

Rajan Jain

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118 papers	6,486 citations	38 h-index	79 g-index
127 ext. papers	7,965 ext. citations	5.4 avg, IF	5.59 L-index

#	Paper	IF	Citations
118	Prognostic indicators and outcomes of hospitalised COVID-19 patients with neurological disease: An individual patient data meta-analysis. <i>PLoS ONE</i> , 2022 , 17, e0263595	3.7	0
117	Fluid attenuation in non-contrast-enhancing tumor (nCET): an MRI Marker for Isocitrate Dehydrogenase (IDH) mutation in Glioblastoma. <i>Journal of Neuro-Oncology</i> , 2021 , 152, 523-531	4.8	3
116	Increase in Ventricle Size and the Evolution of White Matter Changes on Serial Imaging in Critically Ill Patients with COVID-19. <i>Neurocritical Care</i> , 2021 , 35, 491-500	3.3	0
115	COVID-19 associated brain/spinal cord lesions and leptomeningeal enhancement: A meta-analysis of the relationship to CSF SARS-CoV-2. <i>Journal of Neuroimaging</i> , 2021 , 31, 826-848	2.8	2
114	Fully automated hybrid approach to predict the IDH mutation status of gliomas via deep learning and radiomics. <i>Neuro-Oncology</i> , 2021 , 23, 304-313	1	24
113	Risk factors for intracerebral hemorrhage in patients with COVID-19. <i>Journal of Thrombosis and Thrombolysis</i> , 2021 , 51, 953-960	5.1	35
112	Serial Imaging of Virus-Associated Necrotizing Disseminated Acute Leukoencephalopathy (VANDAL) in COVID-19. <i>American Journal of Neuroradiology</i> , 2021 , 42, 279-284	4.4	7
111	Anticoagulation use and Hemorrhagic Stroke in SARS-CoV-2 Patients Treated at a New York Healthcare System. <i>Neurocritical Care</i> , 2021 , 34, 748-759	3.3	27
110	Functional connectivity of the default mode, dorsal attention and fronto-parietal executive control networks in glial tumor patients. <i>Journal of Neuro-Oncology</i> , 2021 , 152, 347-355	4.8	3
109	Adult Glioma WHO Classification Update, Genomics, and Imaging: What the Radiologists Need to Know. <i>Topics in Magnetic Resonance Imaging</i> , 2020 , 29, 71-82	2.3	19
108	Surprise Diagnosis of COVID-19 following Neuroimaging Evaluation for Unrelated Reasons during the Pandemic in Hot Spots. <i>American Journal of Neuroradiology</i> , 2020 , 41, 1177-1178	4.4	10
107	Cerebral Venous Thrombosis Associated with COVID-19. <i>American Journal of Neuroradiology</i> , 2020 , 41, 1370-1376	4.4	131
106	Machine learning and radiomic phenotyping of lower grade gliomas: improving survival prediction. <i>European Radiology</i> , 2020 , 30, 3834-3842	8	16
105	AI-based prognostic imaging biomarkers for precision neuro-oncology: the ReSPOND consortium. <i>Neuro-Oncology</i> , 2020 , 22, 886-888	1	14
104	"Real world" use of a highly reliable imaging sign: "T2-FLAIR mismatch" for identification of IDH mutant astrocytomas. <i>Neuro-Oncology</i> , 2020 , 22, 936-943	1	28
103	MR image phenotypes may add prognostic value to clinical features in IDH wild-type lower-grade gliomas. <i>European Radiology</i> , 2020 , 30, 3035-3045	8	3
102	Prognostic Value of Preoperative MRI Metrics for Diffuse Lower-Grade Glioma Molecular Subtypes. <i>American Journal of Neuroradiology</i> , 2020 , 41, 815-821	4.4	2

101	Letter to the Editor. The T2-FLAIR-mismatch sign. <i>Neurosurgical Focus</i> , 2020 , 48, E9	4.2	1
100	COVID-19 related neuroimaging findings: A signal of thromboembolic complications and a strong prognostic marker of poor patient outcome. <i>Journal of the Neurological Sciences</i> , 2020 , 414, 116923	3.2	109
