

Anatoly B Rosenfeld

List of Publications by Year in descending order

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474
papers

7,568
citations

66234

42
h-index

128067

60
g-index

481
all docs

481
docs citations

481
times ranked

4528
citing authors

#	ARTICLE	IF	CITATIONS
1	From PET detectors to PET scanners. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2003, 30, 1574-1597.	3.3	186
2	Dose response of various radiation detectors to synchrotron radiation. <i>Physics in Medicine and Biology</i> , 1998, 43, 3235-3259.	1.6	127
3	A prototype coded aperture detector for small animal SPECT. <i>IEEE Transactions on Nuclear Science</i> , 2002, 49, 2167-2171.	1.2	112
4	Measurement of radiotherapy x-ray skin dose on a chest wall phantom. <i>Medical Physics</i> , 2000, 27, 1676-1680.	1.6	111
5	Optical dating in archaeology: thirty years in retrospect and grand challenges for the future. <i>Journal of Archaeological Science</i> , 2015, 56, 41-60.	1.2	110
6	Total variation superiorization schemes in proton computed tomography image reconstruction. <i>Medical Physics</i> , 2010, 37, 5887-5895.	1.6	106
7	Solid state microdosimetry. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001, 184, 135-157.	0.6	104
8	Out-of-field dose equivalents delivered by proton therapy of prostate cancer. <i>Medical Physics</i> , 2007, 34, 3449-3456.	1.6	98
9	MOSFET dosimetry for microbeam radiation therapy at the European Synchrotron Radiation Facility. <i>Medical Physics</i> , 2003, 30, 583-589.	1.6	93
10	Report on G4Med, a Geant4 benchmarking system for medical physics applications developed by the Geant4 Medical Simulation Benchmarking Group. <i>Medical Physics</i> , 2021, 48, 19-56.	1.6	92
11	Electronic dosimetry in radiation therapy. <i>Radiation Measurements</i> , 2006, 41, S134-S153.	0.7	87
12	MOSFET Dosimetry on Modern Radiation Oncology Modalities. <i>Radiation Protection Dosimetry</i> , 2002, 101, 393-398.	0.4	86
13	Medical physics aspects of the synchrotron radiation therapies: Microbeam radiation therapy (MRT) and synchrotron stereotactic radiotherapy (SSRT). <i>Physica Medica</i> , 2015, 31, 568-583.	0.4	83
14	Skin dosimetry with new MOSFET detectors. <i>Radiation Measurements</i> , 2008, 43, 929-932.	0.7	78
15	Novel detectors for silicon based microdosimetry, their concepts and applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 809, 156-170.	0.7	74
16	Assessment of out-of-field absorbed dose and equivalent dose in proton fields. <i>Medical Physics</i> , 2010, 37, 311-321.	1.6	68
17	Monte Carlo characterization of skin doses in 6 MV transverse field MRI linac systems: Effect of field size, surface orientation, magnetic field strength, and exit bolus. <i>Medical Physics</i> , 2010, 37, 5208-5217.	1.6	66
18	A new silicon detector for microdosimetry applications in proton therapy. <i>IEEE Transactions on Nuclear Science</i> , 2000, 47, 1386-1394.	1.2	65

