

# Hui-Kuo G Shu

## List of Publications by Year in descending order

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110  
papers

5,168  
citations

136740

32  
h-index

88477

70  
g-index

112  
all docs

112  
docs citations

112  
times ranked

7240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutamine Imaging: A New Avenue for Glioma Management. <i>American Journal of Neuroradiology</i> , 2022, 43, 11-18.	1.2	17
2	A multi-institutional pilot clinical trial of spectroscopic MRI-guided radiation dose escalation for newly diagnosed glioblastoma. <i>Neuro-Oncology Advances</i> , 2022, 4, vdac006.	0.4	14
3	Race, Ethnicity, and Sex Among Senior Faculty in Radiation Oncology From 2000 to 2019. <i>JAMA Network Open</i> , 2022, 5, e2142720.	2.8	7
4	Cascaded mutual enhancing networks for brain tumor subregion segmentation in multiparametric MRI. <i>Physics in Medicine and Biology</i> , 2022, 67, 085015.	1.6	5
5	Automatic inverse treatment planning of Gamma Knife radiosurgery via deep reinforcement learning. <i>Medical Physics</i> , 2022, 49, 2877-2889.	1.6	2
6	Final Report on Clinical Outcomes and Tumor Recurrence Patterns of a Pilot Study Assessing Efficacy of Belinostat (PXD-101) with Chemoradiation for Newly Diagnosed Glioblastoma. <i>Tomography</i> , 2022, 8, 688-700.	0.8	8
7	Modern Linear Accelerator-Based Radiotherapy Is Safe and Effective in the Treatment of Secretory and Nonsecretory Pituitary Adenomas. <i>World Neurosurgery</i> , 2022, 160, e33-e39.	0.7	1
8	Osteoradionecrosis of the craniotomy flap: a rare complication of stereotactic radiosurgery. <i>Oxford Medical Case Reports</i> , 2022, 2022, omac032.	0.2	0
9	MRI classification using semantic random forest with auto-context model. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 4753-4766.	1.1	1
10	Co-Occurrence Conundrum: Brain Metastases from Lung Adenocarcinoma, Radiation Necrosis, and Gliosarcoma. <i>Case Reports in Oncology</i> , 2021, 14, 487-492.	0.3	2
11	3D whole-brain metabolite imaging to improve characterization of low-to-intermediate grade gliomas. <i>Journal of Neuro-Oncology</i> , 2021, 153, 303-311.	1.4	6
12	Dosimetric Factors Related to Radiation Necrosis After 5-Fraction Radiosurgery for Patients With Resected Brain Metastases. <i>Practical Radiation Oncology</i> , 2020, 10, 36-43.	1.1	14
13	Reduced volume tumor bed boost is not associated with inferior local control and survival outcomes in high-risk medulloblastoma. <i>Pediatric Blood and Cancer</i> , 2020, 67, e28027.	0.8	3
14	Characterization of dysregulated glutamine metabolism in human glioma tissue with 1H NMR. <i>Scientific Reports</i> , 2020, 10, 20435.	1.6	16
15	Remarkable response of a patient with secondary glioblastoma to a histone deacetylase inhibitor. <i>Oxford Medical Case Reports</i> , 2020, 2020, omaa006.	0.2	8
16	Moderately Hypofractionated Radiation for Benign Meningiomas and Schwannomas: A Report of 70 Patients Treated Between 2008 and 2018. <i>Advances in Radiation Oncology</i> , 2020, 5, 1147-1151.	0.6	1
17	Outcomes of whole-brain radiation with simultaneous in-field boost (SIB) for the treatment of brain metastases. <i>Journal of Neuro-Oncology</i> , 2020, 147, 117-123.	1.4	7
18	Optimal timing of chemoradiotherapy after surgical resection of glioblastoma: Stratification by validated prognostic classification. <i>Cancer</i> , 2020, 126, 3255-3264.	2.0	19

