

# Ron Kikinis

## List of Publications by Year in descending order

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290  
papers

35,214  
citations

4960

84  
h-index

3914

177  
g-index

302  
all docs

302  
docs citations

302  
times ranked

32260  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Slicer as an image computing platform for the Quantitative Imaging Network. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1323-1341.	1.8	5,126
2	Multi-modal volume registration by maximization of mutual information. <i>Medical Image Analysis</i> , 1996, 1, 35-51.	11.6	1,706
3	Statistical validation of image segmentation quality based on a spatial overlap index1. <i>Academic Radiology</i> , 2004, 11, 178-189.	2.5	1,363
4	Abnormalities of the Left Temporal Lobe and Thought Disorder in Schizophrenia. <i>New England Journal of Medicine</i> , 1992, 327, 604-612.	27.0	1,141
5	Three-dimensional multi-scale line filter for segmentation and visualization of curvilinear structures in medical images. <i>Medical Image Analysis</i> , 1998, 2, 143-168.	11.6	999
6	Magnetic resonance imaging study of hippocampal volume in chronic, combat-related posttraumatic stress disorder. <i>Biological Psychiatry</i> , 1996, 40, 1091-1099.	1.3	797
7	Development and Implementation of Intraoperative Magnetic Resonance Imaging and Its Neurosurgical Applications. <i>Neurosurgery</i> , 1997, 41, 831-845.	1.1	781
8	A review of diffusion tensor imaging studies in schizophrenia. <i>Journal of Psychiatric Research</i> , 2007, 41, 15-30.	3.1	686
9	Use of structural magnetic resonance imaging to predict who will get Alzheimer's disease. <i>Annals of Neurology</i> , 2000, 47, 430-439.	5.3	607
10	Quantitative magnetic resonance imaging of brain development in premature and mature newborns. <i>Annals of Neurology</i> , 1998, 43, 224-235.	5.3	596
11	3D Slicer: A Platform for Subject-Specific Image Analysis, Visualization, and Clinical Support. , 2014, , 277-289.		557
12	Periventricular white matter injury in the premature infant is followed by reduced cerebral cortical gray matter volume at term. <i>Annals of Neurology</i> , 1999, 46, 755-760.	5.3	506
13	Robust Radiomics Feature Quantification Using Semiautomatic Volumetric Segmentation. <i>PLoS ONE</i> , 2014, 9, e102107.	2.5	488
14	Uncinate Fasciculus Findings in Schizophrenia: A Magnetic Resonance Diffusion Tensor Imaging Study. <i>American Journal of Psychiatry</i> , 2002, 159, 813-820.	7.2	453
15	Automated Segmentation of MR Images of Brain Tumors. <i>Radiology</i> , 2001, 218, 586-591.	7.3	432
16	Multimodal Neuroimaging Feature Learning for Multiclass Diagnosis of Alzheimer's Disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1132-1140.	4.2	432
17	Cingulate fasciculus integrity disruption in schizophrenia: a magnetic resonance diffusion tensor imaging study. <i>Biological Psychiatry</i> , 2003, 54, 1171-1180.	1.3	377
18	Progressive Decrease of Left Superior Temporal Gyrus Gray Matter Volume in Patients With First-Episode Schizophrenia. <i>American Journal of Psychiatry</i> , 2003, 160, 156-164.	7.2	370

