

Raymond Y Huang

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.

114
papers

4,620
citations

38
h-index

66
g-index

132
ext. papers

6,337
ext. citations

6.4
avg, IF

5.3
L-index

#	Paper	IF	Citations
114	An automated COVID-19 triage pipeline using artificial intelligence based on chest radiographs and clinical data.. <i>Npj Digital Medicine</i> , 2022 , 5, 5	15.7	3
113	Artificial intelligence for prediction of COVID-19 progression using CT imaging and clinical data. <i>European Radiology</i> , 2022 , 32, 205-212	8	9
112	Imaging Advances for Central Nervous System Tumors. <i>Hematology/Oncology Clinics of North America</i> , 2022 , 36, 43-61	3.1	0
111	Imaging diagnosis and treatment selection for brain tumors in the era of molecular therapeutics.. <i>Cancer Imaging</i> , 2022 , 22, 19	5.6	1
110	Biopsy Artifact in Laser Interstitial Thermal Therapy: A Technical Note. <i>Frontiers in Oncology</i> , 2021 , 11, 746416	5.3	0
109	NIMG-24. RANO CRITERIA DETECTS EARLY PROGRESSION SOONER THAN MODIFIED RANO CRITERIA IN PATIENTS WITH NEWLY DIAGNOSED GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2021 , 23, vi133-vi133 ¹		
108	Identification and Characterization of Leptomeningeal Metastases Using SPINE, A Web-Based Collaborative Platform. <i>Journal of Neuroimaging</i> , 2021 , 31, 324-333	2.8	1
107	Evaluation of a convolutional neural network for ovarian tumor differentiation based on magnetic resonance imaging. <i>European Radiology</i> , 2021 , 31, 4960-4971	8	5
106	The Incidence of Epstein-Barr Virus-Positive Diffuse Large B-Cell Lymphoma: A Systematic Review and Meta-Analysis. <i>Cancers</i> , 2021 , 13,	6.6	5
105	Activity of PD-1 blockade with Nivolumab among patients with recurrent atypical/anaplastic meningioma: Phase II trial results. <i>Neuro-Oncology</i> , 2021 ,	1	7
104	Loss of H3K27me3 in meningiomas. <i>Neuro-Oncology</i> , 2021 , 23, 1282-1291	1	7
103	Encephalopathy at admission predicts adverse outcomes in patients with SARS-CoV-2 infection. <i>CNS Neuroscience and Therapeutics</i> , 2021 , 27, 1127-1135	6.8	2
102	Deep Learning-Based Automatic Tumor Burden Assessment of Pediatric High-Grade Gliomas, Medulloblastomas, and Other Leptomeningeal Seeding Tumors. <i>Neuro-Oncology</i> , 2021 ,	1	4
101	Immune checkpoint inhibitor therapy may increase the incidence of treatment-related necrosis after stereotactic radiosurgery for brain metastases: a systematic review and meta-analysis. <i>European Radiology</i> , 2021 , 31, 4114-4129	8	3
100	Diagnostic Yield of Body CT and Whole-Body FDG PET/CT for Initial Systemic Staging in Patients With Suspected Primary CNS Lymphoma: A Systematic Review and Meta-Analysis. <i>American Journal of Roentgenology</i> , 2021 , 216, 1172-1182	5.4	4
99	Analysis of morphological characteristics of IDH-mutant/wildtype brain tumors using whole-lesion phenotype analysis. <i>Neuro-Oncology Advances</i> , 2021 , 3, vdab088	0.9	1
98	The T2-FLAIR mismatch sign as a predictor of IDH-mutant, 1p/19q-noncodeleted lower-grade gliomas: a systematic review and diagnostic meta-analysis. <i>European Radiology</i> , 2021 , 31, 5289-5299	8	6

