

Michael D Chan

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

4,145
citations

126907

33
h-index

128289

60
g-index

117
all docs

117
docs citations

117
times ranked

4750
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation-induced brain injury: A review. <i>Frontiers in Oncology</i> , 2012, 2, 73.	2.8	501
2	Loss of XIST in Breast Cancer Activates MSN-c-Met and Reprograms Microglia via Exosomal miRNA to Promote Brain Metastasis. <i>Cancer Research</i> , 2018, 78, 4316-4330.	0.9	233
3	Donepezil for Irradiated Brain Tumor Survivors: A Phase III Randomized Placebo-Controlled Clinical Trial. <i>Journal of Clinical Oncology</i> , 2015, 33, 1653-1659.	1.6	210
4	Cavity-directed radiosurgery as adjuvant therapy after resection of a brain metastasis. <i>Journal of Neurosurgery</i> , 2011, 114, 1585-1591.	1.6	156
5	Evaluation of First-line Radiosurgery vs Whole-Brain Radiotherapy for Small Cell Lung Cancer Brain Metastases. <i>JAMA Oncology</i> , 2020, 6, 1028.	7.1	122
6	Roles of the Cyclooxygenase 2 Matrix Metalloproteinase 1 Pathway in Brain Metastasis of Breast Cancer. <i>Journal of Biological Chemistry</i> , 2015, 290, 9842-9854.	3.4	109
7	Activation of the c-Met Pathway Mobilizes an Inflammatory Network in the Brain Microenvironment to Promote Brain Metastasis of Breast Cancer. <i>Cancer Research</i> , 2016, 76, 4970-4980.	0.9	102
8	Induction of Robust Type-I CD8+ T-cell Responses in WHO Grade 2 Low-Grade Glioma Patients Receiving Peptide-Based Vaccines in Combination with Poly-ICLC. <i>Clinical Cancer Research</i> , 2015, 21, 286-294.	7.0	92
9	Brain Metastasis Velocity: A Novel Prognostic Metric Predictive of Overall Survival and Freedom From Whole-Brain Radiation Therapy After Distant Brain Failure Following Upfront Radiosurgery Alone. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 98, 131-141.	0.8	91
10	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.	0.8	89
11	The effect of targeted agents on outcomes in patients with brain metastases from renal cell carcinoma treated with Gamma Knife surgery. <i>Journal of Neurosurgery</i> , 2012, 116, 978-983.	1.6	81
12	A nomogram for predicting distant brain failure in patients treated with gamma knife stereotactic radiosurgery without whole brain radiotherapy. <i>Neuro-Oncology</i> , 2014, 16, 1283-1288.	1.2	81
13	Repeat stereotactic radiosurgery as salvage therapy for locally recurrent brain metastases previously treated with radiosurgery. <i>Journal of Neurosurgery</i> , 2017, 127, 148-156.	1.6	80
14	Patterns of failure after treatment of atypical meningioma with gamma knife radiosurgery. <i>Journal of Neuro-Oncology</i> , 2012, 108, 179-185.	2.9	79
15	Predictive Variables for the Successful Treatment of Trigeminal Neuralgia With Gamma Knife Radiosurgery. <i>Neurosurgery</i> , 2012, 70, 566-573.	1.1	76
16	Chronic Administration of the Angiotensin-Converting Enzyme Inhibitor, Ramipril, Prevents Fractionated Whole-Brain Irradiation-Induced Perirhinal Cortex-Dependent Cognitive Impairment. <i>Radiation Research</i> , 2012, 178, 46.	1.5	73
17	Clinical and economic outcomes of patients with brain metastases based on symptoms: An argument for routine brain screening of those treated with upfront radiosurgery. <i>Cancer</i> , 2014, 120, 433-441.	4.1	70
18	Emerging Indications for Fractionated Gamma Knife Radiosurgery. <i>Neurosurgery</i> , 2017, 80, 210-216.	1.1	65

