Caroline Chung

List of Publications by Year in Descending Order

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	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.. *Frontiers in Oncology*, **2022**, 12, 849993	5.3	
124	Translational Modeling Identifies Synergy between Nanoparticle-Delivered miRNA-22 and Standard-of-Care Drugs in Triple-Negative Breast Cancer.. *Pharmaceutical Research*, **2022**, 39, 511	4.5	1
123	Characterizing cancer and COVID-19 outcomes using electronic health records.. *PLoS ONE*, **2022**, 17, e0267584	3.7	0
122	Integrating mechanism-based modeling with biomedical imaging to build practical digital twins for clinical oncology. *Biophysics Reviews*, **2022**, 3, 021304	2.6	1
121	Dedifferentiation-mediated stem cell niche maintenance in early-stage ductal carcinoma in situ progression: insights from a multiscale modeling study. *Cell Death and Disease*, **2022**, 13,	9.8	1
120	Opportunities for improving brain cancer treatment outcomes through imaging-based mathematical modeling of the delivery of radiotherapy and immunotherapy. *Advanced Drug Delivery Reviews*, **2022**, 187, 114367	18.5	0
119	Early prediction of clinical response to checkpoint inhibitor therapy in human solid tumors through mathematical modeling. *ELife*, **2021**, 10,	8.9	1
118	Advances in the management of breast cancer brain metastases. *Neuro-Oncology Advances*, **2021**, 3, v63-v74	0.9	0
117	Cancer Needs a Robust "Metadata Supply Chain" to Realize the Promise of Artificial Intelligence. *Cancer Research*, **2021**, 81, 5810-5812	10.1	0
116	The Role of the Immune Response in Brain Metastases: Novel Imaging Biomarkers for Immunotherapy. *Frontiers in Oncology*, **2021**, 11, 711405	5.3	
115	Image-based personalization of computational models for predicting response of high-grade glioma to chemoradiation. *Scientific Reports*, **2021**, 11, 8520	4.9	11
114	Magnetic resonance biomarkers in radiation oncology: The report of AAPM Task Group 294. *Medical Physics*, **2021**, 48, e697-e732	4.4	0
113	Phase II trial of proton therapy versus photon IMRT for GBM: secondary analysis comparison of progression-free survival between RANO versus clinical assessment. *Neuro-Oncology Advances*, **2021**, 3, vdab073	0.9	0
112	The Effect of Slice Thickness on Contours of Brain Metastases for Stereotactic Radiosurgery. *Advances in Radiation Oncology*, **2021**, 6, 100708	3.3	3
111	Proton therapy reduces the likelihood of high-grade radiation-induced lymphopenia in glioblastoma patients: phase II randomized study of protons vs photons. *Neuro-Oncology*, **2021**, 23, 284-294	1	26
110	Equivalent Efficacy and Safety of Radiosurgery for Cystic and Solid Vestibular Schwannomas: A Systematic Review. *World Neurosurgery*, **2021**, 146, 322-331.e1	2.1	1
109	In the Era of Deep Learning, Why Reconstruct an Image at All?. *Journal of the American College of Radiology*, **2021**, 18, 170-173	3.5	4

#	Reference		
108	Real-world evaluation of the impact of radiotherapy and chemotherapy in elderly patients with glioblastoma based on age and performance status. *Neuro-Oncology Practice*, **2021**, 8, 199-208	2.2	3
107	The COVID-19 & Cancer Consortium (CCC19) and Opportunities for Radiation Oncology. *Advances in Radiation Oncology*, **2021**, 6, 100614	3.3	2
106	Math, magnets, and medicine: enabling personalized oncology. *Expert Review of Precision Medicine and Drug Development*, **2021**, 6, 79-81	1.6	3
105	The Provocative: A Glimpse Into Radiology's Future. *Journal of the American College of Radiology*, **2021**, 18, 137-139	3.5	0
104	Simultaneous Truth and Performance Level Estimation Method for Evaluation of Target Contouring in Radiosurgery. *Anticancer Research*, **2021**, 41, 279-288	2.3	
103	A prospective phase II randomized trial of proton radiotherapy vs intensity-modulated radiotherapy for patients with newly diagnosed glioblastoma. *Neuro-Oncology*, **2021**, 23, 1337-1347	1	12
102	Short reply to "Proton therapy for newly diagnosed glioblastoma: more room for investigation" by R. Press et al. *Neuro-Oncology*, **2021**, 23, 1982	1	
