

Anatoly B Rosenfeld

List of Publications by Year in descending order

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474
papers

7,568
citations

66343

42
h-index

128289

60
g-index

481
all docs

481
docs citations

481
times ranked

4528
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of an SOI Microdosimeter for Monitoring of Neutrons in Various Mixed Radiation Field Environments. IEEE Transactions on Nuclear Science, 2022, 69, 491-500.	2.0	2
2	Evaluation of silicon strip detectors in transmission mode for online beam monitoring in microbeam radiation therapy at the Australian Synchrotron. Journal of Synchrotron Radiation, 2022, 29, 125-137.	2.4	1
3	Small spot size versus large spot size: Effect on plan quality for lung cancer in pencil beam scanning proton therapy. Journal of Applied Clinical Medical Physics, 2022, 23, .	1.9	1
4	A Large Area Pixelated Silicon Array Detector for Independent Transit In Vivo Dosimetry. Applied Sciences (Switzerland), 2022, 12, 537.	2.5	2
5	A portable magnet for radiation biology and dosimetry studies in magnetic fields. Medical Physics, 2022, 49, 1924-1931.	3.0	0
6	Beta dose heterogeneity in sediment samples measured using a Timepix pixelated detector and its implications for optical dating of individual mineral grains. Quaternary Geochronology, 2022, 68, 101254.	1.4	12
7	Characterization of MOSFET Dosimeters for Alpha Particle Therapy. IEEE Transactions on Nuclear Science, 2022, 69, 925-931.	2.0	0
8	Quantitative analysis of dose-averaged linear energy transfer (LET _d) robustness in pencil beam scanning proton lung plans. Medical Physics, 2022, , .	3.0	2
9	Fast and accurate dose predictions for novel radiotherapy treatments in heterogeneous phantoms using conditional 3D-UNet generative adversarial networks. Medical Physics, 2022, 49, 3389-3404.	3.0	9
10	Characterizing magnetically focused contamination electrons by off-axis irradiation on an inline MRI-Linac. Journal of Applied Clinical Medical Physics, 2022, , e13591.	1.9	5
11	Detection and discrimination of neutron capture events for NCEPT dose quantification. Scientific Reports, 2022, 12, 5863.	3.3	4
12	HDR prostate brachytherapy plan robustness and its effect on in vivo source tracking error thresholds: A multi-institutional study. Medical Physics, 2022, 49, 3529-3537.	3.0	10
13	Silicon 3D Microdosimeters for Advanced Quality Assurance in Particle Therapy. Applied Sciences (Switzerland), 2022, 12, 328.	2.5	9
14	Energy-Loss Straggling and Delta-Ray Escape in Solid-State Microdosimeters Used in Ion-Beam Therapy. Journal of Nuclear Engineering, 2022, 3, 128-151.	1.6	1
15	Predicting the Biological Effects of Human Salivary Gland Tumour Cells for Scanned ⁴ He-, ¹² C-, ¹⁶ O-, and ²⁰ Ne-Ion Beams Using an SOI Microdosimeter. Applied Sciences (Switzerland), 2022, 12, 6148.	2.5	1
16	⁴ He dose- and track-averaged linear energy transfer: Monte Carlo algorithms and experimental verification. Physics in Medicine and Biology, 2022, 67, 165003.	3.0	2
17	Report on G4Med, a Geant4 benchmarking system for medical physics applications developed by the Geant4 Medical Simulation Benchmarking Group. Medical Physics, 2021, 48, 19-56.	3.0	92
18	Attenuation of UV absorption by poly(lactic acid)-iron oxide nanocomposite particles and their potential application in sunscreens. Chemical Engineering Journal, 2021, 405, 126843.	12.7	20