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19	<i>In vivo</i> dosimetry: trends and prospects for brachytherapy. British Journal of Radiology, 2014, 87, 20140206.	1.0	65
20	Characterization of a novel two dimensional diode array the "magic plate" as a radiation detector for radiation therapy treatment. Medical Physics, 2012, 39, 2544-2558.	1.6	63
21	First proof of bismuth oxide nanoparticles as efficient radiosensitisers on highly radioresistant cancer cells. Physica Medica, 2016, 32, 1444-1452.	0.4	61
22	Correction factors to convert microdosimetry measurements in silicon to tissue in ¹² C ion therapy. Physics in Medicine and Biology, 2017, 62, 2055-2069.	1.6	61
23	Verification of the plan dosimetry for high dose rate brachytherapy using metal "oxide" semiconductor field effect transistor detectors. Medical Physics, 2007, 34, 2007-2013.	1.6	59
24	A Novel Approach to Postmastectomy Radiation Therapy Using Scanned Proton Beams. International Journal of Radiation Oncology Biology Physics, 2015, 91, 427-434.	0.4	59
25	High resolution entry and exit Monte Carlo dose calculations from a linear accelerator 6 MV beam under the influence of transverse magnetic fields. Medical Physics, 2009, 36, 3549-3559.	1.6	58
26	Electron contamination modeling and skin dose in 6 MV longitudinal field MRIgRT: Impact of the MRI and MRI fringe field. Medical Physics, 2012, 39, 874-890.	1.6	56
27	Monte Carlo simulation of dose distributions from a synchrotron-produced microplanar beam array using the EGS4 code system. Physics in Medicine and Biology, 2000, 45, 2497-2508.	1.6	55
28	MOSFET dosimeters: the role of encapsulation on dosimetric characteristics in mixed gamma-neutron and megavoltage X-ray fields. IEEE Transactions on Nuclear Science, 1995, 42, 1870-1877.	1.2	54
29	An electron-impact cross section data set (10 eV - 1 keV) of DNA constituents based on consistent experimental data: A requisite for Monte Carlo simulations. Radiation Physics and Chemistry, 2017, 130, 459-479.	1.4	54
30	Characterization of proton pencil beam scanning and passive beam using a high spatial resolution solid state microdosimeter. Medical Physics, 2017, 44, 6085-6095.	1.6	53
31	<i>In vivo</i> real-time rectal wall dosimetry for prostate radiotherapy. Physics in Medicine and Biology, 2010, 55, 3859-3871.	1.6	51
32	Feasibility study of online high-spatial-resolution MOSFET dosimetry in static and pulsed x-ray radiation fields. IEEE Transactions on Nuclear Science, 2001, 48, 2061-2068.	1.2	50
33	<i>In vivo</i> verification of superficial dose for head and neck treatments using intensity modulated techniques. Medical Physics, 2009, 36, 59-70.	1.6	50
34	A more accurate reconstruction system matrix for quantitative proton computed tomography. Medical Physics, 2009, 36, 4511-4518.	1.6	49
35	Cerium oxide nanoparticles: influence of the high-Z component revealed on radioresistant 9L cell survival under X-ray irradiation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 1098-1105.	1.7	49
36	Software platform for simulation of a prototype proton CT scanner. Medical Physics, 2017, 44, 1002-1016.	1.6	48