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19	Serial Intraoperative Magnetic Resonance Imaging of Brain Shift. <i>Neurosurgery</i> , 2001, 48, 787-798.	1.1	367
20	The Male Predisposition to Pharyngeal Collapse. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 166, 1388-1395.	5.6	360
21	Middle and Inferior Temporal Gyrus Gray Matter Volume Abnormalities in Chronic Schizophrenia: An MRI Study. <i>American Journal of Psychiatry</i> , 2004, 161, 1603-1611.	7.2	352
22	A Chronic Illness Characterized by Fatigue, Neurologic and Immunologic Disorders, and Active Human Herpesvirus Type 6 Infection. <i>Annals of Internal Medicine</i> , 1992, 116, 103-113.	3.9	345
23	Adaptive, template moderated, spatially varying statistical classification. <i>Medical Image Analysis</i> , 2000, 4, 43-55.	11.6	343
24	An integrated visualization system for surgical planning and guidance using image fusion and an open MR. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 967-975.	3.4	327
25	Oriented Speckle Reducing Anisotropic Diffusion. <i>IEEE Transactions on Image Processing</i> , 2007, 16, 1412-1424.	9.8	323
26	Three-Dimensional Segmentation of MR Images of the Head Using Probability and Connectivity. <i>Journal of Computer Assisted Tomography</i> , 1990, 14, 1037-1045.	0.9	310
27	White matter hemisphere asymmetries in healthy subjects and in schizophrenia: a diffusion tensor MRI study. <i>NeuroImage</i> , 2004, 23, 213-223.	4.2	284
28	Surgical data science for next-generation interventions. <i>Nature Biomedical Engineering</i> , 2017, 1, 691-696.	22.5	283
29	Serial Intraoperative Magnetic Resonance Imaging of Brain Shift. <i>Neurosurgery</i> , 2001, 48, 787-798.	1.1	278
30	Early diagnosis of Alzheimer's disease with deep learning. , 2014, , .		273
31	Excessive Extracellular Volume Reveals a Neurodegenerative Pattern in Schizophrenia Onset. <i>Journal of Neuroscience</i> , 2012, 32, 17365-17372.	3.6	259
32	Segmentation of brain tissue from magnetic resonance images. <i>Medical Image Analysis</i> , 1996, 1, 109-127.	11.6	249
33	A Bayesian model for joint segmentation and registration. <i>NeuroImage</i> , 2006, 31, 228-239.	4.2	244
34	Routine quantitative analysis of brain and cerebrospinal fluid spaces with MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1992, 2, 619-629.	3.4	224
35	Robust nonrigid registration to capture brain shift from intraoperative MRI. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 1417-1427.	8.9	214
36	Regional Magnetic Resonance Imaging Lesion Burden and Cognitive Function in Multiple Sclerosis. <i>Archives of Neurology</i> , 2001, 58, 115-21.	4.5	202

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37	Evaluation of three-dimensional finite element-based deformable registration of pre- and intraoperative prostate imaging. <i>Medical Physics</i> , 2001, 28, 2551-2560.	3.0	201
38	Spatial normalization of diffusion tensor MRI using multiple channels. <i>NeuroImage</i> , 2003, 20, 1995-2009.	4.2	194
39	Patient-specific model of brain deformation: Application to medical image registration. <i>Journal of Biomechanics</i> , 2007, 40, 919-929.	2.1	189
40	Computed Tomographic Measures of Pulmonary Vascular Morphology in Smokers and Their Clinical Implications. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 231-239.	5.6	188
41	GBM Volumetry using the 3D Slicer Medical Image Computing Platform. <i>Scientific Reports</i> , 2013, 3, 1364.	3.3	185
42	Serial registration of intraoperative MR images of the brain. <i>Medical Image Analysis</i> , 2002, 6, 337-359.	11.6	184
43	Age-related changes in intracranial compartment volumes in normal adults assessed by magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 1996, 84, 982-991.	1.6	179
44	Magnetic resonance imaging shows orientation and asymmetry of white matter fiber tracts. <i>Brain Research</i> , 1998, 780, 27-33.	2.2	178
45	Intraoperative MR Imaging Guidance for Intracranial Neurosurgery: Experience with the First 200 Cases. <i>Radiology</i> , 1999, 211, 477-488.	7.3	178
46	Prefrontal cortex, negative symptoms, and schizophrenia: an MRI study. <i>Psychiatry Research - Neuroimaging</i> , 2001, 108, 65-78.	1.8	170
47	The white matter query language: a novel approach for describing human white matter anatomy. <i>Brain Structure and Function</i> , 2016, 221, 4705-4721.	2.3	170
48	Repeatability of Multiparametric Prostate MRI Radiomics Features. <i>Scientific Reports</i> , 2019, 9, 9441.	3.3	169
49	Volumetric CT-based segmentation of NSCLC using 3D-Slicer. <i>Scientific Reports</i> , 2013, 3, 3529.	3.3	168
50	Comparison of different registration methods for surgical navigation in cranio-maxillofacial surgery. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2008, 36, 109-116.	1.7	163
51	Volumetric Evaluation of the Thalamus in Schizophrenic Male Patients Using Magnetic Resonance Imaging. <i>Biological Psychiatry</i> , 1998, 43, 649-659.	1.3	161
52	Caudate, putamen, and globus pallidus volume in schizophrenia: A quantitative MRI study. <i>Psychiatry Research - Neuroimaging</i> , 1995, 61, 209-229.	1.8	160
53	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. <i>Journal of Neuroimaging</i> , 2015, 25, 875-882.	2.0	147
54	MRI Study of Cavum Septi Pellucidi in Schizophrenia, Affective Disorder, and Schizotypal Personality Disorder. <i>American Journal of Psychiatry</i> , 1998, 155, 509-515.	7.2	146

