Peter G Maxim

List of Publications by Year
in descending order

62 papers	1,855 citations	293460 24 h-index	312153 41 g-index
63 all docs	63 docs citations	63 times ranked	1895 citing authors

#	Article	IF	Citations
1	Ultraâ€high dose rate electron beams and the FLASH effect: From preclinical evidence to a new radiotherapy paradigm. Medical Physics, 2022, 49, 2082-2095.	1.6	66
2	Three discipline collaborative radiation therapy (3DCRT) special debate: FLASH radiotherapy needs ongoing basic and animal research before implementing it to a large clinical scale. Journal of Applied Clinical Medical Physics, 2022, 23, e13547.	0.8	2
3	Detection of Recurrence After Thoracic Stereotactic Ablative Radiotherapy Using FDG-PET-CT. Clinical Lung Cancer, 2022, 23, 282-289.	1.1	1
4	Acute and Late Esophageal Toxicity After SABR to Thoracic Tumors Near or Abutting the Esophagus. International Journal of Radiation Oncology Biology Physics, 2022, 112, 1144-1153.	0.4	2
5	Effects of Ultra-high doserate FLASH Irradiation on the Tumor Microenvironment in Lewis Lung Carcinoma: Role of Myosin Light Chain. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1440-1453.	0.4	42
6	An automated optimization strategy to design collimator geometry for small field radiation therapy systems. Physics in Medicine and Biology, 2021, 66, 075016.	1.6	2
7	Radiation shielding and safety implications following linac conversion to an electron FLASHâ€RT unit. Medical Physics, 2021, 48, 5396-5405.	1.6	12
8	Local Recurrence Outcomes of Colorectal Cancer Oligometastases Treated With Stereotactic Ablative Radiotherapy. American Journal of Clinical Oncology: Cancer Clinical Trials, 2021, 44, 559-564.	0.6	6
9	Cost Analysis of Audiovisual-Assisted Therapeutic Ambiance in Radiation Therapy (AVATAR)-Aided Omission of Anesthesia in Radiation for Pediatric Malignancies. Practical Radiation Oncology, 2020, 10, e91-e94.	1.1	3
10	KEAP1/NFE2L2 Mutations Predict Lung Cancer Radiation Resistance That Can Be Targeted by Glutaminase Inhibition. Cancer Discovery, 2020, 10, 1826-1841.	7.7	93
11	Impact of Audiovisual-Assisted Therapeutic Ambience in Radiation Therapy (AVATAR) on Anesthesia Use, Payer Charges, and Treatment Time in Pediatric Patients. Practical Radiation Oncology, 2020, 10, e272-e279.	1.1	8
12	Abdominal FLASH irradiation reduces radiation-induced gastrointestinal toxicity for the treatment of ovarian cancer in mice. Scientific Reports, 2020, 10, 21600.	1.6	119
13	Predicting per-lesion local recurrence in locally advanced non-small cell lung cancerÂfollowingÂdefinitive radiation therapy using pre- and mid-treatment metabolic tumor volume. Radiation Oncology, 2020, 15, 114.	1.2	4
14	Exploiting tumor position differences between deep inspiration and expiration in lung stereotactic body radiation therapy planning. Medical Dosimetry, 2020, 45, 293-297.	0.4	2
15	Understanding High-Dose, Ultra-High Dose Rate, and Spatially Fractionated Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2020, 107, 766-778.	0.4	70
16	FLASH Irradiation Results in Reduced Severe Skin Toxicity Compared to Conventional-Dose-Rate Irradiation. Radiation Research, 2020, 194, 618-624.	0.7	64
17	Evaluating the Reproducibility of Mouse Anatomy under Rotation in a Custom Immobilization Device for Conformal FLASH Radiotherapy. Radiation Research, 2020, 194, 600-606.	0.7	2
18	Predictors of Respiratory Decline Following Stereotactic Ablative Radiotherapy to Multiple Lung Tumors. Clinical Lung Cancer, 2019, 20, 461-468.e2.	1.1	5