99	Hemorrhagic stroke and anticoagulation in COVID-19. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2020 , 29, 104984	2.8	93
98	NIMG-66. AI-BASED PROGNOSTIC IMAGING BIOMARKERS FOR PRECISION NEUROONCOLOGY AND THE RESPOND CONSORTIUM. <i>Neuro-Oncology</i> , 2020 , 22, ii162-ii163	1	1
97	Possible Empirical Evidence of Glymphatic System on Computed Tomography After Endovascular Perforations. <i>World Neurosurgery</i> , 2020 , 134, e400-e404	2.1	6
96	MRI and CT Identify Isocitrate Dehydrogenase -Mutant Lower-Grade Gliomas Misclassified to 1p/19q Codeletion Status with Fluorescence in Situ Hybridization. <i>Radiology</i> , 2020 , 294, 160-167	20.5	7
95	Expression profiling of the adhesion G protein-coupled receptor GPR133 (ADGRD1) in glioma subtypes. <i>Neuro-Oncology Advances</i> , 2020 , 2, vdaa053	0.9	6
94	Radiomics risk score may be a potential imaging biomarker for predicting survival in isocitrate dehydrogenase wild-type lower-grade gliomas. <i>European Radiology</i> , 2020 , 30, 6464-6474	8	1
93	Cerebral Microbleeds and Leukoencephalopathy in Critically Ill Patients With COVID-19. <i>Stroke</i> , 2020 , 51, 2649-2655	6.7	65
92	COVID-19-Induced Neurovascular Injury: a Case Series with Emphasis on Pathophysiological Mechanisms. <i>SN Comprehensive Clinical Medicine</i> , 2020 , 2, 2109-2125	2.7	12
91	Herpes zoster lumbar radiculitis. <i>Neurology</i> , 2020 , 95, 552-553	6.5	1
90	Automated apparent diffusion coefficient analysis for genotype prediction in lower grade glioma: association with the T2-FLAIR mismatch sign. <i>Journal of Neuro-Oncology</i> , 2020 , 149, 325-335	4.8	9
89	Neuroimaging-Based Classification Algorithm for Predicting 1p/19q-Codeletion Status in -Mutant Lower Grade Gliomas. <i>American Journal of Neuroradiology</i> , 2019 , 40, 426-432	4.4	35
88	MR imaging phenotype correlates with extent of genome-wide copy number abundance in IDH mutant gliomas. <i>Neuroradiology</i> , 2019 , 61, 1023-1031	3.2	5
87	Extent of Surgical Resection in Lower-Grade Gliomas: Differential Impact Based on Molecular Subtype. <i>American Journal of Neuroradiology</i> , 2019 , 40, 1149-1155	4.4	23
86	Plasma cell-free circulating tumor DNA (ctDNA) detection in longitudinally followed glioblastoma patients using TERT promoter mutation-specific droplet digital PCR assays.. <i>Journal of Clinical Oncology</i> , 2019 , 37, 2026-2026	2.2	7
85	NIMG-05. THE T2-FLAIR MISMATCH SIGN IN IDH-MUTANT ASTROCYTOMAS - IS THERE AN ASSOCIATION WITH FET PET UPTAKE?. <i>Neuro-Oncology</i> , 2019 , 21, vi162-vi162	1	1
84	NIMG-09. NONINVASIVE PERFUSION IMAGING BIOMARKER OF MALIGNANT GENOTYPE IN ISOCITRATE DEHYDROGENASE MUTANT GLIOMAS. <i>Neuro-Oncology</i> , 2019 , 21, vi163-vi163	1	78

83	There is an exception to every rule-T2-FLAIR mismatch sign in gliomas. <i>Neuroradiology</i> , 2019 , 61, 225-227.	3.2	31
82	Cell Surface Notch Ligand DLL3 is a Therapeutic Target in Isocitrate Dehydrogenase-mutant Glioma. <i>Clinical Cancer Research</i> , 2019 , 25, 1261-1271	12.9	31
81	Macrovascular Networks on Contrast-Enhanced Magnetic Resonance Imaging Improves Survival Prediction in Newly Diagnosed Glioblastoma. <i>Cancers</i> , 2019 , 11,	6.6	2
80	State of the Art: Machine Learning Applications in Glioma Imaging. <i>American Journal of Roentgenology</i> , 2019 , 212, 26-37	5.4	46
