Samuel T Chao

List of Publications by Year
in descending order

117 papers	5,010 citations	156536 32 h-index	107981 68 g-index
123 all docs	123 docs citations	123 times ranked	5549 citing authors

#	Article	IF	Citations
1	Thecal Sac Contouring as a Surrogate for the Cauda Equina and Intracanal Spinal Nerve Roots for Spine Stereotactic Body Radiation Therapy (SBRT): Contour Variability and Recommendations for Safe Practice. International Journal of Radiation Oncology Biology Physics, 2022, 112, 114-120.	0.4	11
2	American Brachytherapy Society radiation oncology alternative payment model task force: Quality measures and metrics for brachytherapy. Brachytherapy, 2022, 21, 63-74.	0.2	3
3	Quality of life following concurrent temozolomide-based chemoradiation therapy or observation in low-grade glioma. Journal of Neuro-Oncology, 2022, 156, 499-507.	1.4	1
4	Executive summary of American Radium Societyâ€™s appropriate use criteria for the postoperative management of lower grade gliomas. Radiotherapy and Oncology, 2022, 170, 79-88.	0.3	2
5	A new conformity and dose gradient distance measure for stereotactic radiosurgery of brain metastasis.. Journal of Radiosurgery and SBRT, 2022, 8, 27-36.	0.2	0
6	Cognitive function after concurrent temozolomide-based chemoradiation therapy in low-grade gliomas. Journal of Neuro-Oncology, 2022, 158, 341-348.	1.4	5
7	Optimal management of brainstem metastases: a narrative review. Chinese Clinical Oncology, 2022, 11, 15-15.	0.4	2
8	Radiotherapy to the brain: what are the consequences of this age-old treatment?. Annals of Palliative Medicine, 2021, 10, 936-952.	0.5	11
9	The effect of Gamma Knife radiosurgery on large posterior fossa metastases and the associated mass effect from peritumoral edema. Journal of Neurosurgery, 2021, 134, 466-474.	0.9	2
10	Neutrophil to lymphocyte ratio influences impact of steroids on efficacy of immune checkpoint inhibitors in lung cancer brain metastases. Scientific Reports, 2021, 11, 7490.	1.6	8
11	Factors associated with adjacent-level tumor progression in patients receiving surgery followed by radiosurgery for metastatic epidural spinal cord compression. Neurosurgical Focus, 2021, 50, E15.	1.0	2
12	Radiation Necrosis from Stereotactic Radiosurgeryâ€”How Do We Mitigate?. Current Treatment Options in Oncology, 2021, 22, 57.	1.3	19
13	Letter regarding â€œContribution of PET imaging to radiotherapy planning and monitoring in glioma patientsâ€”a report of the PET/RANO groupâ€• 18F-fluciclovine and target volume delineation. Neuro-Oncology, 2021, 23, 1408-1409.	0.6	1
14	A Volumetric Dosimetry Analysis of Vertebral Body Fracture Risk After Single Fraction Spine Stereotactic Body Radiation Therapy. Practical Radiation Oncology, 2021, 11, 480-487.	1.1	3
15	NEIM-02. TRIAL IN PROGRESS: A MULTICENTER PHASE 3 STUDY TO ESTABLISH THE DIAGNOSTIC PERFORMANCE OF 18F-FLUCICLOVINE PET IN DETECTING RECURRENT BRAIN METASTASES AFTER RADIATION THERAPY (REVELATE). Neuro-Oncology Advances, 2021, 3, iv6-iv7.	0.4	0
16	Impact of KRAS mutation status on the efficacy of immunotherapy in lung cancer brain metastases. Scientific Reports, 2021, 11, 18174.	1.6	15
17	Preoperative Radiosurgery for Resected Brain Metastases: The PROPS-BM Multicenter Cohort Study. International Journal of Radiation Oncology Biology Physics, 2021, 111, 764-772.	0.4	38
18	The Judicious Use of Stereotactic Radiosurgery and Hypofractionated Stereotactic Radiotherapy in the Management of Large Brain Metastases. Cancers, 2021, 13, 70.	1.7	12