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19	Phase II double-blind placebo-controlled randomized study of armodafinil for brain radiation-induced fatigue. <i>Neuro-Oncology</i> , 2015, 17, 1393-1401.	1.2	62
20	Competing Risk Analysis of Neurologic versus Nonneurologic Death in Patients Undergoing Radiosurgical Salvage After Whole-Brain Radiation Therapy Failure: Who Actually Dies of Their Brain Metastases?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 92, 1008-1015.	0.8	60
21	Impact of systemic targeted agents on the clinical outcomes of patients with brain metastases. <i>Oncotarget</i> , 2015, 6, 18945-18955.	1.8	57
22	Risk factors for leptomeningeal carcinomatosis in patients with brain metastases who have previously undergone stereotactic radiosurgery. <i>Journal of Neuro-Oncology</i> , 2014, 120, 163-169.	2.9	55
23	Predictive Nomogram for the Durability of Pain Relief From Gamma Knife Radiation Surgery in the Treatment of Trigeminal Neuralgia. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 120-126.	0.8	49
24	Breast cancer subtype affects patterns of failure of brain metastases after treatment with stereotactic radiosurgery. <i>Journal of Neuro-Oncology</i> , 2012, 110, 381-388.	2.9	48
25	Staged Stereotactic Radiosurgery for Large Brain Metastases: Local Control and Clinical Outcomes of a One-Two Punch Technique. <i>Neurosurgery</i> , 2018, 83, 114-121.	1.1	48
26	Repeat Gamma Knife Radiosurgery for Trigeminal Neuralgia. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 81, 1059-1065.	0.8	47
27	Predictors of Survival, Neurologic Death, Local Failure, and Distant Failure After Gamma Knife Radiosurgery for Melanoma Brain Metastases. <i>World Neurosurgery</i> , 2014, 82, 1250-1255.	1.3	45
28	Ca ²⁺ and CACNA1H mediate targeted suppression of breast cancer brain metastasis by AM RF EMF. <i>EBioMedicine</i> , 2019, 44, 194-208.	6.1	45
29	Predictors of neurologic and nonneurologic death in patients with brain metastasis initially treated with upfront stereotactic radiosurgery without whole-brain radiation therapy. <i>Neuro-Oncology</i> , 2016, 19, 184.	1.2	44
30	A Phase II Clinical Trial of CPI-613 in Patients with Relapsed or Refractory Small Cell Lung Carcinoma. <i>PLoS ONE</i> , 2016, 11, e0164244.	2.5	43
31	Immunotherapy is associated with improved survival and decreased neurologic death after SRS for brain metastases from lung and melanoma primaries. <i>Neuro-Oncology Practice</i> , 2019, 6, 402-409.	1.6	43
32	Tumor Histology Predicts Patterns of Failure and Survival in Patients With Brain Metastases From Lung Cancer Treated With Gamma Knife Radiosurgery. <i>Neurosurgery</i> , 2013, 73, 641-647.	1.1	42
33	The Role of Surgery, Radiosurgery and Whole Brain Radiation Therapy in the Management of Patients with Metastatic Brain Tumors. <i>International Journal of Surgical Oncology</i> , 2012, 2012, 1-10.	0.6	37
34	Does Stereotactic Radiosurgery Have a Role in the Management of Patients Presenting With 4 or More Brain Metastases?. <i>Neurosurgery</i> , 2019, 84, 558-566.	1.1	36
35	DCGAN: Pseudoprogession and true tumor progression of glioblastoma multiforme image classification based on DCGAN and AlexNet. <i>Medical Physics</i> , 2020, 47, 1139-1150.	3.0	35
36	Single-Institution Retrospective Series of Gamma Knife Radiosurgery in the Treatment of Multiple Sclerosis-Related Trigeminal Neuralgia: Factors that Predict Efficacy. <i>Stereotactic and Functional Neurosurgery</i> , 2014, 92, 53-58.	1.5	33

