Thierry Gevaert

List of Publications by Year
in descending order

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Version: 2024-02-01

68 papers	2,482 citations	236912 25 h-index	197805 49 g-index
69 all docs	69 docs citations	69 times ranked	3053 citing authors

#	Article	IF	Citations
1	Phase I Study of ⁶⁸Ga-HER2-Nanobody for PET/CT Assessment of HER2 Expression in Breast Carcinoma. Journal of Nuclear Medicine, 2016, 57, 27-33.	5.0	317
2	Prospective, Risk-Adapted Strategy of Stereotactic Body Radiotherapy for Early-Stage Nonâ€“Small-Cell Lung Cancer: Results of a Phase II Trial. International Journal of Radiation Oncology Biology Physics, 2011, 80, 1343-1349.	0.8	176
3	Geometric accuracy of a novel gimbals based radiation therapy tumor tracking system. Radiotherapy and Oncology, 2011, 98, 365-372.	0.6	164
4	Setup Accuracy of the Novalis ExacTrac 6DOF System for Frameless Radiosurgery. International Journal of Radiation Oncology Biology Physics, 2012, 82, 1627-1635.	0.8	114
5	Clinical Evaluation of a Robotic 6-Degree of Freedom Treatment Couch for Frameless Radiosurgery. International Journal of Radiation Oncology Biology Physics, 2012, 83, 467-474.	0.8	109
6	Treating patients with real-time tumor tracking using the Vero gimbaled linac system: Implementation and first review. Radiotherapy and Oncology, 2014, 112, 343-351.	0.6	103
7	The long- and short-term variability of breathing induced tumor motion in lung and liver over the course of a radiotherapy treatment. Radiotherapy and Oncology, 2018, 126, 339-346.	0.6	96
8	Initial assessment of tumor tracking with a gimbaled linac system in clinical circumstances: A patient simulation study. Radiotherapy and Oncology, 2013, 106, 236-240.	0.6	92
9	Stereotactic radiotherapy for oligometastatic cancer: a prognostic model for survival. Annals of Oncology, 2014, 25, 467-471.	1.2	89
10	Single Fraction Versus Fractionated Linac-Based Stereotactic Radiotherapy for Vestibular Schwannoma: A Single-Institution Experience. International Journal of Radiation Oncology Biology Physics, 2011, 81, e503-e509.	0.8	86
11	Dosimetric comparison of different treatment modalities for stereotactic radiosurgery of arteriovenous malformations and acoustic neuromas. Radiotherapy and Oncology, 2013, 106, 192-197.	0.6	70
12	Dosimetric assessment of static and helical TomoTherapy in the clinical implementation of breast cancer treatments. Radiotherapy and Oncology, 2009, 93, 71-79.	0.6	69
13	Auranofin radiosensitizes tumor cells through targeting thioredoxin reductase and resulting overproduction of reactive oxygen species. Oncotarget, 2017, 8, 35728-35742.	1.8	68
14	Preoperative intensity-modulated and image-guided radiotherapy with a simultaneous integrated boost in locally advanced rectal cancer: Report on late toxicity and outcome. Radiotherapy and Oncology, 2014, 110, 155-159.	0.6	60
15	Piperlongumine increases sensitivity of colorectal cancer cells to radiation: Involvement of ROS production via dual inhibition of glutathione and thioredoxin systems. Cancer Letters, 2019, 450, 42-52.	7.2	58
16	Gating and tracking, 4D in thoracic tumours. Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique, 2010, 14, 446-454.	1.4	51
17	Treatment delivery time optimization of respiratory gated radiation therapy by application of audio-visual feedback. Radiotherapy and Oncology, 2009, 91, 330-335.	0.6	50
18	Impact of inadequate respiratory motion management in SBRT for oligometastatic colorectal cancer. Radiotherapy and Oncology, 2014, 113, 235-239.	0.6	50