101	Stability of MRI contrast agents in high-energy radiation of a 1.5T MR-Linac. *Radiotherapy and Oncology*, **2021**, 161, 55-64	5.3	2
100	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. *Redox Biology*, **2021**, 47, 102132	11.3	3
99	A mathematical model for the quantification of a patient's sensitivity to checkpoint inhibitors and long-term tumour burden. *Nature Biomedical Engineering*, **2021**, 5, 297-308	19	12
98	Association Between Facility Volume and Overall Survival for Patients with Grade II Meningioma after Gross Total Resection. *World Neurosurgery*, **2020**, 141, e133-e144	2.1	2
97	Radiation for Glioblastoma in the Era of Coronavirus Disease 2019 (COVID-19): Patient Selection and Hypofractionation to Maximize Benefit and Minimize Risk. *Advances in Radiation Oncology*, **2020**, 5, 743-745	3.3	7
96	A prospective parallel design study testing non-inferiority of customized oral stents made using 3D printing or manually fabricated methods. *Oral Oncology*, **2020**, 106, 104665	4.4	2
95	A modular phantom and software to characterize 3D geometric distortion in MRI. *Physics in Medicine and Biology*, **2020**, 65, 195008	3.8	4
94	Consensus recommendations for a dynamic susceptibility contrast MRI protocol for use in high-grade gliomas. *Neuro-Oncology*, **2020**, 22, 1262-1275	1	38
93	Optimal Timing of Radiotherapy Following Gross Total or Subtotal Resection of Glioblastoma: A Real-World Assessment using the National Cancer Database. *Scientific Reports*, **2020**, 10, 4926	4.9	13
92	Detection of Glioblastoma Subclinical Recurrence Using Serial Diffusion Tensor Imaging. *Cancers*, **2020**, 12,	6.6	3
91	Consensus recommendations for a standardized brain tumor imaging protocol for clinical trials in brain metastases. *Neuro-Oncology*, **2020**, 22, 757-772	1	45

90	Neurocognitive Toxicity from Radiation Therapy for Brain Metastases **2020**, 315-328		
89	Neurocognitive Effects of Brain Metastases and Their Treatment **2020**, 407-425		
88	Exclusion of patients with brain metastases from cancer clinical trials. *Neuro-Oncology*, **2020**, 22, 577-579	1	5
87	Unique Glioma Requiring Unique Management. *International Journal of Radiation Oncology Biology Physics*, **2020**, 108, 520-521	4	1
86	Provider Engagement in Radiation Oncology Data Science: Workshop Report. *JCO Clinical Cancer Informatics*, **2020**, 4, 700-710	5.2	
85	Response to Letter to Editor. *Neuro-Oncology*, **2020**, 22, 1706-1707	1	1
84	Glioma consensus contouring recommendations from a MR-Linac International Consortium Research Group and evaluation of a CT-MRI and MRI-only workflow. *Journal of Neuro-Oncology*, **2020**, 149, 305-314	4.8	8
83	Evaluation of a multiview architecture for automatic vertebral labeling of palliative radiotherapy simulation CT images. *Medical Physics*, **2020**, 47, 5592-5608	4.4	4
82	Multi-institutional validation of brain metastasis velocity, a recently defined predictor of outcomes following stereotactic radiosurgery. *Radiotherapy and Oncology*, **2020**, 142, 168-174	5.3	13
81	Creating customized oral stents for head and neck radiotherapy using 3D scanning and printing. *Radiation Oncology*, **2019**, 14, 148	4.2	14
80	RBM10 truncation in astroblastoma in a patient with history of mandibular ameloblastoma: A case report. *Cancer Genetics*, **2019**, 231-232, 41-45	2.3	2
79	Assembling the brain trust: the multidisciplinary imperative in neuro-oncology. *Nature Reviews Clinical Oncology*, **2019**, 16, 521-522	19.4	1
78	Quantitative imaging biomarkers alliance (QIBA) recommendations for improved precision of DWI and DCE-MRI derived biomarkers in multicenter oncology trials. *Journal of Magnetic Resonance Imaging*, **2019**, 49, i-i	5.6	2
77	Initial SRS for Patients With 5 to 15 Brain Metastases: Results of a Multi-Institutional Experience. *International Journal of Radiation Oncology Biology Physics*, **2019**, 104, 1091-1098	4	48
