

Rowan M Thomson

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

841
citations

759233

12
h-index

580821

25
g-index

27
all docs

27
docs citations

27
times ranked

696
citing authors

#	ARTICLE	IF	CITATIONS
1	Technical note: MC ² GPU breast dosimetry validations with other Monte Carlo codes and phase space file implementation. <i>Medical Physics</i> , 2022, 49, 244-253.	3.0	7
2	Update of the CLRP eye plaque brachytherapy database for photon-emitting sources. <i>Medical Physics</i> , 2021, 48, 3373-3283.	3.0	2
3	A study of Type B uncertainties associated with the photoelectric effect in low-energy Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2021, 66, 105014.	3.0	9
4	Dosimetric investigation of ¹⁰³ Pd permanent breast seed implant brachytherapy based on Monte Carlo calculations. <i>Brachytherapy</i> , 2021, 20, 686-694.	0.5	0
5	High spatial resolution dosimetry with uncertainty analysis using Raman micro-spectroscopy readout of radiochromic films. <i>Medical Physics</i> , 2021, 48, 4610-4620.	3.0	2
6	AAPM recommendations on medical physics practices for ocular plaque brachytherapy: Report of task group 221. <i>Medical Physics</i> , 2020, 47, e92-e124.	3.0	32
7	Update of the CLRP TG ⁴³ parameter database for low-energy brachytherapy sources. <i>Medical Physics</i> , 2020, 47, 4656-4669.	3.0	21
8	Technical Note: Taking EGSnrc to new lows: Development of egs++ lattice geometry and testing with microscopic geometries. <i>Medical Physics</i> , 2020, 47, 3225-3232.	3.0	11
9	Dosimetric and radiobiological investigation of permanent implant prostate brachytherapy based on Monte Carlo calculations. <i>Brachytherapy</i> , 2019, 18, 875-882.	0.5	1
10	The association of intraprostatic calcifications and dosimetry parameters with biochemical control after permanent prostate implant. <i>Brachytherapy</i> , 2019, 18, 787-792.	0.5	5
11	Investigating energy deposition in glandular tissues for mammography using multiscale Monte Carlo simulations. <i>Medical Physics</i> , 2019, 46, 1426-1436.	3.0	7
12	Reply to Comment on "egs_brachy: a versatile and fast Monte Carlo code for brachytherapy". <i>Physics in Medicine and Biology</i> , 2018, 63, 038002.	3.0	7
13	Microdosimetric considerations for radiation response studies using Raman spectroscopy. <i>Medical Physics</i> , 2018, 45, 4734-4743.	3.0	6
14	Investigating energy deposition within cell populations using Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2018, 63, 155018.	3.0	14
15	Quantum versus classical Monte Carlo simulation of low-energy electron transport in condensed amorphous media. <i>Physica Medica</i> , 2018, 54, 179-188.	0.7	2
16	A Monte Carlo study of macroscopic and microscopic dose descriptors for kilovoltage cellular dosimetry. <i>Physics in Medicine and Biology</i> , 2017, 62, 1417-1436.	3.0	14
17	Coupling ¹²⁵ I permanent implant prostate brachytherapy Monte Carlo dose calculations with radiobiological models. <i>Medical Physics</i> , 2017, 44, 4329-4340.	3.0	6
18	Cavity theory applications for kilovoltage cellular dosimetry. <i>Physics in Medicine and Biology</i> , 2017, 62, 4440-4459.	3.0	3

#	ARTICLE	IF	CITATIONS
19	Heterogeneous multiscale Monte Carlo simulations for gold nanoparticle radiosensitization. Medical Physics, 2017, 44, 644-653.	3.0	37
20	A generic TG-186 shielded applicator for commissioning model-based dose calculation algorithms for high-dose-rate ¹⁹² Ir brachytherapy. Medical Physics, 2017, 44, 5961-5976.	3.0	34
21	Large-scale Retrospective Monte Carlo Dosimetric Study for Permanent Implant Prostate Brachytherapy. International Journal of Radiation Oncology Biology Physics, 2017, 97, 606-615.	0.8	18
22	egs_brachy: a versatile and fast Monte Carlo code for brachytherapy. Physics in Medicine and Biology, 2016, 61, 8214-8231.	3.0	62
23	A generic high-dose rate ¹⁹² Ir brachytherapy source for evaluation of model-based dose calculations beyond the TG-43 formalism. Medical Physics, 2015, 42, 3048-3062.	3.0	64
24	Report of the Task Group 186 on model-based dose calculation methods in brachytherapy beyond the TG-43 formalism: Current status and recommendations for clinical implementation. Medical Physics, 2012, 39, 6208-6236.	3.0	391
25	Comparison of dose calculation methods for brachytherapy of intraocular tumors. Medical Physics, 2011, 38, 306-316.	3.0	62
26	Modified COMS Plaques for ¹²⁵ I and ¹⁰³ Pd Iris Melanoma Brachytherapy. International Journal of Radiation Oncology Biology Physics, 2010, 78, 1261-1269.	0.8	24
27	Fast beta-emitter Monte Carlo simulations and full patient dose calculations of targeted radionuclide therapy: introducing egs_mird. Medical Physics, 0, , .	3.0	0