## Hermann Fuchs

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Characteristic of EBT-XD and EBT3 radiochromic film dosimetry for photon and proton beams. Physics in Medicine and Biology, 2018, 63, 065007.	3.0	62
2	Can particle beam therapy be improved using helium ions? – a planning study focusing on pediatric patients. Acta Oncológica, 2016, 55, 751-759.	1.8	47
3	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.	3.0	47
4	Evaluation of electromagnetic and nuclear scattering models in GATE/Geant4 for proton therapy. Medical Physics, 2019, 46, 2444-2456.	3.0	39
5	Implementation of dosimetry equipment and phantoms at the MedAustron light ion beam therapy facility. Medical Physics, 2018, 45, 352-369.	3.0	31
6	A pencil beam algorithm for helium ion beam therapy. Medical Physics, 2012, 39, 6726-6737.	3.0	25
7	A pencil beam algorithm for magnetic resonance imageâ€guided proton therapy. Medical Physics, 2018, 45, 2195-2204.	3.0	25
8	Technical Note: GATEâ€RTion: a GATE/Geant4 release for clinical applications in scanned ion beam therapy. Medical Physics, 2020, 47, 3675-3681.	3.0	25
9	A GATE/Geant4 beam model for the MedAustron non-isocentric proton treatment plans quality assurance. Physica Medica, 2020, 71, 115-123.	0.7	25
10	Roadmap: helium ion therapy. Physics in Medicine and Biology, 2022, 67, 15TR02.	3.0	24
11	Comparison of basic features of proton and helium ion pencil beams in water using GATE. Zeitschrift Fur Medizinische Physik, 2012, 22, 170-178.	1.5	22
12	Clinical implementation and commissioning of the MedAustron Particle Therapy Accelerator for nonâ€isocentric scanned proton beam treatments. Medical Physics, 2020, 47, 380-392.	3.0	20
13	Implementation of spot scanning dose optimization and dose calculation for helium ions in Hyperion. Medical Physics, 2015, 42, 5157-5166.	3.0	19
14	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.	1.4	17
15	Experimental benchmarking of RayStation proton dose calculation algorithms inside and outside the target region in heterogeneous phantom geometries. Physica Medica, 2020, 76, 182-193.	0.7	15
16	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.	0.7	13
17	Benchmarking a GATE/Geant4 Monte Carlo model for proton beams in magnetic fields. Medical Physics, 2020, 47, 223-233.	3.0	12
18	Dose―rather than fluenceâ€averaged LET should be used as a singleâ€parameter descriptor of proton beam quality for radiochromic film dosimetry. Medical Physics, 2020, 47, 2289-2299.	3.0	12

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19	MRâ€guided proton therapy: Impact of magnetic fields on the detector response. Medical Physics, 2021, 48, 2572-2579.	3.0	12
20	Computerâ€assisted beam modeling for particle therapy. Medical Physics, 2021, 48, 841-851.	3.0	12
21	Towards offline PET monitoring of proton therapy at MedAustron. Zeitschrift Fur Medizinische Physik, 2019, 29, 59-65.	1.5	11
22	Characterization of EBT3 radiochromic films for dosimetry of proton beams in the presence of magnetic fields. Medical Physics, 2019, 46, 3278-3284.	3.0	10
23	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.	3.0	5
24	Benchmarking GATE/Geant4 for <sup>16</sup> O ion beam therapy. Physics in Medicine and Biology, 2017, 62, N474-N484.	3.0	4
25	New data on direct ion storage dosemeters. Radiation Protection Dosimetry, 2007, 128, 120-123.	0.8	3
26	Technical Note: Design and commissioning of a water phantom for proton dosimetry in magnetic fields. Medical Physics, 2021, 48, 505-512.	3.0	3
27	The practical radius of a pencil beam in proton therapy. Zeitschrift Fur Medizinische Physik, 2021, 31, 166-174.	1.5	1
28	Investigation of prompt Î <sup>3</sup> ray emission for online monitoring in ion therapy. Journal of Physics: Conference Series, 2015, 599, 012042.	0.4	0
29	EP-1504: Monte Carlo modeling of non-isocentric proton pencil beam scanning treatments. Radiotherapy and Oncology, 2017, 123, S806-S807.	0.6	0
30	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, , .	1.5	0
31	Efficient full Monte Carlo modelling and multi-energy generative model development of an advanced X-ray device. Zeitschrift Fur Medizinische Physik, 2022, , .	1.5	0