Samuel T Chao

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2915762/publications.pdf

Version: 2024-02-01

136950 95266 5,010 117 32 68 citations h-index g-index papers 123 123 123 5291 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	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.	0.8	873
2	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.	5.1	356
3	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.	0.8	321
4	Current approaches to the management of brain metastases. Nature Reviews Clinical Oncology, 2020, 17, 279-299.	27.6	276
5	Challenges With the Diagnosis and Treatment of Cerebral Radiation Necrosis. International Journal of Radiation Oncology Biology Physics, 2013, 87, 449-457.	0.8	251
6	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.	10.7	170
7	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.	0.8	168
8	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.	2.1	162
9	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.	0.8	113
10	Association Between Radiation Necrosis and Tumor Biology After Stereotactic Radiosurgery for Brain Metastasis. International Journal of Radiation Oncology Biology Physics, 2016, 96, 1060-1069.	0.8	109
11	The risk of radiation necrosis following stereotactic radiosurgery with concurrent systemic therapies. Journal of Neuro-Oncology, 2017, 133, 357-368.	2.9	102
12	Salvage stereotactic radiosurgery effectively treats recurrences from wholeâ€brain radiation therapy. Cancer, 2008, 113, 2198-2204.	4.1	100
13	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.	0.8	99
14	Pathology concordance levels for meningioma classification and grading in NRG Oncology RTOG Trial 0539. Neuro-Oncology, 2016, 18, 565-574.	1.2	91
15	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.	0.8	89
16	Consensus guidelines for postoperative stereotactic body radiation therapy for spinal metastases: results of an international survey. Journal of Neurosurgery: Spine, 2017, 26, 299-306.	1.7	88
17	Impact of 2-staged stereotactic radiosurgery for treatment of brain metastases ≥ 2 cm. Journal of Neurosurgery, 2018, 129, 366-382.	1.6	83
18	The impact of sequencing PD-1/PD-L1 inhibitors and stereotactic radiosurgery for patients with brain metastasis. Neuro-Oncology, 2019, 21, 1060-1068.	1.2	76

#	Article	IF	CITATIONS
19	Risk Factors for Malignant Transformation of Low-Grade Glioma. International Journal of Radiation Oncology Biology Physics, 2018, 100, 965-971.	0.8	64
20	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.	1.1	64
21	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.	1.6	56
22	Overall survival and the response to radiotherapy among molecular subtypes of breast cancer brain metastases treated with targeted therapies. Cancer, 2017, 123, 2283-2293.	4.1	51
23	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.	0.8	47
24	Five-year survivors of brain metastases: A single-institution report of 32 patients. International Journal of Radiation Oncology Biology Physics, 2006, 66, 801-809.	0.8	46
25	Brain metastasis and treatment. F1000prime Reports, 2014, 6, 114.	5.9	44
26	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.	2.1	41
27	Treatment of Heterotopic Ossification. Orthopedics, 2007, 30, 457-464.	1.1	41
28	External Beam Radiation Helps Prevent Heterotopic Bone Formation in Patients With a History of Heterotopic Ossification. Journal of Arthroplasty, 2006, 21, 731-736.	3.1	40
29	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.	0.6	40
30	Malignant Transformation of Molecularly Classified Adult Low-Grade Glioma. International Journal of Radiation Oncology Biology Physics, 2019, 105, 1106-1112.	0.8	39
31	Preoperative Radiosurgery for Resected Brain Metastases: The PROPS-BM Multicenter Cohort Study. International Journal of Radiation Oncology Biology Physics, 2021, 111, 764-772.	0.8	38
32	Longitudinal experience with WHO Grade III (anaplastic) meningiomas at a single institution. Journal of Neuro-Oncology, 2017, 131, 555-563.	2.9	37
33	Three or More Courses of Stereotactic Radiosurgery for Patients with Multiply Recurrent Brain Metastases. Neurosurgery, 2017, 80, 871-879.	1.1	33
34	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.	2.9	30
35	The evolution and rise of stereotactic body radiotherapy (SBRT) for spinal metastases. Expert Review of Anticancer Therapy, 2018, 18, 887-900.	2.4	30
36	Nodular Leptomeningeal Disease—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.	0.8	30

