

Caroline Chung

List of Publications by Citations

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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.

125
papers

3,038
citations

26
h-index

52
g-index

142
ext. papers

4,019
ext. citations

4
avg, IF

5.08
L-index

#	Paper	IF	Citations
125	Effect of Radiosurgery Alone vs Radiosurgery With Whole Brain Radiation Therapy on Cognitive Function in Patients With 1 to 3 Brain Metastases: A Randomized Clinical Trial. <i>JAMA - Journal of the American Medical Association</i> , 2016 , 316, 401-409	27.4	820
124	Consensus recommendations for a standardized Brain Tumor Imaging Protocol in clinical trials. <i>Neuro-Oncology</i> , 2015 , 17, 1188-98	1	224
123	External beam accelerated partial breast irradiation versus whole breast irradiation after breast conserving surgery in women with ductal carcinoma in situ and node-negative breast cancer (RAPID): a randomised controlled trial. <i>Lancet, The</i> , 2019 , 394, 2165-2172	40	137
122	Quantitative imaging biomarkers alliance (QIBA) recommendations for improved precision of DWI and DCE-MRI derived biomarkers in multicenter oncology trials. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, e101-e121	5.6	112
121	Pseudoprogression, radionecrosis, inflammation or true tumor progression? challenges associated with glioblastoma response assessment in an evolving therapeutic landscape. <i>Journal of Neuro-Oncology</i> , 2017 , 134, 495-504	4.8	95
120	HOUT-21. REAL-WORD EVALUATION OF THE IMPACT OF RADIOTHERAPY AND CHEMOTHERAPY IN ELDERLY PATIENTS WITH GLIOBLASTOMA BASED ON AGE AND PERFORMANCE STATUS: A NATIONAL CANCER DATABASE ANALYSIS. <i>Neuro-Oncology</i> , 2018 , 20, vi117-vi117	1	78
119	Image-guided, intensity-modulated radiation therapy (IG-IMRT) for skull base chordoma and chondrosarcoma: preliminary outcomes. <i>Neuro-Oncology</i> , 2015 , 17, 889-94	1	75
118	Factors impacting survival following second surgery in patients with glioblastoma in the temozolomide treatment era, incorporating neutrophil/lymphocyte ratio and time to first progression. <i>Journal of Neuro-Oncology</i> , 2014 , 117, 147-52	4.8	62
117	Social Media Use Among Physicians and Trainees: Results of a National Medical Oncology Physician Survey. <i>Journal of Oncology Practice</i> , 2016 , 12, 79-80, e52-60	3.1	53
116	Neutrophil-lymphocyte ratio dynamics during concurrent chemo-radiotherapy for glioblastoma is an independent predictor for overall survival. <i>Journal of Neuro-Oncology</i> , 2017 , 132, 463-471	4.8	52
115	NCCTG N0574 (Alliance): A phase III randomized trial of whole brain radiation therapy (WBRT) in addition to radiosurgery (SRS) in patients with 1 to 3 brain metastases.. <i>Journal of Clinical Oncology</i> , 2015 , 33, LBA4-LBA4	2.2	50
114	Initial SRS for Patients With 5 to 15 Brain Metastases: Results of a Multi-Institutional Experience. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 104, 1091-1098	4	48
113	Impact of glycemia on survival of glioblastoma patients treated with radiation and temozolomide. <i>Journal of Neuro-Oncology</i> , 2015 , 124, 119-26	4.8	45
112	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
111	Stereotactic Radiosurgery With or Without Whole-Brain Radiation Therapy for Limited Brain Metastases: A Secondary Analysis of the North Central Cancer Treatment Group N0574 (Alliance) Randomized Controlled Trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, 1173-1178	4	44
110	Stereotactic radiosurgery for the treatment of melanoma and renal cell carcinoma brain metastases. <i>Oncology Reports</i> , 2013 , 29, 407-12	3.5	43
109	Salvage radiosurgery for brain metastases: prognostic factors to consider in patient selection. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 88, 137-42	4	41

