

Daniel J Brat

List of Publications by Year in descending order

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97
papers

17,388
citations

53751

45
h-index

39638

94
g-index

105
all docs

105
docs citations

105
times ranked

18027
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2021 WHO Classification of Tumors of the Central Nervous System: a summary. <i>Neuro-Oncology</i> , 2021, 23, 1231-1251.	0.6	4,534
2	Comprehensive, Integrative Genomic Analysis of Diffuse Lower-Grade Gliomas. <i>New England Journal of Medicine</i> , 2015, 372, 2481-2498.	13.9	2,582
3	Molecular Profiling Reveals Biologically Discrete Subsets and Pathways of Progression in Diffuse Glioma. <i>Cell</i> , 2016, 164, 550-563.	13.5	1,695
4	Predicting cancer outcomes from histology and genomics using convolutional networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2970-E2979.	3.3	671
5	The role of interleukin-8 and its receptors in gliomagenesis and tumoral angiogenesis. <i>Neuro-Oncology</i> , 2005, 7, 122-133.	0.6	610
6	cIMPACT-NOW update 3: recommended diagnostic criteria for "Diffuse astrocytic glioma, IDH-wildtype, with molecular features of glioblastoma, WHO grade IV". <i>Acta Neuropathologica</i> , 2018, 136, 805-810.	3.9	599
7	International Society of Neuroanatomy and Neurochemistry consensus guidelines for nervous system tumor classification and grading. <i>Brain Pathology</i> , 2014, 24, 429-435.	2.1	499
8	Pseudopalisades in Glioblastoma Are Hypoxic, Express Extracellular Matrix Proteases, and Are Formed by an Actively Migrating Cell Population. <i>Cancer Research</i> , 2004, 64, 920-927.	0.4	401
9	cIMPACT-NOW update 6: new entity and diagnostic principle recommendations of the cIMPACT-Utrecht meeting on future CNS tumor classification and grading. <i>Brain Pathology</i> , 2020, 30, 844-856.	2.1	363
10	cIMPACT-NOW update 5: recommended grading criteria and terminologies for IDH-mutant astrocytomas. <i>Acta Neuropathologica</i> , 2020, 139, 603-608.	3.9	344
11	Whole-genome and multisector exome sequencing of primary and post-treatment glioblastoma reveals patterns of tumor evolution. <i>Genome Research</i> , 2015, 25, 316-327.	2.4	343
12	Longitudinal molecular trajectories of diffuse glioma in adults. <i>Nature</i> , 2019, 576, 112-120.	13.7	320
13	Genetic alterations in uncommon low-grade neuroepithelial tumors: BRAF, FGFR1, and MYB mutations occur at high frequency and align with morphology. <i>Acta Neuropathologica</i> , 2016, 131, 833-845.	3.9	288
14	6-Phosphogluconate dehydrogenase links oxidative PPP, lipogenesis and tumour growth by inhibiting LKB1-AMPK signalling. <i>Nature Cell Biology</i> , 2015, 17, 1484-1496.	4.6	224
15	The Tumor Microenvironment Strongly Impacts Master Transcriptional Regulators and Gene Expression Class of Glioblastoma. <i>American Journal of Pathology</i> , 2012, 180, 2108-2119.	1.9	220
16	Pituicytoma. <i>American Journal of Surgical Pathology</i> , 2000, 24, 362-368.	2.1	207
17	Tumor-Infiltrating Lymphocytes in Glioblastoma Are Associated with Specific Genomic Alterations and Related to Transcriptional Class. <i>Clinical Cancer Research</i> , 2013, 19, 4951-4960.	3.2	182
18	Predicting clinical outcomes from large scale cancer genomic profiles with deep survival models. <i>Scientific Reports</i> , 2017, 7, 11707.	1.6	167