#	Article	IF	Citations
37	Multi-institutional validation of brain metastasis velocity, a recently defined predictor of outcomes following stereotactic radiosurgery. Radiotherapy and Oncology, 2020, 142, 168-174.	0.6	29
38	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.	0.8	27
39	Radiosurgery for Pediatric Brain Tumors. Pediatric Blood and Cancer, 2016, 63, 398-405.	1.5	27
40	A cure is possible: a study of 10-year survivors of brain metastases. Journal of Neuro-Oncology, 2016, 129, 545-555.	2.9	25
41	Stereotactic Radiosurgery for the Treatment of Primary and Metastatic Spinal Sarcomas. Technology in Cancer Research and Treatment, 2017, 16, 276-284.	1.9	25
42	Impact of EGFR mutation and ALK rearrangement on the outcomes of non–small cell lung cancer patients with brain metastasis. Neuro-Oncology, 2020, 22, 267-277.	1.2	22
43	Outcomes and prognostic stratification of patients with recurrent glioblastoma treated with salvage stereotactic radiosurgery. Journal of Neurosurgery, 2019, 131, 489-499.	1.6	22
44	Effect of Switching Systemic Treatment After Stereotactic Radiosurgery for Oligoprogressive, Metastatic Renal Cell Carcinoma. Clinical Genitourinary Cancer, 2018, 16, 413-419.e1.	1.9	21
45	Single versus multiple session stereotactic body radiotherapy for spinal metastasis: the risk–benefit ratio. Future Oncology, 2015, 11, 2405-2415.	2.4	20
46	Quantitative Evaluation of Local Control and Wound Healing Following Surgery and Stereotactic Spine Radiosurgery for Spine Tumors. World Neurosurgery, 2016, 87, 48-54.	1.3	20
47	Treatment of Large Brain Metastases With Stereotactic Radiosurgery. Technology in Cancer Research and Treatment, 2016, 15, 186-195.	1.9	20
48	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.	2.1	20
49	Phase I Trial of Radiosurgery Dose Escalation Plus Bevacizumab in Patients With Recurrent/Progressive Glioblastoma. Neurosurgery, 2018, 83, 385-392.	1.1	20
50	Prospective Study of the Short-Term Adverse Effects of Gamma Knife Radiosurgery. Technology in Cancer Research and Treatment, 2012, 11, 117-122.	1.9	19
51	Quality of Life following Stereotactic Radiosurgery for Single and Multiple Brain Metastases. Neurosurgery, 2017, 81, 147-155.	1.1	19
52	Executive summary from American Radium Society's appropriate use criteria on neurocognition after stereotactic radiosurgery for multiple brain metastases. Neuro-Oncology, 2020, 22, 1728-1741.	1.2	19
53	Radiation Necrosis from Stereotactic Radiosurgery—How Do We Mitigate?. Current Treatment Options in Oncology, 2021, 22, 57.	3.0	19
54	Long-Term Outcome Following Stereotactic Radiosurgery for Glomus Jugulare Tumors: A Single Institution Experience of 20 Years. Neurosurgery, 2018, 83, 1007-1014.	1.1	17