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19	Is there a volume threshold of brain metastases for Linac-based stereotactic radiotherapy?. Journal of Radiosurgery and SBRT, 2021, 7, 309-319.	0.2	1
20	Impact of EGFR mutation and ALK rearrangement on the outcomes of nonâ€“small cell lung cancer patients with brain metastasis. Neuro-Oncology, 2020, 22, 267-277.	0.6	22
21	Multi-institutional validation of brain metastasis velocity, a recently defined predictor of outcomes following stereotactic radiosurgery. Radiotherapy and Oncology, 2020, 142, 168-174.	0.3	29
22	Nodular Leptomeningeal Diseaseâ€"A Distinct Pattern of Recurrence After Postresection Stereotactic Radiosurgery for Brain Metastases: A Multi-institutional Study of Interobserver Reliability. International Journal of Radiation Oncology Biology Physics, 2020, 106, 579-586.	0.4	30
23	Commentary: Postoperative Stereotactic Body Radiotherapy for Spinal Metastases and the Impact of Epidural Disease Grade. Neurosurgery, 2020, 86, E91-E92.	0.6	0
24	Pathologic Correlation of Cellular Imaging Using Apparent Diffusion Coefficient Quantification in Patients with Brain Metastases After Gamma Knife Radiosurgery. World Neurosurgery, 2020, 134, e903-e912.	0.7	5
25	International consensus recommendations for target volume delineation specific to sacral metastases and spinal stereotactic body radiation therapy (SBRT). Radiotherapy and Oncology, 2020, 145, 21-29.	0.3	40
26	Treatment planning of VMAT and stepâ€andâ€shoot IMRT delivery techniques for single fraction spine SBRT: An intercomparative dosimetric analysis and phantomâ€based quality assurance measurements. Journal of Applied Clinical Medical Physics, 2020, 21, 62-68.	0.8	3
27	Executive summary from American Radium Societyâ€™s appropriate use criteria on neurocognition after stereotactic radiosurgery for multiple brain metastases. Neuro-Oncology, 2020, 22, 1728-1741.	0.6	19
28	Radiation Fractionation Schedules Published During the COVID-19 Pandemic: A Systematic Review of the Quality of Evidence and Recommendations for Future Development. International Journal of Radiation Oncology Biology Physics, 2020, 108, 379-389.	0.4	47
29	Aggressive Local Control With Multisite Stereotactic Body Radiation in Metastatic Ewing Sarcoma: A Literature Review and Case Report. Anticancer Research, 2020, 40, 951-955.	0.5	5
30	External beam radiation therapy for meningioma. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 170, 259-278.	1.0	1
31	Current approaches to the management of brain metastases. Nature Reviews Clinical Oncology, 2020, 17, 279-299.	12.5	276
32	Analyzing the role of adjuvant or salvage radiotherapy for spinal myxopapillary ependymomas. Journal of Neurosurgery: Spine, 2020, 33, 392-397.	0.9	6
33	Pretreatment Volume of MRI-Determined White Matter Injury Predicts Neurocognitive Decline After Hippocampal Avoidant Whole-Brain Radiation Therapy for Brain Metastases: Secondary Analysis of NRG Oncology Radiation Therapy Oncology Group 0933. Advances in Radiation Oncology, 2019, 4, 579-586.	0.6	17
34	Malignant Transformation of Molecularly Classified Adult Low-Grade Glioma. International Journal of Radiation Oncology Biology Physics, 2019, 105, 1106-1112.	0.4	39
35	Single versus Multifraction Stereotactic Radiosurgery for Large Brain Metastases: An International Meta-analysis of 24 Trials. International Journal of Radiation Oncology Biology Physics, 2019, 103, 618-630.	0.4	168
