

# Arnulf Mayer

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

5,183  
citations

257357

24  
h-index

155592

55  
g-index

62  
all docs

62  
docs citations

62  
times ranked

7258  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypoxia in cancer: significance and impact on clinical outcome. <i>Cancer and Metastasis Reviews</i> , 2007, 26, 225-239.	2.7	1,918
2	Detection and Characterization of Tumor Hypoxia Using pO <sub>2</sub> Histogramy. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1221-1236.	2.5	628
3	The Warburg effect: essential part of metabolic reprogramming and central contributor to cancer progression. <i>International Journal of Radiation Biology</i> , 2019, 95, 912-919.	1.0	495
4	Tumor Hypoxia and Malignant Progression. <i>Methods in Enzymology</i> , 2004, 381, 335-354.	0.4	399
5	Hypoxia and anemia: effects on tumor biology and treatment resistance. <i>Transfusion Clinique Et Biologique</i> , 2005, 12, 5-10.	0.2	128
6	Impact of Hemoglobin Levels on Tumor Oxygenation: the Higher, the Better?. <i>Strahlentherapie Und Onkologie</i> , 2006, 182, 63-71.	1.0	120
7	Oxygenation Status of Gynecologic Tumors: What is the Optimal Hemoglobin Level?. <i>Strahlentherapie Und Onkologie</i> , 2002, 178, 727-731.	1.0	117
8	Hypoxia in Tumors: Pathogenesis-Related Classification, Characterization of Hypoxia Subtypes, and Associated Biological and Clinical Implications. <i>Advances in Experimental Medicine and Biology</i> , 2014, 812, 19-24.	0.8	108
9	Lack of Correlation between Expression of HIF-1 $\pm$ Protein and Oxygenation Status in Identical Tissue Areas of Squamous Cell Carcinomas of the Uterine Cervix. <i>Cancer Research</i> , 2004, 64, 5876-5881.	0.4	88
10	Lack of Hypoxic Response in Uterine Leiomyomas despite Severe Tissue Hypoxia. <i>Cancer Research</i> , 2008, 68, 4719-4726.	0.4	85
11	Oxygenation gain factor: a novel parameter characterizing the association between hemoglobin level and the oxygenation status of breast cancers. <i>Cancer Research</i> , 2003, 63, 7634-7.	0.4	73
12	Hypoxia in Breast Cancer. , 2005, 566, 333-342.		71
13	Microregional Expression of Glucose Transporter-1 and Oxygenation Status: Lack of Correlation in Locally Advanced Cervical Cancers. <i>Clinical Cancer Research</i> , 2005, 11, 2768-2773.	3.2	69
14	Carbonic Anhydrase IX Expression and Tumor Oxygenation Status Do Not Correlate at the Microregional Level in Locally Advanced Cancers of the Uterine Cervix. <i>Clinical Cancer Research</i> , 2005, 11, 7220-7225.	3.2	69
15	Hypoxia-Driven Adenosine Accumulation: A Crucial Microenvironmental Factor Promoting Tumor Progression. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 177-183.	0.8	62
16	Strong adverse prognostic impact of hyperglycemic episodes during adjuvant chemoradiotherapy of glioblastoma multiforme. <i>Strahlentherapie Und Onkologie</i> , 2014, 190, 933-938.	1.0	59
17	Hypoxia, Lactate Accumulation, and Acidosis: Siblings or Accomplices Driving Tumor Progression and Resistance to Therapy?. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 203-209.	0.8	54
18	Induction of dormancy in hypoxic human papillomavirus-positive cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E990-E998.	3.3	49