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19	Evaluation of a dedicated brain metastases treatment planning optimization for radiosurgery: a new treatment paradigm?. Radiation Oncology, 2016, 11, 13.	2.7	50
20	An overview of volumetric imaging technologies and their quality assurance for IGRT. Acta OncolÃ³gica, 2008, 47, 1271-1278.	1.8	49
21	Computer-aided analysis of star shot films for high-accuracy radiation therapy treatment units. Physics in Medicine and Biology, 2012, 57, 2997-3011.	3.0	47
22	Impact of planning target volume margins and rectal distention on biochemical failure in image-guided radiotherapy of prostate cancer. Radiotherapy and Oncology, 2014, 111, 106-109.	0.6	35
23	Dosimetric comparison of different treatment modalities for stereotactic radiosurgery of meningioma. Acta Neurochirurgica, 2015, 157, 559-564.	1.7	32
24	Antidiabetic Biguanides Radiosensitize Hypoxic Colorectal Cancer Cells Through a Decrease in Oxygen Consumption. Frontiers in Pharmacology, 2018, 9, 1073.	3.5	29
25	Phase II study of helical tomotherapy for oligometastatic colorectal cancer. Annals of Oncology, 2011, 22, 362-368.	1.2	27
26	Gamma Knife, CyberKnife, TomoTherapy. Current Opinion in Neurology, 2011, 24, 616-625.	3.6	26
27	Myeloid-derived suppressor cells reveal radioprotective properties through arginase-induced l-arginine depletion. Radiotherapy and Oncology, 2016, 119, 291-299.	0.6	26
28	Improving the intra-fraction update efficiency of a correlation model used for internal motion estimation during real-time tumor tracking for SBRT patients: Fast update or no update?. Radiotherapy and Oncology, 2014, 112, 352-359.	0.6	25
29	Phase II study of helical tomotherapy in the multidisciplinary treatment of oligometastatic colorectal cancer. Radiation Oncology, 2012, 7, 34.	2.7	24
30	A complementary dual-modality verification for tumor tracking on a gimbaled linac system. Radiotherapy and Oncology, 2013, 109, 469-474.	0.6	23
31	Feasibility of markerless tumor tracking by sequential dual-energy fluoroscopy on a clinical tumor tracking system. Radiotherapy and Oncology, 2015, 117, 487-490.	0.6	22
32	Initial characterization, dosimetric benchmark and performance validation of Dynamic Wave Arc. Radiation Oncology, 2016, 11, 63.	2.7	21
33	Motion management during SBRT for oligometastatic cancer: Results of a prospective phase II trial. Radiotherapy and Oncology, 2016, 119, 519-524.	0.6	19
34	Daily Megavoltage Computed Tomography in Lung Cancer Radiotherapy: Correlation Between Volumetric Changes and Local Outcome. International Journal of Radiation Oncology Biology Physics, 2011, 80, 1338-1342.	0.8	18
35	Dichloroacetate Radiosensitizes Hypoxic Breast Cancer Cells. International Journal of Molecular Sciences, 2020, 21, 9367.	4.1	16
36	Radiosurgery in the management of brain metastasis: a retrospective single-center study comparing Gamma Knife and LINAC treatment. Journal of Neurosurgery, 2018, 128, 352-361.	1.6	15

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37	The effect of tomotherapy imaging beam output instabilities on dose calculation. Physics in Medicine and Biology, 2010, 55, N329-N336.	3.0	14
38	Implementation of HybridArc treatment technique in preoperative radiotherapy of rectal cancer: dose patterns in target lesions and organs at risk as compared to helical Tomotherapy and RapidArc. Radiation Oncology, 2012, 7, 120.	2.7	14
39	Geometric Verification of Dynamic Wave Arc Delivery With the Vero System Using Orthogonal X-ray Fluoroscopic Imaging. International Journal of Radiation Oncology Biology Physics, 2015, 92, 754-761.	0.8	14
40	Quality Assurance of a 50-kV Radiotherapy Unit Using EBT3 GafChromic Film. Technology in Cancer Research and Treatment, 2016, 15, 163-170.	1.9	13
41	Hepatocytes Determine the Hypoxic Microenvironment and Radiosensitivity of Colorectal Cancer Cells Through Production of Nitric Oxide That Targets Mitochondrial Respiration. International Journal of Radiation Oncology Biology Physics, 2013, 85, 820-827.	0.8	12
42	Feasibility of using the Vero SBRT system for intracranial SRS. Journal of Applied Clinical Medical Physics, 2014, 15, 90-99.	1.9	12
43	Evaluation of the clinical usefulness for using verification images during frameless radiosurgery. Radiotherapy and Oncology, 2013, 108, 114-117.	0.6	11
44	Treating patients with Dynamic Wave Arc: First clinical experience. Radiotherapy and Oncology, 2017, 122, 347-351.	0.6	10
45	An in-house developed resettable MOSFET dosimeter for radiotherapy. Physics in Medicine and Biology, 2010, 55, N97-N109.	3.0	8
46	In vivo dosimetry for patients with prostate cancer to assess possible impact of bladder and rectum preparation. Technical Innovations and Patient Support in Radiation Oncology, 2020, 16, 65-69.	1.9	8
47	In vivo Estimation of Extracranial Doses in Stereotactic Radiosurgery with the Gamma Knife and Novalis Systems. , 2006, 6, 36-49.		6
48	Is there any benefit to particles over photon radiotherapy?. Ecancermedicalscience, 2019, 13, 982.	1.1	6
49	Current Status of Intensified Neo-Adjuvant Systemic Therapy in Locally Advanced Rectal Cancer. Frontiers in Oncology, 2012, 2, 47.	2.8	5
50	Feasibility of markerless tumor tracking by sequential dual-energy fluoroscopy on a clinical tumor tracking system. IFMBE Proceedings, 2015, , 591-594.	0.3	5
51	Potential of memory T cells in bridging preoperative chemoradiation and immunotherapy in rectal cancer. Radiotherapy and Oncology, 2018, 127, 361-369.	0.6	4
52	Analysis of the targeting uncertainty of a stereotactic frameless radiosurgery technique for arteriovenous malformation. Radiotherapy and Oncology, 2014, 113, 371-373.	0.6	3
53	Dynamic Lung Tumor Tracking for Stereotactic Ablative Body Radiation Therapy. Journal of Visualized Experiments, 2015, , e52875.	0.3	2
54	Frameless Image Guidance in Stereotactic Radiosurgery. , 2020, , 37-48.		2