#	ARTICLE	IF	CITATIONS
19	Radiation Shielding Evaluation of Spacecraft Walls Against Heavy Ions Using Microdosimetry. IEEE Transactions on Nuclear Science, 2021, 68, 897-905.	2.0	11
20	Consistency of smallâ€field dosimetry, on and off axis, in beamâ€matched linacs used for stereotactic radiosurgery. Journal of Applied Clinical Medical Physics, 2021, 22, 185-193.	1.9	5
21	Investigating volumetric repainting to mitigate interplay effect on 4D robustly optimized lung cancer plans in pencil beam scanning proton therapy. Journal of Applied Clinical Medical Physics, 2021, 22, 107-118.	1.9	8
22	Estimating the biological effects of helium, carbon, oxygen, and neon ion beams using 3D silicon microdosimeters. Physics in Medicine and Biology, 2021, 66, 045017.	3.0	10
23	In-line MRI-LINAC depth dose measurements using an in-house plastic scintillation dosimeter. Biomedical Physics and Engineering Express, 2021, 7, 025012.	1.2	1
24	The dose magnifying glass quality assurance system for daily proton therapy range verification. Physics in Medicine and Biology, 2021, 66, 094001.	3.0	1
25	First extensive study of silver-doped lanthanum manganite nanoparticles for inducing selective chemotherapy and radio-toxicity enhancement. Materials Science and Engineering C, 2021, 123, 111970.	7.3	7
26	Impact of proton dose calculation algorithms on the interplay effect in PBS proton based SBRT lung plans. Biomedical Physics and Engineering Express, 2021, 7, 045006.	1.2	1
27	Polymer Photodetectors for Printable, Flexible, and Fully Tissue Equivalent Xâ€Ray Detection with Zeroâ€Bias Operation and Ultrafast Temporal Responses. Advanced Materials Technologies, 2021, 6, 2001298.	5.8	15
28	Inâ€field and outâ€ofâ€field microdosimetric characterisation of a 62 MeV proton beam at CATANA. Medical Physics, 2021, 48, 4532-4541.	3.0	4
29	Characterization of a novel large area microdosimeter system for low dose rate radiation environments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1002, 165238.	1.6	3
30	X-TREAM protocol for <i>in vitro</i> microbeam radiation therapy at the Australian Synchrotron. Journal of Applied Physics, 2021, 129, .	2.5	5
31	Impact of errors in spot size and spot position in robustly optimized pencil beam scanning protonâ€based stereotactic body radiation therapy (SBRT) lung plans. Journal of Applied Clinical Medical Physics, 2021, 22, 147-154.	1.9	1
32	Towards high spatial resolution tissue-equivalent dosimetry for microbeam radiation therapy using organic semiconductors. Journal of Synchrotron Radiation, 2021, 28, 1444-1454.	2.4	7
33	The use of collimator angle optimization and jaw tracking for VMATâ€based singleâ€isocenter multipleâ€target stereotactic radiosurgery for up to six targets in the Varian Eclipse treatment planning system. Journal of Applied Clinical Medical Physics, 2021, 22, 171-182.	1.9	4
34	A benchmarking study of Geant4 for Auger electrons emitted by medical radioisotopes. Applied Radiation and Isotopes, 2021, 174, 109777.	1.5	2
35	On the evaluation of edgeless diode detectors for patient-specific QA in high-dose stereotactic radiosurgery. Physica Medica, 2021, 89, 20-28.	0.7	5
36	Reducing axial truncation artifacts in iterative coneâ€beam CT for radiation therapy using a priori preconditioned information. Medical Physics, 2021, 48, 7089-7098.	3.0	5