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55	Automatic identification of gray matter structures from MRI to improve the segmentation of white matter lesions. <i>Journal of Image Guided Surgery</i> , 1995, 1, 326-338.	0.3	146
56	MRI Study of Caudate Nucleus Volume and Its Cognitive Correlates in Neuroleptic-Naive Patients With Schizotypal Personality Disorder. <i>American Journal of Psychiatry</i> , 2002, 159, 1190-1197.	7.2	142
57	MR-Based Three-Dimensional Modeling of the Normal Pelvic Floor in Women. <i>American Journal of Roentgenology</i> , 2000, 174, 657-660.	2.2	141
58	Morphological Characteristics of Brain Tumors Causing Seizures. <i>Archives of Neurology</i> , 2010, 67, 336-42.	4.5	139
59	Mapping Connectivity Damage in the Case of Phineas Gage. <i>PLoS ONE</i> , 2012, 7, e37454.	2.5	138
60	Deformable Modeling of Facial Tissue for Craniofacial Surgery Simulation. <i>Computer Aided Surgery</i> , 1998, 3, 228-238.	1.8	136
61	An Automated Registration Algorithm for Measuring MRI Subcortical Brain Structures. <i>NeuroImage</i> , 1997, 6, 13-25.	4.2	134
62	Schizotypal personality disorder and MRI abnormalities of temporal lobe gray matter. <i>Biological Psychiatry</i> , 1999, 45, 1393-1402.	1.3	127
63	Transcranial magnetic stimulation coregistered with MRI: a comparison of a guided versus blind stimulation technique and its effect on evoked compound muscle action potentials. <i>Clinical Neurophysiology</i> , 2001, 112, 1781-1792.	1.5	123
64	MR Imaging-guided Prostate Biopsy with Surgical Navigation Software: Device Validation and Feasibility. <i>Radiology</i> , 2001, 220, 263-268.	7.3	122
65	Amygdala-hippocampal shape differences in schizophrenia: the application of 3D shape models to volumetric MR data. <i>Psychiatry Research - Neuroimaging</i> , 2002, 115, 15-35.	1.8	121
66	Variations of Dynamic Contrast-Enhanced Magnetic Resonance Imaging in Evaluation of Breast Cancer Therapy Response: A Multicenter Data Analysis Challenge. <i>Translational Oncology</i> , 2014, 7, 153-166.	3.7	120
67	Middle and Inferior Temporal Gyrus Gray Matter Volume Abnormalities in First-Episode Schizophrenia: An MRI Study. <i>American Journal of Psychiatry</i> , 2006, 163, 2103-2110.	7.2	119
68	Multimodal neuroimaging computing: a review of the applications in neuropsychiatric disorders. <i>Brain Informatics</i> , 2015, 2, 167-180.	3.0	115
69	Neuroimaging of structural pathology and connectomics in traumatic brain injury: Toward personalized outcome prediction. <i>NeuroImage: Clinical</i> , 2012, 1, 1-17.	2.7	111
70	Fronto-temporal Disconnectivity in Schizotypal Personality Disorder: A Diffusion Tensor Imaging Study. <i>Biological Psychiatry</i> , 2005, 58, 468-478.	1.3	110
71	Changes in Activated T Cells in the Blood Correlate With Disease Activity in Multiple Sclerosis. <i>Archives of Neurology</i> , 2000, 57, 1183.	4.5	108
72	High-resolution line scan diffusion tensor MR imaging of white matter fiber tract anatomy. <i>American Journal of Neuroradiology</i> , 2002, 23, 67-75.	2.4	107