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19	Genomic copy number variation correlates with survival outcomes in WHO grade IV glioma. <i>Scientific Reports</i> , 2020, 10, 7355.	1.6	6
20	The Longitudinal Imaging Tracker (BrICS-LIT): A Cloud Platform for Monitoring Treatment Response in Glioblastoma Patients. <i>Tomography</i> , 2020, 6, 93-100.	0.8	8
21	MRI-based treatment planning for brain stereotactic radiosurgery: Dosimetric validation of a learning-based pseudo-CT generation method. <i>Medical Dosimetry</i> , 2019, 44, 199-204.	0.4	51
22	MRI-only based synthetic CT generation using dense cycle consistent generative adversarial networks. <i>Medical Physics</i> , 2019, 46, 3565-3581.	1.6	181
23	The Brain Imaging Collaboration Suite (BrICS): A Cloud Platform for Integrating Whole-Brain Spectroscopic MRI into the Radiation Therapy Planning Workflow. <i>Tomography</i> , 2019, 5, 184-191.	0.8	34
24	Learning-based automatic segmentation of arteriovenous malformations on contrast CT images in brain stereotactic radiosurgery. <i>Medical Physics</i> , 2019, 46, 3133-3141.	1.6	39
25	Dosimetric study on learning-based cone-beam CT correction in adaptive radiation therapy. <i>Medical Dosimetry</i> , 2019, 44, e71-e79.	0.4	20
26	MRI-based synthetic CT generation using semantic random forest with iterative refinement. <i>Physics in Medicine and Biology</i> , 2019, 64, 085001.	1.6	31
27	Glioblastoma with brainstem leptomeningeal pseudoprogression following radiation therapy. <i>Radiology Case Reports</i> , 2019, 14, 613-617.	0.2	3
28	The Role of Standard and Advanced Imaging for the Management of Brain Malignancies From a Radiation Oncology Standpoint. <i>Neurosurgery</i> , 2019, 85, 165-179.	0.6	6
29	Fractionated Radiotherapy Is Associated with Lower Rates of Treatment-Related Edema than Stereotactic Radiosurgery in Magnetic Resonance Imaging-Defined Meningiomas. <i>World Neurosurgery</i> , 2019, 121, e640-e646.	0.7	13
30	Institutional Implementation of a Structured Reporting System: Our Experience with the Brain Tumor Reporting and Data System. <i>Academic Radiology</i> , 2019, 26, 974-980.	1.3	23
31	Hemorrhagic and Cystic Brain Metastases Are Associated With an Increased Risk of Leptomeningeal Dissemination After Surgical Resection and Adjuvant Stereotactic Radiosurgery. <i>Neurosurgery</i> , 2019, 85, 632-641.	0.6	25
32	Does size matter? Investigating the optimal planning target volume margin for postoperative stereotactic radiosurgery to resected brain metastases. <i>Journal of Neurosurgery</i> , 2019, 130, 797-803.	0.9	43
33	Deep learning-based image quality improvement for low-dose computed tomography simulation in radiation therapy. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	0.8	23
34	MRI-based synthetic CT generation using deep convolutional neural network. , 2019, , .		8
35	MRI-Based Proton Treatment Planning for Base of Skull Tumors. <i>International Journal of Particle Therapy</i> , 2019, 6, 12-25.	0.9	24
36	Assessing Treatment Response of Glioblastoma to an HDAC Inhibitor Using Whole-Brain Spectroscopic MRI. <i>Tomography</i> , 2019, 5, 53-60.	0.8	23

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37	MRI-based pseudo CT generation using classification and regression random forest. , 2019, , .		0
38	Brain MRI classification based on machine learning framework with auto-context model. , 2019, , .		0
39	Management-Based Structured Reporting of Posttreatment Glioma Response With the BrainÂTumor Reporting and Data System. Journal of the American College of Radiology, 2018, 15, 767-771.	0.9	34
40	Is less more? Comparing chemotherapy alone with chemotherapy and radiation for highâ€risk grade 2 glioma: An analysis of the National Cancer Data Base. Cancer, 2018, 124, 1169-1178.	2.0	33
41	External validity of two nomograms for predicting distant brain failure after radiosurgery for brain metastases in a bi-institutional independent patient cohort. Journal of Neuro-Oncology, 2018, 137, 147-154.	1.4	3
42	The role of erlotinib and the Optune device in a patient with an epidermal growth factor receptor viii amplified glioblastoma. Oxford Medical Case Reports, 2018, 2018, omy095.	0.2	2
43	PATH-10. COPY NUMBER (CN)/SINGLE NUCLEOTIDE POLYMORPHISM (SNP) MICROARRAY ANALYSIS OF THE EGFR LOCUS IN GLIOSARCOMA. Neuro-Oncology, 2018, 20, vi160-vi160.	0.6	0
44	RTHP-29. A FEASIBILITY STUDY OF RADIATION THERAPY DOSE ESCALATION GUIDED BY SPECTROSCOPIC MRI IN PATIENTS WITH GLIOBLASTOMA. Neuro-Oncology, 2018, 20, vi231-vi231.	0.6	2
45	CMET-01. CLINICAL AND DOSIMETRIC FACTORS RELATED TO RADIATION NECROSIS AFTER FIVE FRACTION RADIOSURGERY FOR RESECTED BRAIN METASTASES. Neuro-Oncology, 2018, 20, vi54-vi54.	0.6	0
46	The Use of Quantitative Imaging in Radiation Oncology: A Quantitative Imaging Network (QIN) Perspective. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1219-1235.	0.4	30
47	Post-treatment neutrophil-to-lymphocyte ratio predicts for overall survival in brain metastases treated with stereotactic radiosurgery. Journal of Neuro-Oncology, 2018, 139, 689-697.	1.4	37
48	Radiation Oncology Review Series. Neurosurgery, 2018, 82, 592-594.	0.6	0
49	The use of Hypofractionated Radiosurgery for the Treatment of Intracranial Lesions Unsuitable for Single-Fraction Radiosurgery. Neurosurgery, 2018, 83, 850-857.	0.6	10
50	Targeted sequencing and intracranial outcomes of patients with lung adenocarcinoma brain metastases treated with radiotherapy. Cancer, 2018, 124, 3586-3595.	2.0	5
51	Magnetic resonance imaging-based pseudo computed tomography using anatomic signature and joint dictionary learning. Journal of Medical Imaging, 2018, 5, 1.	0.8	15
52	MRI-based pseudo CT synthesis using anatomical signature and alternating random forest with iterative refinement model. Journal of Medical Imaging, 2018, 5, 1.	0.8	33
53	Pseudo CT estimation from MRI using patch-based random forest. Proceedings of SPIE, 2017, 10133, .	0.8	24
54	Single-Fraction Stereotactic Radiosurgery (SRS) Alone Versus Surgical Resection and SRS for Large Brain Metastases: A Multi-institutional Analysis. International Journal of Radiation Oncology Biology Physics, 2017, 99, 459-467.	0.4	83