108	MRI biomarkers identify the differential response of glioblastoma multiforme to anti-angiogenic therapy. <i>Neuro-Oncology</i> , 2014 , 16, 868-79	1	39
107	Consensus recommendations for a dynamic susceptibility contrast MRI protocol for use in high-grade gliomas. <i>Neuro-Oncology</i> , 2020 , 22, 1262-1275	1	38
106	Treatment options for patients with brain metastases from EGFR/ALK-driven lung cancer. <i>Radiotherapy and Oncology</i> , 2017 , 123, 195-202	5.3	32
105	Challenges and opportunities in primary CNS lymphoma: A systematic review. <i>Radiotherapy and Oncology</i> , 2017 , 122, 352-361	5.3	29
104	Cone beam computed tomography image guidance system for a dedicated intracranial radiosurgery treatment unit. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 243-504	5	29
103	Advances in Magnetic Resonance Imaging and Positron Emission Tomography Imaging for Grading and Molecular Characterization of Glioma. <i>Seminars in Radiation Oncology</i> , 2015 , 25, 164-71	5.5	29
102	Imaging biomarker dynamics in an intracranial murine glioma study of radiation and antiangiogenic therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 805-12	4	27
101	Radiation recall dermatitis triggered by multi-targeted tyrosine kinase inhibitors: sunitinib and sorafenib. <i>Anti-Cancer Drugs</i> , 2010 , 21, 206-9	2.4	27
100	Proton therapy reduces the likelihood of high-grade radiation-induced lymphopenia in glioblastoma patients: phase II randomized study of protons vs photons. <i>Neuro-Oncology</i> , 2021 , 23, 284-294	4.1	26
99	The Use of Cone Beam Computed Tomography for Image Guided Gamma Knife Stereotactic Radiosurgery: Initial Clinical Evaluation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 96, 214-20	4	25
98	Orthovoltage radiotherapy in the management of medial canthal basal cell carcinoma. <i>British Journal of Ophthalmology</i> , 2013 , 97, 730-4	5.5	23
97	Multi-institutional competing risks analysis of distant brain failure and salvage patterns after upfront radiosurgery without whole brain radiotherapy for brain metastasis. <i>Annals of Oncology</i> , 2018 , 29, 497-503	10.3	21
96	Conditional probability of survival and post-progression survival in patients with glioblastoma in the temozolomide treatment era. <i>Journal of Neuro-Oncology</i> , 2014 , 117, 153-60	4.8	21
95	A Multi-Institutional Comparison of Dynamic Contrast-Enhanced Magnetic Resonance Imaging Parameter Calculations. <i>Scientific Reports</i> , 2017 , 7, 11185	4.9	21
94	Biology and clinical management challenges in meningioma. <i>American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting</i> , 2015 , e106-15	7.1	21
93	Orbital radiation therapy for GravesOphthalmopathy: measuring clinical efficacy and impact. <i>Practical Radiation Oncology</i> , 2014 , 4, 233-9	2.8	21
92	Prediction of new brain metastases after radiosurgery: validation and analysis of performance of a multi-institutional nomogram. <i>Journal of Neuro-Oncology</i> , 2017 , 135, 403-411	4.8	19
91	Preliminary Evaluation of a Novel Thermoplastic Mask System with Intra-fraction Motion Monitoring for Future Use with Image-Guided Gamma Knife. <i>Cureus</i> , 2016 , 8, e531	1.2	19