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73	Surgical data science “from concepts toward clinical translation. Medical Image Analysis, 2022, 76, 102306.	11.6	107
74	An Integrated Visualization System for Surgical Planning and Guidance Using Image Fusion and Interventional Imaging. Lecture Notes in Computer Science, 1999, , 809-819.	1.3	104
75	3D Surface Rendered MR Images of the Brain and its Vasculature. Journal of Computer Assisted Tomography, 1991, 15, 344-351.	0.9	97
76	A Hierarchical Algorithm for MR Brain Image Parcellation. IEEE Transactions on Medical Imaging, 2007, 26, 1201-1212.	8.9	97
77	Three validation metrics for automated probabilistic image segmentation of brain tumours. Statistics in Medicine, 2004, 23, 1259-1282.	1.6	96
78	Integration of interventional MRI with computer-assisted surgery. Journal of Magnetic Resonance Imaging, 2001, 13, 69-77.	3.4	95
79	Detection and analysis of statistical differences in anatomical shape. Medical Image Analysis, 2005, 9, 69-86.	11.6	95
80	Interactive Diffusion Tensor Tractography Visualization for Neurosurgical Planning. Neurosurgery, 2011, 68, 496-505.	1.1	95
81	A Functional Magnetic Resonance Imaging Study of Auditory Mismatch in Schizophrenia. American Journal of Psychiatry, 2001, 158, 938-943.	7.2	94
82	Temporal lobe sulco-gyral pattern anomalies in schizophrenia: an in vivo MR three-dimensional surface rendering study. Neuroscience Letters, 1994, 182, 7-12.	2.1	93
83	Implementing the DICOM Standard for Digital Pathology. Journal of Pathology Informatics, 2018, 9, 37.	1.7	93
84	Reproducibility of Functional MR Imaging: Preliminary Results of Prospective Multi-institutional Study Performed by Biomedical Informatics Research Network. Radiology, 2005, 237, 781-789.	7.3	92
85	Real-time registration of volumetric brain MRI by biomechanical simulation of deformation during image guided neurosurgery. Computing and Visualization in Science, 2002, 5, 3-11.	1.2	91
86	Supratentorial Low-Grade Glioma Resectability: Statistical Predictive Analysis Based on Anatomic MR Features and Tumor Characteristics. Radiology, 2006, 239, 506-513.	7.3	91
87	SlicerDMRI: Open Source Diffusion MRI Software for Brain Cancer Research. Cancer Research, 2017, 77, e101-e103.	0.9	89
88	Monitoring and visualization techniques for MR-guided laser ablations in an open MR system. Journal of Magnetic Resonance Imaging, 1998, 8, 933-943.	3.4	87
89	Volumetric object modeling for surgical simulation. Medical Image Analysis, 1998, 2, 121-132.	11.6	85
90	Using the logarithm of odds to define a vector space on probabilistic atlases. Medical Image Analysis, 2007, 11, 465-477.	11.6	85

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91	Age-related deficits in fronto-temporal connections in schizophrenia: A diffusion tensor imaging study. Schizophrenia Research, 2008, 102, 181-188.	2.0	84
92	Unsupervised tissue type segmentation of 3D dual-echo MR head data. Image and Vision Computing, 1992, 10, 349-360.	4.5	83
93	Computer-assisted Surgical Planning for Cerebrovascular Neurosurgery. Neurosurgery, 1997, 41, 403-410.	1.1	83
94	Use of Cortical Surface Vessel Registration for Image-guided Neurosurgery. Neurosurgery, 1997, 40, 1201-1210.	1.1	83
95	Using 3D Modeling Techniques to Enhance Teaching of Difficult Anatomical Concepts. Academic Radiology, 2016, 23, 507-516.	2.5	82
96	Image-Guided Surgery. Scientific American, 1999, 280, 62-69.	1.0	81
97	Video Registration Virtual Reality for Nonlinkage Stereotactic Surgery. Stereotactic and Functional Neurosurgery, 1994, 63, 139-143.	1.5	78

