

Hui-Kuo G Shu

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	Current approaches to the treatment of metastatic brain tumours. <i>Nature Reviews Clinical Oncology</i> , 2014, 11, 203-222.	12.5	233
4	MRI-only based synthetic CT generation using dense cycle consistent generative adversarial networks. <i>Medical Physics</i> , 2019, 46, 3565-3581.	1.6	181
5	Comparing Preoperative With Postoperative Stereotactic Radiosurgery for Resectable Brain Metastases. <i>Neurosurgery</i> , 2016, 79, 279-285.	0.6	169
6	Akt1 Activation Can Augment Hypoxia-Inducible Factor-1 α 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
7	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
8	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
9	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
10	Resistance to small molecule inhibitors of epidermal growth factor receptor in malignant gliomas. <i>Cancer Research</i> , 2003, 63, 7443-50.	0.4	106
11	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
12	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
13	Whole-brain spectroscopic MRI biomarkers identify infiltrating margins in glioblastoma patients. <i>Neuro-Oncology</i> , 2016, 18, 1180-1189.	0.6	94
14	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
15	Single-Fraction Stereotactic Radiosurgery (SRS) Alone Versus Surgical Resection and SRS for Large Brain Metastases: A Multi-institutional Analysis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 99, 459-467.	0.4	83
16	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
17	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
18	Childhood intracranial ependymoma. <i>Cancer</i> , 2007, 110, 432-441.	2.0	71

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19	Hypofractionated radiosurgery for intact or resected brain metastases: defining the optimal dose and fractionation. <i>Radiation Oncology</i> , 2013, 8, 135.	1.2	70
20	Inhibition of the CXCL12/CXCR4-Axis as Preventive Therapy for Radiation-Induced Pulmonary Fibrosis. <i>PLoS ONE</i> , 2013, 8, e79768.	1.1	70
21	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
22	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
23	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
24	COX-2 overexpression increases malignant potential of human glioma cells through Id1. <i>Oncotarget</i> , 2014, 5, 1241-1252.	0.8	47
25	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
26	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
27	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
28	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
29	Amifostine for children with medulloblastoma treated with cisplatin-based chemotherapy. <i>Pediatric Blood and Cancer</i> , 2004, 43, 780-784.	0.8	39
30	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
31	Opposing Effect of EGFRWT on EGFRVIII-Mediated NF- κ B Activation with RIP1 as a Cell Death Switch. <i>Cell Reports</i> , 2013, 4, 764-775.	2.9	38
32	Post-treatment neutrophil-to-lymphocyte ratio predicts for overall survival in brain metastases treated with stereotactic radiosurgery. <i>Journal of Neuro-Oncology</i> , 2018, 139, 689-697.	1.4	37
33	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
34	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
35	Management-Based Structured Reporting of Posttreatment Glioma Response With the Brain Tumor Reporting and Data System. <i>Journal of the American College of Radiology</i> , 2018, 15, 767-771.	0.9	34
36	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

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37	Is less more? Comparing chemotherapy alone with chemotherapy and radiation for high-risk grade 2 glioma: An analysis of the National Cancer Data Base. <i>Cancer</i> , 2018, 124, 1169-1178.	2.0	33
38	MRI-based pseudo CT synthesis using anatomical signature and alternating random forest with iterative refinement model. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	33
39	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
40	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
41	The Use of Quantitative Imaging in Radiation Oncology: A Quantitative Imaging Network (QIN) Perspective. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1219-1235.	0.4	30
42	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
43	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
44	STEREOTACTIC RADIOSURGERY FOR MALIGNANT MELANOMA TO THE BRAIN. <i>Surgical Clinics of North America</i> , 1996, 76, 1399-1411.	0.5	25
45	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
46	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
47	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
48	GPRC5A suppresses protein synthesis at the endoplasmic reticulum to prevent radiation-induced lung tumorigenesis. <i>Nature Communications</i> , 2016, 7, 11795.	5.8	24
49	Pseudo CT estimation from MRI using patch-based random forest. <i>Proceedings of SPIE</i> , 2017, 10133, .	0.8	24
50	MRI-Based Proton Treatment Planning for Base of Skull Tumors. <i>International Journal of Particle Therapy</i> , 2019, 6, 12-25.	0.9	24
51	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
52	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
53	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
54	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