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37	Incorporating Clinical Imaging into the Delivery of Microbeam Radiation Therapy. Applied Sciences (Switzerland), 2021, 11, 9101.	2.5	4
38	Modelling of reusable target materials for the production of fission produced ⁹⁹ Mo using MCNP6.2 and CINDER90. Applied Radiation and Isotopes, 2021, 176, 109827.	1.5	3
39	Characterisation of a well-type NaI(Tl) detector by means of a Monte Carlo simulation for radionuclide metrology application. Applied Radiation and Isotopes, 2021, 176, 109889.	1.5	3
40	Oxi-Redox Selective Breast Cancer Treatment: An In Vitro Study of Theranostic In-Based Oxide Nanoparticles for Controlled Generation or Prevention of Oxidative Stress. ACS Applied Materials & Interfaces, 2021, 13, 2204-2217.	8.0	6
41	Response of SOI microdosimeter in fast neutron beams: experiment and Monte Carlo simulations. Physica Medica, 2021, 90, 176-187.	0.7	3
42	Flexible Polymer X-ray Detectors with Non-fullerene Acceptors for Enhanced Stability: Toward Printable Tissue Equivalent Devices for Medical Applications. ACS Applied Materials & Interfaces, 2021, 13, 57703-57712.	8.0	12
43	Deconvolution analysis improves real-time OSL of BeO ceramic. Radiation Measurements, 2021, 149, 106680.	1.4	1
44	2D photon dosimetry with a scintillation fibre optic dosimeter. Radiation Physics and Chemistry, 2020, 166, 108490.	2.8	3
45	First application of a high-resolution silicon detector for proton beam Bragg peak detection in a 0.95 T magnetic field. Medical Physics, 2020, 47, 181-189.	3.0	4
46	First experimental measurement of the effect of cardio-synchronous brain motion on the dose distribution during microbeam radiation therapy. Medical Physics, 2020, 47, 213-222.	3.0	14
47	High resolution silicon array detector implementation in an inline MRI-linac. Medical Physics, 2020, 47, 1920-1929.	3.0	2
48	Validation of Geant4 for silicon microdosimetry in heavy ion therapy. Physics in Medicine and Biology, 2020, 65, 045014.	3.0	11
49	Medipix detectors in radiation therapy for advanced quality-assurance. Radiation Measurements, 2020, 130, 106211.	1.4	12
50	Evaluation of rectal dose discrepancies between planned and in vivo dosimetry using MOSkin detector and PTW 9112 semiconductor probe during ⁶⁰ Co HDR CT-based intracavitary cervix brachytherapy. Physica Medica, 2020, 69, 52-60.	0.7	12
51	Study on the RBE estimation for carbon beam scanning irradiation using a solid-state microdosimeter. Medical Physics, 2020, 47, 363-370.	3.0	1
52	Validation of linear energy transfer computed in a Monte Carlo dose engine of a commercial treatment planning system. Physics in Medicine and Biology, 2020, 65, 025006.	3.0	40
53	SOI Thin Microdosimeters for High LET Single-Event Upset Studies in Fe, O, Xe, and Cocktail Ion Beam Fields. IEEE Transactions on Nuclear Science, 2020, 67, 146-153.	2.0	11
54	Characterization of 3-D-Mesa Silicon Single Strip Detectors for Use in Synchrotron Microbeam Radiation Therapy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 470-478.	3.7	3

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55	Impact of magnetic field regulation in conjunction with the volumetric repainting technique on the spot positions and beam range in pencil beam scanning proton therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 124-131.	1.9	5
56	A machine learning-based framework for delivery error prediction in proton pencil beam scanning using irradiation log-files. <i>Physica Medica</i> , 2020, 78, 179-186.	0.7	7
57	Parametrization of in-air spot size as a function of energy and air gap for the ProteusPLUS pencil beam scanning proton therapy system. <i>Radiological Physics and Technology</i> , 2020, 13, 392-397.	1.9	5
58	Evaluation of the PTW microDiamond in edge-on orientation for dosimetry in small fields. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 278-288.	1.9	19
59	Validation and practical implementation of seated position radiotherapy in a commercial TPS for proton therapy. <i>Physica Medica</i> , 2020, 80, 175-185.	0.7	8
60	eXaSkin: A novel high-density bolus for 6MV X-rays radiotherapy. <i>Physica Medica</i> , 2020, 80, 42-46.	0.7	3
61	Imaging and radiation isocentre determination for inline MR-guided radiotherapy systems – proof of principle using MR-phantom with embedded monolithic silicon detector. <i>Journal of Physics: Conference Series</i> , 2020, 1662, 012008.	0.4	0
62	Decoupling of bowtie and object effects for beam hardening and scatter artefact reduction in iterative cone-beam CT. <i>Physical and Engineering Sciences in Medicine</i> , 2020, 43, 1161-1170.	2.4	5
63	Towards real time in-vivo rectal dosimetry during trans-rectal ultrasound based high dose rate prostate brachytherapy using MOSkin dosimeters. <i>Radiotherapy and Oncology</i> , 2020, 151, 273-279.	0.6	4
64	Fabrication and First Characterization of Silicon-Based Full 3-D Microdosimeters. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 2490-2500.	2.0	5
65	Temporal modelling of beryllium oxide ceramics™ real-time OSL for dosimetry with a superficial 140ÅkVp X-ray beam. <i>Physica Medica</i> , 2020, 80, 17-22.	0.7	1
66	Modelling ICRP110 Adult Reference Voxel Phantoms for dosimetric applications: Development of a new Geant4 Advanced Example. <i>Journal of Physics: Conference Series</i> , 2020, 1662, 012021.	0.4	6
67	Real-time in-vivo dosimetry for DaRT. <i>Journal of Physics: Conference Series</i> , 2020, 1662, 012031.	0.4	0
68	Microdosimetry at the 62 MeV Proton Beam of CATANA: preliminary comparison of three detectors. <i>Journal of Physics: Conference Series</i> , 2020, 1662, 012006.	0.4	1
69	The use of a new 2D array of diodes for small-field dosimetry of a CyberKnife equipped with a novel multi-leaf collimator. <i>Journal of Physics: Conference Series</i> , 2020, 1662, 012007.	0.4	0
70	Microdosimetric study for helium-ion beam using fully 3D silicon microdosimeters. <i>Journal of Physics: Conference Series</i> , 2020, 1662, 012022.	0.4	0
71	Assessing small-field output factors using a 2D monolithic diode array on a beam-matched Elekta linear accelerator. <i>Journal of Physics: Conference Series</i> , 2020, 1662, 012024.	0.4	0
72	Characterization of an organic semiconductor diode for dosimetry in radiotherapy. <i>Medical Physics</i> , 2020, 47, 3658-3668.	3.0	15