90	Outcomes following stereotactic radiosurgery for small to medium-sized brain metastases are exceptionally dependent upon tumor size and prescribed dose. <i>Neuro-Oncology</i> , 2019 , 21, 242-251	1	18
89	Design and fabrication of a 3D-printed oral stent for head and neck radiotherapy from routine diagnostic imaging. <i>3D Printing in Medicine</i> , 2017 , 3, 12	5	17
88	Predictors of breast radiotherapy plan modifications: quality assurance rounds in a large cancer centre. <i>Radiotherapy and Oncology</i> , 2015 , 114, 17-21	5.3	17
87	The relationship between corticosteroids and symptoms in patients with primary brain tumors: utility of the Dexamethasone Symptom Questionnaire-Chronic. <i>Neuro-Oncology</i> , 2015 , 17, 1114-20	1	16
86	Quantitative Imaging in Radiation Oncology: An Emerging Science and Clinical Service. <i>Seminars in Radiation Oncology</i> , 2015 , 25, 292-304	5.5	15
85	Creating customized oral stents for head and neck radiotherapy using 3D scanning and printing. <i>Radiation Oncology</i> , 2019 , 14, 148	4.2	14
84	Automated voxel-based analysis of volumetric dynamic contrast-enhanced CT data improves measurement of serial changes in tumor vascular biomarkers. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 91, 48-57	4	14
83	Gamma knife radiosurgery for the treatment of cystic cerebral metastases. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 667-71	4	14
82	Evaluation of Apparent Diffusion Coefficient to Predict Grade, Microinvasion, and Invasion in Ductal Carcinoma In Situ of the Breast. <i>Academic Radiology</i> , 2015 , 22, 1483-8	4.3	13
81	Optimal Timing of Radiotherapy Following Gross Total or Subtotal Resection of Glioblastoma: A Real-World Assessment using the National Cancer Database. <i>Scientific Reports</i> , 2020 , 10, 4926	4.9	13
80	Assessment of organs-at-risk contouring practices in radiosurgery institutions around the world - The first initiative of the OAR Standardization Working Group. <i>Radiotherapy and Oncology</i> , 2016 , 121, 180-186	5.3	13
79	Multi-institutional validation of brain metastasis velocity, a recently defined predictor of outcomes following stereotactic radiosurgery. <i>Radiotherapy and Oncology</i> , 2020 , 142, 168-174	5.3	13
78	Informational and Supportive Care Needs of Brain Metastases Patients and Caregivers: a Systematic Review. <i>Journal of Cancer Education</i> , 2017 , 32, 914-923	1.8	12
77	The joint effect of aging and HIV infection on microstructure of white matter bundles. <i>Human Brain Mapping</i> , 2019 , 40, 4370-4380	5.9	12
76	A prospective phase II randomized trial of proton radiotherapy vs intensity-modulated radiotherapy for patients with newly diagnosed glioblastoma. <i>Neuro-Oncology</i> , 2021 , 23, 1337-1347	1	12
75	The Use of Ga-DOTATATE PET/CT in the Non-invasive Diagnosis of Optic Nerve Sheath Meningioma: A Case Report. <i>Frontiers in Oncology</i> , 2018 , 8, 454	5.3	12
74	A mathematical model for the quantification of a patient's sensitivity to checkpoint inhibitors and long-term tumour burden. <i>Nature Biomedical Engineering</i> , 2021 , 5, 297-308	19	12
73	Radiosurgery for brainstem metastases with and without whole brain radiotherapy: clinical series and literature review. <i>Journal of Radiation Oncology</i> , 2017 , 6, 21-30	0.7	11

