642.	4.2	54
74	Evaluation of the GTRACT diffusion tensor tractography algorithm: A validation and reliability study. <i>NeuroImage</i> , 2006, 31, 1075-1085.	4.2	53
75	Metabolic Correlates of Antidepressant and Antipsychotic Response in Patients With Psychotic Depression Undergoing Electroconvulsive Therapy. <i>Journal of ECT</i> , 2007, 23, 265-273.	0.6	53
76	Visualization of Subthalamic Nuclei with Cortex Attenuated Inversion Recovery MR Imaging. <i>NeuroImage</i> , 2000, 11, 341-346.	4.2	52
77	Morphology of the lateral superior temporal gyrus in neuroleptic naïve patients with schizophrenia: relationship to symptoms. <i>Schizophrenia Research</i> , 2003, 60, 173-181.	2.0	52
78	From Finite Element Meshes to Clouds of Points: A Review of Methods for Generation of Computational Biomechanics Models for Patient-Specific Applications. <i>Annals of Biomedical Engineering</i> , 2016, 44, 3-15.	2.5	52
79	Cortical volume abnormalities in posttraumatic stress disorder: an ENIGMA-psychiatric genomics consortium PTSD workgroup mega-analysis. <i>Molecular Psychiatry</i> , 2021, 26, 4331-4343.	7.9	52
80	Hippocampal volume deficits and shape deformities in young biological relatives of schizophrenia probands. <i>NeuroImage</i> , 2010, 49, 3385-3393.	4.2	51
81	Imaging aspirin effect on macrophages in the wall of human cerebral aneurysms using ferumoxytol-enhanced MRI: Preliminary results. <i>Journal of Neuroradiology</i> , 2013, 40, 187-191.	1.1	50
82	Diffusion weighted imaging of prefrontal cortex in prodromal huntington's disease. <i>Human Brain Mapping</i> , 2014, 35, 1562-1573.	3.6	49
83	Validating a new methodology for optical probe design and image registration in fNIRS studies. <i>NeuroImage</i> , 2015, 106, 86-100.	4.2	48
84	Impaired sensory processing measured by functional MRI in Bipolar disorder manic and depressed mood states. <i>Brain Imaging and Behavior</i> , 2018, 12, 837-847.	2.1	47
85	Radiation-induced Changes in MR Signal Intensity and Contrast Enhancement of Lumbosacral Vertebrae: Do Changes Occur Only Inside the Radiation Therapy Field?. <i>Radiology</i> , 2002, 222, 179-183.	7.3	46
86	Magnetic resonance imaging correlates of set shifting. <i>Journal of the International Neuropsychological Society</i> , 2007, 13, 386-92.	1.8	46
87	Effects of smoking marijuana on focal attention and brain blood flow. <i>Human Psychopharmacology</i> , 2007, 22, 135-148.	1.5	46
88	Antipsychotic dose and diminished neural modulation: A multi-site fMRI study. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2011, 35, 473-482.	4.8	46
89	Accelerated whole-brain multi-parameter mapping using blind compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1175-1186.	3.0	46
90	Prefrontal cortex white matter tracts in prodromal Huntington disease. <i>Human Brain Mapping</i> , 2015, 36, 3717-3732.	3.6	45

#	ARTICLE	IF	CITATIONS
91	Acceleration of high angular and spatial resolution diffusion imaging using compressed sensing with multichannel spiral data. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 126-138.	3.0	45
92	Longitudinal diffusion changes in prodromal and early <sc>HD</sc>: Evidence of whiteâ€matter tract deterioration. <i>Human Brain Mapping</i> , 2017, 38, 1460-1477.	3.6	45
93	Brain structure in juvenile-onset Huntington disease. <i>Neurology</i> , 2019, 92, e1939-e1947.	1.1	45
94	Temporal pole morphology and psychopathology in males with schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2004, 132, 107-115.	1.8	43
95	Quantitative Measurement of Cortical Surface Features in Localization-Related Temporal Lobe Epilepsy.. <i>Neuropsychology</i> , 2004, 18, 729-737.	1.3	43