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73	Toward personalized synchrotron microbeam radiation therapy. <i>Scientific Reports</i> , 2020, 10, 8833.	3.3	31
74	Characterization of a plastic dosimeter based on organic semiconductor photodiodes and scintillator. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 14, 48-52.	2.9	13
75	Microdosimetry with a 3D silicon on insulator (SOI) detector in a low energy proton beamline. <i>Radiation Physics and Chemistry</i> , 2020, 176, 109078.	2.8	8
76	Semiconductor dosimetry in modern external-beam radiation therapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 16TR01.	3.0	23
77	MRI-LINAC beam profile measurements using a plastic scintillation dosimeter.. <i>Physica Medica</i> , 2020, 73, 111-116.	0.7	4
78	On the Combined Effect of Silicon Oxide Thickness and Boron Implantation Under the Gate in MOSFET Dosimeters. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 534-540.	2.0	9
79	The impact of sensitive volume thickness for silicon on insulator microdosimeters in hadron therapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 035004.	3.0	11
80	A Solid-State Microdosimeter for Dose and Radiation Quality Monitoring for Astronauts in Space. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 169-174.	2.0	9
81	Experimental investigation of the characteristics of radioactive beams for heavy ion therapy. <i>Medical Physics</i> , 2020, 47, 3123-3132.	3.0	6
82	Quality assurance of VMAT on flattened and flattening filter-free accelerators using a high spatial resolution detector. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 44-52.	1.9	2
83	Dose quantification in carbon ion therapy using in-beam positron emission tomography. <i>Physics in Medicine and Biology</i> , 2020, 65, 235052.	3.0	7
84	A validated Geant4 model of a whole-body PET scanner with four-layer DOI detectors. <i>Physics in Medicine and Biology</i> , 2020, 65, 235051.	3.0	12
85	Monte Carlo implementation of new algorithms for the evaluation of averaged-dose and -track linear energy transfers in 62 MeV clinical proton beams. <i>Physics in Medicine and Biology</i> , 2020, 65, 235043.	3.0	16
86	Advances in modelling gold nanoparticle radiosensitization using new Geant4-DNA physics models. <i>Physics in Medicine and Biology</i> , 2020, 65, 225017.	3.0	18
87	Development of a new microdosimetric biological weighting function for the RBE_{10} assessment in case of the V79 cell line exposed to ions from 1H to 238U . <i>Physics in Medicine and Biology</i> , 2020, 65, 235010.	3.0	26
88	Microdosimetry of a therapeutic proton beam with a mini-TEPC and a MicroPlus-Bridge detector for RBE assessment. <i>Physics in Medicine and Biology</i> , 2020, 65, 245018.	3.0	28
89	BrachyView: development of an algorithm for real-time automatic LDR brachytherapy seed detection. <i>Physics in Medicine and Biology</i> , 2020, 65, 215015.	3.0	0
90	Today's monolithic silicon array detector for small field dosimetry: the Octa. <i>Journal of Physics: Conference Series</i> , 2019, 1154, 012002.	0.4	1

