

# Anatoly B Rosenfeld

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

445  
papers

5,769  
citations

38  
h-index

53  
g-index

481  
ext. papers

6,835  
ext. citations

2.4  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
445	Small spot size versus large spot size: Effect on plan quality for lung cancer in pencil beam scanning proton therapy.. <i>Journal of Applied Clinical Medical Physics</i> , <b>2022</b> ,	2.3	1
444	A Large Area Pixelated Silicon Array Detector for Independent Transit In Vivo Dosimetry. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 537	2.6	1
443	Beta dose heterogeneity in sediment samples measured using a Timepix pixelated detector and its implications for optical dating of individual mineral grains. <i>Quaternary Geochronology</i> , <b>2022</b> , 68, 101254	2.7	2
442	Evaluation of silicon strip detectors in transmission mode for online beam monitoring in microbeam radiation therapy at the Australian Synchrotron.. <i>Journal of Synchrotron Radiation</i> , <b>2022</b> , 29, 125-137	2.4	
441	Characterisation of MOSFET dosimeters for alpha particle therapy. <i>IEEE Transactions on Nuclear Science</i> , <b>2022</b> , 1-1	1.7	
440	Characterizing magnetically focused contamination electrons by off-axis irradiation on an inline MRI-Linac.. <i>Journal of Applied Clinical Medical Physics</i> , <b>2022</b> , e13591	2.3	0
439	Detection and discrimination of neutron capture events for NCEPT dose quantification.. <i>Scientific Reports</i> , <b>2022</b> , 12, 5863	4.9	
438	Silicon 3D Microdosimeters for Advanced Quality Assurance in Particle Therapy. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 328	2.6	1
437	Energy-Loss Straggling and Delta-Ray Escape in Solid-State Microdosimeters Used in Ion-Beam Therapy. <i>Journal of Nuclear Engineering</i> , <b>2022</b> , 3, 128-151	0.6	0
436	Flexible Polymer X-ray Detectors with Non-fullerene Acceptors for Enhanced Stability: Toward Printable Tissue Equivalent Devices for Medical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 57703-57712	9.5	1
435	Deconvolution analysis improves real-time OSL of BeO ceramic. <i>Radiation Measurements</i> , <b>2021</b> , 149, 106680	6.8	0
434	Application of an SOI Microdosimeter for Monitoring of Neutrons in Various Mixed Radiation Field Environments. <i>IEEE Transactions on Nuclear Science</i> , <b>2021</b> , 1-1	1.7	2
433	Response of SOI microdosimeter in fast neutron beams: experiment and Monte Carlo simulations. <i>Physica Medica</i> , <b>2021</b> , 90, 176-187	2.7	
432	Semiconductor Dosimeters <b>2021</b> , 39-60		
431	First extensive study of silver-doped lanthanum manganite nanoparticles for inducing selective chemotherapy and radio-toxicity enhancement. <i>Materials Science and Engineering C</i> , <b>2021</b> , 123, 111970	8.3	5
430	Polymer Photodetectors for Printable, Flexible, and Fully Tissue Equivalent X-Ray Detection with Zero-Bias Operation and Ultrafast Temporal Responses. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2001298	6.8	4
429	In-field and out-of-field microdosimetric characterisation of a 62 MeV proton beam at CATANA. <i>Medical Physics</i> , <b>2021</b> , 48, 4532-4541	4.4	0