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55	Medical Physics Principles of Radiosurgery. , 2007, 20, 43-49.		1
56	TH-A-137-11: First Clinical Experience Treating Patients with the Gimbaled Linac Tumor Tracking of the Vero SBRT System. Medical Physics, 2013, 40, 519-519.	3.0	1
57	Feasibility of Using the Novel SBRT System for Radiation Therapy and SRS of Intracranial Lesions. International Journal of Radiation Oncology Biology Physics, 2012, 84, S824.	0.8	0
58	Reply to the letter to the editor â€˜Are male gender and nonadenocarcinoma histology valid prognostic factors for breast cancer?â€™ by Eren et al.. Annals of Oncology, 2014, 25, 911-912.	1.2	0
59	Targeting Accuracy of a Stereotactic Frameless Radiosurgery Technique for Arteriovenous Malformation. International Journal of Radiation Oncology Biology Physics, 2014, 90, S894.	0.8	0
60	Letter to the editor regarding the article â€œOnline adaptive MR-guided radiotherapy for rectal cancer; feasibility of the workflow on a 1.5T MR-linac: Clinical implementation and initial experienceâ€• by Intven et al. Radiotherapy and Oncology, 2021, 158, 244-245.	0.6	0
61	SU-FF-J-144: Stability Assessment of MVCT Imaging for Dose Calculation Purposes. Medical Physics, 2009, 36, 2510-2510.	3.0	0
62	SU-FF-T-551: From Frame-Based to Frameless Radiosurgery. Medical Physics, 2009, 36, 2651-2651.	3.0	0
63	SU-FF-J-141: Volumetric Response Analysis During Chemoradiation as Predictive Tool for Optimizing Treatment Strategy in Locally Advanced Unresectable NSCLC. Medical Physics, 2009, 36, 2509-2509.	3.0	0
64	SUâ€GGâ€Tâ€369: An Inâ€House Developed MOSFET Dosimeter with Reset Capabilities. Medical Physics, 2010, 37, 3271-3271.	3.0	0
65	SU-E-J-152: Improving 4D CBCT Image Quality by Using Tumor Trajectory Based Rebinning with Orthogonal Dual Source KV Imaging of the Novel VERO System. Medical Physics, 2011, 38, 3478-3478.	3.0	0
66	SU-E-T-454: Feasibilty of Image-Guided Total Marrow Irradiation Using Helical TomoTherapy. Medical Physics, 2011, 38, 3593-3593.	3.0	0
67	SU-E-J-166: Combining Dynamic Wave Arc and Tangential Arc for Breast Boost Irradiation with the Vero System. Medical Physics, 2013, 40, 189-189.	3.0	0
68	Nanobody-based PET/CT imaging of HER2 expression in breast carcinoma: Phase I results and potential to assess tumor heterogeneity.. Journal of Clinical Oncology, 2015, 33, e11600-e11600.	1.6	0