76	Radiofrequency transmit calibration: A multi-center evaluation of vendor-provided radiofrequency transmit mapping methods. *Medical Physics*, **2019**, 46, 2629-2637	4.4	3
75	The joint effect of aging and HIV infection on microstructure of white matter bundles. *Human Brain Mapping*, **2019**, 40, 4370-4380	5.9	12
74	Phantom Validation of DCE-MRI Magnitude and Phase-Based Vascular Input Function Measurements. *Tomography*, **2019**, 5, 77-89	3.1	10
73	National Patterns of Care in the Management of World Health Organization Grade II and III Spinal Ependymomas. *World Neurosurgery*, **2019**, 124, e580-e580	2.1	9

72	Radiotherapy in Leptomeningeal Disease: A Systematic Review of Randomized and Non-randomized Trials. *Frontiers in Oncology*, **2019**, 9, 1224	5.3	11
71	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. *Lancet, The*, **2019**, 394, 2165-2172	40	137
70	Safety and Feasibility of Magnetic Resonance Imaging Simulation for Radiation Treatment Planning in Pediatric Patients: A Single Institution Experience. *Advances in Radiation Oncology*, **2019**, 4, 362-366	3.3	1
69	Informational needs of brain metastases patients and their caregivers. *Neuro-Oncology Practice*, **2019**, 6, 47-60	2.2	4
68	Quantitative imaging biomarkers alliance (QIBA) recommendations for improved precision of DWI and DCE-MRI derived biomarkers in multicenter oncology trials. *Journal of Magnetic Resonance Imaging*, **2019**, 49, e101-e121	5.6	112
67	Unified platform for multimodal voxel-based analysis to evaluate tumour perfusion and diffusion characteristics before and after radiation treatment evaluated in metastatic brain cancer. *British Journal of Radiology*, **2019**, 92, 20170461	3.4	4
66	Outcomes following stereotactic radiosurgery for small to medium-sized brain metastases are exceptionally dependent upon tumor size and prescribed dose. *Neuro-Oncology*, **2019**, 21, 242-251	1	18
65	Multi-institutional competing risks analysis of distant brain failure and salvage patterns after upfront radiosurgery without whole brain radiotherapy for brain metastasis. *Annals of Oncology*, **2018**, 29, 497-503	10.3	21
64	Interventions for the treatment of brain radionecrosis after radiotherapy or radiosurgery. *The Cochrane Library*, **2018**, 7, CD011492	5.2	10
63	Brain Radionecrosis **2018**, 519-531		
62	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. *Neuro-Oncology*, **2018**, 20, vi117-vi117	1	78
61	Detectability of radiation-induced changes in magnetic resonance biomarkers following stereotactic radiosurgery: A pilot study. *PLoS ONE*, **2018**, 13, e0207933	3.7	4
60	The Use of Ga-DOTATATE PET/CT in the Non-invasive Diagnosis of Optic Nerve Sheath Meningioma: A Case Report. *Frontiers in Oncology*, **2018**, 8, 454	5.3	12
59	Toxicity of Radiosurgery for Brainstem Metastases. *World Neurosurgery*, **2018**, 119, e757-e764	2.1	7
58	Multi-institutional study of the variability in target delineation for six targets commonly treated with radiosurgery. *Acta Oncologica*, **2018**, 57, 1515-1520	3.2	6
57	Informational and Supportive Care Needs of Brain Metastases Patients and Caregivers: a Systematic Review. *Journal of Cancer Education*, **2017**, 32, 914-923	1.8	12
56	Challenges and opportunities in primary CNS lymphoma: A systematic review. *Radiotherapy and Oncology*, **2017**, 122, 352-361	5.3	29
55	Radiosurgery for brainstem metastases with and without whole brain radiotherapy: clinical series and literature review. *Journal of Radiation Oncology*, **2017**, 6, 21-30	0.7	11

54	Treatment Outcomes in 1p19q Co-deleted/Partially Deleted Gliomas. *Canadian Journal of Neurological Sciences*, **2017**, 44, 288-294	1	9
53	Pseudoprogression, radionecrosis, inflammation or true tumor progression? challenges associated with glioblastoma response assessment in an evolving therapeutic landscape. *Journal of Neuro-Oncology*, **2017**, 134, 495-504	4.8	95
52	Neutrophil-lymphocyte ratio dynamics during concurrent chemo-radiotherapy for glioblastoma is an independent predictor for overall survival. *Journal of Neuro-Oncology*, **2017**, 132, 463-471	4.8	52