#	Article	IF	CITATIONS
55	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.	1.2	17
56	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.	2.8	16
57	The Prognostic Role of Tumor Volume in the Outcome of Patients with Single Brain Metastasis After Stereotactic Radiosurgery. World Neurosurgery, 2017, 104, 229-238.	1.3	15
58	Impact of KRAS mutation status on the efficacy of immunotherapy in lung cancer brain metastases. Scientific Reports, 2021, 11, 18174.	3.3	15
59	Single-Fraction Spine Stereotactic Body Radiation Therapy for the Treatment of Chordoma. Technology in Cancer Research and Treatment, 2017, 16, 302-309.	1.9	14
60	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.	0.8	13
61	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.	0.8	12
62	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.	1.3	12
63	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.	1.2	12
64	The Judicious Use of Stereotactic Radiosurgery and Hypofractionated Stereotactic Radiotherapy in the Management of Large Brain Metastases. Cancers, 2021, 13, 70.	3.7	12
65	Gamma Knife radiosurgery for intracranial hemangioblastoma. Journal of Clinical Neuroscience, 2016, 31, 147-151.	1.5	11
66	Radiotherapy to the brain: what are the consequences of this age-old treatment?. Annals of Palliative Medicine, 2021, 10, 936-952.	1.2	11
67	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.	0.8	11
68	Stereotactic body radiotherapy for the treatment of spinal metastases. Journal of Radiation Oncology, 2012, 1, 255-265.	0.7	10
69	Management of Brain Metastasis in Patients With Pulmonary Neuroendocrine Carcinomas. Technology in Cancer Research and Treatment, 2016, 15, 566-572.	1.9	9
70	The impact of decompression with instrumentation on local failure following spine stereotactic radiosurgery. Journal of Neurosurgery: Spine, 2017, 27, 436-443.	1.7	8
71	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.	2.6	8
72	Contemporary Management of 1–4 Brain Metastases. Frontiers in Oncology, 2018, 8, 385.	2.8	8

#	Article	IF	CITATIONS
73	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.	0.8	8
74	Neutrophil to lymphocyte ratio influences impact of steroids on efficacy of immune checkpoint inhibitors in lung cancer brain metastases. Scientific Reports, 2021, 11, 7490.	3.3	8
75	Recursive partitioning analysis is predictive of overall survival for patients undergoing spine stereotactic radiosurgery. Journal of Neuro-Oncology, 2018, 137, 289-293.	2.9	7
76	Expression of LC3B and FIP200/Atg17 in brain metastases of breast cancer. Journal of Neuro-Oncology, 2018, 140, 237-248.	2.9	7
77	Influence of Residual Disease Following Surgical Resection in Newly Diagnosed Glioblastoma on Clinical, Neurocognitive, and Patient Reported Outcomes. Neurosurgery, 2019, 84, 66-76.	1.1	7
78	Analyzing the role of adjuvant or salvage radiotherapy for spinal myxopapillary ependymomas. Journal of Neurosurgery: Spine, 2020, 33, 392-397.	1.7	6
79	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.	0.9	5
80	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.	1.3	5
81	Aggressive Local Control With Multisite Stereotactic Body Radiation in Metastatic Ewing Sarcoma: A Literature Review and Case Report. Anticancer Research, 2020, 40, 951-955.	1.1	5
82	Cognitive function after concurrent temozolomide-based chemoradiation therapy in low-grade gliomas. Journal of Neuro-Oncology, 2022, 158, 341-348.	2.9	5
83	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.	5.1	4
84	Pain flare after stereotactic radiosurgery for spine metastases. Journal of Radiosurgery and SBRT, 2018, 5, 99-105.	0.2	4
85	Data-driven management using quantitative metric and automatic auditing program (QMAP) improves consistency of radiation oncology processes. Practical Radiation Oncology, 2017, 7, e215-e222.	2.1	3
86	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.	2.8	3
87	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.	1.9	3
88	A Volumetric Dosimetry Analysis of Vertebral Body Fracture Risk After Single Fraction Spine Stereotactic Body Radiation Therapy. Practical Radiation Oncology, 2021, 11, 480-487.	2.1	3
89	American Brachytherapy Society radiation oncology alternative payment model task force: Quality measures and metrics for brachytherapy. Brachytherapy, 2022, 21, 63-74.	0.5	3
90	Evaluation of Prognostic Factors for Early Mortality After Stereotactic Radiosurgery for Brain Metastases: a Single Institutional Retrospective Review. Neurosurgery, 2018, 83, 128-136.	1.1	2