79	Neurovascular Unit: Basic and Clinical Imaging with Emphasis on Advantages of Ferumoxytol. <i>Neurosurgery</i> , 2018 , 82, 770-780	3.2	25
78	Aceruloplasminemia and putaminal cavitation. <i>Parkinsonism and Related Disorders</i> , 2018 , 51, 121-123	3.6	5
77	Deep-Learning Convolutional Neural Networks Accurately Classify Genetic Mutations in Gliomas. <i>American Journal of Neuroradiology</i> , 2018 , 39, 1201-1207	4.4	202
76	Quantitative sodium imaging and gliomas: a feasibility study. <i>Neuroradiology</i> , 2018 , 60, 795-802	3.2	16
75	State of the Art Treatment and Surveillance Imaging of Glioblastomas. <i>Seminars in Roentgenology</i> , 2018 , 53, 23-36	0.8	7
74	Predicting Genotype and Survival in Glioma Using Standard Clinical MR Imaging Apparent Diffusion Coefficient Images: A Pilot Study From The Cancer Genome Atlas. <i>American Journal of Neuroradiology</i> , 2018 , 39, 1814-1820	4.4	33
73	Hypoxia-Mediated Mechanisms Associated with Antiangiogenic Treatment Resistance in Glioblastomas. <i>American Journal of Pathology</i> , 2017 , 187, 940-953	5.8	45
72	Diagnostic Accuracy of Neuroimaging to Delineate Diffuse Gliomas within the Brain: A Meta-Analysis. <i>American Journal of Neuroradiology</i> , 2017 , 38, 1884-1891	4.4	35
71	T2-FLAIR Mismatch, an Imaging Biomarker for IDH and 1p/19q Status in Lower-grade Gliomas: A TCGA/TCIA Project. <i>Clinical Cancer Research</i> , 2017 , 23, 6078-6085	12.9	157
70	Osimertinib Dose Escalation Induces Regression of Progressive EGFR T790M-Mutant Leptomeningeal Lung Adenocarcinoma. <i>Journal of Thoracic Oncology</i> , 2017 , 12, e188-e190	8.9	8
69	Endothelium-Independent Primitive Myxoid Vascularization Creates Invertebrate-Like Channels to Maintain Blood Supply in Optic Gliomas. <i>American Journal of Pathology</i> , 2017 , 187, 1867-1878	5.8	3
68	Melanoma brain metastases: correlation of imaging features with genomic markers and patient survival. <i>Journal of Neuro-Oncology</i> , 2017 , 131, 341-348	4.8	9
67	PATH-42. DETECTION OF TERT MUTATIONS IN CELL-FREE CIRCULATING TUMOR DNA (ctDNA) OF GLIOBLASTOMA PATIENTS USING DROPLET DIGITAL PCR. <i>Neuro-Oncology</i> , 2017 , 19, vi180-vi180	1	78
66	A combinatorial radiographic phenotype may stratify patient survival and be associated with invasion and proliferation characteristics in glioblastoma. <i>Journal of Neurosurgery</i> , 2016 , 124, 1008-17	3.2	33

65	High-resolution blood-pool-contrast-enhanced MR angiography in glioblastoma: tumor-associated neovascularization as a biomarker for patient survival. A preliminary study. <i>Neuroradiology</i> , 2016 , 58, 17-26	3.2	8
64	Integrative Analysis of mRNA, microRNA, and Protein Correlates of Relative Cerebral Blood Volume Values in GBM Reveals the Role for Modulators of Angiogenesis and Tumor Proliferation. <i>Cancer Informatics</i> , 2016 , 15, 29-33	2.4	9
63	MRI Pre- and Post-Embolization Enhancement Patterns Predict Surgical Outcomes in Intracranial Meningiomas. <i>Journal of Neuroimaging</i> , 2016 , 26, 130-5	2.8	7
62	Concurrent functional and metabolic assessment of brain tumors using hybrid PET/MR imaging. <i>Journal of Neuro-Oncology</i> , 2016 , 127, 287-93	4.8	21
61	Current Status of Hybrid PET/MRI in Oncologic Imaging. <i>American Journal of Roentgenology</i> , 2016 , 206, 162-72	5.4	80
60	Intravoxel Incoherent Motion Metrics as Potential Biomarkers for Survival in Glioblastoma. <i>PLoS ONE</i> , 2016 , 11, e0158887	3.7	25
