

Rowan M Thomson

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

841
citations

759233

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h-index

580821

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all docs

27
docs citations

27
times ranked

696
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Medical Physics</i> , 2012, 39, 6208-6236.	3.0	391
2	A generic high-dose rate ^{192}Ir brachytherapy source for evaluation of model-based dose calculations beyond the TG-43 formalism. <i>Medical Physics</i> , 2015, 42, 3048-3062.	3.0	64
3	Comparison of dose calculation methods for brachytherapy of intraocular tumors. <i>Medical Physics</i> , 2011, 38, 306-316.	3.0	62
4	egs_brachy: a versatile and fast Monte Carlo code for brachytherapy. <i>Physics in Medicine and Biology</i> , 2016, 61, 8214-8231.	3.0	62
5	Heterogeneous multiscale Monte Carlo simulations for gold nanoparticle radiosensitization. <i>Medical Physics</i> , 2017, 44, 644-653.	3.0	37
6	A generic TG-186 shielded applicator for commissioning model-based dose calculation algorithms for high-dose-rate ^{192}Ir brachytherapy. <i>Medical Physics</i> , 2017, 44, 5961-5976.	3.0	34
7	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
8	Modified COMS Plaques for ^{125}I and ^{103}Pd Iris Melanoma Brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, 1261-1269.	0.8	24
9	Update of the CLRP TG-43 parameter database for low-energy brachytherapy sources. <i>Medical Physics</i> , 2020, 47, 4656-4669.	3.0	21
10	Large-scale Retrospective Monte Carlo Dosimetric Study for Permanent Implant Prostate Brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 97, 606-615.	0.8	18
11	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
12	Investigating energy deposition within cell populations using Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2018, 63, 155018.	3.0	14
13	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
14	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
15	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
16	Investigating energy deposition in glandular tissues for mammography using multiscale Monte Carlo simulations. <i>Medical Physics</i> , 2019, 46, 1426-1436.	3.0	7
17	Technical note: MC-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
18	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

#	ARTICLE	IF	CITATIONS
19	Microdosimetric considerations for radiation response studies using Raman spectroscopy. Medical Physics, 2018, 45, 4734-4743.	3.0	6
20	The association of intraprostatic calcifications and dosimetry parameters with biochemical control after permanent prostate implant. Brachytherapy, 2019, 18, 787-792.	0.5	5
21	Cavity theory applications for kilovoltage cellular dosimetry. Physics in Medicine and Biology, 2017, 62, 4440-4459.	3.0	3
22	Quantum versus classical Monte Carlo simulation of low-energy electron transport in condensed amorphous media. Physica Medica, 2018, 54, 179-188.	0.7	2
23	Update of the CLRP eye plaque brachytherapy database for photon-emitting sources. Medical Physics, 2021, 48, 3373-3283.	3.0	2
24	High spatial resolution dosimetry with uncertainty analysis using Raman microspectroscopy readout of radiochromic films. Medical Physics, 2021, 48, 4610-4620.	3.0	2
25	Dosimetric and radiobiological investigation of permanent implant prostate brachytherapy based on Monte Carlo calculations. Brachytherapy, 2019, 18, 875-882.	0.5	1
26	Dosimetric investigation of ¹⁰³ Pd permanent breast seed implant brachytherapy based on Monte Carlo calculations. Brachytherapy, 2021, 20, 686-694.	0.5	0
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