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19	FLASH radiotherapy: Newsflash or flash in the pan?. Medical Physics, 2019, 46, 4287-4290.	1.6	31
20	Reduced cognitive deficits after FLASH irradiation of whole mouse brain are associated with less hippocampal dendritic spine loss and neuroinflammation. Radiotherapy and Oncology, 2019, 139, 4-10.	0.3	166
21	PHASER: A platform for clinical translation of FLASH cancer radiotherapy. Radiotherapy and Oncology, 2019, 139, 28-33.	0.3	110
22	Conical beam geometry intensity-modulated radiation therapy. Physics in Medicine and Biology, 2019, 64, 125014.	1.6	4
23	Increases in Serial Pretreatment 18F-FDG PET-CT Metrics Predict Survival in Early Stage Non-Small Cell Lung Cancer Treated With Stereotactic Ablative Radiation Therapy. Advances in Radiation Oncology, 2019, 4, 429-437.	0.6	2
24	A Feasibility Study of Single-inhalation, Single-energy Xenon-enhanced CT for High-resolution Imaging of Regional Lung Ventilation in Humans. Academic Radiology, 2019, 26, 38-49.	1.3	2
25	18F-EF5 PET-based Imageable Hypoxia Predicts Local Recurrence in Tumors Treated With Highly Conformal Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1183-1192.	0.4	22
26	Chest wall dose reduction using noncoplanar volumetric modulated arc radiation therapy for lung stereotactic ablative radiation therapy. Practical Radiation Oncology, 2018, 8, e199-e207.	1.1	4
27	Line-Enhanced Deformable Registration of Pulmonary Computed Tomography Images Before and After Radiation Therapy With Radiation-Induced Fibrosis. Technology in Cancer Research and Treatment, 2018, 17, 153303461774941.	0.8	2
28	Prognostic Value of Pretreatment FDG-PET Parameters in High-dose Image-guided Radiotherapy for Oligometastatic Nonâ€“Small-cell Lung Cancer. Clinical Lung Cancer, 2018, 19, e581-e588.	1.1	22
29	Dynamic CT imaging of volumetric changes in pulmonary nodules correlates with physical measurements of stiffness. Radiotherapy and Oncology, 2017, 122, 313-318.	0.3	11
30	Pulmonary function after lung tumor stereotactic ablative radiotherapy depends on regional ventilation within irradiated lung. Radiotherapy and Oncology, 2017, 123, 270-275.	0.3	6
31	Very highâ€energy electron (<scp>VHEE</scp>) beams in radiation therapy; Treatment plan comparison between <scp>VHEE</scp> , <scp>VMAT</scp> , and <scp>PPBS</scp>. Medical Physics, 2017, 44, 2544-2555.	1.6	54
32	Initial clinical outcomes of audiovisual-assisted therapeutic ambience in radiation therapy (AVATAR). Practical Radiation Oncology, 2017, 7, 311-318.	1.1	19
33	Thermal limits on MV xâ€ray production by bremsstrahlung targets in the context of novel linear accelerators. Medical Physics, 2017, 44, 6610-6620.	1.6	11
34	Mid-radiotherapy PET/CT for prognostication and detection of early progression in patients with stage III non-small cell lung cancer. Radiotherapy and Oncology, 2017, 125, 338-343.	0.3	29
35	Practical workflow for rapid prototyping of radiation therapy positioning devices. Practical Radiation Oncology, 2017, 7, 442-445.	1.1	2
36	Experimental Platform for Ultra-high Dose Rate FLASH Irradiation of Small Animals Using a Clinical Linear Accelerator. International Journal of Radiation Oncology Biology Physics, 2017, 97, 195-203.	0.4	177