59	Assessing the Effects of Software Platforms on Volumetric Segmentation of Glioblastoma 2016 , 1, 64-72		2
58	Texture Feature Ratios from Relative CBV Maps of Perfusion MRI Are Associated with Patient Survival in Glioblastoma. <i>American Journal of Neuroradiology</i> , 2016 , 37, 37-43	4.4	50
57	Perfusion Imaging in Neuro-Oncology: Basic Techniques and Clinical Applications. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2016 , 24, 765-779	1.6	20
56	Clinical predictors of abnormal magnetic resonance imaging findings in patients with asymmetric sensorineural hearing loss. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2015 , 141, 451-6	3.9	20
55	Addition of MR imaging features and genetic biomarkers strengthens glioblastoma survival prediction in TCGA patients. <i>Journal of Neuroradiology</i> , 2015 , 42, 212-21	3.1	80
54	Comprehensive, Integrative Genomic Analysis of Diffuse Lower-Grade Gliomas. <i>New England Journal of Medicine</i> , 2015 , 372, 2481-98	59.2	1828
53	Perfusion imaging in neuro-oncology: basic techniques and clinical applications. <i>Radiologic Clinics of North America</i> , 2015 , 53, 497-511	2.3	18
52	Glioma Angiogenesis and Perfusion Imaging: Understanding the Relationship between Tumor Blood Volume and Leakiness with Increasing Glioma Grade. <i>American Journal of Neuroradiology</i> , 2015 , 36, 2030-5	4.4	26
51	Idiopathic spinal cord herniation: an imaging diagnosis with a significant delay. <i>Spine Journal</i> , 2015 , 15, 1943-8	4	15
50	Diffusion MRI quality control and functional diffusion map results in ACRIN 6677/RTOG 0625: a multicenter, randomized, phase II trial of bevacizumab and chemotherapy in recurrent glioblastoma. <i>International Journal of Oncology</i> , 2015 , 46, 1883-92	4.4	44
49	Key determinants of short-term and long-term glioblastoma survival: a 14-year retrospective study of patients from the Hermelin Brain Tumor Center at Henry Ford Hospital. <i>Clinical Neurology and Neurosurgery</i> , 2014 , 120, 103-12	2	34
48	Measurement of rat brain tumor kinetics using an intravascular MR contrast agent and DCE-MRI nested model selection. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 1223-9	5.6	11

47	Outcome prediction in patients with glioblastoma by using imaging, clinical, and genomic biomarkers: focus on the nonenhancing component of the tumor. <i>Radiology</i> , 2014 , 272, 484-93	20.5	155
46	Imaging genomic mapping of an invasive MRI phenotype predicts patient outcome and metabolic dysfunction: a TCGA glioma phenotype research group project. <i>BMC Medical Genomics</i> , 2014 , 7, 30	3.7	51
45	Screening cervical spine CT in the emergency department, phase 3: increasing effectiveness of imaging. <i>Journal of the American College of Radiology</i> , 2014 , 11, 139-44	3.5	13
44	Improving imaging utilization through practice quality improvement (maintenance of certification part IV): a review of requirements and approach to implementation. <i>American Journal of Roentgenology</i> , 2014 , 202, 797-802	5.4	7
43	NCI Workshop Report: Clinical and Computational Requirements for Correlating Imaging Phenotypes with Genomics Signatures. <i>Translational Oncology</i> , 2014 , 7, 556-69	4.9	60
42	Differentiating shunt-responsive normal pressure hydrocephalus from Alzheimer disease and normal aging: pilot study using automated MRI brain tissue segmentation. <i>Journal of Neurology</i> , 2014 , 261, 1994-2002	5.5	25
