

Frank Winkler

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

9,623
citations

70961

41
h-index

39575

94
g-index

136
all docs

136
docs citations

136
times ranked

12888
citing authors

#	ARTICLE	IF	CITATIONS
1	Vascular Normalization by Vascular Endothelial Growth Factor Receptor 2 Blockade Induces a Pressure Gradient Across the Vasculature and Improves Drug Penetration in Tumors. <i>Cancer Research</i> , 2004, 64, 3731-3736.	0.4	1,078
2	Real-time imaging reveals the single steps of brain metastasis formation. <i>Nature Medicine</i> , 2010, 16, 116-122.	15.2	935
3	Kinetics of vascular normalization by VEGFR2 blockade governs brain tumor response to radiation. <i>Cancer Cell</i> , 2004, 6, 553-563.	7.7	789
4	Brain tumour cells interconnect to a functional and resistant network. <i>Nature</i> , 2015, 528, 93-98.	13.7	787
5	Glutamatergic synaptic input to glioma cells drives brain tumour progression. <i>Nature</i> , 2019, 573, 532-538.	13.7	628
6	Novel, improved grading system(s) for IDH-mutant astrocytic gliomas. <i>Acta Neuropathologica</i> , 2018, 136, 153-166.	3.9	298
7	YAP/TAZ Orchestrate VEGF Signaling during Developmental Angiogenesis. <i>Developmental Cell</i> , 2017, 42, 462-478.e7.	3.1	249
8	Hemodynamic Forces Tune the Arrest, Adhesion, and Extravasation of Circulating Tumor Cells. <i>Developmental Cell</i> , 2018, 45, 33-52.e12.	3.1	219
9	EGFR heterogeneity and implications for therapeutic intervention in glioblastoma. <i>Neuro-Oncology</i> , 2018, 20, 743-752.	0.6	210
10	Imaging glioma cell invasion <i>in vivo</i> reveals mechanisms of dissemination and peritumoral angiogenesis. <i>Glia</i> , 2009, 57, 1306-1315.	2.5	200
11	The Evolving Landscape of Brain Metastasis. <i>Trends in Cancer</i> , 2018, 4, 176-196.	3.8	194
12	Invasion patterns in brain metastases of solid cancers. <i>Neuro-Oncology</i> , 2013, 15, 1664-1672.	0.6	191
13	Tumor microtubules convey resistance to surgical lesions and chemotherapy in gliomas. <i>Neuro-Oncology</i> , 2017, 19, 1316-1326.	0.6	190
14	Roadmap for the Emerging Field of Cancer Neuroscience. <i>Cell</i> , 2020, 181, 219-222.	13.5	182
15	Brain metastases: pathobiology and emerging targeted therapies. <i>Acta Neuropathologica</i> , 2012, 123, 205-222.	3.9	163
16	mTOR target NDRG1 confers MGMT-dependent resistance to alkylating chemotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 409-414.	3.3	152
17	Bevacizumab Has Differential and Dose-Dependent Effects on Glioma Blood Vessels and Tumor Cells. <i>Clinical Cancer Research</i> , 2011, 17, 6192-6205.	3.2	148
18	Tweety-Homolog 1 Drives Brain Colonization of Gliomas. <i>Journal of Neuroscience</i> , 2017, 37, 6837-6850.	1.7	129

