BÃ¼lent Polat

List of Publications by Year
in descending order

79 papers	3,069 citations	218677 26 h-index	161849 54 g-index
83 all docs	83 docs citations	83 times ranked	3861 citing authors

#	Article	IF	Citations
1	5-year results of accelerated partial breast irradiation using sole interstitial multicatheter brachytherapy versus whole-breast irradiation with boost after breast-conserving surgery for low-risk invasive and in-situ carcinoma of the female breast: a randomised, phase 3, non-inferiority trial. Lancet, The, 2016, 387, 229-238.	13.7	578
2	Efficacy of Adjuvant Radiotherapy of the Tumor Bed on Local Recurrence of Adrenocortical Carcinoma. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 4501-4504.	3.6	224
3	Late side-effects and cosmetic results of accelerated partial breast irradiation with interstitial brachytherapy versus whole-breast irradiation after breast-conserving surgery for low-risk invasive and in-situ carcinoma of the female breast: 5-year results of a randomised, controlled, phase 3 trial. Lancet Oncology, The, 2017, 18, 259-268.	10.7	220
4	Radiotherapy in adrenocortical carcinoma. Cancer, 2009, 115, 2816-2823.	4.1	165
5	68Ga-PSMA-PET/CT in Patients With Biochemical Prostate Cancer Recurrence and Negative 18F-Choline-PET/CT. Clinical Nuclear Medicine, 2016, 41, 515-521.	1.3	165
6	Doseâ€“response relationship for radiation-induced pneumonitis after pulmonary stereotactic body radiotherapy. Radiotherapy and Oncology, 2010, 97, 65-70.	0.6	147
7	Chemoradiotherapy Plus Induction or Consolidation Chemotherapy as Total Neoadjuvant Therapy for Patients With Locally Advanced Rectal Cancer. JAMA Oncology, 2022, 8, e215445.	7.1	127
8	Quality-of-life results for accelerated partial breast irradiation with interstitial brachytherapy versus whole-breast irradiation in early breast cancer after breast-conserving surgery (GEC-ESTRO): 5-year results of a randomised, phase 3 trial. Lancet Oncology, The, 2018, 19, 834-844.	10.7	102
9	GEC-ESTRO multicenter phase 3-trial: Accelerated partial breast irradiation with interstitial multicatheter brachytherapy versus external beam whole breast irradiation: Early toxicity and patient compliance. Radiotherapy and Oncology, 2016, 120, 119-123.	0.6	90
10	A multi-institution evaluation of deformable image registration algorithms for automatic organ delineation in adaptive head and neck radiotherapy. Radiation Oncology, 2012, 7, 90.	2.7	78
11	Pasotuxizumab, a BiTE^{Â®} immune therapy for castration-resistant prostate cancer: Phase I, dose-escalation study findings. Immunotherapy, 2021, 13, 125-141.	2.0	72
12	Radiosensitivity in breast cancer assessed by the histone Î³-H2AX and 53BP1 foci. Radiation Oncology, 2013, 8, 98.	2.7	62
13	Nonrigid Patient Setup Errors in the Head-and-Neck Region. Strahlentherapie Und Onkologie, 2007, 183, 506-511.	2.0	59
14	Toxicity after Intensity-Modulated, Image-Guided Radiotherapy for Prostate Cancer. Strahlentherapie Und Onkologie, 2010, 186, 535-543.	2.0	58
15	Intra-fractional uncertainties in image-guided intensity-modulated radiotherapy (IMRT) of prostate cancer. Strahlentherapie Und Onkologie, 2008, 184, 668-673.	2.0	51
16	Hypoxia induced CA9 inhibitory targeting by two different sulfonamide derivatives including Acetazolamide in human Glioblastoma. Bioorganic and Medicinal Chemistry, 2013, 21, 3949-3957.	3.0	51
17	Radiosensitization of Glioblastoma Cell Lines by the Dual PI3K and mTOR Inhibitor NVP-BEZ235 Depends on Drug-Irradiation Schedule. Translational Oncology, 2013, 6, 169-IN16.	3.7	51
18	Modulation of Carbonic Anhydrase 9 (CA9) in Human Brain Cancer. Current Pharmaceutical Design, 2010, 16, 3288-3299.	1.9	49