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37	Monte Carlo study of the potential reduction in out-of-field dose using a patient-specific aperture in pencil beam scanning proton therapy. <i>Physics in Medicine and Biology</i> , 2012, 57, 2829-2842.	1.6	47
38	Investigation of track structure and condensed history physics models for applications in radiation dosimetry on a micro and nano scale in Geant4. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 024001.	0.6	47
39	Charge collection and radiation hardness of a SOI microdosimeter for medical and space applications. <i>IEEE Transactions on Nuclear Science</i> , 1998, 45, 2700-2710.	1.2	46
40	Absolute depth-dose-rate measurements for an Ir192 HDR brachytherapy source in water using MOSFET detectors. <i>Medical Physics</i> , 2006, 33, 1532-1539.	1.6	45
41	Out-of-Field Dose Equivalents Delivered by Passively Scattered Therapeutic Proton Beams for Clinically Relevant Field Configurations. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 73, 306-313.	0.4	45
42	A two dimensional silicon detectors array for quality assurance in stereotactic radiotherapy: MagicPlate [®] 512. <i>Medical Physics</i> , 2014, 41, 091707.	1.6	45
43	Improved spatial resolution by MOSFET dosimetry of an x-ray microbeam. <i>Medical Physics</i> , 2000, 27, 239-244.	1.6	42
44	Synthesis-Dependent Surface Defects and Morphology of Hematite Nanoparticles and Their Effect on Cytotoxicity in Vitro. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5867-5876.	4.0	41
45	Validation of linear energy transfer computed in a Monte Carlo dose engine of a commercial treatment planning system. <i>Physics in Medicine and Biology</i> , 2020, 65, 025006.	1.6	40
46	Microbeam radiation therapy: A Monte Carlo study of the influence of the source, multislit collimator, and beam divergence on microbeams. <i>Medical Physics</i> , 2009, 36, 447-456.	1.6	39
47	Radiation Monitoring in Mixed Environments at CERN: From the IRRAD6 Facility to the LHC Experiments. <i>IEEE Transactions on Nuclear Science</i> , 2007, 54, 1170-1177.	1.2	38
48	MOSFET dosimetry with high spatial resolution in intense synchrotron-generated x-ray microbeams. <i>Medical Physics</i> , 2009, 36, 1128-1137.	1.6	38
49	High-Z Nanostructured Ceramics in Radiotherapy: First Evidence of Ta ₂ O ₅ -Induced Dose Enhancement on Radioresistant Cancer Cells in an MV Photon Field. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 500-505.	1.2	38
50	Synthesis of potential theranostic system consisting of methotrexate-immobilized (3-aminopropyl)trimethoxysilane coated Bi ₂ O ₃ nanoparticles for cancer treatment. <i>RSC Advances</i> , 2014, 4, 24412.	1.7	38
51	The relative biological effectiveness for carbon, nitrogen, and oxygen ion beams using passive and scanning techniques evaluated with fully 3D silicon microdosimeters. <i>Medical Physics</i> , 2018, 45, 2299-2308.	1.6	38
52	Surface dosimetry for breast radiotherapy in the presence of immobilization cast material. <i>Physics in Medicine and Biology</i> , 2011, 56, 1001-1013.	1.6	37
53	3D-Mesa Bridge-Silicon Microdosimeter: Charge Collection Study and Application to RBE Studies in ¹² C Radiation Therapy. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 504-511.	1.2	37
54	Dosimetric verification of helical tomotherapy for total scalp irradiation. <i>Medical Physics</i> , 2008, 35, 5061-5068.	1.6	36

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55	The effect of rectal heterogeneity on wall dose in high dose rate brachytherapy. <i>Medical Physics</i> , 2009, 36, 224-232.	1.6	36
56	X-Tream: a novel dosimetry system for Synchrotron Microbeam Radiation Therapy. <i>Journal of Instrumentation</i> , 2012, 7, P07022-P07022.	0.5	36
57	Absorbed dose-to-water protocol applied to synchrotron-generated x-rays at very high dose rates. <i>Physics in Medicine and Biology</i> , 2016, 61, N349-N361.	1.6	36
58	Tissue equivalence correction for silicon microdosimetry detectors in boron neutron capture therapy. <i>Medical Physics</i> , 1998, 25, 2220-2225.	1.6	35
59	Electron track structure simulations in a gold nanoparticle using Geant4-DNA. <i>Physica Medica</i> , 2019, 63, 98-104.	0.4	35
60	Effect of a magnetic field on the track structure of low-energy electrons: a Monte Carlo study. <i>European Physical Journal D</i> , 2010, 60, 85-92.	0.6	34
61	Characterization of MOSkin detector for <i>in vivo</i> skin dose measurement during megavoltage radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 120-132.	0.8	34
62	3D Silicon Microdosimetry and RBE Study Using ^{12}C Ion of Different Energies. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 3027-3033.	1.2	34
63	Validation of Geant4 fragmentation for Heavy Ion Therapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 869, 68-75.	0.7	34
64	Synthesis of methotrexate-loaded tantalum pentoxide-poly(acrylic acid) nanoparticles for controlled drug release applications. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 286-296.	5.0	34
65	Performance of Silicon Microdosimetry Detectors in Boron Neutron Capture Therapy. <i>Radiation Research</i> , 1999, 151, 235.	0.7	33
66	In vivo rectal wall measurements during HDR prostate brachytherapy with MOSkin dosimeters integrated on a trans-rectal US probe: Comparison with planned and reconstructed doses. <i>Radiotherapy and Oncology</i> , 2016, 118, 148-153.	0.3	33
67	Toward personalized synchrotron microbeam radiation therapy. <i>Scientific Reports</i> , 2020, 10, 8833.	1.6	31
68	A silicon strip detector dose magnifying glass for IMRT dosimetry. <i>Medical Physics</i> , 2010, 37, 427-439.	1.6	30
69	Dosimetry of intensive synchrotron microbeams. <i>Radiation Measurements</i> , 2011, 46, 1560-1565.	0.7	29
70	A real-time <i>in vivo</i> dosimetric verification method for high-dose rate intracavitary brachytherapy of nasopharyngeal carcinoma. <i>Medical Physics</i> , 2012, 39, 6757-6763.	1.6	29
71	Multichannel Data Acquisition System comparison for Quality Assurance in external beam radiation therapy. <i>Radiation Measurements</i> , 2014, 71, 338-341.	0.7	29
72	BrachyView, a novel in-body imaging system for HDR prostate brachytherapy: Experimental evaluation. <i>Medical Physics</i> , 2015, 42, 7098-7107.	1.6	29