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91	Evolution of Diamond based Microdosimetry. Journal of Physics: Conference Series, 2019, 1154, 012007.	0.4	6
92	Simulation of cosmic radiation spectra for personal microdosimetry at the International Space Station's altitude. Journal of Physics: Conference Series, 2019, 1154, 012020.	0.4	1
93	Characterisations of a fibre optic dosimetry system for source tracking during HDR Brachytherapy. Journal of Physics: Conference Series, 2019, 1154, 012027.	0.4	1
94	BrachyView: verification of LDR patient plans " hardware optimisation. Journal of Physics: Conference Series, 2019, 1154, 012005.	0.4	2
95	Characterization of an "Edgeless" Dosimeter for Angular Independent Measurements in Advanced Radiotherapy Treatments. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 579-587.	3.7	3
96	Fibre optic dosimetry in synchrotron microbeam radiation therapy. Journal of Physics: Conference Series, 2019, 1154, 012001.	0.4	1
97	Modelling the Biological Beamline at HIMAC using Geant4. Journal of Physics: Conference Series, 2019, 1154, 012003.	0.4	11
98	First measurements with a plastic scintillation dosimeter at the Australian MRI-LINAC. Physics in Medicine and Biology, 2019, 64, 175015.	3.0	13
99	Modelling of the Silicon-On-Insulator microdosimeter response within the International Space Station for astronauts' radiation protection. Radiation Measurements, 2019, 128, 106182.	1.4	5
100	Experimental characterization of magnetically focused electron contamination at the surface of a high-field inline MRI linac. Medical Physics, 2019, 46, 5780-5789.	3.0	16
101	Polo-like kinase 1 inhibitor BI6727 sensitizes 9L gliosarcoma cells to ionizing irradiation. Biomedical Physics and Engineering Express, 2019, 5, 067003.	1.2	1
102	In vivo dosimetry using MOSkin detector during Cobalt-60 high-dose-rate (HDR) brachytherapy of skin cancer. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 1099-1107.	1.3	6
103	BrachyView: Reconstruction of seed positions and volume of an LDR prostate brachytherapy patient plan using a baseline subtraction algorithm. Physica Medica, 2019, 66, 66-76.	0.7	2
104	Two-dimensional solid-state array detectors: A technique for in vivo dose verification in a variable effective area. Journal of Applied Clinical Medical Physics, 2019, 20, 88-94.	1.9	2
105	Evaluation of organ doses following high dose rate (HDR) brachytherapy of breast cancer: a Geant4 Monte Carlo simulation study. Journal of Physics: Conference Series, 2019, 1248, 012048.	0.4	0
106	Evaluation of organ doses following prostate treatment with permanent brachytherapy seeds: a Geant4 Monte Carlo simulation study. Journal of Physics: Conference Series, 2019, 1248, 012049.	0.4	1
107	Evaluation of silicon based microdosimetry for Boron Neutron Capture Therapy Quality Assurance. Physica Medica, 2019, 66, 8-14.	0.7	6
108	IBIC microscopy " The powerful tool for testing micron Sized sensitive volumes in segmented radiation detectors used in synchrotron microbeam radiation and hadron therapies. Nuclear Instruments & Methods in Physics Research B, 2019, 458, 90-96.	1.4	5