97	Immune Checkpoint Inhibitor with or without Radiotherapy in Melanoma Patients with Brain Metastases: A Systematic Review and Meta-Analysis. <i>Korean Journal of Radiology</i> , 2021 , 22, 584-595	6.9	5
96	Development of Brain Metastases in Patients With Non-Small Cell Lung Cancer and No Brain Metastases at Initial Staging Evaluation: Cumulative Incidence and Risk Factor Analysis. <i>American Journal of Roentgenology</i> , 2021 , 217, 1184-1193	5.4	1
95	Ivosidenib in Isocitrate Dehydrogenase 1 Mutated Advanced Glioma. <i>Journal of Clinical Oncology</i> , 2020 , 38, 3398-3406	2.2	65
94	Deep Learning Based on MRI for Differentiation of Low- and High-Grade in Low-Stage Renal Cell Carcinoma. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 1542-1549	5.6	8
93	Evaluation of RAPNO criteria in medulloblastoma and other leptomeningeal seeding tumors using MRI and clinical data. <i>Neuro-Oncology</i> , 2020 , 22, 1536-1544	1	7
92	Consensus recommendations for a standardized brain tumor imaging protocol for clinical trials in brain metastases. <i>Neuro-Oncology</i> , 2020 , 22, 757-772	1	45
91	Deep Learning to Distinguish Benign from Malignant Renal Lesions Based on Routine MR Imaging. <i>Clinical Cancer Research</i> , 2020 , 26, 1944-1952	12.9	29
90	CerebroVis: Designing an Abstract yet Spatially Contextualized Cerebral Artery Network Visualization. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2020 , 26, 938-948	4	3
89	Glioblastoma in adults: a Society for Neuro-Oncology (SNO) and European Society of Neuro-Oncology (EANO) consensus review on current management and future directions. <i>Neuro-Oncology</i> , 2020 , 22, 1073-1113	1	178
88	Volumetric analysis of IDH-mutant lower-grade glioma: a natural history study of tumor growth rates before and after treatment. <i>Neuro-Oncology</i> , 2020 , 22, 1822-1830	1	6
87	Artificial Intelligence Augmentation of Radiologist Performance in Distinguishing COVID-19 from Pneumonia of Other Origin at Chest CT. <i>Radiology</i> , 2020 , 296, E156-E165	20.5	187
86	BIOM-34. CLINICAL, RADIOGRAPHIC, AND PATHOLOGIC PREDICTORS OF RESPONSE TO ANTI-PD-1 AND ANTI-PD-L1 THERAPY IN IDH-WILDTYPE GLIOBLASTOMA PATIENTS. <i>Neuro-Oncology</i> , 2020 , 22, ii8-ii9	1	
85	Indications and Limitations of Conventional Imaging in Current Clinical Practice in the Context of Standard Therapy 2020 , 1-15		0
84	BIOM-44. GENOMIC PREDICTORS OF ADVERSE EVENTS IN NEWLY DIAGNOSED IDH-WILDTYPE GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2020 , 22, ii11-ii11	1	1
83	Standardization of imaging methods for machine learning in neuro-oncology. <i>Neuro-Oncology Advances</i> , 2020 , 2, iv49-iv55	0.9	2
82	Frequency and Evolution of New Postoperative Enhancement on 3 Tesla Intraoperative and Early Postoperative Magnetic Resonance Imaging. <i>Neurosurgery</i> , 2020 , 87, 238-246	3.2	1
81	Non-invasive diagnosis of H3 K27M mutant midline glioma. <i>Neuro-Oncology</i> , 2020 , 22, 309-310	1	2
80	Imaging of Central Nervous System Tumors Based on the 2016 World Health Organization Classification. <i>Neurologic Clinics</i> , 2020 , 38, 95-113	4.5	10

