Anatoly B Rosenfeld

List of Publications by Citations

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	From PET detectors to PET scanners. *European Journal of Nuclear Medicine and Molecular Imaging*, **2003**, 30, 1574-97	8.8	149
444	Dose response of various radiation detectors to synchrotron radiation. *Physics in Medicine and Biology*, **1998**, 43, 3235-59	3.8	115
443	Measurement of radiotherapy x-ray skin dose on a chest wall phantom. *Medical Physics*, **2000**, 27, 1676-80	4.4	98
442	Total variation superiorization schemes in proton computed tomography image reconstruction. *Medical Physics*, **2010**, 37, 5887-95	4.4	91
441	Out-of-field dose equivalents delivered by proton therapy of prostate cancer. *Medical Physics*, **2007**, 34, 3449-56	4.4	89
440	Optical dating in archaeology: thirty years in retrospect and grand challenges for the future. *Journal of Archaeological Science*, **2015**, 56, 41-60	2.9	88
439	. *IEEE Transactions on Nuclear Science*, **2002**, 49, 2167-2171	1.7	87
438	MOSFET dosimetry for microbeam radiation therapy at the European Synchrotron Radiation Facility. *Medical Physics*, **2003**, 30, 583-9	4.4	85
437	Solid state microdosimetry. *Nuclear Instruments & Methods in Physics Research B*, **2001**, 184, 135-57	1.2	83
436	MOSFET dosimetry on modern radiation oncology modalities. *Radiation Protection Dosimetry*, **2002**, 101, 393-8	0.9	73
435	Medical physics aspects of the synchrotron radiation therapies: Microbeam radiation therapy (MRT) and synchrotron stereotactic radiotherapy (SSRT). *Physica Medica*, **2015**, 31, 568-83	2.7	71
434	Electronic dosimetry in radiation therapy. *Radiation Measurements*, **2006**, 41, S134-S153	1.5	65
433	Skin dosimetry with new MOSFET detectors. *Radiation Measurements*, **2008**, 43, 929-932	1.5	62
432	Characterization of a novel two dimensional diode array the "magic plate" as a radiation detector for radiation therapy treatment. *Medical Physics*, **2012**, 39, 2544-58	4.4	58
431	Assessment of out-of-field absorbed dose and equivalent dose in proton fields. *Medical Physics*, **2010**, 37, 311-21	4.4	56
430	A new silicon detector for microdosimetry applications in proton therapy. *IEEE Transactions on Nuclear Science*, **2000**, 47, 1386-1394	1.7	55
429	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. *Medical Physics*, **2010**, 37, 5208-17	4.4	50

428	In vivo real-time rectal wall dosimetry for prostate radiotherapy. *Physics in Medicine and Biology*, **2010**, 55, 3859-71	3.8	50
427	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, 2497-508	3.8	50
426	In vivo dosimetry: trends and prospects for brachytherapy. *British Journal of Radiology*, **2014**, 87, 20140206	3.4	48
425	A novel approach to postmastectomy radiation therapy using scanned proton beams. *International Journal of Radiation Oncology Biology Physics*, **2015**, 91, 427-34	4	48
424	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, 3549-59	4.4	47
423	Electron contamination modeling and skin dose in 6 MV longitudinal field MRIgRT: Impact of the MRI and MRI fringe field. *Medical Physics*, **2012**, 39, 874-90	4.4	46
422	A more accurate reconstruction system matrix for quantitative proton computed tomography. *Medical Physics*, **2009**, 36, 4511-8	4.4	46
421	Verification of the plan dosimetry for high dose rate brachytherapy using metal-oxide-semiconductor field effect transistor detectors. *Medical Physics*, **2007**, 34, 2007-13	4.4	46
420	Novel detectors for silicon based microdosimetry, their concepts and applications. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2016**, 809, 156-170	1.2	45
419	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	1.7	45
418	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	1.7	44
417	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	2.5	43
416	Monte Carlo study of the potential reduction in out-of-field dose using a patient-specific aperture in pencil beam scanning proton therapy. *Physics in Medicine and Biology*, **2012**, 57, 2829-42	3.8	42
415	Correction factors to convert microdosimetry measurements in silicon to tissue in C ion therapy. *Physics in Medicine and Biology*, **2017**, 62, 2055-2069	3.8	41
414	A two dimensional silicon detectors array for quality assurance in stereotactic radiotherapy: MagicPlate-512. *Medical Physics*, **2014**, 41, 091707	4.4	41
413	Absolute depth-dose-rate measurements for an 192Ir HDR brachytherapy source in water using MOSFET detectors. *Medical Physics*, **2006**, 33, 1532-9	4.4	41
412	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, 1098-105	6	40
411	Out-of-field dose equivalents delivered by passively scattered therapeutic proton beams for clinically relevant field configurations. *International Journal of Radiation Oncology Biology Physics*, **2009**, 73, 306-13	4	40