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19	Preclinical intravital microscopy of the tumour-stroma interface: invasion, metastasis, and therapy response. <i>Current Opinion in Cell Biology</i> , 2013, 25, 659-671.	2.6	121
20	Treatment of glioblastoma in adults. <i>Therapeutic Advances in Neurological Disorders</i> , 2018, 11, 175628641879045.	1.5	117
21	Impact of Blood-Brain Barrier Integrity on Tumor Growth and Therapy Response in Brain Metastases. <i>Clinical Cancer Research</i> , 2016, 22, 6078-6087.	3.2	109
22	Bevacizumab Prevents Brain Metastases Formation in Lung Adenocarcinoma. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 702-710.	1.9	103
23	N2M2 (NOA-20) phase I/II trial of molecularly matched targeted therapies plus radiotherapy in patients with newly diagnosed non-MGMT hypermethylated glioblastoma. <i>Neuro-Oncology</i> , 2019, 21, 95-105.	0.6	100
24	Emerging intersections between neuroscience and glioma biology. <i>Nature Neuroscience</i> , 2019, 22, 1951-1960.	7.1	99
25	Fast and precise targeting of single tumor cells <i>in vivo</i> by multimodal correlative microscopy. <i>Journal of Cell Science</i> , 2016, 129, 444-56.	1.2	97
26	A malignant cellular network in gliomas: potential clinical implications. <i>Neuro-Oncology</i> , 2016, 18, 479-485.	0.6	91
27	The RANO Leptomeningeal Metastasis Group proposal to assess response to treatment: lack of feasibility and clinical utility and a revised proposal. <i>Neuro-Oncology</i> , 2019, 21, 648-658.	0.6	90
28	Antigen Dependently Activated Cluster of Differentiation 8-Positive T Cells Cause Perforin-Mediated Neurotoxicity in Experimental Stroke. <i>Journal of Neuroscience</i> , 2014, 34, 16784-16795.	1.7	83
29	Tumor cell plasticity, heterogeneity, and resistance in crucial microenvironmental niches in glioma. <i>Nature Communications</i> , 2021, 12, 1014.	5.8	81
30	Recent advances in the biology and treatment of brain metastases of non-small cell lung cancer: summary of a multidisciplinary roundtable discussion. <i>ESMO Open</i> , 2018, 3, e000262.	2.0	69
31	The brain metastatic niche. <i>Journal of Molecular Medicine</i> , 2015, 93, 1213-1220.	1.7	63
32	Current status and future directions of anti-angiogenic therapy for gliomas. <i>Neuro-Oncology</i> , 2016, 18, 315-328.	0.6	61
33	Discrepancies between brain CT imaging and severely raised intracranial pressure proven by ventriculostomy in adults with pneumococcal meningitis. <i>Journal of Neurology</i> , 2002, 249, 1292-1297.	1.8	56
34	Glioblastoma cells vampirize WNT from neurons and trigger a JNK/MMP signaling loop that enhances glioblastoma progression and neurodegeneration. <i>PLoS Biology</i> , 2019, 17, e3000545.	2.6	55
35	Lack of Endothelial Nitric Oxide Synthase Aggravates Murine Pneumococcal Meningitis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2001, 60, 1041-1050.	0.9	54
36	Glioma cell VEGFR-2 confers resistance to chemotherapeutic and antiangiogenic treatments in PTEN-deficient glioblastoma. <i>Oncotarget</i> , 2015, 6, 31050-31068.	0.8	52

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37	Deep-learning-based synthesis of post-contrast T1-weighted MRI for tumour response assessment in neuro-oncology: a multicentre, retrospective cohort study. <i>The Lancet Digital Health</i> , 2021, 3, e784-e794.	5.9	52
38	Astrocytic laminin-211 drives disseminated breast tumor cell dormancy in brain. <i>Nature Cancer</i> , 2022, 3, 25-42.	5.7	52
39	Brain Metastasis Cell Lines Panel: A Public Resource of Organotropic Cell Lines. <i>Cancer Research</i> , 2020, 80, 4314-4323.	0.4	51
40	Role of the urokinase plasminogen activator system in patients with bacterial meningitis. <i>Neurology</i> , 2002, 59, 1350-1355.	1.5	48
41	Synaptic input to brain tumors: clinical implications. <i>Neuro-Oncology</i> , 2021, 23, 23-33.	0.6	48
42	Harmful networks in the brain and beyond. <i>Science</i> , 2018, 359, 1100-1101.	6.0	45
43	Disconnecting multicellular networks in brain tumours. <i>Nature Reviews Cancer</i> , 2022, 22, 481-491.	12.8	44
44	Protein kinase C δ as a therapeutic target stabilizing blood-brain barrier disruption in experimental autoimmune encephalomyelitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14735-14740.	3.3	43
45	Find your way with X-Ray. <i>Methods in Cell Biology</i> , 2017, 140, 277-301.	0.5	42
46	Therapy and prophylaxis of brain metastases. <i>Expert Review of Anticancer Therapy</i> , 2010, 10, 1763-1777.	1.1	40
47	Correlated magnetic resonance imaging and ultramicroscopy (MR-UM) is a tool kit to assess the dynamics of glioma angiogenesis. <i>ELife</i> , 2016, 5, e11712.	2.8	40
48	TGF- β 2 promotes microtubule formation in glioblastoma through thrombospondin 1. <i>Neuro-Oncology</i> , 2022, 24, 541-553.	0.6	38
49	Trial design on prophylaxis and treatment of brain metastases: Lessons learned from the EORTC Brain Metastases Strategic Meeting 2012. <i>European Journal of Cancer</i> , 2012, 48, 3439-3447.	1.3	37
50	Hostile takeover: how tumours hijack pre-existing vascular environments to thrive. <i>Journal of Pathology</i> , 2017, 242, 267-272.	2.1	37
51	Slowing down glioblastoma progression in mice by running or the anti-malarial drug dihydroartemisinin? Induction of oxidative stress in murine glioblastoma therapy. <i>Oncotarget</i> , 2016, 7, 56713-56725.	0.8	36
52	The PI3K/Akt/mTOR pathway as a preventive target in melanoma brain metastasis. <i>Neuro-Oncology</i> , 2022, 24, 213-225.	0.6	36
53	Neuronal signatures in cancer. <i>International Journal of Cancer</i> , 2020, 147, 3281-3291.	2.3	35
54	Proximity ligation assay evaluates IDH1R132H presentation in gliomas. <i>Journal of Clinical Investigation</i> , 2015, 125, 593-606.	3.9	35