36	Risk Factors for Progression Among Low-Grade Gliomas After Gross Total Resection and Initial Observation in the Molecular Era. International Journal of Radiation Oncology Biology Physics, 2019, 104, 1099-1105.	0.4	8

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37	Commentary: Image-Guided, Linac-Based, Surgical Cavity-Hypofractionated Stereotactic Radiotherapy in 5 Daily Fractions for Brain Metastases. Neurosurgery, 2019, 85, E870-E871.	0.6	0
38	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.	0.4	89
39	Targeted Therapy After Brain Radiotherapy for BRAF-Mutated Melanoma With Extensive Ependymal Disease With Prolonged Survival: Case Report and Review of the Literature. Frontiers in Oncology, 2019, 9, 168.	1.3	3
40	The impact of sequencing PD-1/PD-L1 inhibitors and stereotactic radiosurgery for patients with brain metastasis. Neuro-Oncology, 2019, 21, 1060-1068.	0.6	76
41	Treatment plan quality and delivery accuracy assessments on 3 IMRT delivery methods of stereotactic body radiotherapy for spine tumors. Medical Dosimetry, 2019, 44, 11-14.	0.4	5
42	Influence of Residual Disease Following Surgical Resection in Newly Diagnosed Glioblastoma on Clinical, Neurocognitive, and Patient Reported Outcomes. Neurosurgery, 2019, 84, 66-76.	0.6	7
43	Outcomes and prognostic stratification of patients with recurrent glioblastoma treated with salvage stereotactic radiosurgery. Journal of Neurosurgery, 2019, 131, 489-499.	0.9	22
44	Stereotactic body radiotherapy for benign spinal tumors: Meningiomas, schwannomas, and neurofibromas. Journal of Radiosurgery and SBRT, 2019, 6, 167-177.	0.2	2
45	Risk Factors for Malignant Transformation of Low-Grade Glioma. International Journal of Radiation Oncology Biology Physics, 2018, 100, 965-971.	0.4	64
46	Recursive partitioning analysis is predictive of overall survival for patients undergoing spine stereotactic radiosurgery. Journal of Neuro-Oncology, 2018, 137, 289-293.	1.4	7
47	Long-Term Outcome Following Stereotactic Radiosurgery for Glomus Jugulare Tumors: A Single Institution Experience of 20 Years. Neurosurgery, 2018, 83, 1007-1014.	0.6	17
48	Stereotactic Radiosurgery in the Management of Limited (1-4) Brain Metasteses: Systematic Review and International Stereotactic Radiosurgery Society Practice Guideline. Neurosurgery, 2018, 83, 345-353.	0.6	64
49	Population description and clinical response assessment for spinal metastases: part 2 of the SPIne response assessment in Neuro-Oncology (SPINO) group report. Neuro-Oncology, 2018, 20, 1215-1224.	0.6	12
50	Evaluation of Prognostic Factors for Early Mortality After Stereotactic Radiosurgery for Brain Metastases: a Single Institutional Retrospective Review. Neurosurgery, 2018, 83, 128-136.	0.6	2
51	Phase I Trial of Radiosurgery Dose Escalation Plus Bevacizumab in Patients With Recurrent/Progressive Glioblastoma. Neurosurgery, 2018, 83, 385-392.	0.6	20
52	Validation of the Disease-Specific GPA for Patients With 1 to 3 Synchronous Brain Metastases in Newly Diagnosed NSCLC. Clinical Lung Cancer, 2018, 19, e141-e147.	1.1	8
53	Impact of 2-staged stereotactic radiosurgery for treatment of brain metastases â‰¥ 2 cm. Journal of Neurosurgery, 2018, 129, 366-382.	0.9	83
54	Melanoma brain metastasis: the impact of stereotactic radiosurgery, BRAF mutational status, and targeted and/or immune-based therapies on treatment outcome. Journal of Neurosurgery, 2018, 129, 50-59.	0.9	56

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55	Contemporary Management of 1â€“4 Brain Metastases. Frontiers in Oncology, 2018, 8, 385.	1.3	8