72	Radiation recall reaction induced by adjuvant trastuzumab (herceptin). <i>Case Reports in Medicine</i> , 2009 , 2009, 307894	0.7	11
71	Comparison of Voxel-Wise Tumor Perfusion Changes Measured With Dynamic Contrast-Enhanced (DCE) MRI and Volumetric DCE CT in Patients With Metastatic Brain Cancer Treated with Radiosurgery. <i>Tomography</i> , 2016 , 2, 325-333	3.1	11
70	Image-based personalization of computational models for predicting response of high-grade glioma to chemoradiation. <i>Scientific Reports</i> , 2021 , 11, 8520	4.9	11
69	Radiotherapy in Leptomeningeal Disease: A Systematic Review of Randomized and Non-randomized Trials. <i>Frontiers in Oncology</i> , 2019 , 9, 1224	5.3	11
68	Interventions for the treatment of brain radionecrosis after radiotherapy or radiosurgery. <i>The Cochrane Library</i> , 2018 , 7, CD011492	5.2	10
67	Radiotherapy for breast cancer, the TARGIT-A trial. <i>Lancet, The</i> , 2014 , 383, 1717	4.0	10
66	Phantom Validation of DCE-MRI Magnitude and Phase-Based Vascular Input Function Measurements. <i>Tomography</i> , 2019 , 5, 77-89	3.1	10
65	Treatment Outcomes in 1p19q Co-deleted/Partially Deleted Gliomas. <i>Canadian Journal of Neurological Sciences</i> , 2017 , 44, 288-294	1	9
64	National Patterns of Care in the Management of World Health Organization Grade II and III Spinal Ependymomas. <i>World Neurosurgery</i> , 2019 , 124, e580-e580	2.1	9
63	Glioma consensus contouring recommendations from a MR-Linac International Consortium Research Group and evaluation of a CT-MRI and MRI-only workflow. <i>Journal of Neuro-Oncology</i> , 2020 , 149, 305-314	4.8	8
62	Radiation for Glioblastoma in the Era of Coronavirus Disease 2019 (COVID-19): Patient Selection and Hypofractionation to Maximize Benefit and Minimize Risk. <i>Advances in Radiation Oncology</i> , 2020 , 5, 743-745	3.3	7
61	Toxicity of Radiosurgery for Brainstem Metastases. <i>World Neurosurgery</i> , 2018 , 119, e757-e764	2.1	7
60	High-grade intracranial chondrosarcoma presenting with haemorrhage. <i>Journal of Clinical Neuroscience</i> , 2013 , 20, 1457-60	2.2	6
59	A rare case of isolated duodenal metastases from hepatocellular carcinoma associated with p53 and ki-67 expression: a case report. <i>Cases Journal</i> , 2009 , 2, 9344		6
58	Radiation for skull base meningiomas: review of the literature on the approach to radiotherapy. <i>Chinese Clinical Oncology</i> , 2017 , 6, S3	2.3	6
57	Multi-institutional study of the variability in target delineation for six targets commonly treated with radiosurgery. <i>Acta Oncologica</i> , 2018 , 57, 1515-1520	3.2	6
56	Exclusion of patients with brain metastases from cancer clinical trials. <i>Neuro-Oncology</i> , 2020 , 22, 577-579		5
55	A modular phantom and software to characterize 3D geometric distortion in MRI. <i>Physics in Medicine and Biology</i> , 2020 , 65, 195008	3.8	4