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37	Hypofractionated Intensity-Modulated Radiotherapy for Patients With Nonâ€“Small-Cell Lung Cancer. Clinical Lung Cancer, 2016, 17, 588-594.	1.1	19
38	Assessment of the quality of very high-energy electron radiotherapy planning. Radiotherapy and Oncology, 2016, 119, 154-158.	0.3	34
39	Pre-treatment non-target lung FDG-PET uptake predicts symptomatic radiation pneumonitis following Stereotactic Ablative Radiotherapy (SABR). Radiotherapy and Oncology, 2016, 119, 454-460.	0.3	27
40	Time course and predictive factors for lung volume reduction following stereotactic ablative radiotherapy (SABR) of lung tumors. Radiation Oncology, 2016, 11, 40.	1.2	5
41	Dosimetric Factors and Toxicity in Highly Conformal Thoracic Reirradiation. International Journal of Radiation Oncology Biology Physics, 2016, 94, 808-815.	0.4	31
42	Early Change in Metabolic Tumor Heterogeneity during Chemoradiotherapy and Its Prognostic Value for Patients with Locally Advanced Non-Small Cell Lung Cancer. PLoS ONE, 2016, 11, e0157836.	1.1	53
43	Optimization of an onâ€board imaging system for extremely rapid radiation therapy. Medical Physics, 2015, 42, 6757-6767.	1.6	7
44	Comparison of film measurements and Monte Carlo simulations of dose delivered with very highâ€energy electron beams in a polystyrene phantom. Medical Physics, 2015, 42, 1606-1613.	1.6	40
45	Treatment planning for radiotherapy with very highâ€energy electron beams and comparison of VHEE and VMAT plans. Medical Physics, 2015, 42, 2615-2625.	1.6	55
46	Outcomes of Modestly Hypofractionated Radiation for Lung Tumors: Pre- and Mid-Treatment Positron Emission Tomography-Computed Tomography Metrics as Prognostic Factors. Clinical Lung Cancer, 2015, 16, 475-485.	1.1	9
47	Analysis of Long-Term 4-Dimensional Computed Tomography Regional Ventilation After Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2015, 92, 683-690.	0.4	17
48	Noninvasive pulmonary nodule elastometry by CT and deformable image registration. Radiotherapy and Oncology, 2015, 115, 35-40.	0.3	7
49	Colorectal Histology Is Associated With an Increased Risk of Local Failure in Lung Metastases Treated With Stereotactic Ablative Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2015, 92, 1044-1052.	0.4	61
50	Anatomic optimization of lung tumor stereotactic ablative radiation therapy. Practical Radiation Oncology, 2015, 5, e607-e613.	1.1	4
51	Contouring variations and the role of atlas in non-small cell lung cancer radiation therapy: Analysis of a multi-institutional preclinical trial planning study. Practical Radiation Oncology, 2015, 5, e67-e75.	1.1	33
52	Lung Volume Reduction After Stereotactic Ablative Radiation Therapy of Lung Tumors: Potential Application to Emphysema. International Journal of Radiation Oncology Biology Physics, 2014, 90, 216-223.	0.4	5
53	Vagal and recurrent laryngeal neuropathy following stereotactic ablative radiation therapy in the chest. Practical Radiation Oncology, 2014, 4, 272-278.	1.1	15
54	Imaging Features Associated With Disease Progression After Stereotactic Ablative Radiotherapy for Stage I Nonâ€“Small-Cell Lung Cancer. Clinical Lung Cancer, 2014, 15, 294-301.e3.	1.1	25

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55	The effect of arm position on the dosimetry of thoracic stereotactic ablative radiation therapy using volumetric modulated arc therapy. Practical Radiation Oncology, 2014, 4, 192-197.	1.1	3
56	Clinical impact of dose overestimation by effective path length calculation in stereotactic ablative radiation therapy of lung tumors. Practical Radiation Oncology, 2013, 3, 294-300.	1.1	19
57	4D CT lung ventilation images are affected by the 4D CT sorting method. Medical Physics, 2013, 40, 101907.	1.6	52
58	Tumor Volume-Adapted Dosing in Stereotactic Ablative Radiotherapy of Lung Tumors. International Journal of Radiation Oncology Biology Physics, 2012, 84, 231-237.	0.4	66
59	On-Board Imaging Validation of Optically Guided Stereotactic Radiosurgery Positioning System for Conventionally Fractionated Radiotherapy for Paranasal Sinus and Skull Base Cancer. International Journal of Radiation Oncology Biology Physics, 2011, 81, 1153-1159.	0.4	2
60	Quantification of Motion of Different Thoracic Locations UsingÂFour-Dimensional Computed Tomography: Implications forÂRadiotherapy Planning. International Journal of Radiation Oncology Biology Physics, 2007, 69, 1395-1401.	0.4	45
61	Optical Detection of Tumors In Vivo by Visible Light Tissue Oximetry. Technology in Cancer Research and Treatment, 2005, 4, 227-234.	0.8	17
62	Enhanced Effectiveness of Radiochemotherapy with Tirapazamine by Local Application of Electric Pulses to Tumors. Radiation Research, 2004, 162, 185-193.	0.7	20