

# Thomas Tessonier

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

881  
citations

567281

15  
h-index

580821

25  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1137  
citing authors

#	ARTICLE	IF	CITATIONS
1	The FLUKA Code: An Accurate Simulation Tool for Particle Therapy. <i>Frontiers in Oncology</i> , 2016, 6, 116.	2.8	182
2	Comparison of proton therapy treatment planning for head tumors with a pencil beam algorithm on dual and single energy CT images. <i>Medical Physics</i> , 2016, 43, 495-504.	3.0	89
3	Helium ions for radiotherapy? Physical and biological verifications of a novel treatment modality. <i>Medical Physics</i> , 2016, 43, 1995-2004.	3.0	87
4	Next generation multi-scale biophysical characterization of high precision cancer particle radiotherapy using clinical proton, helium-, carbon- and oxygen ion beams. <i>Oncotarget</i> , 2016, 7, 56676-56689.	1.8	72
5	Software platform for simulation of a prototype proton <scp>CT</scp> scanner. <i>Medical Physics</i> , 2017, 44, 1002-1016.	3.0	48
6	Proton therapy for treatment of intracranial benign tumors in adults: A systematic review. <i>Cancer Treatment Reviews</i> , 2019, 72, 56-64.	7.7	43
7	Fast robust dose calculation on GPU for high-precision 1H, 4He, 12C and 16O ion therapy: the FRoG platform. <i>Scientific Reports</i> , 2018, 8, 14829.	3.3	41
8	Spectroscopic study of prompt-gamma emission for range verification in proton therapy. <i>Physica Medica</i> , 2017, 34, 7-17.	0.7	38
9	Biophysical modeling and experimental validation of relative biological effectiveness (RBE) for 4He ion beam therapy. <i>Radiation Oncology</i> , 2019, 14, 123.	2.7	37
10	Proton therapy for head and neck squamous cell carcinomas: A review of the physical and clinical challenges. <i>Radiotherapy and Oncology</i> , 2020, 147, 30-39.	0.6	37
11	Proton and helium ion radiotherapy for meningioma tumors: a Monte Carlo-based treatment planning comparison. <i>Radiation Oncology</i> , 2018, 13, 2.	2.7	36
12	FLASH Dose Rate Helium Ion Beams: First In Vitro Investigations. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 1011-1022.	0.8	34
13	Phase Space Generation for Proton and Carbon Ion Beams for External Users™ Applications at the Heidelberg Ion Therapy Center. <i>Frontiers in Oncology</i> , 2015, 5, 297.	2.8	33
14	Sensitivity of post treatment positron emission tomography/computed tomography to detect inter-fractional range variations in scanned ion beam therapy. <i>Acta Oncologica</i> , 2017, 56, 1451-1458.	1.8	25
15	Dosimetric validation of Monte Carlo and analytical dose engines with raster-scanning 1H, 4He, 12C, and 16O ion-beams using an anthropomorphic phantom. <i>Physica Medica</i> , 2019, 64, 123-131.	0.7	18
16	Spot-Scanning Hadron Arc (SHArc) Therapy: A Study With Light and Heavy Ions. <i>Advances in Radiation Oncology</i> , 2021, 6, 100661.	1.2	16
17	Towards real-time PGS range monitoring in proton therapy of prostate cancer. <i>Scientific Reports</i> , 2021, 11, 15331.	3.3	6
18	Combined DNA Damage Repair Interference and Ion Beam Therapy: Development, Benchmark, and Clinical Implications of a Mechanistic Biological Model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 112, 802-817.	0.8	6

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19	Biological Dose Optimization for Particle Arc Therapy Using Helium and Carbon Ions. International Journal of Radiation Oncology Biology Physics, 2022, 114, 334-348.	0.8	6
20	Spot-scanning hadron arc (SHArc) therapy: A proof of concept using single- and multi-ion strategies with helium, carbon, oxygen, and neon ions. Medical Physics, 2022, 49, 6082-6097.	3.0	6
21	Potential of a Second-Generation Dual-Layer Spectral CT for Dose Calculation in Particle Therapy Treatment Planning. Frontiers in Oncology, 2022, 12, 853495.	2.8	5
22	How can we consider variable RBE and LETd prediction during clinical practice? A pediatric case report at the Normandy Proton Therapy Centre using an independent dose engine. Radiation Oncology, 2022, 17, 23.	2.7	4
23	Impact of DNA Repair Kinetics and Dose Rate on RBE Predictions in the UNIVERSE. International Journal of Molecular Sciences, 2022, 23, 6268.	4.1	2
24	No diagnostic impact of routinely use of respiratory gating to characterize lung nodules with 18F-FDG PET/CT. Medecine Nucleaire, 2018, 42, 206-213.	0.2	0
25	Dataset for predicting single-spot proton ranges in proton therapy of prostate cancer. Scientific Data, 2021, 8, 252.	5.3	0
26	EPEN-15. Radiotherapy with helium ions has the potential to improve both endocrine and neurocognitive outcome in pediatric patients with ependymoma. Neuro-Oncology, 2022, 24, i41-i41.	1.2	0