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55	New Directions in the Treatment of Glioblastoma. <i>Seminars in Neurology</i> , 2018, 38, 050-061.	0.5	33
56	Glioblastoma in elderly patients: solid conclusions built on shifting sand?. <i>Neuro-Oncology</i> , 2018, 20, 174-183.	0.6	33
57	Local blood coagulation drives cancer cell arrest and brain metastasis in a mouse model. <i>Blood</i> , 2021, 137, 1219-1232.	0.6	31
58	Monitoring innate immune cell dynamics in the glioma microenvironment by magnetic resonance imaging and multiphoton microscopy (MR-MPM). <i>Theranostics</i> , 2020, 10, 1873-1883.	4.6	30
59	Anti-Angiogenics: Their Role in the Treatment of Glioblastoma. <i>Oncology Research and Treatment</i> , 2018, 41, 181-186.	0.8	28
60	Glioblastoma multiforme restructures the topological connectivity of cerebrovascular networks. <i>Scientific Reports</i> , 2019, 9, 11757.	1.6	26
61	Tumor cell network integration in glioma represents a stemness feature. <i>Neuro-Oncology</i> , 2021, 23, 757-769.	0.6	25
62	Glioblastomas with primitive neuronal component harbor a distinct methylation and copy-number profile with inactivation of TP53, PTEN, and RB1. <i>Acta Neuropathologica</i> , 2021, 142, 179-189.	3.9	24
63	Insights into cell-to-cell and cell-to-blood-vessel communications in the brain: in vivo multiphoton microscopy. <i>Cell and Tissue Research</i> , 2013, 352, 149-159.	1.5	22
64	Identification and Characterization of Cancer Cells That Initiate Metastases to the Brain and Other Organs. <i>Molecular Cancer Research</i> , 2021, 19, 688-701.	1.5	22
65	Vessel radius mapping in an extended model of transverse relaxation. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 531-551.	1.1	21
66	Prognostic relevance of miRNA-155 methylation in anaplastic glioma. <i>Oncotarget</i> , 2016, 7, 82028-82045.	0.8	21
67	Methylome analyses of three glioblastoma cohorts reveal chemotherapy sensitivity markers within DDR genes. <i>Cancer Medicine</i> , 2020, 9, 8373-8385.	1.3	19
68	Diagnostic biomarkers from proteomic characterization of cerebrospinal fluid in patients with brain malignancies. <i>Journal of Neurochemistry</i> , 2021, 158, 522-538.	2.1	18
69	Targeted and Immunotherapeutic Approaches in Brain Metastases. <i>American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting</i> , 2015, , 67-74.	1.8	16
70	Correlated MRI and Ultramicroscopy (MR-UM) of Brain Tumors Reveals Vast Heterogeneity of Tumor Infiltration and Neovascularization in Preclinical Models and Human Disease. <i>Frontiers in Neuroscience</i> , 2018, 12, 1004.	1.4	16
71	Nintedanib and a bi-specific anti-VEGF/Ang2 nanobody selectively prevent brain metastases of lung adenocarcinoma cells. <i>Clinical and Experimental Metastasis</i> , 2020, 37, 637-648.	1.7	15
72	Bevacizumab-based treatment as salvage therapy in patients with recurrent symptomatic brain metastases. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa038.	0.4	14