410	In vivo verification of superficial dose for head and neck treatments using intensity-modulated techniques. *Medical Physics*, **2009**, 36, 59-70	4.4	39
409	Software platform for simulation of a prototype proton CT scanner. *Medical Physics*, **2017**, 44, 1002-1016	4.4	38
408	Improved spatial resolution by MOSFET dosimetry of an x-ray microbeam. *Medical Physics*, **2000**, 27, 239-44	4.4	37
407	First proof of bismuth oxide nanoparticles as efficient radiosensitisers on highly radioresistant cancer cells. *Physica Medica*, **2016**, 32, 1444-1452	2.7	37
406	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	1.5	36
405	Synthesis-Dependent Surface Defects and Morphology of Hematite Nanoparticles and Their Effect on Cytotoxicity in Vitro. *ACS Applied Materials & Interfaces*, **2016**, 8, 5867-76	9.5	35
404	Charge collection and radiation hardness of a SOI microdosimeter for medical and space applications. *IEEE Transactions on Nuclear Science*, **1998**, 45, 2700-10	1.7	35
403	Synthesis of potential theranostic system consisting of methotrexate-immobilized (3-aminopropyl)trimethoxysilane coated □Bi2O3 nanoparticles for cancer treatment. *RSC Advances* , **2014**, 4, 24412	3.7	33
402	Characterization of proton pencil beam scanning and passive beam using a high spatial resolution solid-state microdosimeter. *Medical Physics*, **2017**, 44, 6085-6095	4.4	33
401	High-Z Nanostructured Ceramics in Radiotherapy: First Evidence of Ta2O5-Induced Dose Enhancement on Radioresistant Cancer Cells in an MV Photon Field. *Particle and Particle Systems Characterization*, **2014**, 31, 500-505	3.1	33
400	Microbeam radiation therapy: a Monte Carlo study of the influence of the source, multislit collimator, and beam divergence on microbeams. *Medical Physics*, **2009**, 36, 447-56	4.4	33
399	MOSFET dosimetry with high spatial resolution in intense synchrotron-generated x-ray microbeams. *Medical Physics*, **2009**, 36, 1128-37	4.4	33
398	The effect of rectal heterogeneity on wall dose in high dose rate brachytherapy. *Medical Physics*, **2009**, 36, 224-32	4.4	33
397	Surface dosimetry for breast radiotherapy in the presence of immobilization cast material. *Physics in Medicine and Biology*, **2011**, 56, 1001-13	3.8	32
396	Dosimetric verification of helical tomotherapy for total scalp irradiation. *Medical Physics*, **2008**, 35, 5061-8	4.4	32
395	Radiation Monitoring in Mixed Environments at CERN: From the IRRAD6 Facility to the LHC Experiments. *IEEE Transactions on Nuclear Science*, **2007**, 54, 1170-1177	1.7	32
394	Effect of a magnetic field on the track structure of low-energy electrons: a Monte Carlo study. *European Physical Journal D*, **2010**, 60, 85-92	1.3	31
393	Report on G4-Med, a Geant4 benchmarking system for medical physics applications developed by the Geant4 Medical Simulation Benchmarking Group. *Medical Physics*, **2021**, 48, 19-56	4.4	31