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19	Availability, not respiratory capacity governs oxygen consumption of solid tumors. International Journal of Biochemistry and Cell Biology, 2012, 44, 1477-1481.	1.2	48
20	Differential expression of HIF-1 in glioblastoma multiforme and anaplastic astrocytoma. International Journal of Oncology, 2012, 41, 1260-1270.	1.4	45
21	Endogenous Hypoxia Markers in Locally Advanced Cancers of the Uterine Cervix: Reality or Wishful Thinking?. Strahlentherapie Und Onkologie, 2006, 182, 501-510.	1.0	37
22	Endogenous Hypoxia Markers: Case Not Proven!. , 2008, 614, 127-136.		35
23	Repression of Human Papillomavirus Oncogene Expression under Hypoxia Is Mediated by PI3K/mTORC2/AKT Signaling. MBio, 2019, 10, .	1.8	32
24	Tumor Hypoxia: Causative Mechanisms, Microregional Heterogeneities, and the Role of Tissue-Based Hypoxia Markers. Advances in Experimental Medicine and Biology, 2016, 923, 77-86.	0.8	31
25	Long-term survival of patients after ipilimumab and hypofractionated brain radiotherapy for brain metastases of malignant melanoma: sequence matters. Strahlentherapie Und Onkologie, 2018, 194, 1144-1151.	1.0	29
26	Stability, Prognostic Factors and Survival of Spinal Bone Metastases in Malignant Melanoma Patients after Palliative Radiotherapy. Tumori, 2016, 102, 156-161.	0.6	27
27	Personalized therapy: CNS HGNET-BCOR responsiveness to arsenic trioxide combined with radiotherapy. Oncotarget, 2017, 8, 114210-114225.	0.8	25
28	Erythropoietin to treat anaemia in patients with head and neck cancer. Lancet, The, 2004, 363, 992.	6.3	22
29	HIF-Mediated Hypoxic Response is Missing in Severely Hypoxic Uterine Leiomyomas. Advances in Experimental Medicine and Biology, 2010, 662, 399-405.	0.8	21
30	GLUT-1 expression is largely unrelated to both hypoxia and the Warburg phenotype in squamous cell carcinomas of the vulva. BMC Cancer, 2014, 14, 760.	1.1	19
31	Inclusion of PET-CT into planning of primary or neoadjuvant chemoradiotherapy of esophageal cancer improves prognosis. Strahlentherapie Und Onkologie, 2017, 193, 791-799.	1.0	19
32	The Clinical Importance of Assessing Tumor Hypoxia: Relationship of Tumor Hypoxia to Prognosis and Therapeutic Opportunities. Antioxidants and Redox Signaling, 2015, 22, 878-880.	2.5	18
33	Tumor Oxygenation Status: Facts and Fallacies. Advances in Experimental Medicine and Biology, 2017, 977, 91-99.	0.8	17
34	Downregulation of EGFR in hypoxic, diffusion-limited areas of squamous cell carcinomas of the head and neck. British Journal of Cancer, 2016, 115, 1351-1358.	2.9	16
35	Lacking hypoxia-mediated downregulation of E-cadherin in cancers of the uterine cervix. British Journal of Cancer, 2013, 108, 402-408.	2.9	15
36	Radiotherapy with BRAF inhibitor therapy for melanoma: progress and possibilities. Future Oncology, 2016, 12, 95-106.	1.1	15