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19	Triplex-forming oligodeoxynucleotides targeting survivin inhibit proliferation and induce apoptosis of human lung carcinoma cells. Cancer Gene Therapy, 2003, 10, 403-410.	4.6	39
20	Influence of retrospective sorting on image quality in respiratory correlated computed tomography. Radiotherapy and Oncology, 2007, 85, 223-231.	0.6	39
21	Novel PI3K and mTOR Inhibitor NVP-BEZ235 Radiosensitizes Breast Cancer Cell Lines under Normoxic and Hypoxic Conditions. Breast Cancer: Basic and Clinical Research, 2014, 8, BCBCR.S13693.	1.1	35
22	Clinical outcome of concomitant vs interrupted BRAF inhibitor therapy during radiotherapy in melanoma patients. British Journal of Cancer, 2018, 118, 785-792.	6.4	34
23	Absence of GAPDH regulation in tumor-cells of different origin under hypoxic conditions in â€“ vitro. BMC Research Notes, 2009, 2, 8.	1.4	32
24	Modulation of Glucose Metabolism Inhibits Hypoxic Accumulation of Hypoxia-Inducible Factor-1Î± (HIF-1Î±). Strahlentherapie Und Onkologie, 2007, 183, 366-373.	2.0	31
25	Salvage Mastectomy Versus Second Conservative Treatment for Second Ipsilateral Breast Tumor Event: A Propensity Score-Matched Cohort Analysis of the GEC-ESTRO Breast Cancer Working Group Database. International Journal of Radiation Oncology Biology Physics, 2021, 110, 452-461.	0.8	30
26	Actin cytoskeleton organization, cell surface modification and invasion rate of 5 glioblastoma cell lines differing in PTEN and p53 status. Experimental Cell Research, 2015, 330, 346-357.	2.6	28
27	Semi-robotic 6 degree of freedom positioning for intracranial high precision radiotherapy; first phantom and clinical results. Radiation Oncology, 2010, 5, 42.	2.7	26
28	Tumour delineation in oesophageal cancer â€“ A prospective study of delineation in PET and CT with and without endoscopically placed clip markers. Radiotherapy and Oncology, 2015, 116, 269-275.	0.6	23
29	Hsp90 inhibitor NVP-AUY922 enhances radiation sensitivity of tumor cell lines under hypoxia. Cancer Biology and Therapy, 2012, 13, 425-434.	3.4	22
30	A prospective study on histone Î³-H2AX and 53BP1 foci expression in rectal carcinoma patients: correlation with radiation therapy-induced outcome. BMC Cancer, 2015, 15, 856.	2.6	21
31	Hsp90 Inhibitors NVP-AUY922 and NVP-BEP800 May Exert a Significant Radiosensitization on Tumor Cells along with a Cell Type-Specific Cytotoxicity. Translational Oncology, 2012, 5, 356-IN16.	3.7	20
32	Impact of dose intensified salvage radiation therapy on urinary continence recovery after radical prostatectomy: Results of the randomized trial SAKK 09/10. Radiotherapy and Oncology, 2018, 126, 257-262.	0.6	19
33	Targeting bcl-2 by Triplex-Forming Oligonucleotideâ€"A Promising Carrier for Geneâ€“Radiotherapy. Cancer Biotherapy and Radiopharmaceuticals, 2003, 18, 17-26.	1.0	17
34	RADIANCE â€“ Radiochemotherapy with or without Durvalumab in the treatment of anal squamous cell carcinoma: A randomized multicenter phase II trial. Clinical and Translational Radiation Oncology, 2020, 23, 43-49.	1.7	16
35	Oxygen-dependent regulation of NDRG1 in human glioblastoma cells in vitro and in vivo. Oncology Reports, 1994, 21, 237.	2.6	15
36	Stable and efficient retrospective 4D-MRI using non-uniformly distributed quasi-random numbers. Physics in Medicine and Biology, 2018, 63, 075002.	3.0	15