96	Investigating connectivity between the cerebellum and thalamus in schizophrenia using diffusion tensor tractography: A pilot study. <i>Psychiatry Research - Neuroimaging</i> , 2008, 163, 193-200.	1.8	43
97	3-Dimensional Magnetic Resonance Spectroscopic Imaging at 3ÂTesla for Early Response Assessment of Glioblastoma Patients During External Beam Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, 181-189.	0.8	43
98	Diffusion Tensor Imaging in Preclinical Huntingtonâ€™s Disease. <i>Brain Imaging and Behavior</i> , 2009, 3, 77-84.	2.1	41
99	Sexâ€specific effects of the Huntington gene on normal neurodevelopment. <i>Journal of Neuroscience Research</i> , 2017, 95, 398-408.	2.9	41
100	Abnormal development of cerebellar-striatal circuitry in Huntington disease. <i>Neurology</i> , 2020, 94, e1908-e1915.	1.1	41
101	Negative Symptoms in Temporal Lobe Epilepsy. <i>American Journal of Psychiatry</i> , 2002, 159, 644-651.	7.2	39
102	Multi-site characterization of an fMRI working memory paradigm: Reliability of activation indices. <i>NeuroImage</i> , 2010, 53, 119-131.	4.2	39
103	Altered brain function, structure, and developmental trajectory in children born late preterm. <i>Pediatric Research</i> , 2016, 80, 197-203.	2.3	39
104	Mapping effective connectivity in the human brain with concurrent intracranial electrical stimulation and BOLD-fMRI. <i>Journal of Neuroscience Methods</i> , 2017, 277, 101-112.	2.5	39
105	Whole-Brain Connectivity in a Large Study of Huntington's Disease Gene Mutation Carriers and Healthy Controls. <i>Brain Connectivity</i> , 2018, 8, 166-178.	1.7	39
106	Efficient parallel reconstruction for high resolution multishot spiral diffusion data with low rank constraint. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1359-1366.	3.0	37
107	Globus pallidus volume is related to symptom severity in neuroleptic naive patients with schizophrenia. <i>Schizophrenia Research</i> , 2005, 73, 229-233.	2.0	36
108	Spatial Characteristics of White Matter Abnormalities in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2013, 39, 1077-1086.	4.3	36

#	ARTICLE	IF	CITATIONS
109	Reliability and reproducibility of brain tissue volumetry from segmented MR scans. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2001, 251, 255-261.	3.2	35
110	The power-proportion method for intracranial volume correction in volumetric imaging analysis. <i>Frontiers in Neuroscience</i> , 2014, 8, 356.	2.8	35
111	Effect of Trinucleotide Repeats in the Huntington's Gene on Intelligence. <i>EBioMedicine</i> , 2018, 31, 47-53.	6.1	34
112	Subcortical, cerebellar, and magnetic resonance based consistent brain image registration. <i>NeuroImage</i> , 2003, 19, 233-245.	4.2	33
113	Alterations of the cerebellum and basal ganglia in bipolar disorder mood states detected by quantitative T1 $\rho$ -mapping. <i>Bipolar Disorders</i> , 2018, 20, 381-390.	1.9	33
114	Putting race in context: social class modulates processing of race in the ventromedial prefrontal cortex and amygdala. <i>Social Cognitive and Affective Neuroscience</i> , 2017, 12, 1314-1324.	3.0	32
115	Validation of phalanx bone three-dimensional surface segmentation from computed tomography images using laser scanning. <i>Skeletal Radiology</i> , 2007, 37, 35-42.	2.0	31
116	Toward fully automated processing of dynamic susceptibility contrast perfusion MRI for acute ischemic cerebral stroke. <i>Computer Methods and Programs in Biomedicine</i> , 2010, 98, 204-213.	4.7	31
117	Effects of age on white matter integrity and negative symptoms in schizophrenia. <i>Schizophrenia Research</i> , 2015, 161, 29-35.	2.0	31
118	Life events and hippocampal volume in first-episode major depression. <i>Journal of Affective Disorders</i> , 2008, 110, 241-247.	4.1	30