428	Characterization of a novel large area microdosimeter system for low dose rate radiation environments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2021</b> , 1002, 165238	1.2	1
427	X-TREAM protocol for in vitro microbeam radiation therapy at the Australian Synchrotron. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 244902	2.5	2
426	Impact of errors in spot size and spot position in robustly optimized pencil beam scanning proton-based stereotactic body radiation therapy (SBRT) lung plans. <i>Journal of Applied Clinical Medical Physics</i> , <b>2021</b> , 22, 147-154	2.3	
425	Towards high spatial resolution tissue-equivalent dosimetry for microbeam radiation therapy using organic semiconductors. <i>Journal of Synchrotron Radiation</i> , <b>2021</b> , 28, 1444-1454	2.4	3
424	The use of collimator angle optimization and jaw tracking for VMAT-based single-isocenter multiple-target stereotactic radiosurgery for up to six targets in the Varian Eclipse treatment planning system. <i>Journal of Applied Clinical Medical Physics</i> , <b>2021</b> , 22, 171-182	2.3	2
423	Report on G4-Med, a Geant4 benchmarking system for medical physics applications developed by the Geant4 Medical Simulation Benchmarking Group. <i>Medical Physics</i> , <b>2021</b> , 48, 19-56	4.4	3 <sup>1</sup>
422	Attenuation of UV absorption by poly(lactic acid)-iron oxide nanocomposite particles and their potential application in sunscreens. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126843	14.7	10
421	Radiation Shielding Evaluation of Spacecraft Walls Against Heavy Ions Using Microdosimetry. <i>IEEE Transactions on Nuclear Science</i> , <b>2021</b> , 68, 897-905	1.7	1
420	Consistency of small-field dosimetry, on and off axis, in beam-matched linacs used for stereotactic radiosurgery. <i>Journal of Applied Clinical Medical Physics</i> , <b>2021</b> , 22, 185-193	2.3	1
419	Investigating volumetric repainting to mitigate interplay effect on 4D robustly optimized lung cancer plans in pencil beam scanning proton therapy. <i>Journal of Applied Clinical Medical Physics</i> , <b>2021</b> , 22, 107-118	2.3	3
418	Estimating the biological effects of helium, carbon, oxygen, and neon ion beams using 3D silicon microdosimeters. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66, 045017	3.8	2
417	A benchmarking study of Geant4 for Auger electrons emitted by medical radioisotopes. <i>Applied Radiation and Isotopes</i> , <b>2021</b> , 174, 109777	1.7	1
416	On the evaluation of edgeless diode detectors for patient-specific QA in high-dose stereotactic radiosurgery. <i>Physica Medica</i> , <b>2021</b> , 89, 20-28	2.7	3
415	Reducing axial truncation artifacts in iterative cone-beam CT for radiation therapy using a priori preconditioned information. <i>Medical Physics</i> , <b>2021</b> , 48, 7089-7098	4.4	0
414	Incorporating Clinical Imaging into the Delivery of Microbeam Radiation Therapy. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9101	2.6	0
413	Modelling of reusable target materials for the production of fission produced Mo using MCNP6.2 and CINDER90. <i>Applied Radiation and Isotopes</i> , <b>2021</b> , 176, 109827	1.7	0
412	Characterisation of a well-type NaI(Tl) detector by means of a Monte Carlo simulation for radionuclide metrology application. <i>Applied Radiation and Isotopes</i> , <b>2021</b> , 176, 109889	1.7	
411	Oxi-Redox Selective Breast Cancer Treatment: An In Vitro Study of Theranostic In-Based Oxide Nanoparticles for Controlled Generation or Prevention of Oxidative Stress. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 2204-2217	9.5	2

410	Modelling ICRP110 Adult Reference Voxel Phantoms for dosimetric applications: Development of a new Geant4 Advanced Example. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1662, 012021	0.3	1
409	Real-time in-vivo dosimetry for DaRT. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1662, 012031	0.3	
408	Microdosimetry at the 62 MeV Proton Beam of CATANA: preliminary comparison of three detectors. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1662, 012006	0.3	1
407	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> , <b>2020</b> , 1662, 012007	0.3	
406	Microdosimetric study for helium-ion beam using fully 3D silicon microdosimeters. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1662, 012022	0.3	
405	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> , <b>2020</b> , 1662, 012024	0.3	
404	Characterization of an organic semiconductor diode for dosimetry in radiotherapy. <i>Medical Physics</i> , <b>2020</b> , 47, 3658-3668	4.4	6
403	Toward personalized synchrotron microbeam radiation therapy. <i>Scientific Reports</i> , <b>2020</b> , 10, 8833	4.9	11
402	Characterization of a plastic dosimeter based on organic semiconductor photodiodes and scintillator. <i>Physics and Imaging in Radiation Oncology</i> , <b>2020</b> , 14, 48-52	3.1	6
401	Microdosimetry with a 3D silicon on insulator (SOI) detector in a low energy proton beamline. <i>Radiation Physics and Chemistry</i> , <b>2020</b> , 176, 109078	2.5	2
400	Semiconductor dosimetry in modern external-beam radiation therapy. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 16TR01	3.8	13
399	MRI-LINAC beam profile measurements using a plastic scintillation dosimeter. <i>Physica Medica</i> , <b>2020</b> , 73, 111-116	2.7	1
398	On the Combined Effect of Silicon Oxide Thickness and Boron Implantation Under the Gate in MOSFET Dosimeters. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 534-540	1.7	8
397	The impact of sensitive volume thickness for silicon on insulator microdosimeters in hadron therapy. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 035004	3.8	3
396	A Solid-State Microdosimeter for Dose and Radiation Quality Monitoring for Astronauts in Space. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 169-174	1.7	7
395	Experimental investigation of the characteristics of radioactive beams for heavy ion therapy. <i>Medical Physics</i> , <b>2020</b> , 47, 3123-3132	4.4	4
394	BrachyView: development of an algorithm for real-time automatic LDR brachytherapy seed detection. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 215015	3.8	
393	Dose quantification in carbon ion therapy using in-beam positron emission tomography. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 235052	3.8	2