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55	Attitudes of radiation oncologists toward palliative and supportive care in the United States: Report on national membership survey by the American Society for Radiation Oncology (ASTRO). <i>Practical Radiation Oncology</i> , 2017, 7, 113-119.	1.1	36
56	Cyclooxygenase-2 Induction by Amino Acid Deprivation Requires p38 Mitogen-Activated Protein Kinase in Human Glioma Cells. <i>Cancer Investigation</i> , 2017, 35, 237-247.	0.6	6
57	External Validity of a Risk Stratification Score Predicting Early Distant Brain Failure and Salvage Whole Brain Radiation Therapy After Stereotactic Radiosurgery for Brain Metastases. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 98, 632-638.	0.4	4
58	Comparing pre-operative stereotactic radiosurgery (SRS) to post-operative whole brain radiation therapy (WBRT) for resectable brain metastases: a multi-institutional analysis. <i>Journal of Neuro-Oncology</i> , 2017, 131, 611-618.	1.4	70
59	Progesterone improves neurocognitive outcomes following therapeutic cranial irradiation in mice. <i>Hormones and Behavior</i> , 2017, 96, 21-30.	1.0	11
60	Postoperative stereotactic radiosurgery for resected brain metastases: A comparison of outcomes for large resection cavities. <i>Practical Radiation Oncology</i> , 2017, 7, e419-e425.	1.1	11
61	EXTH-73. MUTANT ISOCITRATE DEHYDROGENASE EXPRESSION CORRELATES WITH SENSITIVITY TO THE HISTONE DEACETYLASE INHIBITOR BELINOSTAT POTENTIALLY THROUGH INCREASED APOPTOSIS. <i>Neuro-Oncology</i> , 2017, 19, vi89-vi89.	0.6	0
62	Comparing Preoperative With Postoperative Stereotactic Radiosurgery for Resectable Brain Metastases. <i>Neurosurgery</i> , 2016, 79, 279-285.	0.6	169
63	GPRC5A suppresses protein synthesis at the endoplasmic reticulum to prevent radiation-induced lung tumorigenesis. <i>Nature Communications</i> , 2016, 7, 11795.	5.8	24
64	Semi-Automated Volumetric and Morphological Assessment of Glioblastoma Resection with Fluorescence-Guided Surgery. <i>Molecular Imaging and Biology</i> , 2016, 18, 454-462.	1.3	28
65	Whole-brain spectroscopic MRI biomarkers identify infiltrating margins in glioblastoma patients. <i>Neuro-Oncology</i> , 2016, 18, 1180-1189.	0.6	94
66	A Systematic Pipeline for the Objective Comparison of Whole-Brain Spectroscopic MRI with Histology in Biopsy Specimens from Grade 3 Glioma. <i>Tomography</i> , 2016, 2, 106-116.	0.8	14
67	Simulating the Effect of Spectroscopic MRI as a Metric for Radiation Therapy Planning in Patients with Glioblastoma. <i>Tomography</i> , 2016, 2, 366-373.	0.8	23
68	Automated population-based planning for whole brain radiation therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 76-86.	0.8	7
69	SURG-11 THE IMPACT OF PRE-OPERATIVE TUMOR FEATURES ON RESECTION AND SURVIVAL OUTCOMES IN GLIOBLASTOMA: A PHASE II FLUORESCENCE-GUIDED SURGERY STUDY. <i>Neuro-Oncology</i> , 2015, 17, v216.3-v216.	0.6	0
70	Novel risk stratification score for predicting early distant brain failure and salvage whole-brain radiotherapy after stereotactic radiosurgery for brain metastases. <i>Cancer</i> , 2015, 121, 3836-3843.	2.0	23
71	Bevacizumab-induced hypertension is a predictive marker for improved outcomes in patients with recurrent glioblastoma treated with bevacizumab. <i>Cancer</i> , 2015, 121, 1456-1462.	2.0	34
72	Hypofractionated radiosurgery has a better safety profile than single fraction radiosurgery for large resected brain metastases. <i>Journal of Neuro-Oncology</i> , 2015, 123, 103-111.	1.4	73