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19	Wild-type microglia do not reverse pathology in mouse models of Rett syndrome. <i>Nature</i> , 2015, 521, E1-E4.	13.7	159
20	Cancer Digital Slide Archive: an informatics resource to support integrated in silico analysis of TCGA pathology data. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013, 20, 1091-1098.	2.2	149
21	Mutational landscape of gastric adenocarcinoma in Chinese: Implications for prognosis and therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1107-1112.	3.3	137
22	A first-in-human phase 0 clinical study of RNA interference-based spherical nucleic acids in patients with recurrent glioblastoma. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	136
23	Pediatric Neuroblastic Brain Tumors Containing Abundant Neuropil and True Rosettes. <i>Pediatric and Developmental Pathology</i> , 2000, 3, 346-352.	0.5	128
24	Astroblastoma: Clinicopathologic Features and Chromosomal Abnormalities Defined by Comparative Genomic Hybridization. <i>Brain Pathology</i> , 2000, 10, 342-352.	2.1	127
25	Announcing cIMPACT-NOW: the Consortium to Inform Molecular and Practical Approaches to CNS Tumor Taxonomy. <i>Acta Neuropathologica</i> , 2017, 133, 1-3.	3.9	120
26	A Revised Diagnostic Classification of Canine Glioma: Towards Validation of the Canine Glioma Patient as a Naturally Occurring Preclinical Model for Human Glioma. <i>Journal of Neuropathology and Experimental Neurology</i> , 2018, 77, 1039-1054.	0.9	105
27	Malignant Glioma Physiology: Cellular Response to Hypoxia and Its Role in Tumor Progression. <i>Annals of Internal Medicine</i> , 2003, 138, 659.	2.0	98
28	Machine-Based Morphologic Analysis of Glioblastoma Using Whole-Slide Pathology Images Uncovers Clinically Relevant Molecular Correlates. <i>PLoS ONE</i> , 2013, 8, e81049.	1.1	91
29	Genetic and Biologic Progression in Astrocytomas and Their Relation to Angiogenic Dysregulation. <i>Advances in Anatomic Pathology</i> , 2002, 9, 24-36.	2.4	88
30	Infiltrative Astrocytomas With Granular Cell Features (Granular Cell Astrocytomas). <i>American Journal of Surgical Pathology</i> , 2002, 26, 750-757.	2.1	77
31	Human Mesenchymal glioblastomas are characterized by an increased immune cell presence compared to Proneural and Classical tumors. <i>Oncolmmunology</i> , 2019, 8, e1655360.	2.1	76
32	Molecular Subtypes of Glioblastoma Are Relevant to Lower Grade Glioma. <i>PLoS ONE</i> , 2014, 9, e91216.	1.1	76
33	Biomarker-driven diagnosis of diffuse gliomas. <i>Molecular Aspects of Medicine</i> , 2015, 45, 87-96.	2.7	71
34	cIMPACT-NOW (the consortium to inform molecular and practical approaches to CNS tumor) <i>TJ ETQq0 0 0 rgBT /Overlock 10 Tf 50 14</i> 27, 851-852.	2.1	63
35	Genetic modulation of hypoxia induced gene expression and angiogenesis relevance to brain tumors. <i>Frontiers in Bioscience - Landmark</i> , 2003, 8, d100-116.	3.0	61
36	TRIM8 regulates stemness in glioblastoma through PIAS3-STAT3. <i>Molecular Oncology</i> , 2017, 11, 280-294.	2.1	56