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73	Edge-on face-to-face MOSFET for synchrotron microbeam dosimetry: MC modeling. IEEE Transactions on Nuclear Science, 2005, 52, 2562-2569.	1.2	28
74	Evaluation of transmission methodology and attenuation correction for the microPET Focus 220 animal scanner. Physics in Medicine and Biology, 2006, 51, 4003-4016.	1.6	28
75	Nanodosimetry-based quality factors for radiation protection in space. Zeitschrift Fur Medizinische Physik, 2008, 18, 286-296.	0.6	28
76	The feasibility study and characterization of a two-dimensional diode array in a magnetic phantom for high dose rate brachytherapy quality assurance. Medical Physics, 2013, 40, 111702.	1.6	28
77	Benchmarking and validation of a Geant4 "SHADOW" Monte Carlo simulation for dose calculations in microbeam radiation therapy. Journal of Synchrotron Radiation, 2014, 21, 518-528.	1.0	28
78	Local dose enhancement of proton therapy by ceramic oxide nanoparticles investigated with Geant4 simulations. Physica Medica, 2016, 32, 1584-1593.	0.4	28
79	Characterization of prompt gamma-ray emission with respect to the Bragg peak for proton beam range verification: A Monte Carlo study. Physica Medica, 2017, 33, 197-206.	0.4	28
80	Microdosimetric measurements of a clinical proton beam with micrometer-sized solid-state detector. Medical Physics, 2017, 44, 6029-6037.	1.6	28
81	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.	1.6	28
82	Microdosimetry of a therapeutic proton beam with a mini-TEPC and a MicroPlus-Bridge detector for RBE assessment. Physics in Medicine and Biology, 2020, 65, 245018.	1.6	28
83	Comparison of nanodosimetric parameters of track structure calculated by the Monte Carlo codes Geant4-DNA and PTr. Physics in Medicine and Biology, 2012, 57, 1231-1250.	1.6	27
84	Clinical application of MOSkin dosimeters to rectal wall in vivo dosimetry in gynecological HDR brachytherapy. Physica Medica, 2017, 41, 5-12.	0.4	27
85	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.	1.2	27
86	Opportunistic dose amplification for proton and carbon ion therapy via capture of internally generated thermal neutrons. Scientific Reports, 2018, 8, 16257.	1.6	26
87	The microdosimetric extension in TOPAS: development and comparison with published data. Physics in Medicine and Biology, 2019, 64, 145004.	1.6	26
88	Development of a new microdosimetric biological weighting function for the RBE ₁₀ assessment in case of the V79 cell line exposed to ions from ¹ H to ²³⁸ U. Physics in Medicine and Biology, 2020, 65, 235010.	1.6	26
89	Measurements in Radiotherapy Beams using On-line MOSFET Detectors. Radiation Protection Dosimetry, 2002, 101, 445-448.	0.4	25
90	Neutron dosimetry with planar silicon p-i-n diodes. IEEE Transactions on Nuclear Science, 2003, 50, 2367-2372.	1.2	25