54	Radiation therapy and grade II/III oligodendroglial tumors. <i>CNS Oncology</i> , 2015 , 4, 325-32	4	4
53	Evaluation of a multiview architecture for automatic vertebral labeling of palliative radiotherapy simulation CT images. <i>Medical Physics</i> , 2020 , 47, 5592-5608	4.4	4
52	Informational needs of brain metastases patients and their caregivers. <i>Neuro-Oncology Practice</i> , 2019 , 6, 47-60	2.2	4
51	Unified platform for multimodal voxel-based analysis to evaluate tumour perfusion and diffusion characteristics before and after radiation treatment evaluated in metastatic brain cancer. <i>British Journal of Radiology</i> , 2019 , 92, 20170461	3.4	4
50	In the Era of Deep Learning, Why Reconstruct an Image at All?. <i>Journal of the American College of Radiology</i> , 2021 , 18, 170-173	3.5	4
49	Detectability of radiation-induced changes in magnetic resonance biomarkers following stereotactic radiosurgery: A pilot study. <i>PLoS ONE</i> , 2018 , 13, e0207933	3.7	4
48	Radiofrequency transmit calibration: A multi-center evaluation of vendor-provided radiofrequency transmit mapping methods. <i>Medical Physics</i> , 2019 , 46, 2629-2637	4.4	3
47	In Regard to Vaidya et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 92, 952-953	4	3
46	Radiosurgery Nomenclature: A Confusion of Tongues. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 92, 512-3	4	3
45	Detection of Glioblastoma Subclinical Recurrence Using Serial Diffusion Tensor Imaging. <i>Cancers</i> , 2020 , 12,	6.6	3
44	Phase I dose escalation study of concurrent palliative radiation therapy with sorafenib in three anatomical cohorts (Thorax, Abdomen, Pelvis): The TAP study. <i>Radiotherapy and Oncology</i> , 2017 , 124, 74-79	5.3	3
43	Clinical outcomes of hypofractionated radiation therapy for choroidal metastases: Symptom palliation, tumor control, and survival. <i>Practical Radiation Oncology</i> , 2017 , 7, 388-395	2.8	3
42	The Effect of Slice Thickness on Contours of Brain Metastases for Stereotactic Radiosurgery. <i>Advances in Radiation Oncology</i> , 2021 , 6, 100708	3.3	3
41	Real-world evaluation of the impact of radiotherapy and chemotherapy in elderly patients with glioblastoma based on age and performance status. <i>Neuro-Oncology Practice</i> , 2021 , 8, 199-208	2.2	3
40	Math, magnets, and medicine: enabling personalized oncology. <i>Expert Review of Precision Medicine and Drug Development</i> , 2021 , 6, 79-81	1.6	3
39	Nucleus-mitochondria positive feedback loop formed by ERK5 S496 phosphorylation-mediated poly (ADP-ribose) polymerase activation provokes persistent pro-inflammatory senescent phenotype and accelerates coronary atherosclerosis after chemo-radiation. <i>Redox Biology</i> , 2021 , 47, 102132	11.3	3
38	RBM10 truncation in astroblastoma in a patient with history of mandibular ameloblastoma: A case report. <i>Cancer Genetics</i> , 2019 , 231-232, 41-45	2.3	2
37	Quantitative imaging biomarkers alliance (QIBA) recommendations for improved precision of DWI and DCE-MRI derived biomarkers in multicenter oncology trials. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, i-i	5.6	2

36	Association Between Facility Volume and Overall Survival for Patients with Grade II Meningioma after Gross Total Resection. <i>World Neurosurgery</i> , 2020 , 141, e133-e144	2.1	2
35	A prospective parallel design study testing non-inferiority of customized oral stents made using 3D printing or manually fabricated methods. <i>Oral Oncology</i> , 2020 , 106, 104665	4.4	2
34	Hybrid isocenter technique for Gamma-Knife Perfexion treatment of trigeminal neuralgia. <i>Medical Dosimetry</i> , 2016 , 41, 271-276	1.3	2
33	Interventions for the treatment of brain radionecrosis after radiotherapy or radiosurgery. <i>The Cochrane Library</i> , 2015 ,	5.2	2
32	The COVID-19 & Cancer Consortium (CCC19) and Opportunities for Radiation Oncology. <i>Advances in Radiation Oncology</i> , 2021 , 6, 100614	3.3	2
31	Stability of MRI contrast agents in high-energy radiation of a 1.5T MR-Linac. <i>Radiotherapy and Oncology</i> , 2021 , 161, 55-64	5.3	2
30	Assembling the brain trust: the multidisciplinary imperative in neuro-oncology. <i>Nature Reviews Clinical Oncology</i> , 2019 , 16, 521-522	19.4	1
29	Early prediction of clinical response to checkpoint inhibitor therapy in human solid tumors through mathematical modeling. <i>ELife</i> , 2021 , 10,	8.9	1
28	Imaging Biomarkers in Preclinical Studies on Brain Tumors. <i>Biomarkers in Disease</i> , 2015 , 391-413		1
27	Unique Glioma Requiring Unique Management. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 108, 520-521	4	1
26	Response to Letter to Editor. <i>Neuro-Oncology</i> , 2020 , 22, 1706-1707	1	1
25	Safety and Feasibility of Magnetic Resonance Imaging Simulation for Radiation Treatment Planning in Pediatric Patients: A Single Institution Experience. <i>Advances in Radiation Oncology</i> , 2019 , 4, 362-366	3.3	1
24	Equivalent Efficacy and Safety of Radiosurgery for Cystic and Solid Vestibular Schwannomas: A Systematic Review. <i>World Neurosurgery</i> , 2021 , 146, 322-331.e1	2.1	1
23	Translational Modeling Identifies Synergy between Nanoparticle-Delivered miRNA-22 and Standard-of-Care Drugs in Triple-Negative Breast Cancer.. <i>Pharmaceutical Research</i> , 2022 , 39, 511	4.5	1
22	Integrating mechanism-based modeling with biomedical imaging to build practical digital twins for clinical oncology. <i>Biophysics Reviews</i> , 2022 , 3, 021304	2.6	1
21	Dedifferentiation-mediated stem cell niche maintenance in early-stage ductal carcinoma in situ progression: insights from a multiscale modeling study. <i>Cell Death and Disease</i> , 2022 , 13,	9.8	1
20	Advances in the management of breast cancer brain metastases. <i>Neuro-Oncology Advances</i> , 2021 , 3, v63-v74		0
19	Cancer Needs a Robust "Metadata Supply Chain" to Realize the Promise of Artificial Intelligence. <i>Cancer Research</i> , 2021 , 81, 5810-5812	10.1	0