119	Associations of White Matter Integrity and Cortical Thickness in Patients With Schizophrenia and Healthy Controls. <i>Schizophrenia Bulletin</i> , 2014, 40, 665-674.	4.3	30
120	Disruption of response inhibition circuits in prodromal Huntington disease. <i>Cortex</i> , 2014, 58, 72-85.	2.4	30
121	Frontal hypometabolism in elderly breast cancer survivors determined by [ <sup>18</sup> F]fluorodeoxyglucose (FDG) positron emission tomography (PET): a pilot study. <i>International Journal of Geriatric Psychiatry</i> , 2015, 30, 587-594.	2.7	30
122	Are Anesthesia and Surgery during Infancy Associated with Decreased White Matter Integrity and Volume during Childhood?. <i>Anesthesiology</i> , 2017, 127, 788-799.	2.5	30
123	Age and Regional Cerebral Blood Flow in Schizophrenia. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2002, 14, 19-24.	1.8	29
124	Long-Term Neuropsychological, Neuroanatomical, and Life Outcome in Hippocampal Amnesia. <i>Clinical Neuropsychologist</i> , 2012, 26, 335-369.	2.3	29
125	A Controlled Quantitative MRI Volumetric Investigation of Hippocampal Contributions to Immediate and Delayed Memory Performance. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2003, 25, 1117-1127.	1.3	28
126	Automated hexahedral meshing of anatomic structures using deformable registration. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 35-43.	1.6	28



#	ARTICLE	IF	CITATIONS
127	Echo-planar FLAIR imaging in evaluation of intracranial lesions.. Radiographics, 1996, 16, 575-584.	3.3	27
128	Cigarette smoking and white matter microstructure in schizophrenia. Psychiatry Research - Neuroimaging, 2012, 201, 152-158.	1.8	27
129	Myelination-related genes are associated with decreased white matter integrity in schizophrenia. European Journal of Human Genetics, 2016, 24, 381-386.	2.8	27
130	Sex-specific alterations in preterm brain. Pediatric Research, 2019, 85, 55-62.	2.3	27
131	Morphometry of the Superior Temporal Plane In Schizophrenia: Relationship to Clinical Correlates. Journal of Neuropsychiatry and Clinical Neurosciences, 2004, 16, 284-294.	1.8	26
132	Donepezil Effects on Cerebral Blood Flow in Older Adults With Mild Cognitive Deficits. Journal of Neuropsychiatry and Clinical Neurosciences, 2006, 18, 178-185.	1.8	26
133	Peripheral nerve stimulation in a whole-body echo-planar imaging system. Journal of Magnetic Resonance Imaging, 1997, 7, 405-409.	3.4	25
134	Assessment of brain age in posttraumatic stress disorder: Findings from the ENIGMA PTSD and brain age working groups. Brain and Behavior, 2022, 12, e2413.	2.2	25
135	MR imaging-based volumetry in patients with early-treated phenylketonuria. American Journal of Neuroradiology, 2005, 26, 1681-5.	2.4	24
136	The Emerging Role of Ferumoxytol-Enhanced MRI in the Management of Cerebrovascular Lesions. Molecules, 2013, 18, 9670-9683.	3.8	23
137	Brain Structural Features of Myotonic Dystrophy Type 1 and their Relationship with CTG Repeats. Journal of Neuromuscular Diseases, 2019, 6, 321-332.	2.6	23
138	MRI Tissue Classification Using High-Resolution Bayesian Hidden Markov Normal Mixture Models. Journal of the American Statistical Association, 2012, 107, 102-119.	3.1	21
139	The Relationship Between Brain Structure and Cognition in Transfused Preterm Children at School Age. Developmental Neuropsychology, 2014, 39, 226-232.	1.4	21
140	Stable Atlas-based Mapped Prior (STAMP) machine-learning segmentation for multicenter large-scale MRI data. Magnetic Resonance Imaging, 2014, 32, 832-844.	1.8	21
141	Semi-automated Phalanx Bone Segmentation Using the Expectation Maximization Algorithm. Journal of Digital Imaging, 2009, 22, 483-491.	2.9	20