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37	A recurrent kinase domain mutation in PRKCA defines chordoid glioma of the third ventricle. <i>Nature Communications</i> , 2018, 9, 810.	5.8	56
38	Intrasellar Pituicytoma in a Patient With Other Endocrine Neoplasms. <i>Archives of Pathology and Laboratory Medicine</i> , 2001, 125, 527-530.	1.2	56
39	Analysis of 1p, 19q, 9p, and 10q as prognostic markers for high-grade astrocytomas using fluorescence in situ hybridization on tissue microarrays from Radiation Therapy Oncology Group trials. <i>Neuro-Oncology</i> , 2004, 6, 96-103.	0.6	55
40	Congenital Glioblastoma: A Clinicopathologic and Genetic Analysis. <i>Brain Pathology</i> , 2007, 17, 276-281.	2.1	51
41	Pediatric Chordoid Glioma with Chondroid Metaplasia. <i>Pediatric and Developmental Pathology</i> , 2001, 4, 564-567.	0.5	50
42	Management of patients with recurrence of diffuse low grade glioma. <i>Journal of Neuro-Oncology</i> , 2015, 125, 609-630.	1.4	50
43	<i>Drosophila</i> Brat and Human Ortholog TRIM3 Maintain Stem Cell Equilibrium and Suppress Brain Tumorigenesis by Attenuating Notch Nuclear Transport. <i>Cancer Research</i> , 2016, 76, 2443-2452.	0.4	49
44	The medical necessity of advanced molecular testing in the diagnosis and treatment of brain tumor patients. <i>Neuro-Oncology</i> , 2019, 21, 1498-1508.	0.6	49
45	The Neuropsychiatric Disease-Associated Gene <i>cacna1c</i> Mediates Survival of Young Hippocampal Neurons. <i>ENeuro</i> , 2016, 3, ENEURO.0006-16.2016.	0.9	48
46	Interactive phenotyping of large-scale histology imaging data with HistomicsML. <i>Scientific Reports</i> , 2017, 7, 14588.	1.6	46
47	The impact of histopathology and NAB2-STAT6 fusion subtype in classification and grading of meningeal solitary fibrous tumor/hemangiopericytoma. <i>Acta Neuropathologica</i> , 2019, 137, 307-319.	3.9	44
48	[18F]Fluciclovine PET discrimination between high- and low-grade gliomas. <i>EJNMMI Research</i> , 2018, 8, 67.	1.1	42
49	Digital Pathology: Data-Intensive Frontier in Medical Imaging. <i>Proceedings of the IEEE</i> , 2012, 100, 991-1003.	16.4	39
50	Occupational-like organophosphate exposure disrupts microglia and accelerates deficits in a rat model of Alzheimer's disease. <i>Npj Aging and Mechanisms of Disease</i> , 2019, 5, 3.	4.5	39
51	ERK1/2 phosphorylation predicts survival following anti-PD-1 immunotherapy in recurrent glioblastoma. <i>Nature Cancer</i> , 2021, 2, 1372-1386.	5.7	39
52	CDK5 Inhibition Resolves PKA/cAMP-Independent Activation of CREB1 Signaling in Glioma Stem Cells. <i>Cell Reports</i> , 2018, 23, 1651-1664.	2.9	34
53	Tau-associated neuropathology in ganglion cell tumours increases with patient age but appears unrelated to ApoE genotype. <i>Neuropathology and Applied Neurobiology</i> , 2001, 27, 197-205.	1.8	32
54	Multi-faceted computational assessment of risk and progression in oligodendroglioma implicates NOTCH and PI3K pathways. <i>Npj Precision Oncology</i> , 2018, 2, 24.	2.3	32