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73	Repeat Whole Brain Radiation Therapy with a Simultaneous Infield Boost: A Novel Technique for Reirradiation. <i>Journal of Radiotherapy</i> , 2014, 2014, 1-8.	0.2	0
74	COX-2 overexpression increases malignant potential of human glioma cells through Id1. <i>Oncotarget</i> , 2014, 5, 1241-1252.	0.8	47
75	Intracranial control and radiographic changes with adjuvant radiation therapy for resected brain metastases: whole brain radiotherapy versus stereotactic radiosurgery alone. <i>Journal of Neuro-Oncology</i> , 2014, 120, 657-663.	1.4	67
76	Immunohistochemical Demonstration of Isocitrate Dehydrogenase 1 (IDH1) Mutation in a Small Subset of Prostatic Carcinomas. <i>Applied Immunohistochemistry and Molecular Morphology</i> , 2014, 22, 284-287.	0.6	12
77	Improved hippocampal dose with reduced margin radiotherapy for glioblastoma multiforme. <i>Radiation Oncology</i> , 2014, 9, 20.	1.2	14
78	Current approaches to the treatment of metastatic brain tumours. <i>Nature Reviews Clinical Oncology</i> , 2014, 11, 203-222.	12.5	233
79	Patterns of presentation and failure in patients with gliomatosis cerebri treated with partial brain radiation therapy. <i>Cancer</i> , 2014, 120, 2713-2720.	2.0	6
80	Quantitative Tumor Segmentation for Evaluation of Extent of Glioblastoma Resection to Facilitate Multisite Clinical Trials. <i>Translational Oncology</i> , 2014, 7, 40-W5.	1.7	27
81	Outcomes and Patterns of Failure for Grade 2 Meningioma Treated With Reduced-Margin Intensity Modulated Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 1004-1010.	0.4	20
82	SU-EJ-139: Fuzzy Clustering Segmentation of Glioblastoma in T1-MRI Imaging for Clinical Trials. <i>Medical Physics</i> , 2014, 41, 188-188.	1.6	1
83	Hypofractionated radiosurgery for intact or resected brain metastases: defining the optimal dose and fractionation. <i>Radiation Oncology</i> , 2013, 8, 135.	1.2	70
84	Clinical outcomes for a novel 6 degrees of freedom image guided localization method for frameless radiosurgery for intracranial brain metastases. <i>Journal of Neuro-Oncology</i> , 2013, 113, 93-99.	1.4	19
85	Opposing Effect of EGFRWT on EGFRVIII-Mediated NF- $\kappa$ B Activation with RIP1 as a Cell Death Switch. <i>Cell Reports</i> , 2013, 4, 764-775.	2.9	38
86	Transcription Factor Interactions Mediate EGF-Dependent COX-2 Expression. <i>Molecular Cancer Research</i> , 2013, 11, 875-886.	1.5	19
87	Inhibition of the CXCL12/CXCR4-Axis as Preventive Therapy for Radiation-Induced Pulmonary Fibrosis. <i>PLoS ONE</i> , 2013, 8, e79768.	1.1	70
88	Six degrees of freedom CBCT-based positioning for intracranial targets treated with frameless stereotactic radiosurgery. <i>Journal of Applied Clinical Medical Physics</i> , 2012, 13, 215-225.	0.8	44
89	Transient enlargement of craniopharyngioma after radiation therapy: pattern of magnetic resonance imaging response following radiation. <i>Journal of Neuro-Oncology</i> , 2012, 109, 349-355.	1.4	25
90	Current Dosing Paradigm for Stereotactic Radiosurgery Alone After Surgical Resection of Brain Metastases Needs to Be Optimized for Improved Local Control. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 83, e61-e66.	0.4	72