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109	Clinical Application of Curvilinear Distraction Osteogenesis for Correction of Mandibular Deformities. <i>Journal of Oral and Maxillofacial Surgery</i> , 2009, 67, 996-1008.	1.2	66
110	Cavum septi pellucidi in first-episode schizophrenia and first-episode affective psychosis: an MRI study. <i>Schizophrenia Research</i> , 2004, 71, 65-76.	2.0	65
111	Three-Dimensional Optical Flow Method for Measurement of Volumetric Brain Deformation from Intraoperative MR Images. <i>Journal of Computer Assisted Tomography</i> , 2000, 24, 531-538.	0.9	60
112	Three-dimensional imaging and display of renal tumors using spiral CT a potential aid to partial nephrectomy. <i>Urology</i> , 1994, 43, 125-129.	1.0	59
113	Shape of caudate nucleus and its cognitive correlates in neuroleptic-naive schizotypal personality disorder. <i>Biological Psychiatry</i> , 2004, 55, 177-184.	1.3	59
114	Shape Differences in the Corpus Callosum in First-Episode Schizophrenia and First-Episode Psychotic Affective Disorder. <i>American Journal of Psychiatry</i> , 2002, 159, 866-868.	7.2	58
115	Anatomic and Physiologic Predictors of Apnea Severity in Morbidly Obese Subjects. <i>Sleep</i> , 2003, 26, 150-155.	1.1	58
116	Increasing the impact of medical image computing using community-based open-access hackathons: The NA-MIC and 3D Slicer experience. <i>Medical Image Analysis</i> , 2016, 33, 176-180.	11.6	58
117	Application of automated MRI volumetric measurement techniques to the ventricular system in schizophrenics and normal controls. <i>Schizophrenia Research</i> , 1991, 5, 103-113.	2.0	57
118	Intraoperative diffusion imaging on a 0.5 Tesla interventional scanner. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 115-119.	3.4	55
119	Multidetector CT of the Paranasal Sinus: Potential for Radiation Dose Reduction <sup>1</sup> . <i>Radiology</i> , 2007, 243, 847-852.	7.3	55
120	Comparison of Acute and Chronic Traumatic Brain Injury Using Semi-Automatic Multimodal Segmentation of MR Volumes. <i>Journal of Neurotrauma</i> , 2011, 28, 2287-2306.	3.4	55
121	Intracranial compartment volumes in patients with enlarged ventricles assessed by magnetic resonance-based image processing. <i>Journal of Neurosurgery</i> , 1996, 84, 972-981.	1.6	54
122	Patient-Tailored Connectomics Visualization for the Assessment of White Matter Atrophy in Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2012, 3, 10.	2.4	53
123	SlicerDMRI: Diffusion MRI and Tractography Research Software for Brain Cancer Surgery Planning and Visualization. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 299-309.	2.1	52
124	Deformable modeling of facial tissue for craniofacial surgery simulation. <i>Computer Aided Surgery</i> , 1998, 3, 228-238.	1.8	52
125	Quantitative MR Imaging Assessment of Prostate Gland Deformation before and During MR Imaging-Guided Brachytherapy. <i>Academic Radiology</i> , 2002, 9, 906-912.	2.5	51
126	Augmented Reality Visualization for CT-guided Interventions: System Description, Feasibility, and Initial Evaluation in an Abdominal Phantom. <i>Radiology</i> , 2006, 240, 230-235.	7.3	51