142	Global Cerebral Blood Flow in Relation to Cognitive Performance and Reserve in Subjects with Mild Memory Deficits. Molecular Imaging and Biology, 2006, 8, 363-372.	2.6	19
143	Sex-specific variation of MRI-based cortical morphometry in adult healthy volunteers: The effect on cognitive functioning. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2011, 35, 616-623.	4.8	19
144	Functional T1w Imaging in Panic Disorder. Biological Psychiatry, 2014, 75, 884-891.	1.3	19

#	ARTICLE	IF	CITATIONS
145	Precision-guided sampling schedules for efficient T1-weighted mapping. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 242-250.	3.4	19
146	Improved MUSSELS reconstruction for high-resolution multi-shot diffusion weighted imaging. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2253-2263.	3.0	19
147	qModel: A plug-and-play model-based reconstruction for highly accelerated multi-shot diffusion MRI using learned priors. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 835-851.	3.0	19
148	Molecular Imaging of Cerebrovascular Lesions. <i>Translational Stroke Research</i> , 2014, 5, 260-268.	4.2	18
149	Neural Sensitivity to Absolute and Relative Anticipated Reward in Adolescents. <i>PLoS ONE</i> , 2013, 8, e58708.	2.5	18
150	Manual and automated measurement of the whole thalamus and mediodorsal nucleus using magnetic resonance imaging. <i>NeuroImage</i> , 2002, 17, 631-42.	4.2	18
151	Inter- and intraoperator reliability of brain tissue measures using magnetic resonance imaging. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2003, 253, 301-306.	3.2	17
152	Quantitative T1-weighted mapping links the cerebellum and lithium use in bipolar disorder. <i>Molecular Psychiatry</i> , 2015, 20, 149-149.	7.9	17
153	Cystitis-induced bladder pain is Toll-like receptor 4 dependent in a transgenic autoimmune cystitis murine model: a MAPP Research Network animal study. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, F90-F98.	2.7	17
154	A pilot to assess target engagement of terazosin in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2022, 94, 79-83.	2.2	17
155	Automated bony region identification using artificial neural networks: reliability and validation measurements. <i>Skeletal Radiology</i> , 2008, 37, 313-319.	2.0	16
156	Abnormal Cerebellar Structure Is Dependent on Phenotype of Isolated Cleft of the Lip and/or Palate. <i>Cerebellum</i> , 2013, 12, 236-244.	2.5	16
157	T1-weighted imaging in premanifest Huntington disease reveals changes associated with disease progression. <i>Movement Disorders</i> , 2015, 30, 1107-1114.	3.9	16
158	Increased contrast enhancement of the parent vessel of unruptured intracranial aneurysms in 7T MR imaging. <i>Journal of NeuroInterventional Surgery</i> , 2020, 12, 1018-1022.	3.3	16
159	The functional brain networks that underlie visual working memory in the first two years of life. <i>NeuroImage</i> , 2020, 219, 116971.	4.2	16
160	Semiautomated 3D mapping of aneurysmal wall enhancement with 7T-MRI. <i>Scientific Reports</i> , 2021, 11, 18344.	3.3	16
161	Modulating perceptual complexity and load reveals degradation of the visual working memory network in ageing. <i>NeuroImage</i> , 2017, 157, 464-475.	4.2	15
162	Detection of microbleeds associated with sentinel headache using MRI quantitative susceptibility mapping: pilot study. <i>Journal of Neurosurgery</i> , 2019, 130, 1391-1397.	1.6	15

#	ARTICLE	IF	CITATIONS
163	Processing pipeline for image reconstructed fNIRS analysis using both MRI templates and individual anatomy. <i>Neurophotonics</i> , 2021, 8, 025010.	3.3	15