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73	The microenvironment of brain metastases from solid tumors. <i>Neuro-Oncology Advances</i> , 2021, 3, v121-v132.	0.4	14
74	Simvastatin attenuates leukocyte recruitment in experimental bacterial meningitis. <i>International Immunopharmacology</i> , 2009, 9, 371-374.	1.7	13
75	Tunneling nanotube-like structures in brain tumors. <i>Cancer Reports</i> , 2019, 2, .	0.6	13
76	LAPTM5-CD40 Crosstalk in Glioblastoma Invasion and Temozolomide Resistance. <i>Frontiers in Oncology</i> , 2020, 10, 747.	1.3	13
77	Prophylactic anticoagulation in patients with glioblastoma or brain metastases and atrial fibrillation: an increased risk for intracranial hemorrhage?. <i>Journal of Neuro-Oncology</i> , 2021, 152, 483-490.	1.4	13
78	Towards optimizing the sequence of bevacizumab and nitrosoureas in recurrent malignant glioma. <i>Journal of Neuro-Oncology</i> , 2014, 117, 85-92.	1.4	11
79	Regimen of procarbazine, lomustine, and vincristine versus temozolomide for gliomas. <i>Cancer</i> , 2018, 124, 2674-2676.	2.0	11
80	Susceptibility-weighted imaging in malignant melanoma brain metastasis. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1251-1259.	1.9	11
81	A brain-penetrant microtubule-targeting agent that disrupts hallmarks of glioma tumorigenesis. <i>Neuro-Oncology Advances</i> , 2021, 3, vdaa165.	0.4	10
82	Phase I/II trial of meclofenamate in progressive MGMT-methylated glioblastoma under temozolomide second-line therapy—the MecMeth/NOA-24 trial. <i>Trials</i> , 2022, 23, 57.	0.7	10
83	Patient-Derived Tumor Organoids for Guidance of Personalized Drug Therapies in Recurrent Glioblastoma. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6572.	1.8	9
84	Molecular profiling-based decision for targeted therapies in IDH wild-type glioblastoma. <i>Neuro-Oncology Advances</i> , 2020, 2, vdz060.	0.4	8
85	Two routes of direct intercellular communication in brain cancer. <i>Biochemical Journal</i> , 2021, 478, 1283-1286.	1.7	8
86	Differential Effects of Ang-2/VEGF-A Inhibiting Antibodies in Combination with Radio- or Chemotherapy in Glioma. <i>Cancers</i> , 2019, 11, 314.	1.7	7
87	The brain microenvironment: friend or foe for metastatic tumor cells?. <i>Neuro-Oncology</i> , 2014, 16, 1565-1566.	0.6	5
88	Impact of tapering and discontinuation of bevacizumab in patients with progressive glioblastoma. <i>Journal of Neuro-Oncology</i> , 2016, 129, 533-539.	1.4	5
89	Nonmeasurable Speckled Contrast-Enhancing Lesions Appearing During Course of Disease Are Associated With IDH Mutation in High-Grade Astrocytoma Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1472-1480.	0.4	5
90	Pathogenesis and biology. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2018, 149, 43-56.	1.0	4