79	Target-specific yield rate and clinical utility of percutaneous tissue sampling in spinal infection. <i>Clinical Imaging</i> , 2020 , 68, 257-262	2.7	2
78	Automatic Machine Learning to Differentiate Pediatric Posterior Fossa Tumors on Routine MR Imaging. <i>American Journal of Neuroradiology</i> , 2020 , 41, 1279-1285	4.4	17
77	Differentiation of low and high grade renal cell carcinoma on routine MRI with an externally validated automatic machine learning algorithm. <i>Scientific Reports</i> , 2020 , 10, 19503	4.9	3
76	Response to Letter to Editor. <i>Neuro-Oncology</i> , 2020 , 22, 1706-1707	1	1
75	Diagnostic Yield of Staging Brain MRI in Patients with Newly Diagnosed Non-Small Cell Lung Cancer. <i>Radiology</i> , 2020 , 297, 419-427	20.5	10
74	Intra- and Intersubspecialty Variability in Lumbar Spine MRI Interpretation: A Multireader Study Comparing Musculoskeletal Radiologists and Neuroradiologists. <i>Current Problems in Diagnostic Radiology</i> , 2020 , 49, 182-187	1.6	4
73	Mechanisms and therapeutic implications of hypermutation in gliomas. <i>Nature</i> , 2020 , 580, 517-523	50.4	172
72	Machine learning reveals multimodal MRI patterns predictive of isocitrate dehydrogenase and 1p/19q status in diffuse low- and high-grade gliomas. <i>Journal of Neuro-Oncology</i> , 2019 , 142, 299-307	4.8	59
71	Adjuvant radiotherapy and chemotherapy in early-stage diffuse large B cell lymphoma of head and neck with extranodal involvement. <i>Hematology</i> , 2019 , 24, 268-275	2.2	2
70	Advances in multidisciplinary therapy for meningiomas. <i>Neuro-Oncology</i> , 2019 , 21, i18-i31	1	44
69	DNA methylation profiling to predict recurrence risk in meningioma: development and validation of a nomogram to optimize clinical management. <i>Neuro-Oncology</i> , 2019 , 21, 901-910	1	79
68	Automatic assessment of glioma burden: a deep learning algorithm for fully automated volumetric and bidimensional measurement. <i>Neuro-Oncology</i> , 2019 , 21, 1412-1422	1	76
67	A low percentage of metastases in deep brain and temporal lobe structures. <i>Neuro-Oncology</i> , 2019 , 21, 640-647	1	5
66	Artificial intelligence in cancer imaging: Clinical challenges and applications. <i>Ca-A Cancer Journal for Clinicians</i> , 2019 , 69, 127-157	220.7	319
65	Response assessment of meningioma: 1D, 2D, and volumetric criteria for treatment response and tumor progression. <i>Neuro-Oncology</i> , 2019 , 21, 234-241	1	8
64	Proposed response assessment and endpoints for meningioma clinical trials: report from the Response Assessment in Neuro-Oncology Working Group. <i>Neuro-Oncology</i> , 2019 , 21, 26-36	1	54
63	Survival Benefit of Adjuvant Radiotherapy in Elderly Patients with WHO Grade III Meningioma. <i>World Neurosurgery</i> , 2019 , 131, e303-e311	2.1	6
62	The effect of brain metastasis location on clinical outcomes: A review of the literature. <i>Neuro-Oncology Advances</i> , 2019 , 1, vdz017	0.9	4