51	Treatment options for patients with brain metastases from EGFR/ALK-driven lung cancer. *Radiotherapy and Oncology*, **2017**, 123, 195-202	5.3	32
50	Design and fabrication of a 3D-printed oral stent for head and neck radiotherapy from routine diagnostic imaging. *3D Printing in Medicine*, **2017**, 3, 12	5	17
49	Prediction of new brain metastases after radiosurgery: validation and analysis of performance of a multi-institutional nomogram. *Journal of Neuro-Oncology*, **2017**, 135, 403-411	4.8	19
48	A Multi-Institutional Comparison of Dynamic Contrast-Enhanced Magnetic Resonance Imaging Parameter Calculations. *Scientific Reports*, **2017**, 7, 11185	4.9	21
47	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. *International Journal of Radiation Oncology Biology Physics*, **2017**, 99, 1173-1178	4	44
46	Phase I dose escalation study of concurrent palliative radiation therapy with sorafenib in three anatomical cohorts (Thorax, Abdomen, Pelvis): The TAP study. *Radiotherapy and Oncology*, **2017**, 124, 74-79	5.3	3
45	Clinical outcomes of hypofractionated radiation therapy for choroidal metastases: Symptom palliation, tumor control, and survival. *Practical Radiation Oncology*, **2017**, 7, 388-395	2.8	3
44	Radiation for skull base meningiomas: review of the literature on the approach to radiotherapy. *Chinese Clinical Oncology*, **2017**, 6, S3	2.3	6
43	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. *JAMA - Journal of the American Medical Association*, **2016**, 316, 401-409	27.4	820
42	Hybrid isocenter technique for Gamma-Knife Perfexion treatment of trigeminal neuralgia. *Medical Dosimetry*, **2016**, 41, 271-276	1.3	2
41	Assessment of organs-at-risk contouring practices in radiosurgery institutions around the world - The first initiative of the OAR Standardization Working Group. *Radiotherapy and Oncology*, **2016**, 121, 180-186	5.3	13
40	Social Media Use Among Physicians and Trainees: Results of a National Medical Oncology Physician Survey. *Journal of Oncology Practice*, **2016**, 12, 79-80, e52-60	3.1	53
39	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. *Tomography*, **2016**, 2, 325-333	3.1	11
38	Preliminary Evaluation of a Novel Thermoplastic Mask System with Intra-fraction Motion Monitoring for Future Use with Image-Guided Gamma Knife. *Cureus*, **2016**, 8, e531	1.2	19
37	The Use of Cone Beam Computed Tomography for Image Guided Gamma Knife Stereotactic Radiosurgery: Initial Clinical Evaluation. *International Journal of Radiation Oncology Biology Physics*, **2016**, 96, 214-20	4	25

36	In Regard to Vaidya et al. *International Journal of Radiation Oncology Biology Physics*, **2015**, 92, 952-953	4	3
35	Radiosurgery Nomenclature: A Confusion of Tongues. *International Journal of Radiation Oncology Biology Physics*, **2015**, 92, 512-3	4	3
34	Impact of glycemia on survival of glioblastoma patients treated with radiation and temozolomide. *Journal of Neuro-Oncology*, **2015**, 124, 119-26	4.8	45
33	Quantitative Imaging in Radiation Oncology: An Emerging Science and Clinical Service. *Seminars in Radiation Oncology*, **2015**, 25, 292-304	5.5	15
32	Consensus recommendations for a standardized Brain Tumor Imaging Protocol in clinical trials. *Neuro-Oncology*, **2015**, 17, 1188-98	1	224
31	Evaluation of Apparent Diffusion Coefficient to Predict Grade, Microinvasion, and Invasion in Ductal Carcinoma In Situ of the Breast. *Academic Radiology*, **2015**, 22, 1483-8	4.3	13
30	Automated voxel-based analysis of volumetric dynamic contrast-enhanced CT data improves measurement of serial changes in tumor vascular biomarkers. *International Journal of Radiation Oncology Biology Physics*, **2015**, 91, 48-57	4	14
29	Interventions for the treatment of brain radionecrosis after radiotherapy or radiosurgery. *The Cochrane Library*, **2015**,	5.2	2
28	Biology and clinical management challenges in meningioma. *American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting*, **2015**, e106-15	7.1	21