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55	Surfenâ€mediated blockade of extratumoral chondroitin sulfate glycosaminoglycans inhibits glioblastoma invasion. <i>FASEB Journal</i> , 2019, 33, 11973-11992.	0.2	27
56	Hypoxia-inducible factors individually facilitate inflammatory myeloid metabolism and inefficient cardiac repair. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	27
57	Molecular biomarker-defined brain tumors: Epidemiology, validity, and completeness in the United States. <i>Neuro-Oncology</i> , 2022, 24, 1989-2000.	0.6	27
58	Farewell to GBM-O: Genomic and transcriptomic profiling of glioblastoma with oligodendroglioma component reveals distinct molecular subgroups. <i>Acta Neuropathologica Communications</i> , 2016, 4, 4.	2.4	26
59	Molecular Biomarker Testing for the Diagnosis of Diffuse Gliomas. <i>Archives of Pathology and Laboratory Medicine</i> , 2022, 146, 547-574.	1.2	25
60	Necrotic reshaping of the glioma microenvironment drives disease progression. <i>Acta Neuropathologica</i> , 2022, 143, 291-310.	3.9	23
61	Data Sets for the Reporting of Tumors of the Central Nervous System: Recommendations From The International Collaboration on Cancer Reporting. <i>Archives of Pathology and Laboratory Medicine</i> , 2020, 144, 196-206.	1.2	21
62	Genomic profiling of lower-grade gliomas uncovers cohesive disease groups: implications for diagnosis and treatment. <i>Chinese Journal of Cancer</i> , 2016, 35, 12.	4.9	19
63	Relative survival after diagnosis with a primary brain or other central nervous system tumor in the National Program of Cancer Registries, 2004 to 2014. <i>Neuro-Oncology Practice</i> , 2020, 7, 306-312.	1.0	18
64	Ectopic Cerebellum Presenting as a Suprasellar Mass in Infancy: Implications for Cerebellar Development. <i>Pediatric and Developmental Pathology</i> , 2001, 4, 89-93.	0.5	15
65	Drak/STK17A Drives Neoplastic Glial Proliferation through Modulation of MRLC Signaling. <i>Cancer Research</i> , 2019, 79, 1085-1097.	0.4	15
66	A novel mouse model of diffuse midline glioma initiated in neonatal oligodendrocyte progenitor cells highlights cellâ€ofâ€origin dependent effects of <sc>H3K27M</sc>. <i>Glia</i> , 2022, 70, 1681-1698.	2.5	15
67	Template for Reporting Results of Biomarker Testing of Specimens From Patients With Tumors of the Central Nervous System. <i>Archives of Pathology and Laboratory Medicine</i> , 2015, 139, 1087-1093.	1.2	13
68	High-grade glioma with pleomorphic and pseudopapillary features (HPAP): a proposed type of circumscribed glioma in adults harboring frequent TP53 mutations and recurrent monosomy 13. <i>Acta Neuropathologica</i> , 2022, 143, 403-414.	3.9	13
69	Methods for in vitro modeling of glioma invasion: Choosing tools to meet the need. <i>Glia</i> , 2020, 68, 2173-2191.	2.5	12
70	Glioblastoma: Biology, Genetics, and Behavior. American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting, 2012, , 102-107.	1.8	11
71	A tumor suppressor role for EZH2 in diffuse midline glioma pathogenesis. <i>Acta Neuropathologica Communications</i> , 2022, 10, 47.	2.4	11
72	The role of neuropathology in the management of progressive glioblastoma. <i>Journal of Neuro-Oncology</i> , 2014, 118, 461-478.	1.4	10