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37	Repeat Radiosurgery for Trigeminal Neuralgia. <i>Neurosurgery</i> , 2015, 77, 755-761.	1.1	33
38	Tumor resection with carmustine wafer placement as salvage therapy after local failure of radiosurgery for brain metastasis. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 561-565.	1.5	31
39	Treatment of Radiation-Induced Cognitive Decline in Adult Brain Tumor Patients. <i>Current Treatment Options in Oncology</i> , 2019, 20, 42.	3.0	31
40	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.	2.9	30
41	Stratification of pseudoprogression and true progression of glioblastoma multiform based on longitudinal diffusion tensor imaging without segmentation. <i>Medical Physics</i> , 2016, 43, 5889-5902.	3.0	29
42	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.	0.6	29
43	Multi-Omics Analysis of Brain Metastasis Outcomes Following Craniotomy. <i>Frontiers in Oncology</i> , 2020, 10, 615472.	2.8	29
44	Identification of biomarkers for pseudo and true progression of GBM based on radiogenomics study. <i>Oncotarget</i> , 2016, 7, 55377-55394.	1.8	29
45	Hippocampal dose volume histogram predicts Hopkins Verbal Learning Test scores after brain irradiation. <i>Advances in Radiation Oncology</i> , 2017, 2, 624-629.	1.2	28
46	Early or late radiotherapy following gross or subtotal resection for atypical meningiomas: Clinical outcomes and local control. <i>Journal of Clinical Neuroscience</i> , 2017, 46, 90-98.	1.5	28
47	Patterns of recurrence after stereotactic radiosurgery for treatment of meningiomas. <i>Neurosurgical Focus</i> , 2013, 35, E14.	2.3	27
48	Surgical resection and postoperative radiosurgery versus staged radiosurgery for large brain metastases. <i>Journal of Neuro-Oncology</i> , 2018, 140, 749-756.	2.9	27
49	Truncated Glioma-Associated Oncogene Homolog 1 (tGLI1) Mediates Mesenchymal Glioblastoma via Transcriptional Activation of CD44. <i>Cancer Research</i> , 2018, 78, 2589-2600.	0.9	26
50	Is There a Tumor Volume Threshold for Postradiosurgical Symptoms? A Single-Institution Analysis. <i>Neurosurgery</i> , 2014, 75, 536-545.	1.1	25
51	Gamma Knife radiosurgery for meningiomas in patients with neurofibromatosis Type 2. <i>Journal of Neurosurgery</i> , 2015, 122, 536-542.	1.6	25
52	Mild cognitive impairment in long-term brain tumor survivors following brain irradiation. <i>Journal of Neuro-Oncology</i> , 2019, 141, 235-244.	2.9	25
53	Stereotactic Radiosurgical Treatment of Glomus Jugulare Tumors. <i>Otology and Neurotology</i> , 2017, 38, 555-562.	1.3	24
54	Use of 3.0-T MRI for Stereotactic Radiosurgery Planning for Treatment of Brain Metastases: A Single-Institution Retrospective Review. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 1142-1146.	0.8	21

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55	The Effects of smoking status and smoking history on patients with brain metastases from lung cancer. <i>Cancer Medicine</i> , 2017, 6, 944-952.	2.8	21
56	Limited-Stage Small Cell Lung Cancer: Is Prophylactic Cranial Irradiation Necessary?. <i>Practical Radiation Oncology</i> , 2019, 9, e599-e607.	2.1	21
57	MRI evaluation of the effects of whole brain radiotherapy on breast cancer brain metastasis. <i>International Journal of Radiation Biology</i> , 2019, 95, 338-346.	1.8	20
58	Predictors of Adverse Radiation Effect in Brain Metastasis Patients Treated With Stereotactic Radiosurgery and Immune Checkpoint Inhibitor Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 108, 295-303.	0.8	20
59	Initial brain metastasis velocity: does the rate at which cancers first seed the brain affect outcomes?. <i>Journal of Neuro-Oncology</i> , 2018, 139, 461-467.	2.9	19
60	Clinical Outcomes of Upfront Stereotactic Radiosurgery Alone for Patients With 5 to 15 Brain Metastases. <i>Neurosurgery</i> , 2019, 85, 257-263.	1.1	19
61	Local control outcomes for combination of stereotactic radiosurgery and immunotherapy for non-small cell lung cancer brain metastases. <i>Journal of Neuro-Oncology</i> , 2022, 157, 101-107.	2.9	19
62	Impact of timing of radiotherapy in patients with newly diagnosed glioblastoma. <i>Clinical Neurology and Neurosurgery</i> , 2016, 151, 73-78.	1.4	18
63	Recent advances in radiosurgical management of brain metastases. <i>Frontiers in Bioscience - Scholar</i> , 2016, 8, 203-214.	2.1	17
64	Taste and smell disturbances after brain irradiation: A dose-volume histogram analysis of a prospective observational study. <i>Practical Radiation Oncology</i> , 2014, 4, 130-135.	2.1	16
65	Gamma Knife Stereotactic Radiosurgery for Radiation-Induced Meningiomas. <i>Stereotactic and Functional Neurosurgery</i> , 2012, 90, 365-369.	1.5	15
66	Clinical outcomes of brain metastases treated with Gamma Knife radiosurgery with 3.0% T versus 1.5% T MRI-based treatment planning: Have we finally optimised detection of occult brain metastases?. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2012, 56, 554-560.	1.8	15
67	Glioblastoma radiomics: can genomic and molecular characteristics correlate with imaging response patterns?. <i>Neuroradiology</i> , 2018, 60, 1043-1051.	2.2	15
68	Stereotactic Radiosurgery for Atypical and Anaplastic Meningiomas. <i>World Neurosurgery</i> , 2020, 144, e53-e61.	1.3	15
69	Radiosurgical Management of Trigeminal Neuralgia. <i>Neurosurgery Clinics of North America</i> , 2013, 24, 613-621.	1.7	14
70	CT-only planning for Gamma Knife radiosurgery in the treatment of trigeminal neuralgia: Methodology and outcomes from a single institution. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2012, 56, 490-494.	1.8	13
71	The Future Is Now! Prospective Study of Radiosurgery for More Than 4 Brain Metastases to Start in 2018!. <i>Frontiers in Oncology</i> , 2018, 8, 380.	2.8	13
72	Gamma Knife Radiosurgery for Multiple Sclerosis-Associated Trigeminal Neuralgia. <i>Neurosurgery</i> , 2019, 85, E933-E939.	1.1	13