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91	A Cylindrical Silicon-on-Insulator Microdosimeter: Charge Collection Characteristics. IEEE Transactions on Nuclear Science, 2008, 55, 3414-3420.	1.2	25
92	Tissue Equivalence Correction in Silicon Microdosimetry for Protons Characteristic of the LEO Space Environment. IEEE Transactions on Nuclear Science, 2008, 55, 3407-3413.	1.2	25
93	Real-Time In Vivo Dosimetry With MOSFET Detectors in Serial Tomotherapy for Head and Neck Cancer Patients. International Journal of Radiation Oncology Biology Physics, 2011, 80, 1581-1588.	0.4	25
94	Solid State Microdosimetry in Hadron Therapy. Radiation Protection Dosimetry, 2002, 101, 431-434.	0.4	24
95	The role of nonelastic reactions in absorbed dose distributions from therapeutic proton beams in different medium. Medical Physics, 2004, 32, 37-41.	1.6	24
96	The use of a silicon strip detector dose magnifying glass in stereotactic radiotherapy QA and dosimetry. Medical Physics, 2011, 38, 1226-1238.	1.6	24
97	Comparative evaluation of modern dosimetry techniques near low- and high-density heterogeneities. Journal of Applied Clinical Medical Physics, 2015, 16, 142-158.	0.8	24
98	Multifunctional Fe ₂ O ₃ /CeO ₂ nanocomposites for free radical scavenging ultraviolet protection. RSC Advances, 2016, 6, 65397-65402.	1.7	24
99	A 2D silicon detector array for quality assurance in small field dosimetry: <scp>DUO</scp>. Medical Physics, 2017, 44, 628-636.	1.6	24
100	A novel high-resolution 2D silicon array detector for small field dosimetry with FFF photon beams. Physica Medica, 2018, 45, 117-126.	0.4	24
101	High spatial resolution scintillator dosimetry of synchrotron microbeams. Scientific Reports, 2019, 9, 6873.	1.6	24
102	Ionization cross section data of nitrogen, methane, and propane for light ions and electrons and their suitability for use in track structure simulations. Physical Review E, 2013, 88, 043308.	0.8	23
103	Semiconductor dosimetry in modern external-beam radiation therapy. Physics in Medicine and Biology, 2020, 65, 16TR01.	1.6	23
104	Solid State Microdosimetry With Heavy Ions for Space Applications. IEEE Transactions on Nuclear Science, 2007, 54, 2264-2271.	1.2	22
105	RBE estimation of proton radiation fields using a telescope. Medical Physics, 2009, 36, 4486-4494.	1.6	22
106	Study of the effect of ceramic Ta ₂ O ₅ nanoparticle distribution on cellular dose enhancement in a kilovoltage photon field. Physica Medica, 2016, 32, 1216-1224.	0.4	22
107	Development of a high resolution voxelised head phantom for medical physics applications. Physica Medica, 2017, 33, 182-188.	0.4	22
108	Comparison of phantom materials for use in quality assurance of microbeam radiation therapy. Journal of Synchrotron Radiation, 2017, 24, 866-876.	1.0	22