392	A validated Geant4 model of a whole-body PET scanner with four-layer DOI detectors. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 235051	3.8	1
391	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> , <b>2020</b> , 65, 235043	3.8	8
390	Advances in modelling gold nanoparticle radiosensitization using new Geant4-DNA physics models. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 225017	3.8	6
389	Development of a new microdosimetric biological weighting function for the RBE assessment in case of the V79 cell line exposed to ions from H to U. <i>Physics in Medicine and Biology</i> , <b>2020</b> ,	3.8	8
388	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> , <b>2020</b> , 65, 245018	3.8	8
387	First application of a high-resolution silicon detector for proton beam Bragg peak detection in a 0.95 T magnetic field. <i>Medical Physics</i> , <b>2020</b> , 47, 181-189	4.4	1
386	First experimental measurement of the effect of cardio-synchronous brain motion on the dose distribution during microbeam radiation therapy. <i>Medical Physics</i> , <b>2020</b> , 47, 213-222	4.4	7
385	High resolution silicon array detector implementation in an inline MRI-linac. <i>Medical Physics</i> , <b>2020</b> , 47, 1920-1929	4.4	1
384	Validation of Geant4 for silicon microdosimetry in heavy ion therapy. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 045014	3.8	5
383	Medipix detectors in radiation therapy for advanced quality-assurance. <i>Radiation Measurements</i> , <b>2020</b> , 130, 106211	1.5	2
382	Evaluation of rectal dose discrepancies between planned and in vivo dosimetry using MOSkin detector and PTW 9112 semiconductor probe during Co HDR CT-based intracavitary cervix brachytherapy. <i>Physica Medica</i> , <b>2020</b> , 69, 52-60	2.7	6
381	Study on the RBE estimation for carbon beam scanning irradiation using a solid-state microdosimeter. <i>Medical Physics</i> , <b>2020</b> , 47, 363-370	4.4	0
380	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> , <b>2020</b> , 65, 025006	3.8	19
379	SOI Thin Microdosimeters for High LET Single-Event Upset Studies in Fe, O, Xe, and Cocktail Ion Beam Fields. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 146-153	1.7	7
378	Characterization of 3-D-Mesa Silicon Single Strip Detectors for Use in Synchrotron Microbeam Radiation Therapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2020</b> , 4, 470-478	4.2	3
377	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> , <b>2020</b> , 21, 124-131	2.3	3
376	A machine learning-based framework for delivery error prediction in proton pencil beam scanning using irradiation log-files. <i>Physica Medica</i> , <b>2020</b> , 78, 179-186	2.7	3
375	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> , <b>2020</b> , 13, 392-397	1.7	4