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73	Practical Diagnostic Approach to the Presence of Hyphae in Neuropathology Specimens With Three Illustrative Cases. <i>American Journal of Clinical Pathology</i> , 2018, 149, 98-104.	0.4	9
74	The role of neuropathology in the management of newly diagnosed glioblastoma: a systematic review and evidence-based clinical practice guideline. <i>Journal of Neuro-Oncology</i> , 2020, 150, 143-164.	1.4	9
75	The Essentials of Molecular Testing in CNS Tumors: What to Order and How to Integrate Results. <i>Current Neurology and Neuroscience Reports</i> , 2020, 20, 23.	2.0	9
76	Validation of Whole Genome Methylation Profiling Classifier for Central Nervous System Tumors. <i>Journal of Molecular Diagnostics</i> , 2022, 24, 924-934.	1.2	9
77	Assessing the Effects of Software Platforms on Volumetric Segmentation of Glioblastoma. <i>Journal of Neuroimaging in Psychiatry & Neurology</i> , 2016, 1, 64-72.	0.4	7
78	Defining neoplastic diseases differently: An emerging paradigm from The Cancer Genome Atlas lower-grade gliomas project. <i>Molecular and Cellular Oncology</i> , 2016, 3, e1074333.	0.3	6
79	Is Next-Generation Sequencing Alone Sufficient to Reliably Diagnose Gliomas?. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 763-766.	0.9	6
80	Cross-sectional survey of patients, caregivers, and physicians on diagnosis and treatment of brain metastases. <i>Neuro-Oncology Practice</i> , 2021, 8, 662-673.	1.0	6
81	The Practical Application of Emerging Technologies Influencing the Diagnosis and Care of Patients With Primary Brain Tumors. <i>American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting</i> , 2020, 40, e35-e46.	1.8	5
82	Solitary fibrous tumor of thoracic cavity, extra-thoracic sites and central nervous system: Clinicopathologic features and association with local recurrence and metastasis. <i>Pathology Research and Practice</i> , 2021, 224, 153531.	1.0	5
83	Disappearance of MMR-deficient subclones after controlled IL-12 and PD-1 inhibition in a glioma patient. <i>Neuro-Oncology Advances</i> , 2021, 3, vdab045.	0.4	4
84	TOP2B Enzymatic Activity on Promoters and Introns Modulates Multiple Oncogenes in Human Gliomas. <i>Clinical Cancer Research</i> , 2021, 27, 5669-5680.	3.2	4
85	Chordoma of the corpus callosum: case report. <i>Journal of Neurosurgery</i> , 2019, 131, 1380-1386.	0.9	3
86	Newly diagnosed enhancing lesions: Steroid initiation may impede diagnosis of lymphoma involving the central nervous system. <i>Journal of Clinical Neuroscience</i> , 2020, 81, 61-64.	0.8	3
87	The recurrence of the melanotic neuroectodermal tumour of infancy: an unusual presentation of a rare tumour. <i>Ecancermedalscience</i> , 2020, 14, 1049.	0.6	3
88	Aligning the Central Brain Tumor Registry of the United States (CBTRUS) histology groupings with current definitions. <i>Neuro-Oncology Practice</i> , 2022, 9, 317-327.	1.0	3
89	Genomic Analysis in the Practice of Surgical Neuropathology: The Emory Experience. <i>Archives of Pathology and Laboratory Medicine</i> , 2017, 141, 355-365.	1.2	2
90	Analysis of morphological characteristics of IDH-mutant/wildtype brain tumors using whole-lesion phenotype analysis. <i>Neuro-Oncology Advances</i> , 2021, 3, vdab088.	0.4	2

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91	Effective nuclei segmentation with sparse shape prior and dynamic occlusion constraint for glioblastoma pathology images. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	0.8	2
92	The Modern Pathologist. <i>Journal of Neuro-Ophthalmology</i> , 2014, 34, 1-2.	0.4	1
93	Meningioma With Tyrosine-Rich Crystalloids: A Case Report and Review of the Literature. <i>International Journal of Surgical Pathology</i> , 2018, 26, 157-160.	0.4	1
94	PDTB-28. TARGETING MEDULLOBLASTOMA WITH BENZODIAZAPINES DELIVERED USING TUNABLE BIODEGRADABLE HYDROGELS. <i>Neuro-Oncology</i> , 2016, 18, vi156-vi156.	0.6	0
95	Epithelioid Pituicytoma: Expanding the Morphologic Spectrum of a Rare Neoplasm. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 1376-1378.	0.9	0
96	Abstract 2168: Longitudinal analysis of diffuse glioma reveals cell state dynamics at recurrence associated with changes in genetics and the microenvironment. <i>Cancer Research</i> , 2022, 82, 2168-2168.	0.4	0
97	Abstract 912: A novel genetically engineered H3.3G34R model reveals cooperation with ATRX loss in upregulation of PRC2 target genes. <i>Cancer Research</i> , 2022, 82, 912-912.	0.4	0