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109	CyberKnife [®] fixed cone and Iris [®] defined small radiation fields: Assessment with a high-resolution solid-state detector array. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 547-557.	0.8	22
110	MagicPlate-512: A 2D silicon detector array for quality assurance of stereotactic motion adaptive radiotherapy. <i>Medical Physics</i> , 2015, 42, 2992-3004.	1.6	21
111	Optimizing dose enhancement with Ta ₂ O ₅ nanoparticles for synchrotron microbeam activated radiation therapy. <i>Physica Medica</i> , 2016, 32, 1852-1861.	0.4	21
112	Real-time eye lens dose monitoring during cerebral angiography procedures. <i>European Radiology</i> , 2016, 26, 79-86.	2.3	21
113	A novel methodology to assess linear energy transfer and relative biological effectiveness in proton therapy using pairs of differently doped thermoluminescent detectors. <i>Physics in Medicine and Biology</i> , 2019, 64, 085005.	1.6	21
114	X-Tream quality assurance in synchrotron X-ray microbeam radiation therapy. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1180-1190.	1.0	21
115	LET dependence of the charge collection efficiency of silicon microdosimeters. <i>IEEE Transactions on Nuclear Science</i> , 2003, 50, 2373-2379.	1.2	20
116	Experimental investigation of the 100 keV X-ray dose response of the high-temperature thermoluminescence in LiF:Mg,Ti (TLD-100): theoretical interpretation using the unified interaction model. <i>Radiation Protection Dosimetry</i> , 2010, 138, 320-333.	0.4	20
117	Large Area Silicon Microdosimeter for Dosimetry in High LET Space Radiation Fields: Charge Collection Study. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 3126-3132.	1.2	20
118	The evaluation of a 2D diode array in "magic phantom" for use in high dose rate brachytherapy pretreatment quality assurance. <i>Medical Physics</i> , 2015, 42, 663-673.	1.6	20
119	X-Tream dosimetry of highly brilliant X-ray microbeams in the MRT hutch of the Australian Synchrotron. <i>Radiation Measurements</i> , 2017, 106, 405-411.	0.7	20
120	Attenuation of UV absorption by poly(lactic acid)-iron oxide nanocomposite particles and their potential application in sunscreens. <i>Chemical Engineering Journal</i> , 2021, 405, 126843.	6.6	20
121	Alpha particle and proton relative thermoluminescence efficiencies in LiF:Mg,Cu,P:is track structure theory up to the task?. <i>Radiation Protection Dosimetry</i> , 2012, 150, 359-374.	0.4	19
122	A comparative analysis of multichannel Data Acquisition Systems for quality assurance in external beam radiation therapy. <i>Journal of Instrumentation</i> , 2014, 9, T06003-T06003.	0.5	19
123	Biocompatible Bi(OH) ₃ nanoparticles with reduced photocatalytic activity as possible ultraviolet filter in sunscreens. <i>Materials Research Bulletin</i> , 2018, 108, 130-141.	2.7	19
124	Thulium Oxide Nanoparticles: A new candidate for image-guided radiotherapy. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 044001.	0.6	19
125	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.	0.8	19
126	Thermoluminescence solid-state nanodosimetry—the peak 5A/5 dosimeter. <i>Radiation Protection Dosimetry</i> , 2011, 143, 416-426.	0.4	18

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127	Characterization of an Innovative p-type Epitaxial Diode for Dosimetry in Modern External Beam Radiotherapy. IEEE Transactions on Nuclear Science, 2013, 60, 4705-4712.	1.2	18
128	In vitro investigation of the dose-rate effect on the biological effectiveness of megavoltage X-ray radiation doses. Applied Radiation and Isotopes, 2017, 128, 114-119.	0.7	18
129	Advances in modelling gold nanoparticle radiosensitization using new Geant4-DNA physics models. Physics in Medicine and Biology, 2020, 65, 225017.	1.6	18
130	Ion beam induced charge characterisation of a silicon microdosimeter using a heavy ion microprobe. Nuclear Instruments & Methods in Physics Research B, 2002, 190, 335-338.	0.6	17
131	Characterization of a Novel Diamond-Based Microdosimeter Prototype for Radioprotection Applications in Space Environments. IEEE Transactions on Nuclear Science, 2012, 59, 3110-3116.	1.2	17
132	Brachytherapy: Proof-of-principle of a novel in-body gamma camera for low dose-rate prostate brachytherapy. Medical Physics, 2013, 40, 041709.	1.6	17
133	Direct and pulsed current annealing of p-MOSFET based dosimeter: the "MOSkin". Australasian Physical and Engineering Sciences in Medicine, 2014, 37, 311-319.	1.4	17
134	Monte Carlo simulation of the dose response of a novel 2D silicon diode array for use in hybrid MRI-LINAC systems. Medical Physics, 2015, 42, 856-865.	1.6	17
135	In vivo skin dose measurement using MOSkin detectors in tangential breast radiotherapy. Physica Medica, 2016, 32, 1466-1474.	0.4	17
136	X-ray microbeam measurements with a high resolution scintillator fibre-optic dosimeter. Scientific Reports, 2017, 7, 12450.	1.6	17
137	Real-time in vivo rectal wall dosimetry using MOSkin detectors during linac based stereotactic radiotherapy with rectal displacement. Radiation Oncology, 2017, 12, 41.	1.2	17
138	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.	0.2	17
139	Parametric characterization of penumbra reduction for aperture-collimated pencil beam scanning (PBS) proton therapy. Biomedical Physics and Engineering Express, 2019, 5, 035002.	0.6	17
140	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.	1.6	17
141	Geant4 simulation of the CERN-EU high-energy reference field (CERF) facility. Radiation Protection Dosimetry, 2010, 141, 106-113.	0.4	16
142	Highly porous hematite nanorods prepared via direct spray precipitation method. Materials Letters, 2014, 117, 279-282.	1.3	16
143	Angular independent silicon detector for dosimetry in external beam radiotherapy. Medical Physics, 2015, 42, 4708-4718.	1.6	16
144	High-resolution fiber-optic dosimeters for microbeam radiation therapy. Medical Physics, 2017, 44, 1965-1968.	1.6	16