164	SMS MUSSELS: A navigator-free reconstruction for simultaneous multi-slice accelerated multi-shot diffusion weighted imaging. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 154-169.	3.0	14
165	Magnetic resonance imaging (MRI) of pharmacological ascorbate-induced iron redox state as a biomarker in subjects undergoing radio-chemotherapy. <i>Redox Biology</i> , 2021, 38, 101804.	9.0	14
166	Measurement of in vivo spinal cord displacement and strain fields of healthy and myelopathic cervical spinal cord. <i>Journal of Neurosurgery: Spine</i> , 2019, 31, 53-59.	1.7	14
167	Usefulness of tumor volumetry by magnetic resonance (MR) imaging in assessing response to radiation therapy in carcinoma of the uterine cervix. <i>International Journal of Radiation Oncology Biology Physics</i> , 1995, 32, 175.	0.8	13
168	Color Enhancement of Multispectral MR Images: Improving the Visualization of Subcortical Structures. <i>Journal of Computer Assisted Tomography</i> , 2001, 25, 942-949.	0.9	13
169	Automated parcellation of the brain surface generated from magnetic resonance images. <i>Frontiers in Neuroinformatics</i> , 2013, 7, 23.	2.5	13
170	Response control networks are selectively modulated by attention to rare events and memory load regardless of the need for inhibition. <i>NeuroImage</i> , 2015, 120, 331-344.	4.2	13
171	EM Segmentation of the Distal Femur and Proximal Tibia: A High-Throughput Approach to Anatomic Surface Generation. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1555-1562.	2.5	12
172	Fast iterative algorithm for the reconstruction of multishot non-cartesian diffusion data. <i>Magnetic Resonance in Medicine</i> , 2015, 74, 1086-1094.	3.0	12
173	Cardiorespiratory fitness and hippocampal volume predict faster episodic associative learning in older adults. <i>Hippocampus</i> , 2020, 30, 143-155.	1.9	12
174	Eccentricity Mapping of the Human Visual Cortex to Evaluate Temporal Dynamics of Functional Mapping. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1213-1219.	4.3	11
175	Comprehensive reconstruction of multi-shot multi-channel diffusion data using musseles. , 2016, 2016, 1107-1110.		11
176	Recovery of Damped Exponentials Using Structured Low Rank Matrix Completion. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 2087-2098.	8.9	11
177	Long-term outcome of brain structure in female preterm infants: possible associations of liberal versus restrictive red blood cell transfusions. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2021, 34, 3292-3299.	1.5	11
178	Natural bladder filling alters resting brain function at multiple spatial scales: a proof-of-concept MAPP Network Neuroimaging Study. <i>Scientific Reports</i> , 2020, 10, 19901.	3.3	11
179	Can combined volume and perfusion analysis improve the prediction of tumor control in cervical cancer?. <i>International Journal of Radiation Oncology Biology Physics</i> , 1996, 36, 323.	0.8	10
180	Characterizing white matter health and organization in atherosclerotic vascular disease: A diffusion tensor imaging study. <i>Psychiatry Research - Neuroimaging</i> , 2013, 214, 389-394.	1.8	10

#	ARTICLE	IF	CITATIONS
181	White matter fractional anisotropy is inversely related to anxious symptoms in older adults with atherosclerosis. <i>International Journal of Geriatric Psychiatry</i> , 2013, 28, 1069-1076.	2.7	10
182	R1 $\rho$ -sensitivity to pH and other compounds at clinically accessible spin-echo fields in the presence of proteins. <i>NMR in Biomedicine</i> , 2020, 33, e4217.	2.8	10
183	Proton Magnetic Resonance Spectroscopy in adult cancer patients with delirium. <i>Psychiatry Research - Neuroimaging</i> , 2011, 191, 128-132.	1.8	9
184	Relationship altered between functional T1 $\rho$ and BOLD signals in bipolar disorder. <i>Brain and Behavior</i> , 2017, 7, e00802.	2.2	9