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37	Micronucleus formation kinetics in buccal mucosa cells of head and neck cancer patients undergoing radiotherapy. Toxicology Letters, 2012, 212, 33-37.	0.8	13
38	Is ad-hoc plan adaptation based on 2-Step IMRT feasible?. Radiotherapy and Oncology, 2009, 93, 266-272.	0.6	12
39	The cohesin-interacting protein, precocious dissociation of sisters 5A/sister chromatid cohesion protein 112, is up-regulated in human astrocytic tumors. International Journal of Molecular Medicine, 2010, 27, 39-51.	4.0	12
40	Influence of hypoxia and irradiation on osteopontin expression in head and neck cancer and glioblastoma cell lines. Radiation Oncology, 2015, 10, 167.	2.7	12
41	Initial results for patient setup verification using transperineal ultrasound and cone beam CT in external beam radiation therapy of prostate cancer. Radiation Oncology, 2016, 11, 147.	2.7	11
42	Moderately hypofractionated radiotherapy for localized prostate cancer: updated long-term outcome and toxicity analysis. Strahlentherapie Und Onkologie, 2021, 197, 124-132.	2.0	11
43	Cone beam CT-based dose accumulation and analysis of delivered dose to the dominant intraprostatic lesion in primary radiotherapy of prostate cancer. Radiation Oncology, 2021, 16, 205.	2.7	11
44	Influence of osteopontin silencing on survival and migration of lung cancer cells. Strahlentherapie Und Onkologie, 2013, 189, 62-67.	2.0	10
45	Distinct increased outliers among 136 rectal cancer patients assessed by Î³H2AX. Radiation Oncology, 2015, 10, 36.	2.7	10
46	Hypoxia induces differential expression patterns of osteopontin and CD44 in colorectal carcinoma. Oncology Reports, 2018, 39, 442-448.	2.6	10
47	Rapid detection of the hypoxia-regulated CA-IX and NDRG1 gene expression in different glioblastoma cells in vitro. Oncology Reports, 1994, 20, 413.	2.6	9
48	O-(2-[18F]fluoroethyl)-l-tyrosine uptake is an independent prognostic determinant in patients with glioma referred for radiation therapy. Annals of Nuclear Medicine, 2014, 28, 154-162.	2.2	9
49	Patient-Reported Outcomesâ€“Secondary Analysis of the SCORE-2 Trial Comparing 4 Gy Ã— 5 to 3 Gy Ã— 10 for Metastatic Epidural Spinal Cord Compression. International Journal of Radiation Oncology Biology Physics, 2019, 105, 760-764.	0.8	9
50	Desynchronization of Cartesian kâ€space sampling and periodic motion for improved retrospectively selfâ€gated 3D lung MRI using quasiâ€random numbers. Magnetic Resonance in Medicine, 2017, 77, 787-793.	3.0	8
51	Evaluation of a software module for adaptive treatment planning and re-irradiation. Radiation Oncology, 2017, 12, 205.	2.7	8
52	Evaluation of intrafraction prostate motion tracking using the Clarity Autoscan system for safety margin validation. Zeitschrift Fur Medizinische Physik, 2020, 30, 135-141.	1.5	8
53	Differences in stem cell marker and osteopontin expression in primary and recurrent glioblastoma. Cancer Cell International, 2022, 22, 87.	4.1	8
54	Studies on the role of osteopontin-1 in endometrial cancer cell lines. Strahlentherapie Und Onkologie, 2013, 189, 1040-1048.	2.0	7