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127	Extended Broca's Area in the Functional Connectome of Language in Adults: Combined Cortical and Subcortical Single-Subject Analysis Using fMRI and DTI Tractography. <i>Brain Topography</i> , 2013, 26, 428-441.	1.8	51
128	Errors in Quantitative Image Analysis due to Platform-Dependent Image Scaling. <i>Translational Oncology</i> , 2014, 7, 65-71.	3.7	51
129	Image registration for targeted MRI-guided transperineal prostate biopsy. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 987-992.	3.4	50
130	Parcellation of the human prefrontal cortex using MRI. <i>Psychiatry Research - Neuroimaging</i> , 1997, 76, 29-40.	1.8	49
131	Anatomical guided segmentation with non-stationary tissue class distributions in an expectation-maximization framework. , 2004, 2004, 81-84.		47
132	Fully automatic catheter segmentation in MRI with 3D convolutional neural networks: application to MRI-guided gynecologic brachytherapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 165008.	3.0	47
133	Virtual CT Cystoscopy. <i>Investigative Radiology</i> , 2000, 35, 331.	6.2	47
134	Tumor detection in the bladder wall with a measurement of abnormal thickness in CT scans. <i>IEEE Transactions on Biomedical Engineering</i> , 2003, 50, 383-390.	4.2	46
135	MR Imaging of Brain Maturation in Normal and Developmentally Handicapped Children. <i>Journal of Computer Assisted Tomography</i> , 1990, 14, 685-692.	0.9	45
136	MRI signal intensity based B-spline nonrigid registration for pre- and intraoperative imaging during prostate brachytherapy. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 1052-1058.	3.4	45
137	Virtual Laryngoscopy. <i>Annals of Otology, Rhinology and Laryngology</i> , 1999, 108, 221-226.	1.1	44
138	Experimentation with a transcranial magnetic stimulation system for functional brain mapping. <i>Medical Image Analysis</i> , 1998, 2, 133-142.	11.6	43
139	A statistically based flow for image segmentation. <i>Medical Image Analysis</i> , 2004, 8, 267-274.	11.6	42
140	A diffusion tensor imaging study of the anterior limb of the internal capsule in schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2010, 184, 143-150.	1.8	42
141	Stochastic tractography study of Inferior Frontal Gyrus anatomical connectivity in schizophrenia. <i>NeuroImage</i> , 2011, 55, 1657-1664.	4.2	42
142	Automatic Needle Segmentation and Localization in MRI With 3-D Convolutional Neural Networks: Application to MRI-Targeted Prostate Biopsy. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1026-1036.	8.9	42
143	Three-dimensional magnetic resonance imaging of fetal brains. <i>Lancet, The</i> , 2001, 357, 1177-1178.	13.7	41
144	Magnetic resonance imaging based colonography for diagnosis and assessment of diverticulosis and diverticulitis. <i>International Journal of Colorectal Disease</i> , 2004, 19, 474-80.	2.2	40

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145	An MRI study of spatial probability brain map differences between first-episode schizophrenia and normal controls. <i>NeuroImage</i> , 2004, 22, 1231-1246.	4.2	40
146	An In Vivo MRI Study of Prefrontal Cortical Complexity in First-Episode Psychosis. <i>American Journal of Psychiatry</i> , 2005, 162, 65-70.	7.2	40
147	Volumetric Assessment of Tumor Infiltration of Adjacent White Matter Based on Anatomic MRI and Diffusion Tensor Tractography. <i>Academic Radiology</i> , 2007, 14, 431-436.	2.5	39
148	Anterior limb of the internal capsule in schizophrenia: a diffusion tensor tractography study. <i>Brain Imaging and Behavior</i> , 2012, 6, 417-425.	2.1	39
149	3D Modeling and Virtual Endoscopy of the Small Bowel Based on Magnetic Resonance Imaging in Patients With Inflammatory Bowel Disease. <i>Investigative Radiology</i> , 2002, 37, 528-533.	6.2	38
150	More accurate neuronavigation data provided by biomechanical modeling instead of rigid registration. <i>Journal of Neurosurgery</i> , 2014, 120, 1477-1483.	1.6	37
151	Lobar Distribution of Lesion Volumes in Late-Life Depression: The Biomedical Informatics Research Network (BIRN). <i>Neuropsychopharmacology</i> , 2006, 31, 1500-1507.	5.4	36
152	Aortic flow velocity patterns in chronic aortic regurgitation: Implications for Doppler echocardiography. <i>Journal of the American Society of Echocardiography</i> , 1996, 9, 675-683.	2.8	34
153	VIRTUAL OTOSCOPY. <i>Otolaryngologic Clinics of North America</i> , 1998, 31, 383-392.	1.1	34
154	Biomechanical Model as a Registration Tool for Image-Guided Neurosurgery: Evaluation Against BSpline Registration. <i>Annals of Biomedical Engineering</i> , 2013, 41, 2409-2425.	2.5	34
155	On Describing Human White Matter Anatomy: The White Matter Query Language. <i>Lecture Notes in Computer Science</i> , 2013, 16, 647-654.	1.3	34
156	Visual Hemifield Mapping Using Transcranial Magnetic Stimulation Coregistered With Cortical Surfaces Derived From Magnetic Resonance Images. <i>Journal of Clinical Neurophysiology</i> , 1998, 15, 344-350.	1.7	33
157	Computer-assisted three-dimensional reconstruction of head and neck tumors. <i>Laryngoscope</i> , 1998, 108, 1592-1598.	2.0	32
158	Deficits of motion integration and segregation in patients with unilateral extrastriate lesions. <i>Brain</i> , 2005, 128, 2134-2145.	7.6	32
159	A CT Database for Research, Development and Education: Concept and Potential. <i>Journal of Digital Imaging</i> , 2007, 20, 17-22.	2.9	32
160	Relationship Between White Matter Integrity, Attention, and Memory in Schizophrenia: A Diffusion Tensor Imaging Study. <i>Brain Imaging and Behavior</i> , 2009, 3, 191-201.	2.1	32
161	Shape abnormalities of caudate nucleus in schizotypal personality disorder. <i>Schizophrenia Research</i> , 2009, 110, 127-139.	2.0	32
162	Development of a surgical navigation system based on 3D Slicer for intraoperative implant placement surgery. <i>Medical Engineering and Physics</i> , 2017, 41, 81-89.	1.7	31