#	Article	IF	Citations
91	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.	1.6	2
92	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.	2.3	2
93	Stereotactic body radiotherapy for benign spinal tumors: Meningiomas, schwannomas, and neurofibromas. Journal of Radiosurgery and SBRT, 2019, 6, 167-177.	0.2	2
94	Executive summary of American Radium Society's appropriate use criteria for the postoperative management of lower grade gliomas. Radiotherapy and Oncology, 2022, 170, 79-88.	0.6	2
95	Optimal management of brainstem metastases: a narrative review. Chinese Clinical Oncology, 2022, 11, 15-15.	1.2	2
96	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
97	Contemporary management of large-volume arteriovenous malformations: a clinician's review. Journal of Radiation Oncology, 2016, 5, 239-248.	0.7	1
98	External beam radiation therapy for meningioma. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 170, 259-278.	1.8	1
99	Letter regarding "Contribution of PET imaging to radiotherapy planning and monitoring in glioma patientsâ€"a report of the PET/RANO group― 18F-fluciclovine and target volume delineation. Neuro-Oncology, 2021, 23, 1408-1409.	1.2	1
100	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
101	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
102	Quality of life following concurrent temozolomide-based chemoradiation therapy or observation in low-grade glioma. Journal of Neuro-Oncology, 2022, 156, 499-507.	2.9	1
103	Re-irradiation of central nervous system tumors. Journal of Radiation Oncology, 2015, 4, 105-115.	0.7	0
104	NCOG-03. COGNITIVE FUNCTION AND QUALITY OF LIFE AMONG LONG TERM SURVIVORS OF BRAIN METASTASES. Neuro-Oncology, 2016, 18, vi119-vi120.	1.2	0
105	ACTR-21. OCCURRENCE AND IMPLICATIONS OF MYELOSUPPRESSION DURING CONCURRENT THERAPY ON RTOG 0825. Neuro-Oncology, 2016, 18, vi6-vi6.	1.2	0
106	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.	1.2	0
107	EPID-08. TREATMENT OUTCOME FOR EPENDYMAL TUMORS IN THE UNITED STATES. Neuro-Oncology, 2016, 18, vi56-vi57.	1.2	0
108	MNGO-07. TREATMENT AND PROGNOSIS IN ADULT PATIENTS WITH MALIGNANT SPINAL CORD MENINGIOMA. Neuro-Oncology, 2016, 18, vi102-vi103.	1.2	0

#	Article	IF	CITATIONS
109	SURG-17. GROSS TOTAL RESECTION OUTCOMES IN ADULT PATIENTS WITH BRAINSTEM GLIOMA. Neuro-Oncology, 2016, 18, vi194-vi194.	1.2	0
110	Postoperative stereotactic radiosurgery for limited brain metastases: are we ready for prime time?. Expert Review of Anticancer Therapy, 2017, 17, 775-777.	2.4	0
111	Role of Stereotactic Radiosurgery in the Management of Brain and Spine Metastases. Current Cancer Therapy Reviews, 2018, 14, 55-67.	0.3	0
112	Commentary: Image-Guided, Linac-Based, Surgical Cavity-Hypofractionated Stereotactic Radiotherapy in 5 Daily Fractions for Brain Metastases. Neurosurgery, 2019, 85, E870-E871.	1.1	0
113	Commentary: Postoperative Stereotactic Body Radiotherapy for Spinal Metastases and the Impact of Epidural Disease Grade. Neurosurgery, 2020, 86, E91-E92.	1.1	0
114	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.	0.7	0
115	Primary Central Nervous System Lymphoma in Elderly Patients: Clinical Outcomes and Prognosis. Blood, 2012, 120, 5083-5083.	1.4	0
116	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
117	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