61	DRES-08. CLINICAL SIGNIFICANCE OF HYPERMUTATION IN GLIOMAS. <i>Neuro-Oncology</i> , 2019 , 21, vi73-vi73		78
60	NIMG-43. LONGITUDINAL TRACKING AND GROWTH RATE CHARACTERIZATION OF BRAIN METASTASES ON MAGNETIC RESONANCE IMAGING. <i>Neuro-Oncology</i> , 2019 , 21, vi170-vi171	1	78
59	Teaching NeuroImages: Corkscrew medullary veins in active neurosarcoidosis. <i>Neurology</i> , 2019 , 93, e1830-e1833		
58	MR Imaging of the Extracranial Facial Nerve with the CISS Sequence. <i>American Journal of Neuroradiology</i> , 2019 , 40, 1954-1959	4.4	5
57	CT-Guided Percutaneous Spine Biopsy Specimen Adequacy, Pathology Concordance, and Negative Predictive Value with Battery-Powered Drill and Manual Approaches. <i>Current Problems in Diagnostic Radiology</i> , 2019 , 48, 558-562	1.6	3
56	Comparison of Radiation Therapy Alone and Chemotherapy Alone for Low-Grade Gliomas without Surgical Resection. <i>World Neurosurgery</i> , 2019 , 122, e108-e120	2.1	4
55	Life after surgical resection of a meningioma: a prospective cross-sectional study evaluating health-related quality of life. <i>Neuro-Oncology</i> , 2019 , 21, i32-i43	1	33
54	Functional MRI Task Comparison for Language Mapping in Neurosurgical Patients. <i>Journal of Neuroimaging</i> , 2019 , 29, 348-356	2.8	19
53	Imaging and diagnostic advances for intracranial meningiomas. <i>Neuro-Oncology</i> , 2019 , 21, i44-i61	1	55
52	Molecular and translational advances in meningiomas. <i>Neuro-Oncology</i> , 2019 , 21, i4-i17	1	46
51	Imaging in neuro-oncology. <i>Therapeutic Advances in Neurological Disorders</i> , 2018 , 11, 1756286418759865.6	5.6	30
50	Validation of postoperative residual contrast-enhancing tumor volume as an independent prognostic factor for overall survival in newly diagnosed glioblastoma. <i>Neuro-Oncology</i> , 2018 , 20, 1240-1250	1.5	39
49	Comparison of Adjuvant Radiation Therapy Alone and Chemotherapy Alone in Surgically Resected Low-Grade Gliomas: Survival Analyses of 2253 Cases from the National Cancer Data Base. <i>World Neurosurgery</i> , 2018 , 112, e812-e822	2.1	16
48	Diagnostic accuracy of 2-hydroxyglutarate magnetic resonance spectroscopy in newly diagnosed brain mass and suspected recurrent gliomas. <i>Neuro-Oncology</i> , 2018 , 20, 1262-1271	1	18
47	The FDA NIH Biomarkers, EndpointS, and other Tools (BEST) resource in neuro-oncology. <i>Neuro-Oncology</i> , 2018 , 20, 1162-1172	1	38
46	Imaging Neurologic Manifestations of Oncologic Disease 2018 , 13-31		
45	CT and MRI Protocol Variation and Optimization at an Academic Medical Center. <i>Journal of the American College of Radiology</i> , 2018 , 15, 1254-1258	3.5	7
44	Assessment of care pattern and outcome in hemangioblastoma. <i>Scientific Reports</i> , 2018 , 8, 11144	4.9	5