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73	Pseudo progression identification of glioblastoma with dictionary learning. <i>Computers in Biology and Medicine</i> , 2016, 73, 94-101.	7.0	12
74	Safety of pioglitazone during and after radiation therapy in patients with brain tumors: a phase I clinical trial. <i>Journal of Cancer Research and Clinical Oncology</i> , 2019, 145, 337-344.	2.5	12
75	Sociodemographic predictors of patients with brain metastases treated with stereotactic radiosurgery. <i>Oncotarget</i> , 2017, 8, 101005-101011.	1.8	12
76	Gamma Knife Stereotactic Radiosurgery favorably changes the clinical course of hemangioblastoma growth in von Hippel-Lindau and sporadic patients. <i>Journal of Neuro-Oncology</i> , 2019, 142, 471-478.	2.9	11
77	Impact of brain metastasis velocity on neurologic death for brain metastasis patients experiencing distant brain failure after initial stereotactic radiosurgery. <i>Journal of Neuro-Oncology</i> , 2020, 146, 285-292.	2.9	11
78	Identification of CD37, cystatin A, and IL-23A gene expression in association with brain metastasis: analysis of a prospective trial. <i>International Journal of Biological Markers</i> , 2019, 34, 90-97.	1.8	10
79	Genomic predictors of patterns of progression in glioblastoma and possible influences on radiation field design. <i>Journal of Neuro-Oncology</i> , 2015, 124, 447-453.	2.9	9
80	Recent Technical Advances and Indications for Radiation Therapy in Low-Grade Glioma. <i>Seminars in Radiation Oncology</i> , 2015, 25, 189-196.	2.2	9
81	Treatment of brain metastases of lung cancer in the era of precision medicine. <i>Frontiers in Bioscience - Elite</i> , 2016, 8, 219-232.	1.8	9
82	Leptomeningeal failure in patients with breast cancer receiving stereotactic radiosurgery for brain metastases. <i>Journal of Clinical Neuroscience</i> , 2017, 43, 6-10.	1.5	8
83	Proton Therapy for Brain Metastases: A Question of Value. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 830-832.	0.8	8
84	Multiparametric radiomic tissue signature and machine learning for distinguishing radiation necrosis from tumor progression after stereotactic radiosurgery. <i>Neuro-Oncology Advances</i> , 2021, 3, vdab150.	0.7	8
85	Results of a third Gamma Knife radiosurgery for trigeminal neuralgia. <i>Journal of Neurosurgery</i> , 2021, 134, 1237-1243.	1.6	7
86	Clinical assessment of a biophysical model for distinguishing tumor progression from radiation necrosis. <i>Medical Physics</i> , 2021, 48, 3852-3859.	3.0	7
87	Factors that determine local control with gamma knife radiosurgery: The role of primary histology. <i>Journal of Radiosurgery and SBRT</i> , 2015, 3, 281-286.	0.2	7
88	Gamma Knife radiosurgery for brain metastases from gastrointestinal primary. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2017, 61, 522-527.	1.8	6
89	Analysis of the drivers of cost of management when patients with brain metastases are treated with upfront radiosurgery. <i>Clinical Neurology and Neurosurgery</i> , 2019, 176, 10-14.	1.4	5
90	TrkA Interacts with and Phosphorylates STAT3 to Enhance Gene Transcription and Promote Breast Cancer Stem Cells in Triple-Negative and HER2-Enriched Breast Cancers. <i>Cancers</i> , 2021, 13, 2340.	3.7	5