374	Evaluation of the PTW microDiamond in edge-on orientation for dosimetry in small fields. <i>Journal of Applied Clinical Medical Physics</i> , <b>2020</b> , 21, 278-288	2.3	7
373	Validation and practical implementation of seated position radiotherapy in a commercial TPS for proton therapy. <i>Physica Medica</i> , <b>2020</b> , 80, 175-185	2.7	4
372	eXaSkin: A novel high-density bolus for 6MV X-rays radiotherapy. <i>Physica Medica</i> , <b>2020</b> , 80, 42-46	2.7	2
371	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> , <b>2020</b> , 1662, 012008	0.3	
370	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> , <b>2020</b> , 43, 1161-1170	7	3
369	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> , <b>2020</b> , 151, 273-279	5.3	1
368	Fabrication and First Characterization of Silicon-Based Full 3-D Microdosimeters. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 2490-2500	1.7	3
367	Temporal modelling of beryllium oxide ceramics' real-time OSL for dosimetry with a superficial 140kVp X-ray beam. <i>Physica Medica</i> , <b>2020</b> , 80, 17-22	2.7	1
366	2D photon dosimetry with a scintillation fibre optic dosimeter. <i>Radiation Physics and Chemistry</i> , <b>2020</b> , 166, 108490	2.5	2
365	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> , <b>2020</b> , 21, 44-52	2.3	2
364	Evaluation of organ doses following high dose rate (HDR) brachytherapy of breast cancer: a Geant4 Monte Carlo simulation study. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1248, 012048	0.3	
363	Evaluation of organ doses following prostate treatment with permanent brachytherapy seeds: a Geant4 Monte Carlo simulation study. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1248, 012049	0.3	1
362	Evaluation of silicon based microdosimetry for Boron Neutron Capture Therapy Quality Assurance. <i>Physica Medica</i> , <b>2019</b> , 66, 8-14	2.7	3
361	IBIC microscopy [The powerful tool for testing micron [sized sensitive volumes in segmented radiation detectors used in synchrotron microbeam radiation and hadron therapies. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2019</b> , 458, 90-96	1.2	4
360	Tissue equivalence of diamond for heavy charged particles. <i>Radiation Measurements</i> , <b>2019</b> , 122, 1-9	1.5	5
359	Feasibility of a dual detector system to perform transit dosimetry and MV imaging in-vivo. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P01019-P01019	1	3
358	INVESTIGATING VARIABLE RBE IN A 12C MINIBEAM FIELD WITH MICRODOSIMETRY AND GEANT4. <i>Radiation Protection Dosimetry</i> , <b>2019</b> , 183, 160-166	0.9	2
357	Characterization of MOSkin detector for in vivo dose verification during Cobalt-60 high dose-rate intracavitary brachytherapy. <i>Physica Medica</i> , <b>2019</b> , 58, 1-7	2.7	5

356	High spatial resolution scintillator dosimetry of synchrotron microbeams. <i>Scientific Reports</i> , <b>2019</b> , 9, 6874-9	4.9	13
355	The microdosimetric extension in TOPAS: development and comparison with published data. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 145004	3.8	10
354	A feasibility study for high-resolution silicon array detector performance in the magnetic field of a permanent magnet system. <i>Medical Physics</i> , <b>2019</b> , 46, 4224-4232	4.4	1
353	Comparative study of alternative Geant4 hadronic ion inelastic physics models for prediction of positron-emitting radionuclide production in carbon and oxygen ion therapy. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 155014	3.8	5
352	Electron track structure simulations in a gold nanoparticle using Geant4-DNA. <i>Physica Medica</i> , <b>2019</b> , 63, 98-104	2.7	20
351	Derivation of in vivo source tracking error thresholds for TRUS-based HDR prostate brachytherapy through simulation of source positioning errors. <i>Brachytherapy</i> , <b>2019</b> , 18, 711-719	2.4	9
350	The effect of an air gap on a 2D monolithic silicon detector for relative dosimetry. <i>Journal of Instrumentation</i> , <b>2019</b> , 14, P06018-P06018	1	5
349	Characterization of prompt gamma ray emission for in vivo range verification in particle therapy: A simulation study. <i>Physica Medica</i> , <b>2019</b> , 62, 20-32	2.7	4
348	Evaluation of the MOSkin dosimeter for diagnostic X-ray CT beams. <i>Physica Medica</i> , <b>2019</b> , 60, 150-155	2.7	3
347	Monte Carlo investigation of the characteristics of radioactive beams for heavy ion therapy. <i>Scientific Reports</i> , <b>2019</b> , 9, 6537	4.9	7
346	An innovative gynecological HDR brachytherapy applicator system for treatment delivery and real-time verification. <i>Physica Medica</i> , <b>2019</b> , 59, 151-157	2.7	3
345	Parametric characterization of penumbra reduction for aperture-collimated pencil beam scanning (PBS) proton therapy. <i>Biomedical Physics and Engineering Express</i> , <b>2019</b> , 5, 035002	1.5	8
344	A Monte Carlo study on the feasibility of real-time in vivo source tracking during ultrasound based HDR prostate brachytherapy treatments. <i>Physica Medica</i> , <b>2019</b> , 59, 30-36	2.7	4
343	Preliminary epi-diode characterization for HDR brachytherapy quality assurance. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1154, 012026	0.3	
342	Characterization of a high spatiotemporal resolution monolithic silicon strip detector for MRI-linac dosimetry. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1154, 012006	0.3	
341	Quality assurance of Cyberknife robotic stereotactic radiosurgery using an angularly independent silicon detector. <i>Journal of Applied Clinical Medical Physics</i> , <b>2019</b> , 20, 76-88	2.3	4
340	2D monolithic silicon-diode array detectors in megavoltage photon beams: does the fabrication technology matter? A medical physicist's perspective. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2019</b> , 42, 443-451	1.9	4
339	Today's monolithic silicon array detector for small field dosimetry: the Octa. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1154, 012002	0.3	0