56	The evolution and rise of stereotactic body radiotherapy (SBRT) for spinal metastases. Expert Review of Anticancer Therapy, 2018, 18, 887-900.	1.1	30
57	Role of Stereotactic Radiosurgery in the Management of Brain and Spine Metastases. Current Cancer Therapy Reviews, 2018, 14, 55-67.	0.2	0
58	Expression of LC3B and FIP200/Atg17 in brain metastases of breast cancer. Journal of Neuro-Oncology, 2018, 140, 237-248.	1.4	7
59	Effect of Switching Systemic Treatment After Stereotactic Radiosurgery for Oligoprogressive, Metastatic Renal Cell Carcinoma. Clinical Genitourinary Cancer, 2018, 16, 413-419.e1.	0.9	21
60	Pain flare after stereotactic radiosurgery for spine metastases. Journal of Radiosurgery and SBRT, 2018, 5, 99-105.	0.2	4
61	Gamma Knife and volumetric modulated arc therapy stereotactic radiosurgery plan quality and OAR sparing comparison for pituitary adenomas and vestibular schwannomas. Journal of Radiosurgery and SBRT, 2018, 5, 237-247.	0.2	1
62	Single-Fraction Spine Stereotactic Body Radiation Therapy for the Treatment of Chordoma. Technology in Cancer Research and Treatment, 2017, 16, 302-309.	0.8	14
63	Stereotactic Radiosurgery for the Treatment of Primary and Metastatic Spinal Sarcomas. Technology in Cancer Research and Treatment, 2017, 16, 276-284.	0.8	25
64	The impact of tumor biology on survival and response to radiation therapy among patients with nonâ€“small cell lung cancer brain metastases. Practical Radiation Oncology, 2017, 7, e263-e273.	1.1	20
65	Overall survival and the response to radiotherapy among molecular subtypes of breast cancer brain metastases treated with targeted therapies. Cancer, 2017, 123, 2283-2293.	2.0	51
66	Stereotactic Radiosurgery for Trigeminal Neuralgia Improves Patient-Reported Quality of Life and Reduces Depression. International Journal of Radiation Oncology Biology Physics, 2017, 98, 1078-1086.	0.4	12
67	The risk of radiation necrosis following stereotactic radiosurgery with concurrent systemic therapies. Journal of Neuro-Oncology, 2017, 133, 357-368.	1.4	102
68	The Prognostic Role of Tumor Volume in the Outcome of Patients with Single Brain Metastasis After Stereotactic Radiosurgery. World Neurosurgery, 2017, 104, 229-238.	0.7	15
69	Three or More Courses of Stereotactic Radiosurgery for Patients with Multiply Recurrent Brain Metastases. Neurosurgery, 2017, 80, 871-879.	0.6	33
70	Quality of Life following Stereotactic Radiosurgery for Single and Multiple Brain Metastases. Neurosurgery, 2017, 81, 147-155.	0.6	19
71	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.	1.4	30
72	The impact of decompression with instrumentation on local failure following spine stereotactic radiosurgery. Journal of Neurosurgery: Spine, 2017, 27, 436-443.	0.9	8

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73	Postoperative stereotactic radiosurgery for limited brain metastases: are we ready for prime time?. Expert Review of Anticancer Therapy, 2017, 17, 775-777.	1.1	0
74	Cumulative Intracranial Tumor Volume and Number of Brain Metastasis as Predictors of Developing New Lesions After Stereotactic Radiosurgery for Brain Metastasis. World Neurosurgery, 2017, 106, 666-675.	0.7	12
75	First followâ€up radiographic response is one of the predictors of local tumor progression and radiation necrosis after stereotactic radiosurgery for brain metastases. Cancer Medicine, 2017, 6, 2076-2086.	1.3	16
76	Consensus guidelines for postoperative stereotactic body radiation therapy for spinal metastases: results of an international survey. Journal of Neurosurgery: Spine, 2017, 26, 299-306.	0.9	88