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91	A Surveillance, Epidemiology and End Results (SEER) program comparison of adult and pediatric Wilms' tumor. <i>Cancer</i> , 2012, 118, 2541-2551.	2.0	45
92	Comparing central nervous system (CNS) and extra-CNS hemangiopericytomas in the Surveillance, Epidemiology, and End Results program. <i>Cancer</i> , 2012, 118, 5331-5338.	2.0	12
93	Stereotactic Body Radiosurgery for Spinal Metastatic Disease: An Evidence-Based Review. <i>International Journal of Surgical Oncology</i> , 2011, 2011, 1-9.	0.3	32
94	Pattern of Failure After Limited Margin Radiotherapy and Temozolomide for Glioblastoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 130-136.	0.4	153
95	Celecoxib Can Induce Vascular Endothelial Growth Factor Expression and Tumor Angiogenesis. <i>Molecular Cancer Therapeutics</i> , 2011, 10, 138-147.	1.9	18
96	Abstract 2046: FoxM1 cooperates with Sp1 to transcriptionally activate the COX-2 promoter. , 2011, , .		0
97	Exciting New Advances in Neuro-Oncology: The Avenue to a Cure for Malignant Glioma. <i>Ca-A Cancer Journal for Clinicians</i> , 2010, 60, 166-193.	157.7	1,182
98	EGFR Activation Results in Enhanced Cyclooxygenase-2 Expression through p38 Mitogen-Activated Protein Kinase-Dependent Activation of the Sp1/Sp3 Transcription Factors in Human Gliomas. <i>Cancer Research</i> , 2007, 67, 6121-6129.	0.4	114
99	Platelet-derived Growth Factor-induced Stabilization of Cyclooxygenase 2 mRNA in Rat Smooth Muscle Cells Requires the c-Src Family of Protein-tyrosine Kinases. <i>Journal of Biological Chemistry</i> , 2007, 282, 32699-32709.	1.6	25
100	Childhood intracranial ependymoma. <i>Cancer</i> , 2007, 110, 432-441.	2.0	71
101	Akt1 Activation Can Augment Hypoxia-Inducible Factor-1 $\alpha$ Expression by Increasing Protein Translation through a Mammalian Target of Rapamycin-Independent Pathway. <i>Molecular Cancer Research</i> , 2006, 4, 471-479.	1.5	167
102	Treatment of Pediatric Intracranial Arteriovenous Malformations with Linear-Accelerator-Based Stereotactic Radiosurgery: The University of Pennsylvania Experience. <i>Pediatric Neurosurgery</i> , 2004, 40, 207-214.	0.4	43
103	Mutant epidermal growth factor receptor displays increased signaling through the phosphatidylinositol-3 kinase/AKT pathway and promotes radioresistance in cells of astrocytic origin. <i>Oncogene</i> , 2004, 23, 4594-4602.	2.6	156
104	Surgery with or without radiation therapy in the management of craniopharyngiomas in children and young adults. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 58, 714-720.	0.4	275
105	Amifostine for children with medulloblastoma treated with cisplatin-based chemotherapy. <i>Pediatric Blood and Cancer</i> , 2004, 43, 780-784.	0.8	39
106	Near complete surgical resection predicts a favorable outcome in pediatric patients with nonbrainstem, malignant gliomas. <i>Cancer</i> , 2004, 101, 817-824.	2.0	91
107	Resistance to small molecule inhibitors of epidermal growth factor receptor in malignant gliomas. <i>Cancer Research</i> , 2003, 63, 7443-50.	0.4	106
108	Radical pleurectomy/decortication and intraoperative radiotherapy followed by conformal radiation with or without chemotherapy for malignant pleural mesothelioma. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2002, 124, 1183-1189.	0.4	100

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109	Id2 Promotes Apoptosis by a Novel Mechanism Independent of Dimerization to Basic Helix-Loop-Helix Factors. <i>Molecular and Cellular Biology</i> , 1998, 18, 5435-5444.	1.1	100
110	STEREOTACTIC RADIOSURGERY FOR MALIGNANT MELANOMA TO THE BRAIN. <i>Surgical Clinics of North America</i> , 1996, 76, 1399-1411.	0.5	25