Hermann Fuchs

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An external perpendicular magnetic field does not influence survival and DNA damage after proton and carbon ion irradiation in human cancer cells. Zeitschrift Fur Medizinische Physik, 2022, , .	0.6	Ο
2	Roadmap: helium ion therapy. Physics in Medicine and Biology, 2022, 67, 15TR02.	1.6	24
3	Efficient full Monte Carlo modelling and multi-energy generative model development of an advanced X-ray device. Zeitschrift Fur Medizinische Physik, 2022, , .	0.6	Ο
4	The practical radius of a pencil beam in proton therapy. Zeitschrift Fur Medizinische Physik, 2021, 31, 166-174.	0.6	1
5	Technical Note: Design and commissioning of a water phantom for proton dosimetry in magnetic fields. Medical Physics, 2021, 48, 505-512.	1.6	3
6	MRâ€guided proton therapy: Impact of magnetic fields on the detector response. Medical Physics, 2021, 48, 2572-2579.	1.6	12
7	Computerâ€assisted beam modeling for particle therapy. Medical Physics, 2021, 48, 841-851.	1.6	12
8	Benchmarking a GATE/Geant4 Monte Carlo model for proton beams in magnetic fields. Medical Physics, 2020, 47, 223-233.	1.6	12
9	Clinical implementation and commissioning of the MedAustron Particle Therapy Accelerator for nonâ€isocentric scanned proton beam treatments. Medical Physics, 2020, 47, 380-392.	1.6	20
10	Experimental benchmarking of RayStation proton dose calculation algorithms inside and outside the target region in heterogeneous phantom geometries. Physica Medica, 2020, 76, 182-193.	0.4	15
11	Technical Note: GATEâ€RTion: a GATE/Geant4 release for clinical applications in scanned ion beam therapy. Medical Physics, 2020, 47, 3675-3681.	1.6	25
12	Characterization of the PTW-34089 type 147 mm diameter large-area ionization chamber for use in light-ion beams. Physics in Medicine and Biology, 2020, 65, 17NT02.	1.6	5
13	Dose―rather than fluenceâ€øveraged LET should be used as a singleâ€parameter descriptor of proton beam quality for radiochromic film dosimetry. Medical Physics, 2020, 47, 2289-2299.	1.6	12
14	A GATE/Geant4 beam model for the MedAustron non-isocentric proton treatment plans quality assurance. Physica Medica, 2020, 71, 115-123.	0.4	25
15	Implementation of a dose calculation algorithm based on Monte Carlo simulations for treatment planning towards MRI guided ion beam therapy. Physica Medica, 2020, 74, 155-165.	0.4	13
16	Towards offline PET monitoring of proton therapy at MedAustron. Zeitschrift Fur Medizinische Physik, 2019, 29, 59-65.	0.6	11
17	Characterization of EBT3 radiochromic films for dosimetry of proton beams in the presence of magnetic fields. Medical Physics, 2019, 46, 3278-3284.	1.6	10
18	Evaluation of electromagnetic and nuclear scattering models in GATE/Geant4 for proton therapy. Medical Physics, 2019, 46, 2444-2456.	1.6	39

HERMANN FUCHS

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19	Characteristic of EBT-XD and EBT3 radiochromic film dosimetry for photon and proton beams. Physics in Medicine and Biology, 2018, 63, 065007.	1.6	62
20	A pencil beam algorithm for magnetic resonance imageâ€guided proton therapy. Medical Physics, 2018, 45, 2195-2204.	1.6	25
21	Implementation of dosimetry equipment and phantoms at the MedAustron light ion beam therapy facility. Medical Physics, 2018, 45, 352-369.	1.6	31
22	Magnetic field effects on particle beams and their implications for dose calculation in <scp>MR</scp> â€guided particle therapy. Medical Physics, 2017, 44, 1149-1156.	1.6	47
23	Evaluation of GATE/Geant4 multiple Coulomb scattering algorithms for a 160 MeV proton beam. Nuclear Instruments & Methods in Physics Research B, 2017, 410, 122-126.	0.6	17
24	Benchmarking GATE/Geant4 for ¹⁶ O ion beam therapy. Physics in Medicine and Biology, 2017, 62, N474-N484.	1.6	4
25	EP-1504: Monte Carlo modeling of non-isocentric proton pencil beam scanning treatments. Radiotherapy and Oncology, 2017, 123, S806-S807.	0.3	0
26	Can particle beam therapy be improved using helium ions? – a planning study focusing on pediatric patients. Acta Oncológica, 2016, 55, 751-759.	0.8	47
27	Investigation of prompt γ ray emission for online monitoring in ion therapy. Journal of Physics: Conference Series, 2015, 599, 012042.	0.3	Ο
28	Implementation of spot scanning dose optimization and dose calculation for helium ions in Hyperion. Medical Physics, 2015, 42, 5157-5166.	1.6	19
29	A pencil beam algorithm for helium ion beam therapy. Medical Physics, 2012, 39, 6726-6737.	1.6	25
30	Comparison of basic features of proton and helium ion pencil beams in water using GATE. Zeitschrift Fur Medizinische Physik, 2012, 22, 170-178.	0.6	22
31	New data on direct ion storage dosemeters. Radiation Protection Dosimetry, 2007, 128, 120-123.	0.4	3