77	Longitudinal experience with WHO Grade III (anaplastic) meningiomas at a single institution. Journal of Neuro-Oncology, 2017, 131, 555-563.	1.4	37
78	Data-driven management using quantitative metric and automatic auditing program (QMAP) improves consistency of radiation oncology processes. Practical Radiation Oncology, 2017, 7, e215-e222.	1.1	3
79	Consensus Contouring Guidelines for Postoperative Stereotactic Body Radiation Therapy for Metastatic Solid Tumor MalignanciesÂto the Spine. International Journal of Radiation Oncology Biology Physics, 2017, 97, 64-74.	0.4	113
80	NCOG-03. COGNITIVE FUNCTION AND QUALITY OF LIFE AMONG LONG TERM SURVIVORS OF BRAIN METASTASES. Neuro-Oncology, 2016, 18, vi119-vi120.	0.6	0
81	ACTR-21. OCCURRENCE AND IMPLICATIONS OF MYELOSUPPRESSION DURING CONCURRENT THERAPY ON RTOG 0825. Neuro-Oncology, 2016, 18, vi6-vi6.	0.6	0
82	BMET-16. REVISED GRADED PROGNOSTIC ASSESSMENT FOR NON-SMALL CELL LUNG CANCER (NSCLC) BRAIN METASTASES (BM) IN THE ERA OF MOLECULAR PROFILING. Neuro-Oncology, 2016, 18, vi29-vi29.	0.6	0
83	EPID-08. TREATMENT OUTCOME FOR EPENDYMAL TUMORS IN THE UNITED STATES. Neuro-Oncology, 2016, 18, vi56-vi57.	0.6	0
84	MNGO-07. TREATMENT AND PROGNOSIS IN ADULT PATIENTS WITH MALIGNANT SPINAL CORD MENINGIOMA. Neuro-Oncology, 2016, 18, vi102-vi103.	0.6	0
85	Contemporary management of large-volume arteriovenous malformations: a clinicianâ€™s review. Journal of Radiation Oncology, 2016, 5, 239-248.	0.7	1
86	Radiation therapy for glioblastoma: Executive summary of an American Society for Radiation Oncology Evidence-Based Clinical Practice Guideline. Practical Radiation Oncology, 2016, 6, 217-225.	1.1	162
87	Trigeminal Neuralgia Treated With Stereotactic Radiosurgery: The Effect of Dose Escalation on Pain Control and Treatment Outcomes. International Journal of Radiation Oncology Biology Physics, 2016, 96, 142-148.	0.4	27
88	Association Between Radiation Necrosis and Tumor Biology After Stereotactic Radiosurgery for Brain Metastasis. International Journal of Radiation Oncology Biology Physics, 2016, 96, 1060-1069.	0.4	109
89	Gamma Knife radiosurgery for intracranial hemangioblastoma. Journal of Clinical Neuroscience, 2016, 31, 147-151.	0.8	11
90	A cure is possible: a study of 10-year survivors of brain metastases. Journal of Neuro-Oncology, 2016, 129, 545-555.	1.4	25

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91	SURG-17. GROSS TOTAL RESECTION OUTCOMES IN ADULT PATIENTS WITH BRAINSTEM GLIOMA. Neuro-Oncology, 2016, 18, vi194-vi194.	0.6	0
92	Quantitative Evaluation of Local Control and Wound Healing Following Surgery and Stereotactic Spine Radiosurgery for Spine Tumors. World Neurosurgery, 2016, 87, 48-54.	0.7	20
93	Radiosurgery for Pediatric Brain Tumors. Pediatric Blood and Cancer, 2016, 63, 398-405.	0.8	27
94	Treatment of Large Brain Metastases With Stereotactic Radiosurgery. Technology in Cancer Research and Treatment, 2016, 15, 186-195.	0.8	20
95	Management of Brain Metastasis in Patients With Pulmonary Neuroendocrine Carcinomas. Technology in Cancer Research and Treatment, 2016, 15, 566-572.	0.8	9
96	Pathology concordance levels for meningioma classification and grading in NRG Oncology RTOG Trial 0539. Neuro-Oncology, 2016, 18, 565-574.	0.6	91
97	Re-irradiation of central nervous system tumors. Journal of Radiation Oncology, 2015, 4, 105-115.	0.7	0