185	A general algorithm for compensation of trajectory errors: Application to radial imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1605-1613.	3.0	9
186	New Applications of the Verdict Library for Standardized Mesh Verification Pre, Post, and End-to-End Processing. , 2008, , 535-552.		9
187	Assessment of Blood Flow in Solid Tumors Using PET. <i>Molecular Imaging and Biology</i> , 1998, 1, 117-121.	0.3	8
188	Evaluation of activity-dependent functional pH and T1 $\rho$ -response in the visual cortex. <i>NeuroImage</i> , 2014, 95, 336-343.	4.2	8
189	Three-dimensional GRE T <sub>1</sub> mapping of the brain using tailored variable flip-angle scheduling. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1235-1249.	3.0	8
190	Distinct patterns of altered quantitative T1 $\rho$ and functional BOLD response associated with history of suicide attempts in bipolar disorder. <i>Brain Imaging and Behavior</i> , 2021, , 1.	2.1	8
191	Metabolic abnormalities in the basal ganglia and cerebellum in bipolar disorder: A multi-modal MR study. <i>Journal of Affective Disorders</i> , 2022, 301, 390-399.	4.1	8
192	Compliance with medication but not structural MRI measures predict functional outcome in first-episode schizophrenia patients. <i>Schizophrenia Research</i> , 2007, 90, 355-356.	2.0	7
193	Toward the Development of Virtual Surgical Tools to Aid Orthopaedic FE Analyses. <i>Eurasip Journal on Advances in Signal Processing</i> , 2009, 2010, 1902931-1902937.	1.7	7
194	The LURN Research Network Neuroimaging and Sensory Testing (NIST) Study: Design, protocols, and operations. <i>Contemporary Clinical Trials</i> , 2018, 74, 76-87.	1.8	7
195	Preliminary evaluation of pre-speech and neurodevelopmental measures in 7-11-week-old infants with isolated oral clefts. <i>Pediatric Research</i> , 2021, 89, 85-90.	2.3	7
196	An Analytical Framework for Quadrilateral Surface Mesh Improvement with an Underlying Triangulated Surface Definition. , 2010, , 85-102.		7
197	Electromyographic study of postural adaptation during mandibular advancement. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 35-37.	1.6	6
198	Surgically oriented measurements for three-dimensional characterization of tunnel placement in anterior cruciate ligament reconstruction. <i>Computer Aided Surgery</i> , 2012, 17, 221-231.	1.8	6

#	ARTICLE	IF	CITATIONS
199	Rapid acquisition strategy for functional T1 $\rho$ -mapping of the brain. <i>Magnetic Resonance Imaging</i> , 2014, 32, 1067-1077.	1.8	6
200	Depressive symptoms related to low fractional anisotropy of white matter underlying the right ventral anterior cingulate in older adults with atherosclerotic vascular disease. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 408.	2.0	6
201	Early Phase PIB $\beta$ -PET as a Surrogate for Global and Regional Cerebral Blood Flow Measures. <i>Journal of Neuroimaging</i> , 2019, 29, 85-96.	2.0	6
202	Fourth Ventricle Enlargement in Chiari Malformation Type I. <i>World Neurosurgery</i> , 2020, 133, e259-e266.	1.3	6
203	Proton Exchange Magnetic Resonance Imaging: Current and Future Applications in Psychiatric Research. <i>Frontiers in Psychiatry</i> , 2020, 11, 532606.	2.6	6
204	How do neural processes give rise to cognition? Simultaneously predicting brain and behavior with a dynamic model of visual working memory.. <i>Psychological Review</i> , 2021, 128, 362-395.	3.8	6
205	White matter microstructure relates to motor outcomes in myotonic dystrophy type 1 independently of disease duration and genetic burden. <i>Scientific Reports</i> , 2021, 11, 4886.	3.3	6