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91	Local control of brain metastases after stereotactic radiosurgery: the impact of whole brain radiotherapy and treatment paradigm. <i>Journal of Radiosurgery and SBRT</i> , 2016, 4, 89-96.	0.2	5
92	Potential prognostic markers for survival and neurologic death in patients with breast cancer brain metastases who receive upfront SRS alone. <i>Journal of Radiosurgery and SBRT</i> , 2018, 5, 277-283.	0.2	5
93	Analysis of visual toxicity after gamma knife radiosurgery for treatment of choroidal melanoma: identification of multiple targets and mechanisms of toxicity. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2011, 34, 517-23.	1.3	5
94	CD138 plasma cells may predict brain metastasis recurrence following resection and stereotactic radiosurgery. <i>Scientific Reports</i> , 2019, 9, 14385.	3.3	4
95	Virtual Radiation Oncology Peer Review is Associated With Decreased Engagement and Limited Case Discussion: Analysis of a Prospective Database Before and During the COVID-19 Pandemic. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 113, 727-731.	0.8	4
96	The number of prior lines of systemic therapy as a prognostic factor for patients with brain metastases treated with stereotactic radiosurgery: Results of a large single institution retrospective analysis. <i>Clinical Neurology and Neurosurgery</i> , 2018, 165, 24-28.	1.4	3
97	Management of Unruptured AVMs: The Pendulum Swings. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, 687-689.	0.8	3
98	Comprehensive and Computable Molecular Diagnostic Panel (C2Dx) From Small Volume Specimens for Precision Oncology: Molecular Subtyping of Non-Small Cell Lung Cancer From Fine Needle Aspirates. <i>Frontiers in Oncology</i> , 2021, 11, 584896.	2.8	3
99	Benign Brain Tumors. , 2016, , 483-501.e5.		2
100	In Reply to the Letter to the Editor Regarding "Stereotactic Radiosurgery for Atypical and Anaplastic Meningiomas" World Neurosurgery, 2020, 144, 325.	1.3	2
101	Gamma Knife radiosurgery for bilateral trigeminal neuralgia. <i>Journal of Neurosurgery</i> , 2019, 131, 1591-1598.	1.6	2
102	Successful application of stereotactic radiosurgery for multiply recurrent Rathke's cleft cysts. <i>Journal of Neurosurgery</i> , 2020, 132, 832-836.	1.6	2
103	Impact of radiosurgical management of geriatric patients with brain metastases: Clinical and quality of life outcomes. <i>Journal of Radiosurgery and SBRT</i> , 2017, 5, 35-42.	0.2	2
104	Stereotactic radiosurgery in the treatment of brain metastases from gynecologic primary cancer. <i>Journal of Radiosurgery and SBRT</i> , 2017, 5, 55-61.	0.2	2
105	Atypical Meningioma: An Evolving Landscape and Moving Target. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 499-502.	0.8	1
106	The IMPACT of Molecular Grading of Gliomas on Contemporary Clinical Practice. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 859-862.	0.8	1
107	Discovery of a predictive protein biomarker for leptomeningeal disease after craniotomy and radiation.. <i>Journal of Clinical Oncology</i> , 2018, 36, 2068-2068.	1.6	1
108	Brain metastasis prognostic nomograms and brain metastasis velocity: a narrative review. <i>Chinese Clinical Oncology</i> , 2022, 11, 10-10.	1.2	1

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109	Cavernous sinus metastases treated with gamma knife stereotactic radiosurgery. Journal of Radiosurgery and SBRT, 2014, 3, 131-137.	0.2	1
110	Clinical Outcomes of Dose Escalated Re-Irradiation in Patients with Recurrent High Grade Glioma. Neuro-Oncology Practice, 0, , .	1.6	1
111	Gamma Knife Stereotactic Radiosurgery for the Treatment of Brain Metastases from Primary Tumors of the Urinary Bladder. Stereotactic and Functional Neurosurgery, 2018, 96, 108-112.	1.5	0
112	Approach to a patient with brain metastasis. , 2021, , 186-196.		0
113	Abstract 1979: JAK2/STAT3 and TrkA pathways are frequently co-activated in triple-negative and HER2-enriched breast cancers and the co-activation correlates with an increased potential of metastasis. , 2021, , .		0
114	Community socioeconomic status to identify higher-risk patients with malignant glioma.. Journal of Clinical Oncology, 2018, 36, 2060-2060.	1.6	0
115	Predictors of trigeminal nerve dysfunction following stereotactic radiosurgery for trigeminal neuralgia. Journal of Radiosurgery and SBRT, 2016, 4, 117-123.	0.2	0
116	Impact of diabetes mellitus on outcomes in patients with brain metastasis treated with stereotactic radiosurgery. Journal of Radiosurgery and SBRT, 2018, 5, 285-291.	0.2	0