338	Evolution of Diamond based Microdosimetry. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1154, 012007	0.3	3
337	Simulation of cosmic radiation spectra for personal microdosimetry at the International Space Station's altitude. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1154, 012020	0.3	1
336	Characterisations of a fibre optic dosimetry system for source tracking during HDR Brachytherapy. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1154, 012027	0.3	1
335	BrachyView: verification of LDR patient plans [hardware optimisation. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1154, 012005	0.3	1
334	Characterization of an Edgeless Dosimeter for Angular Independent Measurements in Advanced Radiotherapy Treatments. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2019</b> , 3, 579-587	4.2	2
333	Fibre optic dosimetry in synchrotron microbeam radiation therapy. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1154, 012001	0.3	0
332	Modelling the Biological Beamline at HIMAC using Geant4. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1154, 012003	0.3	8
331	First measurements with a plastic scintillation dosimeter at the Australian MRI-LINAC. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 175015	3.8	7
330	Modelling of the Silicon-On-Insulator microdosimeter response within the International Space Station for astronauts' radiation protection. <i>Radiation Measurements</i> , <b>2019</b> , 128, 106182	1.5	4
329	Experimental characterization of magnetically focused electron contamination at the surface of a high-field inline MRI-linac. <i>Medical Physics</i> , <b>2019</b> , 46, 5780-5789	4.4	8
328	Polo-like kinase 1 inhibitor BI6727 sensitizes 9L gliosarcoma cells to ionizing irradiation. <i>Biomedical Physics and Engineering Express</i> , <b>2019</b> , 5, 067003	1.5	0
327	In vivo dosimetry using MOSkin detector during Cobalt-60 high-dose-rate (HDR) brachytherapy of skin cancer. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2019</b> , 42, 1099-1107	1.9	3
326	BrachyView: Reconstruction of seed positions and volume of an LDR prostate brachytherapy patient plan using a baseline subtraction algorithm. <i>Physica Medica</i> , <b>2019</b> , 66, 66-76	2.7	2
325	Two-dimensional solid-state array detectors: A technique for in vivo dose verification in a variable effective area. <i>Journal of Applied Clinical Medical Physics</i> , <b>2019</b> , 20, 88-94	2.3	2
324	Characterization of the Mixed Radiation Field Produced by Carbon and Oxygen Ion Beams of Therapeutic Energy: A Monte Carlo Simulation Study. <i>Journal of Medical Physics</i> , <b>2019</b> , 44, 263-269	0.7	2
323	BrachyView: initial preclinical results for a real-time in-body HDR PBT source tracking system with simultaneous TRUS image fusion. <i>Physics in Medicine and Biology</i> , <b>2019</b> , 64, 085002	3.8	
322	Validation of a Monte Carlo simulation for Microbeam Radiation Therapy on the Imaging and Medical Beamline at the Australian Synchrotron. <i>Scientific Reports</i> , <b>2019</b> , 9, 17696	4.9	7
321	A novel quality assurance system for eye plaque brachytherapy. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2019</b> , 42, 1109-1115	1.9	0