18	Magnetic resonance biomarkers in radiation oncology: The report of AAPM Task Group 294. <i>Medical Physics</i> , 2021 , 48, e697-e732	4.4	o
17	Phase II trial of proton therapy versus photon IMRT for GBM: secondary analysis comparison of progression-free survival between RANO versus clinical assessment. <i>Neuro-Oncology Advances</i> , 2021 , 3, vdab073	0.9	o
16	The Provocative: A Glimpse Into Radiology's Future. <i>Journal of the American College of Radiology</i> , 2021 , 18, 137-139	3.5	o
15	Characterizing cancer and COVID-19 outcomes using electronic health records.. <i>PLoS ONE</i> , 2022 , 17, e0267584	3.7	o
14	Opportunities for improving brain cancer treatment outcomes through imaging-based mathematical modeling of the delivery of radiotherapy and immunotherapy. <i>Advanced Drug Delivery Reviews</i> , 2022 , 187, 114367	18.5	o
13	In reply to Cheung. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, 291-2	4	
12	Update on the current management of glioblastoma. <i>Clinical Practice (London, England)</i> , 2013 , 10, 157-165		
11	Primary Tumors of the Central Nervous System 2013 , 113-125		
10	The Role of the Immune Response in Brain Metastases: Novel Imaging Biomarkers for Immunotherapy. <i>Frontiers in Oncology</i> , 2021 , 11, 711405	5.3	
9	Brain Radionecrosis 2018 , 519-531		
8	Neurocognitive Toxicity from Radiation Therapy for Brain Metastases 2020 , 315-328		
7	Neurocognitive Effects of Brain Metastases and Their Treatment 2020 , 407-425		
6	Impact of endocrine therapy in early-stage breast cancer on time to locoregional recurrence.. <i>Journal of Clinical Oncology</i> , 2013 , 31, 64-64	2.2	
5	Imaging Biomarkers in Preclinical Studies on Brain Tumors 2014 , 1-19		
4	Provider Engagement in Radiation Oncology Data Science: Workshop Report. <i>JCO Clinical Cancer Informatics</i> , 2020 , 4, 700-710	5.2	
3	Simultaneous Truth and Performance Level Estimation Method for Evaluation of Target Contouring in Radiosurgery. <i>Anticancer Research</i> , 2021 , 41, 279-288	2.3	
2	Short reply to "Proton therapy for newly diagnosed glioblastoma: more room for investigation" by R. Press et al. <i>Neuro-Oncology</i> , 2021 , 23, 1982	1	
1	Paradoxical Association Between Relative Cerebral Blood Volume Dynamics Following Chemoradiation and Increased Progression-Free Survival in Newly Diagnosed IDH Wild-Type MGMT Promoter Methylated Glioblastoma With Measurable Disease.. <i>Frontiers in Oncology</i> , 2022 , 12, 849993	5.3	