98	Single versus multiple session stereotactic body radiotherapy for spinal metastasis: the riskâ€“benefit ratio. Future Oncology, 2015, 11, 2405-2415.	1.1	20
99	Response assessment after stereotactic body radiotherapy for spinal metastasis: a report from the SPIne response assessment in Neuro-Oncology (SPINO) group. Lancet Oncology, The, 2015, 16, e595-e603.	5.1	170
100	Repeat stereotactic body radiotherapy for recurrent spinal tumors is feasible with accurate assessment of cumulative spinal cord dose. Journal of Radiation Oncology, 2014, 3, 185-193.	0.7	1
101	Workflow Enhancement (WE) Improves Safety in Radiation Oncology: Putting the WE and Team Together. International Journal of Radiation Oncology Biology Physics, 2014, 89, 765-772.	0.4	13
102	Brain metastasis and treatment. F1000prime Reports, 2014, 6, 114.	5.9	44
103	Challenges With the Diagnosis and Treatment of Cerebral Radiation Necrosis. International Journal of Radiation Oncology Biology Physics, 2013, 87, 449-457.	0.4	251
104	Prospective Study of the Short-Term Adverse Effects of Gamma Knife Radiosurgery. Technology in Cancer Research and Treatment, 2012, 11, 117-122.	0.8	19
105	Recursive Partitioning Analysis Index Is Predictive for Overall Survival in Patients Undergoing Spine Stereotactic Body Radiation Therapy for Spinal Metastases. International Journal of Radiation Oncology Biology Physics, 2012, 82, 1738-1743.	0.4	99
106	Effect of Tumor Subtype on Survival and the Graded Prognostic Assessment for Patients With Breast Cancer and Brain Metastases. International Journal of Radiation Oncology Biology Physics, 2012, 82, 2111-2117.	0.4	321
107	The efficacy of external beam radiotherapy and stereotactic body radiotherapy for painful spinal metastases from renal cell carcinoma. Practical Radiation Oncology, 2012, 2, e95-e100.	1.1	41
108	Stereotactic body radiotherapy for the treatment of spinal metastases. Journal of Radiation Oncology, 2012, 1, 255-265.	0.7	10

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109	Primary Central Nervous System Lymphoma in Elderly Patients: Clinical Outcomes and Prognosis. Blood, 2012, 120, 5083-5083.	0.6	0
110	Quality of life after gamma knife radiosurgery for benign lesions: a prospective study. Journal of Radiosurgery and SBRT, 2012, 1, 281-286.	0.2	0
111	Diagnosis-Specific Prognostic Factors, Indexes, and Treatment Outcomes for Patients With Newly Diagnosed Brain Metastases: A Multi-Institutional Analysis of 4,259 Patients. International Journal of Radiation Oncology Biology Physics, 2010, 77, 655-661.	0.4	873
112	Salvage stereotactic radiosurgery effectively treats recurrences from wholeâ€brain radiation therapy. Cancer, 2008, 113, 2198-2204.	2.0	100
113	Treatment of Heterotopic Ossification. Orthopedics, 2007, 30, 457-464.	0.5	41
114	External Beam Radiation Helps Prevent Heterotopic Bone Formation in Patients With a History of Heterotopic Ossification. Journal of Arthroplasty, 2006, 21, 731-736.	1.5	40
115	Five-year survivors of brain metastases: A single-institution report of 32 patients. International Journal of Radiation Oncology Biology Physics, 2006, 66, 801-809.	0.4	46
116	The sensitivity and specificity of FDG PET in distinguishing recurrent brain tumor from radionecrosis in patients treated with stereotactic radiosurgery. International Journal of Cancer, 2001, 96, 191-197.	2.3	356
117	The sensitivity and specificity of FDG PET in distinguishing recurrent brain tumor from radionecrosis in patients treated with stereotactic radiosurgery. International Journal of Cancer, 2001, 96, 191-197.	2.3	4