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37	Multikinase inhibitors sorafenib and sunitinib as radiosensitizers in head and neck cancer cell lines. <i>Head and Neck</i> , 2017, 39, 623-632.	0.9	14
38	Glucose metabolism of malignant cells is not regulated by transketolase-like (TKTL)-1. <i>International Journal of Oncology</i> , 2010, 37, 265-71.	1.4	12
39	Role of Hypoxia and the Adenosine System in Immune Evasion and Prognosis of Patients with Brain Metastases of Melanoma: A Multiplex Whole Slide Immunofluorescence Study. <i>Cancers</i> , 2020, 12, 3753.	1.7	11
40	Stability and survival analysis of elderly patients with osteolytic spinal bone metastases after palliative radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2019, 195, 1074-1085.	1.0	10
41	High-dose carbon-ion based radiotherapy of primary and recurrent sacrococcygeal chordomas: long-term clinical results of a single particle therapy center. <i>Radiation Oncology</i> , 2020, 15, 206.	1.2	10
42	Adjuvant chemoradiotherapy in elderly patients with head and neck cancer: a noninstitutional, two-to-one pair-matching analysis. <i>Strahlentherapie Und Onkologie</i> , 2022, 198, 159-170.	1.0	10
43	Evidence against a Major Role for TKTL-1 in Hypoxic and Normoxic Cancer Cells. <i>Advances in Experimental Medicine and Biology</i> , 2011, 701, 123-128.	0.8	6
44	Adjuvant temozolomide-based chemoradiotherapy versus radiotherapy alone in patients with WHO grade III astrocytoma. <i>Strahlentherapie Und Onkologie</i> , 2015, 191, 665-671.	1.0	5
45	Using the R Package Spatstat to Assess Inhibitory Effects of Microregional Hypoxia on the Infiltration of Cancers of the Head and Neck Region by Cytotoxic T Lymphocytes. <i>Cancers</i> , 2021, 13, 1924.	1.7	5
46	Can respiratory hyperoxia mitigate adenosine-driven suppression of antitumor immunity?. <i>Annals of Translational Medicine</i> , 2015, 3, 292.	0.7	5
47	Impact of oxygenation status and patient age on DNA content in cancers of the uterine cervix. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 56, 929-936.	0.4	4
48	Oxygen Deprivation Modulates EGFR and PD-L1 in Squamous Cell Carcinomas of the Head and Neck. <i>Frontiers in Oncology</i> , 2021, 11, 623964.	1.3	4
49	GLUT-1 staining of squamous cell carcinomas of the uterine cervix identifies a novel element of invasion. <i>International Journal of Oncology</i> , 2011, 38, 145-50.	3.9	4
50	Imaging tumor hypoxia: Blood-borne delivery of imaging agents is fundamentally different in hypoxia subtypes. <i>Journal of Innovative Optical Health Sciences</i> , 2014, 07, 1330005.	0.5	3
51	Patterns of failure of diffuse large B-cell lymphoma patients after involved-site radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2017, 193, 1014-1023.	1.0	3
52	The Role of Palliative Radiotherapy in the Treatment of Spinal Bone Metastases from Head and Neck Tumors – A Multicenter Analysis of a Rare Event. <i>Cancers</i> , 2020, 12, 1950.	1.7	3
53	Oxygenation Status of Urogenital Tumors. <i>Advances in Experimental Medicine and Biology</i> , 2011, 701, 101-106.	0.8	3
54	Multiparametric Analysis of the Tumor Microenvironment: Hypoxia Markers and Beyond. <i>Advances in Experimental Medicine and Biology</i> , 2017, 977, 101-107.	0.8	2

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55	Relationship between hemoglobin levels and tumor oxygenation. , 2008, , 265-282.		2
56	Solid tumours arising from differently pre-oxygenated cells: Comparable growth rates despite dissimilar tissue oxygenation. International Journal of Radiation Biology, 2009, 85, 981-988.	1.0	1
57	Response to commentary by Champ and Klement. Strahlentherapie Und Onkologie, 2015, 191, 283-284.	1.0	1
58	Oxygenation of Tumors. , 2017, , 3342-3346.		1
59	Comparative Analyses of Two Established Scores to Assess the Stability of Spinal Bone Metastases Before and After Palliative Radiotherapy. Frontiers in Oncology, 2021, 11, 753768.	1.3	1
60	Hypoxia-Associated Marker CA IX Does Not Predict the Response of Locally Advanced Rectal Cancers to Neoadjuvant Chemoradiotherapy. Advances in Experimental Medicine and Biology, 2016, 876, 195-200.	0.8	0
61	Oxygenation of Tumors. , 2014, , 1-6.		0
62	Strahlentherapie. , 2022, , 27-34.		0