320	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> , <b>2019</b> , 64, 085005	3.8	17
319	An algorithmic approach to single-probe Cherenkov removal in pulsed x-ray beams. <i>Medical Physics</i> , <b>2019</b> , 46, 1833-1839	4.4	4
318	. <i>IEEE Transactions on Nuclear Science</i> , <b>2019</b> , 66, 519-527	1.7	5
317	SOI Thin Microdosimeter Detectors for Low-Energy Ions and Radiation Damage Studies. <i>IEEE Transactions on Nuclear Science</i> , <b>2019</b> , 66, 320-326	1.7	8
316	Synthesis of methotrexate-loaded tantalum pentoxide-poly(acrylic acid) nanoparticles for controlled drug release applications. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 538, 286-296	9.3	24
315	Thin Silicon Microdosimeter Utilizing 3-D MEMS Fabrication Technology: Charge Collection Study and Its Application in Mixed Radiation Fields. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 467-472	1.7	19
314	Characterisation and evaluation of a PNP strip detector for synchrotron microbeam radiation therapy. <i>Biomedical Physics and Engineering Express</i> , <b>2018</b> , 4, 044002	1.5	13
313	A high resolution 2D array detector system for small-field MRI-linac applications. <i>Biomedical Physics and Engineering Express</i> , <b>2018</b> , 4, 035041	1.5	5
312	A new approach to the inverse problem for current mapping in thin-film superconductors. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 123906	2.5	3
311	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> , <b>2018</b> , 45, 2299-2308	4.4	22
310	MICRODOSIMETRIC APPLICATIONS IN PROTON AND HEAVY ION THERAPY USING SILICON MICRODOSIMETERS. <i>Radiation Protection Dosimetry</i> , <b>2018</b> , 180, 365-371	0.9	3
309	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> , <b>2018</b> , 4, 024001	1.5	36
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16	Application of Silicon Diode Arrays for Microdosimetry in BNCT and FNT <b>2001</b> , 615-621		4
15	Monte Carlo simulation of dose distributions from a synchrotron-produced microplanar beam array using the EGS4 code system. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 2497-508	3.8	50

14	Improved spatial resolution by MOSFET dosimetry of an x-ray microbeam. <i>Medical Physics</i> , <b>2000</b> , 27, 239-44	4.4	37
13	A computational technique for simulating ionization energy deposition by energetic ions in complex targets. <i>IEEE Transactions on Nuclear Science</i> , <b>2000</b> , 47, 2423-2427	1.7	2
12	A new silicon detector for microdosimetry applications in proton therapy. <i>IEEE Transactions on Nuclear Science</i> , <b>2000</b> , 47, 1386-1394	1.7	55
11	Measurement of radiotherapy x-ray skin dose on a chest wall phantom. <i>Medical Physics</i> , <b>2000</b> , 27, 1676-80	4.4	98
10	Semiconductor Microdosimetry in Mixed Radiation and Photon Fields: Present and Future. <i>Radiation Protection Dosimetry</i> , <b>1999</b> , 85, 385-388	0.9	10
9	Fission converter and metal-oxide-semiconductor field effect transistor study of thermal neutron flux distribution in an epithermal neutron therapy beam. <i>Medical Physics</i> , <b>1999</b> , 26, 1989-94	4.4	6
8	Performance of Silicon Microdosimetry Detectors in Boron Neutron Capture Therapy. <i>Radiation Research</i> , <b>1999</b> , 151, 235	3.1	28
7	Application of P-I-N Diodes and Mosfets for Dosimetry in Gamma and Neutron Radiation Fields. <i>Radiation Protection Dosimetry</i> , <b>1999</b> , 84, 349-352	0.9	8
6	Dose response of various radiation detectors to synchrotron radiation. <i>Physics in Medicine and Biology</i> , <b>1998</b> , 43, 3235-59	3.8	115
5	Charge collection and radiation hardness of a SOI microdosimeter for medical and space applications. <i>IEEE Transactions on Nuclear Science</i> , <b>1998</b> , 45, 2700-10	1.7	35
4	Tissue equivalence correction for silicon microdosimetry detectors in boron neutron capture therapy. <i>Medical Physics</i> , <b>1998</b> , 25, 2220-5	4.4	29
3	MOSFET dosimeters: the role of encapsulation on dosimetric characteristics in mixed gamma-neutron and megavoltage X-ray fields. <i>IEEE Transactions on Nuclear Science</i> , <b>1995</b> , 42, 1870-1877	1.7	45
2	. <i>IEEE Transactions on Nuclear Science</i> , <b>1994</b> , 41, 1009-1013	1.7	9
1	. <i>IEEE Transactions on Nuclear Science</i> , <b>1992</b> , 39, 1369-1370	1.7	