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145	Characterisation and evaluation of a PNP strip detector for synchrotron microbeam radiation therapy. Biomedical Physics and Engineering Express, 2018, 4, 044002.	0.6	16
146	Field dependence of the ferromagnetic/superconducting proximity effect in a YBCO/STO/LCMO multilayer. Nanoscale, 2018, 10, 18995-19003.	2.8	16
147	Experimental characterization of magnetically focused electron contamination at the surface of a high-field inline MRI linac. Medical Physics, 2019, 46, 5780-5789.	1.6	16
148	Monte Carlo implementation of new algorithms for the evaluation of averaged-dose and -track linear energy transfers in 62 MeV clinical proton beams. Physics in Medicine and Biology, 2020, 65, 235043.	1.6	16
149	Design and simulation of continuous scintillator with pixellated photodetector. IEEE Transactions on Nuclear Science, 2001, 48, 1412-1417.	1.2	15
150	3D Radiation Detectors: Charge Collection Characterisation and Applicability of Technology for Microdosimetry. IEEE Transactions on Nuclear Science, 2014, 61, 1537-1543.	1.2	15
151	Particle tracking with a Timepix based triple GEM detector. Journal of Instrumentation, 2015, 10, P11003-P11003.	0.5	15
152	A 3D lateral electrode structure for diamond based microdosimetry. Applied Physics Letters, 2017, 110, .	1.5	15
153	High toxicity of Bi(OH) ₃ and Bi ₂ O ₃ nanoparticles towards malignant 9L and MCF-7 cells. Materials Science and Engineering C, 2018, 93, 958-967.	3.8	15
154	Characterization of ELEKTA SRS cone collimator using high spatial resolution monolithic silicon detector array. Journal of Applied Clinical Medical Physics, 2018, 19, 114-124.	0.8	15
155	Synchrotron X-ray microbeam dosimetry with a 20 µm resolution scintillator fibre-optic dosimeter. Journal of Synchrotron Radiation, 2018, 25, 826-832.	1.0	15
156	In-field and out-of-file application in 12C ion therapy using fully 3D silicon microdosimeters. Radiation Measurements, 2018, 115, 55-59.	0.7	15
157	Characterization of an organic semiconductor diode for dosimetry in radiotherapy. Medical Physics, 2020, 47, 3658-3668.	1.6	15
158	Polymer Photodetectors for Printable, Flexible, and Fully Tissue Equivalent X-ray Detection with Zero Bias Operation and Ultrafast Temporal Responses. Advanced Materials Technologies, 2021, 6, 2001298.	3.0	15
159	Engineering of Bismuth Oxide Nanoparticles to Induce Differential Biochemical Activity in Malignant and Nonmalignant Cells. Particle and Particle Systems Characterization, 2014, 31, 960-964.	1.2	14
160	RBE study using solid state microdosimetry in heavy ion therapy. Radiation Measurements, 2017, 106, 512-518.	0.7	14
161	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.	1.6	14
162	In vivo dosimetry and seed localization in prostate brachytherapy with permanent implants. IEEE Transactions on Nuclear Science, 2004, 51, 3013-3018.	1.2	13

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163	A comparison of proton therapy and IMRT treatment plans for prostate radiotherapy. Australasian Physical and Engineering Sciences in Medicine, 2008, 31, 325-331.	1.4	13
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