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55	Impact of beam configuration on VMAT plan quality for Pinnacle3Auto-Planning for head and neck cases. Radiation Oncology, 2019, 14, 12.	2.7	7
56	Changes in penile bulb dose when using the Clarity transperineal ultrasound probe: A planning study. Practical Radiation Oncology, 2016, 6, e337-e344.	2.1	6
57	Accelerated hyperfractionated radiochemotherapy with temozolomide is equivalent to normofractionated radiochemotherapy in a retrospective analysis of patients with glioblastoma. Radiation Oncology, 2019, 14, 227.	2.7	6
58	The Radiosensitizing Effect of Zinc Oxide Nanoparticles in Sub-Cytotoxic Dosing Is Associated with Oxidative Stress In Vitro. Materials, 2019, 12, 4062.	2.9	6
59	Quality of life in rectal cancer patients with or without oxaliplatin in the randomised CAO/ARO/AIO-04 phase 3 trial. European Journal of Cancer, 2021, 144, 281-290.	2.8	6
60	Adherence to Contouring and Treatment Planning Requirements Within a Multicentric Trial: Results of the Quality Assurance of the SAKK 09/10 trial. International Journal of Radiation Oncology Biology Physics, 2022, 113, 80-91.	0.8	5
61	Towards automated on-line adaptation of 2-Step IMRT plans: QUASIMODO phantom and prostate cancer cases. Radiation Oncology, 2013, 8, 263.	2.7	4
62	Perioperative changes in osteopontin and TGFÎ²1 plasma levels and their prognostic impact for radiotherapy in head and neck cancer. BMC Cancer, 2017, 17, 6.	2.6	4
63	Non-rigid image registration of 4D-MRI data for improved delineation of moving tumors. BMC Medical Imaging, 2020, 20, 41.	2.7	4
64	Propensity score-matched analysis comparing dose-escalated intensity-modulated radiation therapy versus external beam radiation therapy plus high-dose-rate brachytherapy for localized prostate cancer. Strahlentherapie Und Onkologie, 2022, , 1.	2.0	4
65	Generation of prostate IMAT plans adaptable to the inter-fractional changes of patient geometry. Physics in Medicine and Biology, 2014, 59, 1947-1962.	3.0	3
66	Combination of salinomycin and radiation effectively eliminates head and neck squamous cell carcinoma cells inÃ¯Â¿Â½vitro. Oncology Reports, 2018, 39, 1991-1998.	2.6	3
67	MAGE-A9 in head and neck cancer: Prognostic value and preclinical findings in the context of irradiation. Molecular and Clinical Oncology, 2018, 8, 513-519.	1.0	3
68	Comparison of treatment plans for hypofractionated highâ€dose prostate cancer radiotherapy using the Varian Halcyon and the Elekta Synergy platforms. Journal of Applied Clinical Medical Physics, 2021, 22, 262-270.	1.9	3
69	Comparison of sliding window and field-in-field techniques for tangential whole breast irradiation using the Halcyon and Synergy Agility systems. Radiation Oncology, 2021, 16, 213.	2.7	3
70	Feasibility of 4D T2* quantification in the lung with oxygen gas challenge in patients with non-small cell lung cancer. Physica Medica, 2020, 72, 46-51.	0.7	2
71	Chemoradiotherapy by intensity-modulated radiation therapy with simultaneous integrated boost in locally advanced or oligometastatic non-small-cell lung cancerâ€”aÂtwo center experience. Strahlentherapie Und Onkologie, 2021, 197, 405-415.	2.0	2
72	Two-Weekly High-Dose-Rate Brachytherapy Boost After External Beam Radiotherapy for Localized Prostate Cancer: Long-Term Outcome and Toxicity Analysis. Frontiers in Oncology, 2021, 11, 764536.	2.8	2

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73	Predictors for the utilization of social service counseling by prostate cancer patients. Supportive Care in Cancer, 2021, , 1.	2.2	1
74	Comparing Iridium-192 with Cobalt-60 sources in high-dose-rate brachytherapy boost for localized prostate cancer. Acta OncolÃ³gica, 2022, 61, 714-719.	1.8	1
75	Gene expression inhibition of N-Myc downregulated gene 1 (NDRG1) monitoring and facilitation via transfectional transfer of NDRG1-siRNA constructs into- in vitro-cultured human glioblastoma cells. , 2011, , .		0
76	Properties of the anisotropy of dose contributions: A planning study on prostate cases. Medical Physics, 2019, 46, 419-425.	3.0	0
77	MO-D-BRB-09: IMRT Ad-Hoc Adaption - Initial Results for Prostate: A Retrospective Planning Study. Medical Physics, 2009, 36, 2694-2694.	3.0	0
78	T-Staging and Target Volume Definition by Imaging in GI Tumors. Medical Radiology, 2020, , 203-220.	0.1	0
79	The role of beam density and arrangement in non-coplanar IMRT exemplified by the irradiation of brain tumors â€“ Parallels to computed tomographic imaging. Physica Medica, 2021, , .	0.7	0