206	Mild Cognitive Impairment as an Early Landmark in Huntington's Disease. <i>Frontiers in Neurology</i> , 2021, 12, 678652.	2.4	6
207	Posttraumatic stress and alcohol use among veterans: Amygdala and anterior cingulate activation to emotional cues.. <i>Psychology of Addictive Behaviors</i> , 2016, 30, 720-732.	2.1	6
208	Subcortical T1-Rho MRI Abnormalities in Juvenile-Onset Huntington $\beta$ 's Disease. <i>Brain Sciences</i> , 2020, 10, 533.	2.3	5
209	Neurocognitive Features of Motor Premanifest Individuals With Myotonic Dystrophy Type 1. <i>Neurology: Genetics</i> , 2021, 7, e577.	1.9	5
210	Multi $\beta$ -band $\beta$ - and in $\beta$ -plane $\beta$ -accelerated diffusion MRI enabled by model $\beta$ -based deep learning in q $\beta$ -space and its extension to learning in the spherical harmonic domain. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1799-1815.	3.0	5
211	Topographical Analysis of Aneurysm Wall Enhancement With 3 $\beta$ -Dimensional Mapping. , 2022, 2, .		5
212	Automated brain segmentation using neural networks. , 2006, , .		4
213	CT-measured lung air-trapping is associated with higher carotid artery stiffness in individuals with chronic obstructive pulmonary disease. <i>Journal of Applied Physiology</i> , 2018, 125, 1760-1766.	2.5	4
214	Lifetime Physical Activity and White Matter Hyperintensities in Cognitively Intact Adults. <i>Nursing Research</i> , 2019, 68, 210-217.	1.7	4
215	Comparison of T $\rho$ MRI, Glucose Metabolism, and Amyloid Burden Across the Cognitive Spectrum: A Pilot Study. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2020, 32, 352-361.	1.8	4
216	Quantum chemical insight into the effects of the local electron environment on T2*-based MRI. <i>Scientific Reports</i> , 2021, 11, 20817.	3.3	4

#	ARTICLE	IF	CITATIONS
217	Assessment of Gadobutrol Safety in Combination with Ionizing Radiation Using a Preclinical MRI-Guided Radiotherapy Model. <i>Radiation Research</i> , 2020, 195, 230-234.	1.5	4
218	Blood-Based Markers of Neuronal Injury in Adult-Onset Myotonic Dystrophy Type 1. <i>Frontiers in Neurology</i> , 2021, 12, 791065.	2.4	4
219	Evaluation of Older Persons with Mild Cognitive Deficits: Potential Utility of Magnetic Resonance Imaging. <i>Annals of Clinical Psychiatry</i> , 2008, 20, 204-208.	0.6	3
220	Hippocampal acidity and volume are differentially associated with spatial navigation in older adults. <i>NeuroImage</i> , 2021, 245, 118682.	4.2	3
221	la-FEMesh: anatomic FE models—a check of mesh accuracy and validity. <i>Iowa orthopaedic journal</i> , The, 2009, 29, 48-54.	0.5	3
222	Behavioral features in child and adolescent huntingtin gene mutation carriers. <i>Brain and Behavior</i> , 2022, 12, .	2.2	3
223	Generating random series with known values of Kendall's tau. <i>Computer Methods and Programs in Biomedicine</i> , 2001, 65, 17-23.	4.7	2
224	Maximize uniformity summation heuristic (MUSH): a highly accurate simple method for intracranial delineation. , 2009, , .		2
225	Gaussian curvature analysis allows for automatic block placement in multi-block hexahedral meshing. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 893-904.	1.6	2
226	The effectiveness of geometry features on multi-resolution diffeomorphic demons registration in the implementation of human cortex surface parcellation. , 2011, , .		2
227	Accelerating non-Cartesian sense for large coil arrays: Application to motion compensation in multishot DWI. , 2012, , .		2
228	Hexahedral meshing of subject-specific anatomic structures using mapped building blocks. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 602-611.	1.6	2
229	Transportation physical activity earlier in life and areas of the brain related to dementia later in life. <i>Journal of Transport and Health</i> , 2021, 20, 100992.	2.2	2