43	Prognostic Factors in Clival Chordomas: An Integrated Analysis of 347 Patients. <i>World Neurosurgery</i> , 2018 , 118, e375-e387	2.1	12
42	Radiologic predictors of immune checkpoint inhibitor response in advanced head and neck squamous cell carcinoma. <i>Oral Oncology</i> , 2018 , 85, 29-34	4.4	12
41	Reduced expression of DNA repair genes and chemosensitivity in 1p19q codeleted lower-grade gliomas. <i>Journal of Neuro-Oncology</i> , 2018 , 139, 563-571	4.8	12
40	Residual Convolutional Neural Network for the Determination of Status in Low- and High-Grade Gliomas from MR Imaging. <i>Clinical Cancer Research</i> , 2018 , 24, 1073-1081	12.9	189
39	PATH-08. THE IVY GLIOBLASTOMA PATIENT ATLAS - A NOVEL CLINICAL AND RADIO-GENOMICS RESOURCE FOR EARLY PHASE CLINICAL TRIAL DESIGN AND INTERPRETATION. <i>Neuro-Oncology</i> , 2018 , 20, vi159-vi159	1	78
38	Shape Features of the Lesion Habitat to Differentiate Brain Tumor Progression from Pseudoprogression on Routine Multiparametric MRI: A Multisite Study. <i>American Journal of Neuroradiology</i> , 2018 , 39, 2187-2193	4.4	38
37	NIMG-54. SPATIAL DISTRIBUTION ATLASSES OF POST-TREATMENT MRI SCANS REVEAL DISTINCT HEMISPHERIC DISTRIBUTION OF GLIOBLASTOMA RECURRENCE FROM PSEUDO-PROGRESSION. <i>Neuro-Oncology</i> , 2018 , 20, vi188-vi188	1	78
36	Voxel-Wise Analysis of Fluoroethyltyrosine PET and MRI in the Assessment of Recurrent Glioblastoma During Antiangiogenic Therapy. <i>American Journal of Roentgenology</i> , 2018 , 211, 1342-1347	5.4	5
35	PD-1 inhibition has only limited clinical benefit in patients with recurrent high-grade glioma. <i>Neurology</i> , 2018 , 91, e1355-e1359	6.5	37
34	Multimodal MRI features predict isocitrate dehydrogenase genotype in high-grade gliomas. <i>Neuro-Oncology</i> , 2017 , 19, 109-117	1	162
33	Quantitative imaging biomarkers for risk stratification of patients with recurrent glioblastoma treated with bevacizumab. <i>Neuro-Oncology</i> , 2017 , 19, 1688-1697	1	68
32	An Update on the Approach to the Imaging of Brain Tumors. <i>Current Neurology and Neuroscience Reports</i> , 2017 , 17, 53	6.6	10
31	Response assessment in high-grade glioma: tumor volume as endpoint. <i>Neuro-Oncology</i> , 2017 , 19, 744-745		4
30	MNGI-10. SURVIVAL BENEFIT ASSOCIATED WITH ADJUVANT RADIOTHERAPY IN ELDERLY PATIENTS WITH WHO GRADE III MENINGIOMA. <i>Neuro-Oncology</i> , 2017 , 19, vi134-vi134	1	78
29	Diffusion MRI Phenotypes Predict Overall Survival Benefit from Anti-VEGF Monotherapy in Recurrent Glioblastoma: Converging Evidence from Phase II Trials. <i>Clinical Cancer Research</i> , 2017 , 23, 5745-5756	12.9	44
28	Radiographic prediction of meningioma grade by semantic and radiomic features. <i>PLoS ONE</i> , 2017 , 12, e0187908	3.7	66
27	Radiographic Prediction of Meningioma Grade and Genomic Profile. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2017 , 78, S1-S156	1.5	1
26	Response Assessment in Neuro-Oncology Criteria and Clinical Endpoints. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2016 , 24, 705-718	1.6	16