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91	The mechanics of metastatic seeding. <i>Nature Cell Biology</i> , 2018, 20, 860-862.	4.6	4
92	Tumour network in glioma. <i>ESMO Open</i> , 2016, 1, e000133.	2.0	3
93	Activation of retinal neurons triggers tumour formation in cancer-prone mice. <i>Nature</i> , 2021, 594, 179-180.	13.7	3
94	BSCI-11. Targeting PI3K/Akt/mTOR pathway to prevent melanoma brain metastasis. <i>Neuro-Oncology Advances</i> , 2021, 3, iii3-iii3.	0.4	3
95	Intraventricular immune checkpoint inhibition with nivolumab in relapsed primary central nervous system lymphoma. <i>Neuro-Oncology Advances</i> , 2022, 4, vdac051.	0.4	3
96	Targeting an adhesion molecule to prevent brain colonization of lung cancer. <i>Neuro-Oncology</i> , 2020, 22, 899-900.	0.6	2
97	Understanding epilepsy in IDH-mutated gliomas: towards a targeted therapy. <i>Neuro-Oncology</i> , 2022, 24, 1436-1437.	0.6	2
98	Steroid-Responsive Relapsing-Remitting Neutrophilic Encephalitis: A Case Report. <i>Journal of Neuropathology and Experimental Neurology</i> , 2018, 77, 993-996.	0.9	1
99	Silencing glioblastoma networks to make temozolomide more effective. <i>Neuro-Oncology</i> , 2021, 23, 1807-1809.	0.6	1
100	Involvement of platelet-derived VWF in metastatic growth of melanoma in the brain. <i>Neuro-Oncology Advances</i> , 2021, 3, vdab175.	0.4	1
101	CSIG-18. CALCIUM COMMUNICATION IN GLIOMA: CRUCIAL PACEMAKER CELLS GOVERN TUMOR PROGRESSION. <i>Neuro-Oncology</i> , 2020, 22, ii31-ii31.	0.6	1
102	Progression Patterns in Non-Contrast-Enhancing Gliomas Support Brain Tumor Responsiveness to Surgical Lesions. <i>Pathology and Oncology Research</i> , 0, 28, .	0.9	1
103	TMIC-18. ROLE OF MICROGLIA IN THE EARLY STEPS OF THE BRAIN METASTATIC CASCADE. <i>Neuro-Oncology</i> , 2016, 18, vi203-vi204.	0.6	0
104	Tumors and Blood Vessel Interactions: A Changing Hallmark of Cancer. , 2017, , 504-504.		0
105	IMMU-26. VISUALIZING TUMOR CELL - LYMPHOCYTE INTERACTIONS IN THE BRAIN METASTATIC CASCADE USING IN VIVO TWO PHOTON MICROSCOPY. <i>Neuro-Oncology</i> , 2018, 20, vi126-vi127.	0.6	0
106	DDIS-17. MULTI-LEVEL DRUG DEVELOPMENT PIPELINE FOR THE DISCOVERY OF TUMOR MICROTUBE TARGETING DRUGS. <i>Neuro-Oncology</i> , 2018, 20, vi72-vi72.	0.6	0
107	Leukaemia follows a blood-vessel track to enter the nervous system. <i>Nature</i> , 2018, 560, 35-36.	13.7	0
108	52. BrMPANEL: A PUBLIC RESOURCE OF ORGANOTROPIC CELL LINES. <i>Neuro-Oncology Advances</i> , 2020, 2, ii10-ii11.	0.4	0

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109	In glioma, all endothelial cells are not created the same. Neuro-Oncology, 2021, 23, 863-864.	0.6	0
110	Neuroscience meets cancer: networks and neuronal input to brain tumors. Neuroforum, 2021, .	0.2	0
111	Possibilities of Targeted Therapies for Brain Metastasis. , 2012, , 87-107.		0
112	Abstract 403: The role of HER2 in the brain metastatic cascade in breast cancer.. , 2013, , .		0
113	Abstract 3916: Differential roles of microglia and macrophages for glioma progression.. , 2013, , .		0
114	Effect of Glioma N-Myc downstream regulated gene 1 (NDRG1) on the tumor microenvironment.. Journal of Clinical Oncology, 2016, 34, 11587-11587.	0.8	0
115	Abstract 1803: Combining anti-Ang-2/VEGF-A therapy with radio- and chemotherapy in glioma. , 2017, , .		0
116	Hemodynamic Forces Tune the Arrest, Adhesion, and Extravasation of Circulating Tumor Cells. SSRN Electronic Journal, 0, , .	0.4	0
117	Antiangiogenics in Brain Metastases: Perspectives and Experiences. , 2019, , 1-10.		0
118	Anti-angiogenics in Brain Metastases: Perspectives and Experiences. , 2019, , 627-636.		0
119	BIOM-39. ESTABLISHMENT OF A CONNECTIVITY SIGNATURE FOR GLIOMAS. Neuro-Oncology, 2020, 22, ii10-ii10.	0.6	0
120	EXTH-53. A BRAIN-PENETRANT MICROTUBULE-TARGETING AGENT THAT DISRUPTS HALLMARKS OF GLIOMA TUMORIGENESIS. Neuro-Oncology, 2020, 22, ii98-ii99.	0.6	0
121	Title is missing!. , 2019, 17, e3000545.		0
122	Title is missing!. , 2019, 17, e3000545.		0
123	Title is missing!. , 2019, 17, e3000545.		0
124	Title is missing!. , 2019, 17, e3000545.		0
125	Title is missing!. , 2019, 17, e3000545.		0
126	Title is missing!. , 2019, 17, e3000545.		0

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127	Title is missing!. , 2019, 17, e3000545.		0
128	INSP-13. Malignant networks in brain tumors: from basic discoveries to clinical implications. Neuro-Oncology, 2022, 24, i188-i189.	0.6	0