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109	Tissue equivalence of diamond for heavy charged particles. Radiation Measurements, 2019, 122, 1-9.	1.4	8
110	Feasibility of a dual detector system to perform transit dosimetry and MV imaging in-vivo. Journal of Instrumentation, 2019, 14, P01019-P01019.	1.2	4
111	INVESTIGATING VARIABLE RBE IN A 12C MINIBEAM FIELD WITH MICRODOSIMETRY AND GEANT4. Radiation Protection Dosimetry, 2019, 183, 160-166.	0.8	3
112	Characterization of MOSkin detector for in vivo dose verification during Cobalt-60 high dose-rate intracavitary brachytherapy. Physica Medica, 2019, 58, 1-7.	0.7	8
113	High spatial resolution scintillator dosimetry of synchrotron microbeams. Scientific Reports, 2019, 9, 6873.	3.3	24
114	Opportunities in space life sciences. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 663-664.	1.3	1
115	The microdosimetric extension in TOPAS: development and comparison with published data. Physics in Medicine and Biology, 2019, 64, 145004.	3.0	26
116	A feasibility study for high-resolution silicon array detector performance in the magnetic field of a permanent magnet system. Medical Physics, 2019, 46, 4224-4232.	3.0	1
117	Comparative study of alternative Geant4 hadronic ion inelastic physics models for prediction of positron-emitting radionuclide production in carbon and oxygen ion therapy. Physics in Medicine and Biology, 2019, 64, 155014.	3.0	10
118	Electron track structure simulations in a gold nanoparticle using Geant4-DNA. Physica Medica, 2019, 63, 98-104.	0.7	35
119	Derivation of in-vivo source tracking error thresholds for TRUS-based HDR prostate brachytherapy through simulation of source positioning errors. Brachytherapy, 2019, 18, 711-719.	0.5	17
120	The effect of an air gap on a 2D monolithic silicon detector for relative dosimetry. Journal of Instrumentation, 2019, 14, P06018-P06018.	1.2	6
121	Characterization of prompt gamma ray emission for in vivo range verification in particle therapy: A simulation study. Physica Medica, 2019, 62, 20-32.	0.7	6
122	Evaluation of the MOSkin dosimeter for diagnostic X-ray CT beams. Physica Medica, 2019, 60, 150-155.	0.7	4
123	Monte Carlo investigation of the characteristics of radioactive beams for heavy ion therapy. Scientific Reports, 2019, 9, 6537.	3.3	8
124	An innovative gynecological HDR brachytherapy applicator system for treatment delivery and real-time verification. Physica Medica, 2019, 59, 151-157.	0.7	6
125	Parametric characterization of penumbra reduction for aperture-collimated pencil beam scanning (PBS) proton therapy. Biomedical Physics and Engineering Express, 2019, 5, 035002.	1.2	17
126	A Monte Carlo study on the feasibility of real-time in vivo source tracking during ultrasound based HDR prostate brachytherapy treatments. Physica Medica, 2019, 59, 30-36.	0.7	9

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127	Preliminary epi-diode characterization for HDR brachytherapy quality assurance. Journal of Physics: Conference Series, 2019, 1154, 012026.	0.4	0
128	Characterization of a high spatiotemporal resolution monolithic silicon strip detector for MRI-linac dosimetry. Journal of Physics: Conference Series, 2019, 1154, 012006.	0.4	0
129	Quality assurance of Cyberknife robotic stereotactic radiosurgery using an angularly independent silicon detector. Journal of Applied Clinical Medical Physics, 2019, 20, 76-88.	1.9	8
130	2D monolithic silicon-diode array detectors in megavoltage photon beams: does the fabrication technology matter? A medical physicist's perspective. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 443-451.	1.3	6
131	BrachyView: initial preclinical results for a real-time in-body HDR PBT source tracking system with simultaneous TRUS image fusion. Physics in Medicine and Biology, 2019, 64, 085002.	3.0	0
132	Validation of a Monte Carlo simulation for Microbeam Radiation Therapy on the Imaging and Medical Beamline at the Australian Synchrotron. Scientific Reports, 2019, 9, 17696.	3.3	17
133	A novel quality assurance system for eye plaque brachytherapy. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 1109-1115.	1.3	1
134	A novel methodology to assess linear energy transfer and relative biological effectiveness in proton therapy using pairs of differently doped thermoluminescent detectors. Physics in Medicine and Biology, 2019, 64, 085005.	3.0	21
135	An algorithmic approach to single-probe Cherenkov removal in pulsed x-ray beams. Medical Physics, 2019, 46, 1833-1839.	3.0	8
136	On the Instantaneous Dose Rate and Angular Dependence of Monolithic Silicon Array Detectors. IEEE Transactions on Nuclear Science, 2019, 66, 519-527.	2.0	6
137	SOI Thin Microdosimeter Detectors for Low-Energy Ions and Radiation Damage Studies. IEEE Transactions on Nuclear Science, 2019, 66, 320-326.	2.0	13
138	Synthesis of methotrexate-loaded tantalum pentoxide-poly(acrylic acid) nanoparticles for controlled drug release applications. Journal of Colloid and Interface Science, 2019, 538, 286-296.	9.4	34
139	Characterization of the mixed radiation field produced by carbon and oxygen ion beams of therapeutic energy: A Monte Carlo simulation study. Journal of Medical Physics, 2019, 44, 263.	0.3	9
140	Thin Silicon Microdosimeter Utilizing 3-D MEMS Fabrication Technology: Charge Collection Study and Its Application in Mixed Radiation Fields. IEEE Transactions on Nuclear Science, 2018, 65, 467-472.	2.0	27
141	Characterisation and evaluation of a PNP strip detector for synchrotron microbeam radiation therapy. Biomedical Physics and Engineering Express, 2018, 4, 044002.	1.2	16
142	A high resolution 2D array detector system for small-field MRI-linac applications. Biomedical Physics and Engineering Express, 2018, 4, 035041.	1.2	6
143	A new approach to the inverse problem for current mapping in thin-film superconductors. Journal of Applied Physics, 2018, 123, 123906.	2.5	4
144	The relative biological effectiveness for carbon, nitrogen, and oxygen ion beams using passive and scanning techniques evaluated with fully 3D silicon microdosimeters. Medical Physics, 2018, 45, 2299-2308.	3.0	38