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55	Assessing Treatment Response of Glioblastoma to an HDAC Inhibitor Using Whole-Brain Spectroscopic MRI. <i>Tomography</i> , 2019, 5, 53-60.	0.8	23
56	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
57	Dosimetric study on learning-based cone-beam CT correction in adaptive radiation therapy. <i>Medical Dosimetry</i> , 2019, 44, e71-e79.	0.4	20
58	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
59	Transcription Factor Interactions Mediate EGF-Dependent COX-2 Expression. <i>Molecular Cancer Research</i> , 2013, 11, 875-886.	1.5	19
60	Optimal timing of chemoradiotherapy after surgical resection of glioblastoma: Stratification by validated prognostic classification. <i>Cancer</i> , 2020, 126, 3255-3264.	2.0	19
61	Celecoxib Can Induce Vascular Endothelial Growth Factor Expression and Tumor Angiogenesis. <i>Molecular Cancer Therapeutics</i> , 2011, 10, 138-147.	1.9	18
62	Glutamine Imaging: A New Avenue for Glioma Management. <i>American Journal of Neuroradiology</i> , 2022, 43, 11-18.	1.2	17
63	Characterization of dysregulated glutamine metabolism in human glioma tissue with 1H NMR. <i>Scientific Reports</i> , 2020, 10, 20435.	1.6	16
64	Magnetic resonance imaging-based pseudo computed tomography using anatomic signature and joint dictionary learning. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	15
65	Improved hippocampal dose with reduced margin radiotherapy for glioblastoma multiforme. <i>Radiation Oncology</i> , 2014, 9, 20.	1.2	14
66	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
67	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
68	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
69	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
70	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
71	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
72	Progesterone improves neurocognitive outcomes following therapeutic cranial irradiation in mice. <i>Hormones and Behavior</i> , 2017, 96, 21-30.	1.0	11

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73	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
74	The use of Hypofractionated Radiosurgery for the Treatment of Intracranial Lesions Unsuitable for Single-Fraction Radiosurgery. <i>Neurosurgery</i> , 2018, 83, 850-857.	0.6	10
75	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
76	MRI-based synthetic CT generation using deep convolutional neural network. , 2019, , .		8
77	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
78	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
79	Automated population-based planning for whole brain radiation therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 76-86.	0.8	7
80	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
81	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
82	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
83	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
84	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
85	Genomic copy number variation correlates with survival outcomes in WHO grade IV glioma. <i>Scientific Reports</i> , 2020, 10, 7355.	1.6	6
86	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
87	Targeted sequencing and intracranial outcomes of patients with lung adenocarcinoma brain metastases treated with radiotherapy. <i>Cancer</i> , 2018, 124, 3586-3595.	2.0	5
88	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
89	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
90	External validity of two nomograms for predicting distant brain failure after radiosurgery for brain metastases in a bi-institutional independent patient cohort. <i>Journal of Neuro-Oncology</i> , 2018, 137, 147-154.	1.4	3

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91	Glioblastoma with brainstem leptomeningeal pseudoprogression following radiation therapy. <i>Radiology Case Reports</i> , 2019, 14, 613-617.	0.2	3
92	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
93	The role of erlotinib and the Optune device in a patient with an epidermal growth factor receptor viii amplified glioblastoma. <i>Oxford Medical Case Reports</i> , 2018, 2018, omy095.	0.2	2
94	RTHP-29. A FEASIBILITY STUDY OF RADIATION THERAPY DOSE ESCALATION GUIDED BY SPECTROSCOPIC MRI IN PATIENTS WITH GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2018, 20, vi231-vi231.	0.6	2
95	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
96	Automatic inverse treatment planning of Gamma Knife radiosurgery via deep reinforcement learning. <i>Medical Physics</i> , 2022, 49, 2877-2889.	1.6	2
97	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
98	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
99	SU-E-J-139: Fuzzy Clustering Segmentation of Glioblastoma in T1-MRI Imaging for Clinical Trials. <i>Medical Physics</i> , 2014, 41, 188-188.	1.6	1
100	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
101	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
102	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
103	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
104	PATH-10. COPY NUMBER (CN)/SINGLE NUCLEOTIDE POLYMORPHISM (SNP) MICROARRAY ANALYSIS OF THE EGFR LOCUS IN GLIOSARCOMA. <i>Neuro-Oncology</i> , 2018, 20, vi160-vi160.	0.6	0
105	CMET-01. CLINICAL AND DOSIMETRIC FACTORS RELATED TO RADIATION NECROSIS AFTER FIVE FRACTION RADIOSURGERY FOR RESECTED BRAIN METASTASES. <i>Neuro-Oncology</i> , 2018, 20, vi54-vi54.	0.6	0
106	Radiation Oncology Review Series. <i>Neurosurgery</i> , 2018, 82, 592-594.	0.6	0
107	Abstract 2046: FoxM1 cooperates with Sp1 to transcriptionally activate the COX-2 promoter. , 2011, , .		0
108	MRI-based pseudo CT generation using classification and regression random forest. , 2019, , .		0

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109	Brain MRI classification based on machine learning framework with auto-context model. , 2019, , .		0
110	Osteoradionecrosis of the craniotomy flap: a rare complication of stereotactic radiosurgery. Oxford Medical Case Reports, 2022, 2022, omac032.	0.2	0