25	The Impact of T2/FLAIR Evaluation per RANO Criteria on Response Assessment of Recurrent Glioblastoma Patients Treated with Bevacizumab. <i>Clinical Cancer Research</i> , 2016 , 22, 575-81	12.9	47
24	Multimodal imaging patterns predict survival in recurrent glioblastoma patients treated with bevacizumab. <i>Neuro-Oncology</i> , 2016 , 18, 1680-1687	1	56
23	Case Report: Next generation sequencing identifies a NAB2-STAT6 fusion in Glioblastoma. <i>Diagnostic Pathology</i> , 2016 , 11, 13	3	8
22	How treatment monitoring is influencing treatment decisions in glioblastomas. <i>Current Treatment Options in Neurology</i> , 2015 , 17, 343	4.4	12
21	The Benefits of High Relaxivity for Brain Tumor Imaging: Results of a Multicenter Intraindividual Crossover Comparison of Gadobenate Dimeglumine with Gadoterate Meglumine (The BENEFIT Study). <i>American Journal of Neuroradiology</i> , 2015 , 36, 1589-98	4.4	18
20	Immunotherapy response assessment in neuro-oncology: a report of the RANO working group. <i>Lancet Oncology</i> , 2015 , 16, e534-e542	21.7	425
19	Early postoperative imaging and image-guided procedures on patients with face transplants. <i>American Journal of Neuroradiology</i> , 2015 , 36, 568-74	4.4	6
18	Pitfalls in the neuroimaging of glioblastoma in the era of antiangiogenic and immuno/targeted therapy - detecting illusive disease, defining response. <i>Frontiers in Neurology</i> , 2015 , 6, 33	4.1	115
17	Retrospective study of carmustine or lomustine with bevacizumab in recurrent glioblastoma patients who have failed prior bevacizumab. <i>Neuro-Oncology</i> , 2014 , 16, 1523-9	1	19
16	Histogram analysis of apparent diffusion coefficient within enhancing and nonenhancing tumor volumes in recurrent glioblastoma patients treated with bevacizumab. <i>Journal of Neuro-Oncology</i> , 2014 , 119, 149-58	4.8	40
15	Defining language networks from resting-state fMRI for surgical planning--a feasibility study. <i>Human Brain Mapping</i> , 2014 , 35, 1018-30	5.9	140
14	Effect of region-of-interest placement in bolus tracking cerebral computed tomography angiography. <i>Neuroradiology</i> , 2013 , 55, 1183-8	3.2	2
13	Recurrent high-grade glioma treated with bevacizumab: prognostic value of MGMT methylation, EGFR status and pretreatment MRI in determining response and survival. <i>Journal of Neuro-Oncology</i> , 2013 , 115, 267-76	4.8	27
12	Effect of disease and recovery on functional anatomy in brain tumor patients: insights from functional MRI and diffusion tensor imaging. <i>Imaging in Medicine</i> , 2013 , 5, 333-346	1	13
11	Recurrent glioblastoma: volumetric assessment and stratification of patient survival with early posttreatment magnetic resonance imaging in patients treated with bevacizumab. <i>Cancer</i> , 2013 , 119, 3479-88	6.4	25
10	Recurrent glioblastoma: Stratification of patient survival using tumor volume before and after antiangiogenic treatment.. <i>Journal of Clinical Oncology</i> , 2013 , 31, 2075-2075	2.2	2
9	Semi-automatic segmentation software for quantitative clinical brain glioblastoma evaluation. <i>Academic Radiology</i> , 2012 , 19, 977-85	4.3	30
8	Diagnosis and treatment of a perforated duodenal diverticulum. <i>Emergency Radiology</i> , 2007 , 13, 285-7	3	10

7	Metalloproteomics: high-throughput structural and functional annotation of proteins in structural genomics. <i>Structure</i> , 2005 , 13, 1473-86	5.2	70
6	<i>C. elegans</i> ORFeome version 1.1: experimental verification of the genome annotation and resource for proteome-scale protein expression. <i>Nature Genetics</i> , 2003 , 34, 35-41	36.3	310
5	High-throughput expression, purification, and characterization of recombinant <i>Caenorhabditis elegans</i> proteins. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 307, 928-34	3.4	21
4	In situ chemistry of osteoporosis revealed by synchrotron infrared microspectroscopy. <i>Bone</i> , 2003 , 33, 514-21	4.7	65
3	Center for Synchrotron BiosciencesTU2B beamline: an international resource for biological infrared spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2002 , 9, 189-97	2.4	70
2	Structural genomics: a pipeline for providing structures for the biologist. <i>Protein Science</i> , 2002 , 11, 723-38	3.3	153
1	Characterization of bone mineral composition in the proximal tibia of cynomolgus monkeys: effect of ovariectomy and nandrolone decanoate treatment. <i>Bone</i> , 2002 , 30, 492-7	4.7	62