27	Advances in Magnetic Resonance Imaging and Positron Emission Tomography Imaging for Grading and Molecular Characterization of Glioma. *Seminars in Radiation Oncology*, **2015**, 25, 164-71	5.5	29
26	The relationship between corticosteroids and symptoms in patients with primary brain tumors: utility of the Dexamethasone Symptom Questionnaire-Chronic. *Neuro-Oncology*, **2015**, 17, 1114-20	1	16
25	Radiation therapy and grade II/III oligodendroglial tumors. *CNS Oncology*, **2015**, 4, 325-32	4	4
24	Predictors of breast radiotherapy plan modifications: quality assurance rounds in a large cancer centre. *Radiotherapy and Oncology*, **2015**, 114, 17-21	5.3	17
23	Image-guided, intensity-modulated radiation therapy (IG-IMRT) for skull base chordoma and chondrosarcoma: preliminary outcomes. *Neuro-Oncology*, **2015**, 17, 889-94	1	75
22	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.. *Journal of Clinical Oncology*, **2015**, 33, LBA4-LBA4	2.2	50
21	Imaging Biomarkers in Preclinical Studies on Brain Tumors. *Biomarkers in Disease*, **2015**, 391-413		1
20	Conditional probability of survival and post-progression survival in patients with glioblastoma in the temozolomide treatment era. *Journal of Neuro-Oncology*, **2014**, 117, 153-60	4.8	21
19	Factors impacting survival following second surgery in patients with glioblastoma in the temozolomide treatment era, incorporating neutrophil/lymphocyte ratio and time to first progression. *Journal of Neuro-Oncology*, **2014**, 117, 147-52	4.8	62

18	Salvage radiosurgery for brain metastases: prognostic factors to consider in patient selection. *International Journal of Radiation Oncology Biology Physics*, **2014**, 88, 137-42	4	41
17	MRI biomarkers identify the differential response of glioblastoma multiforme to anti-angiogenic therapy. *Neuro-Oncology*, **2014**, 16, 868-79	1	39
16	Radiotherapy for breast cancer, the TARGIT-A trial. *Lancet, The*, **2014**, 383, 1717	40	10
15	Orbital radiation therapy for GravesℝOphthalmopathy: measuring clinical efficacy and impact. *Practical Radiation Oncology*, **2014**, 4, 233-9	2.8	21
14	Imaging Biomarkers in Preclinical Studies on Brain Tumors **2014**, 1-19		
13	Imaging biomarker dynamics in an intracranial murine glioma study of radiation and antiangiogenic therapy. *International Journal of Radiation Oncology Biology Physics*, **2013**, 85, 805-12	4	27
12	Cone beam computed tomography image guidance system for a dedicated intracranial radiosurgery treatment unit. *International Journal of Radiation Oncology Biology Physics*, **2013**, 85, 243-50	4	29
11	In reply to Cheung. *International Journal of Radiation Oncology Biology Physics*, **2013**, 85, 291-2	4	
10	High-grade intracranial chondrosarcoma presenting with haemorrhage. *Journal of Clinical Neuroscience*, **2013**, 20, 1457-60	2.2	6
9	Gamma knife radiosurgery for the treatment of cystic cerebral metastases. *International Journal of Radiation Oncology Biology Physics*, **2013**, 85, 667-71	4	14
8	Orthovoltage radiotherapy in the management of medial canthal basal cell carcinoma. *British Journal of Ophthalmology*, **2013**, 97, 730-4	5.5	23
7	Update on the current management of glioblastoma. *Clinical Practice (London, England)*, **2013**, 10, 157-165		
6	Stereotactic radiosurgery for the treatment of melanoma and renal cell carcinoma brain metastases. *Oncology Reports*, **2013**, 29, 407-12	3.5	43
5	Primary Tumors of the Central Nervous System **2013**, 113-125		
4	Impact of endocrine therapy in early-stage breast cancer on time to locoregional recurrence.. *Journal of Clinical Oncology*, **2013**, 31, 64-64	2.2	
3	Radiation recall dermatitis triggered by multi-targeted tyrosine kinase inhibitors: sunitinib and sorafenib. *Anti-Cancer Drugs*, **2010**, 21, 206-9	2.4	27
2	Radiation recall reaction induced by adjuvant trastuzumab (herceptin). *Case Reports in Medicine*, **2009**, 2009, 307894	0.7	11
1	A rare case of isolated duodenal metastases from hepatocellular carcinoma associated with p53 and ki-67 expression: a case report. *Cases Journal*, **2009**, 2, 9344		6