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145	MICRODOSIMETRIC APPLICATIONS IN PROTON AND HEAVY ION THERAPY USING SILICON MICRODOSIMETERS. Radiation Protection Dosimetry, 2018, 180, 365-371.	0.8	9
146	Investigation of track structure and condensed history physics models for applications in radiation dosimetry on a micro and nano scale in Geant4. Biomedical Physics and Engineering Express, 2018, 4, 024001.	1.2	47
147	Origin of magnetic flux-jumps in Nb films subject to mechanical vibrations and corresponding magnetic perturbations. Physical Review B, 2018, 97, .	3.2	5
148	A silicon strip detector array for energy verification and quality assurance in heavy ion therapy. Medical Physics, 2018, 45, 953-962.	3.0	8
149	A novel high-resolution 2D silicon array detector for small field dosimetry with FFF photon beams. Physica Medica, 2018, 45, 117-126.	0.7	24
150	High spatial resolution microdosimetry with monolithic Si E-E detector on A12C beam: Monte Carlo simulations and experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 887, 70-80.	1.6	11
151	Radiosensitisation enhancement effect of BrUdR and Ta ₂ O ₅ NSPs in combination with 5-Fluorouracil antimetabolite in kilovoltage and megavoltage radiation. Biomedical Physics and Engineering Express, 2018, 4, 034001.	1.2	4
152	Semiconductor real-time quality assurance dosimetry in brachytherapy. Brachytherapy, 2018, 17, 133-145.	0.5	12
153	Opportunistic dose amplification for proton and carbon ion therapy via capture of internally generated thermal neutrons. Scientific Reports, 2018, 8, 16257.	3.3	26
154	First in vitro evidence of modulated electro-hyperthermia treatment performance in combination with megavoltage radiation by clonogenic assay. Scientific Reports, 2018, 8, 16608.	3.3	11
155	Time-of-flight spectrometry of ultra-short, polyenergetic proton bunches. Review of Scientific Instruments, 2018, 89, 123302.	1.3	8
156	Optimisation of the design of SOI microdosimeters for hadron therapy quality assurance. Physics in Medicine and Biology, 2018, 63, 215007.	3.0	9
157	Dosimetric effects of brass mesh bolus on skin dose and dose at depth for postmastectomy chest wall irradiation. Physica Medica, 2018, 54, 84-93.	0.7	13
158	Temporal separation of Cerenkov radiation and scintillation using artificial neural networks in Clinical LINACs. Physica Medica, 2018, 54, 131-136.	0.7	9
159	Temporal separation of Cerenkov radiation and scintillation using a clinical LINAC and artificial intelligence. Physics in Medicine and Biology, 2018, 63, 225004.	3.0	7
160	SOI microdosimetry and modified MKM for evaluation of relative biological effectiveness for a passive proton therapy radiation field. Physics in Medicine and Biology, 2018, 63, 235007.	3.0	28
161	A simulation study of BrachyShade, a shadow-based internal source tracking system for HDR prostate brachytherapy. Physics in Medicine and Biology, 2018, 63, 205019.	3.0	1
162	High toxicity of Bi(OH) ₃ and Bi_2O_3 nanoparticles towards malignant 9L and MCF-7 cells. Materials Science and Engineering C, 2018, 93, 958-967.	7.3	15

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163	Biocompatible Bi(OH) ₃ nanoparticles with reduced photocatalytic activity as possible ultraviolet filter in sunscreens. <i>Materials Research Bulletin</i> , 2018, 108, 130-141.	5.2	19
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