230	Probing the Neural Systems Underlying Flexible Dimensional Attention. <i>Journal of Cognitive Neuroscience</i> , 2021, 33, 1365-1380.	2.3	2
231	Hexahedral Meshing of Subject-Specific Anatomic Structures Using Registered Building Blocks. , 2010, , .		2
232	Factors influencing daily quality assurance measurements of magnetic resonance imaging scanners. <i>Radiological Physics and Technology</i> , 2021, 14, 396-401.	1.9	2
233	Remodeling of the Cortical Structural Connectome in Posttraumatic Stress Disorder: Results From the ENIGMA-PGC Posttraumatic Stress Disorder Consortium. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2022, 7, 935-948.	1.5	2
234	A comparative study of diffusion tensor field transformations. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
235	An automated pipeline for cortical surface generation and registration of the cerebral cortex. , 2011, , .		1
236	Growing multiblock structures: a semi-automated approach to block placement for multiblock hexahedral meshing. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 1043-1052.	1.6	1
237	Preliminary Study of the Association of White-Matter Metabolite Concentrations With Disease Severity in Patients With Huntington's Disease. Journal of Neuropsychiatry and Clinical Neurosciences, 2014, 26, 101-104.	1.8	1
238	Precision-guided sampling schedules for efficient T1-weighted mapping. Journal of Magnetic Resonance Imaging, 2015, 41, spcone.	3.4	1
239	Population Shape Collapse in Large Deformation Registration of MR Brain Images. , 2016, , .		1
240	A Framework for Finite Element Mesh Quality Improvement and Visualization in Orthopaedic Biomechanics. , 2009, , .		1
241	Cortical Features in Child and Adolescent Carriers of Mutant Huntingtin (mHTT). Journal of Huntington's Disease, 2022, , 1-6.	1.9	1
242	Posterior Fossa Sub-Arachnoid Cysts Observed in Patients with Bipolar Disorder: a Retrospective Cohort Study. Cerebellum, 2022, , .	2.5	1
243	Quantification of blood flow using phase contrast magnetic resonance imaging. , 1995, , .		0
244	Improved method for correction of systematic bias introduced by the sub-voxel image registration process in functional magnetic resonance imaging (fMRI). , 2006, , .		0
245	Automated image segmentation using support vector machines. , 2007, , .		0
246	Partial volume correction of magnetic resonance spectroscopic imaging. , 2007, , .		0
247	Evaluation of topology correction methods for the generation of the cortical surface. Proceedings of SPIE, 2009, , .	0.8	0
248	White matter degeneration in schizophrenia: a comparative diffusion tensor analysis. Proceedings of SPIE, 2010, , .	0.8	0
249	Automated tissue classification of pediatric brains from magnetic resonance images using age-specific atlases. , 2016, , .		0
250	In Reply. Anesthesiology, 2018, 128, 1261-1261.	2.5	0
251	Semi-Automated Patient Specific Hexahedral Mesh Generation of Articular Cartilage. , 2009, , .		0
252	Automated Building Block Assignments for Finite Element Mesh Development of Patient-Specific Orthopaedic Models. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
253	A Comparison of Two Automated Block Placement Methods for Multi-Block Hexahedral Finite Element Meshing. , 2010, , .		0
254	Elevated Aortic Stiffness is Associated with Lower Brain pH and Executive Function Performance in Middle-aged and Older Adults. FASEB Journal, 2019, 33, 696.15.	0.5	0
255	Comparison of Displacement-Based and Force-Based Mapped Meshing. , 2008, 2008, 629.		0
256	Moderate Intensity Exercise in Pre-manifest Huntington's Disease: Results of a 6 months Trial.. , 2021, 2, 6-36.		0