41	Morphologic MRI features, diffusion tensor imaging and radiation dosimetric analysis to differentiate pseudo-progression from early tumor progression. <i>Journal of Neuro-Oncology</i> , 2013 , 112, 413-20	4.8	26
40	Prognostic vascular imaging biomarkers in high-grade gliomas: tumor permeability as an adjunct to blood volume estimates. <i>Academic Radiology</i> , 2013 , 20, 478-85	4.3	17
39	Effects of tyrosine kinase inhibitors and CXCR4 antagonist on tumor growth and angiogenesis in rat glioma model: MRI and protein analysis study. <i>Translational Oncology</i> , 2013 , 6, 660-9	4.9	34
38	Genomic mapping and survival prediction in glioblastoma: molecular subclassification strengthened by hemodynamic imaging biomarkers. <i>Radiology</i> , 2013 , 267, 212-20	20.5	109
37	Measurements of tumor vascular leakiness using DCE in brain tumors: clinical applications. <i>NMR in Biomedicine</i> , 2013 , 26, 1042-9	4.4	63
36	Early post-bevacizumab progression on contrast-enhanced MRI as a prognostic marker for overall survival in recurrent glioblastoma: results from the ACRIN 6677/RTOG 0625 Central Reader Study. <i>Neuro-Oncology</i> , 2013 , 15, 945-54	1	53
35	MR imaging predictors of molecular profile and survival: multi-institutional study of the TCGA glioblastoma data set. <i>Radiology</i> , 2013 , 267, 560-9	20.5	296
34	The Corpus Callosum Wallerian Degeneration in the Unilateral Brain Tumors: Evaluation with Diffusion Tensor Imaging (DTI). <i>Journal of Clinical and Diagnostic Research JCDR</i> , 2013 , 7, 320-5	0	10
33	Model selection for DCE-T1 studies in glioblastoma. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 241-51	4.4	60
32	Development of a novel animal model to differentiate radiation necrosis from tumor recurrence. <i>Journal of Neuro-Oncology</i> , 2012 , 108, 411-20	4.8	22
31	Apparent diffusion coefficient histogram analysis stratifies progression-free and overall survival in patients with recurrent GBM treated with bevacizumab: a multi-center study. <i>Journal of Neuro-Oncology</i> , 2012 , 108, 491-8	4.8	134
30	Blood-Brain-Barrier Imaging in Brain Tumors: Concepts and Methods. <i>Neurographics</i> , 2012 , 2, 48-59	0.4	5

29	Hyperpneumatization of the skull base: case report. <i>Neurosurgery</i> , 2012 , 70, E789-93; discussion E793-4	3.2	8
28	Correlation of immunohistologic and perfusion vascular parameters with MR contrast enhancement using image-guided biopsy specimens in gliomas. <i>Academic Radiology</i> , 2011 , 18, 955-62	4.3	15
27	Differentiating treatment-induced necrosis from recurrent/progressive brain tumor using nonmodel-based semiquantitative indices derived from dynamic contrast-enhanced T1-weighted MR perfusion. <i>Neuro-Oncology</i> , 2011 , 13, 1037-46	1	92
26	Tumor vascular leakiness and blood volume estimates in oligodendrogliomas using perfusion CT: an analysis of perfusion parameters helping further characterize genetic subtypes as well as differentiate from astroglial tumors. <i>Journal of Neuro-Oncology</i> , 2011 , 102, 287-93	4.8	25
25	Screening cervical spine CT in a level I trauma center: overutilization?. <i>American Journal of Roentgenology</i> , 2011 , 197, 463-7	5.4	34
24	Brain Tumor Angiogenesis and Glioma Grading: Role of Tumor Blood Volume and Permeability Estimates Using Perfusion CT 2011 , 81-91		
23	Penumbra, the basis of neuroimaging in acute stroke treatment: current evidence. <i>Journal of the Neurological Sciences</i> , 2010 , 288, 13-24	3.2	29