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163	<i>dicomqi</i> : An Open Source Library for Standardized Communication of Quantitative Image Analysis Results Using DICOM. <i>Cancer Research</i> , 2017, 77, e87-e90.	0.9	31
164	Range of Curvilinear Distraction Devices Required for Treatment of Mandibular Deformities. <i>Journal of Oral and Maxillofacial Surgery</i> , 2006, 64, 259-264.	1.2	30
165	A quantitative MR measure of the fornix in schizophrenia. <i>Schizophrenia Research</i> , 2001, 47, 87-97.	2.0	29
166	Statistical validation based on parametric receiver operating characteristic analysis of continuous classification data. <i>Academic Radiology</i> , 2003, 10, 1359-1368.	2.5	29
167	Analysis of skeletal movements in mandibular distraction osteogenesis. <i>Journal of Oral and Maxillofacial Surgery</i> , 2005, 63, 335-340.	1.2	29
168	Reduced fractional anisotropy and axial diffusivity in white matter in 22q11.2 deletion syndrome: A pilot study. <i>Schizophrenia Research</i> , 2012, 141, 35-39.	2.0	29
169	Forward and inverse electroencephalographic modeling in health and in acute traumatic brain injury. <i>Clinical Neurophysiology</i> , 2013, 124, 2129-2145.	1.5	29
170	A Survey of auditory display in image-guided interventions. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1665-1676.	2.8	29
171	Method for combining information from white matter fiber tracking and gray matter parcellation. <i>American Journal of Neuroradiology</i> , 2004, 25, 1318-24.	2.4	29
172	Toward Real-Time Image Guided Neurosurgery Using Distributed and Grid Computing. , 2006, , .		28
173	NCI Imaging Data Commons. <i>Cancer Research</i> , 2021, 81, 4188-4193.	0.9	28
174	iTools: A Framework for Classification, Categorization and Integration of Computational Biology Resources. <i>PLoS ONE</i> , 2008, 3, e2265.	2.5	27
175	Multi-Channel neurodegenerative pattern analysis and its application in Alzheimer's disease characterization. <i>Computerized Medical Imaging and Graphics</i> , 2014, 38, 436-444.	5.8	27
176	Systemic chemotherapy decreases brain glucose metabolism. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 788-798.	3.7	27
177	Dictionary pruning with visual word significance for medical image retrieval. <i>Neurocomputing</i> , 2016, 177, 75-88.	5.9	27
178	3D localization of surface 10-20 EEG electrodes on high resolution anatomical MR images. <i>Electroencephalography and Clinical Neurophysiology</i> , 1997, 102, 335-339.	0.3	26
179	Three-Dimensional Reconstruction and Surgical Navigation in Pediatric Epilepsy Surgery. <i>Pediatric Neurosurgery</i> , 1997, 27, 304-310.	0.7	26
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