22	Can permeability measurements add to blood volume measurements in differentiating tumefactive demyelinating lesions from high grade gliomas using perfusion CT?. <i>Journal of Neuro-Oncology</i> , 2010 , 97, 383-8	4.8	17
21	The role of salvage reirradiation for malignant gliomas that progress on bevacizumab. <i>Journal of Neuro-Oncology</i> , 2010 , 97, 401-7	4.8	38
20	Imaging response criteria for recurrent gliomas treated with bevacizumab: role of diffusion weighted imaging as an imaging biomarker. <i>Journal of Neuro-Oncology</i> , 2010 , 96, 423-31	4.8	83
19	Rebound tumour progression after the cessation of bevacizumab therapy in patients with recurrent high-grade glioma. <i>Journal of Neuro-Oncology</i> , 2010 , 99, 237-42	4.8	66
18	Treatment induced necrosis versus recurrent/progressing brain tumor: going beyond the boundaries of conventional morphologic imaging. <i>Journal of Neuro-Oncology</i> , 2010 , 100, 17-29	4.8	42
17	Clinical, dosimetric, and radiographic correlation of radiation injury involving the brainstem and the medial temporal lobes following stereotactic radiotherapy for neoplasms of central skull base. <i>Journal of Neuro-Oncology</i> , 2010 , 98, 177-84	4.8	3
16	Radiosurgical decompression of metastatic epidural compression. <i>Cancer</i> , 2010 , 116, 2250-7	6.4	108
15	Predicting survival in glioblastomas using diffusion tensor imaging metrics. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 788-95	5.6	52
14	Initial experience with bevacizumab treatment for biopsy confirmed cerebral radiation necrosis. <i>Journal of Neuro-Oncology</i> , 2009 , 94, 63-8	4.8	151
13	Spinal cord pilomyxoid astrocytoma: an unusual tumor. <i>Journal of Neuroimaging</i> , 2007 , 17, 371-4	2.8	22
12	First-pass perfusion computed tomography: initial experience in differentiating recurrent brain tumors from radiation effects and radiation necrosis. <i>Neurosurgery</i> , 2007 , 61, 778-86; discussion 786-7	3.2	59

11	Direct Infiltration of Brainstem Glioma Along the Cranial Nerves. <i>Journal of Neuroimaging</i> , 2005 , 15, 197-199	4.4	8
10	Radiation-induced cavernomas of the brain. <i>American Journal of Neuroradiology</i> , 2005 , 26, 1158-62	4.4	90
9	Case 68: Hirayama disease. <i>Radiology</i> , 2004 , 230, 692-6	20.5	26
8	Case 67: Persistent stapedia artery. <i>Radiology</i> , 2004 , 230, 413-6	20.5	14
7	Cerebral perfusion CT: technique and clinical applications. <i>Radiology</i> , 2004 , 231, 632-44	20.5	277
6	Carotid perfusion CT with balloon occlusion and acetazolamide challenge test: feasibility. <i>Radiology</i> , 2004 , 231, 906-13	20.5	58
5	Management of patients with stunned myocardium associated with subarachnoid hemorrhage. <i>American Journal of Neuroradiology</i> , 2004 , 25, 126-9	4.4	56
4	Varicella-zoster vasculitis presenting with intracranial hemorrhage. <i>American Journal of Neuroradiology</i> , 2003 , 24, 971-4	4.4	27
3	Imaging findings associated with childhood primary intracranial squamous cell carcinoma. <i>American Journal of Neuroradiology</i> , 2003 , 24, 109-11	4.4	7
2	Intraspinal neurenteric cysts--report of three paediatric cases. <i>Childs Nervous System</i> , 2001 , 17, 584-8	1.7	43
1	Thalamic glioblastoma with cerebrospinal fluid dissemination in the peritoneal cavity. <i>Pediatric Neurosurgery</i> , 1999 , 31, 242-5	0.9	30