392	3D-Mesa Bridge Silicon Microdosimeter: Charge Collection Study and Application to RBE Studies in $^{12}{rm C}$ Radiation Therapy. *IEEE Transactions on Nuclear Science*, **2015**, 62, 504-511	1.7	30
391	X-Tream: a novel dosimetry system for Synchrotron Microbeam Radiation Therapy. *Journal of Instrumentation*, **2012**, 7, P07022-P07022	1	29
390	Tissue equivalence correction for silicon microdosimetry detectors in boron neutron capture therapy. *Medical Physics*, **1998**, 25, 2220-5	4.4	29
389	3D Silicon Microdosimetry and RBE Study Using $^{12}{rm C}$ Ion of Different Energies. *IEEE Transactions on Nuclear Science*, **2015**, 62, 3027-3033	1.7	28
388	Performance of Silicon Microdosimetry Detectors in Boron Neutron Capture Therapy. *Radiation Research*, **1999**, 151, 235	3.1	28
387	A real-time in vivo dosimetric verification method for high-dose rate intracavitary brachytherapy of nasopharyngeal carcinoma. *Medical Physics*, **2012**, 39, 6757-63	4.4	27
386	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. *Radiotherapy and Oncology*, **2016**, 118, 148-53	5.3	27
385	Absorbed dose-to-water protocol applied to synchrotron-generated x-rays at very high dose rates. *Physics in Medicine and Biology*, **2016**, 61, N349-61	3.8	27
384	Multichannel Data Acquisition System comparison for Quality Assurance in external beam radiation therapy. *Radiation Measurements*, **2014**, 71, 338-341	1.5	26
383	A silicon strip detector dose magnifying glass for IMRT dosimetry. *Medical Physics*, **2010**, 37, 427-39	4.4	26
382	Edge-on face-to-face MOSFET for synchrotron microbeam dosimetry: MC modeling. *IEEE Transactions on Nuclear Science*, **2005**, 52, 2562-2569	1.7	26
381	Characterization of MOSkin detector for in vivo skin dose measurement during megavoltage radiotherapy. *Journal of Applied Clinical Medical Physics*, **2014**, 15, 4869	2.3	24
380	Comparison of nanodosimetric parameters of track structure calculated by the Monte Carlo codes Geant4-DNA and PTra. *Physics in Medicine and Biology*, **2012**, 57, 1231-50	3.8	24
379	The feasibility study and characterization of a two-dimensional diode array in "magic phantom" for high dose rate brachytherapy quality assurance. *Medical Physics*, **2013**, 40, 111702	4.4	24
378	Evaluation of transmission methodology and attenuation correction for the microPET Focus 220 animal scanner. *Physics in Medicine and Biology*, **2006**, 51, 4003-16	3.8	24
377	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	9.3	24
376	Benchmarking and validation of a Geant4-SHADOW Monte Carlo simulation for dose calculations in microbeam radiation therapy. *Journal of Synchrotron Radiation*, **2014**, 21, 518-28	2.4	23
375	Dosimetry of intensive synchrotron microbeams. *Radiation Measurements*, **2011**, 46, 1560-1565	1.5	23

374	Nanodosimetry-based quality factors for radiation protection in space. *Zeitschrift Fur Medizinische Physik*, **2008**, 18, 286-96	7.6	23
373	Neutron dosimetry with planar silicon p-i-n diodes. *IEEE Transactions on Nuclear Science*, **2003**, 50, 2367-2372	1.7	23
372	Measurements in radiotherapy beams using on-line MOSFET detectors. *Radiation Protection Dosimetry*, **2002**, 101, 445-8	0.9	23
371	Local dose enhancement of proton therapy by ceramic oxide nanoparticles investigated with Geant4 simulations. *Physica Medica*, **2016**, 32, 1584-1593	2.7	23
370	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	4.4	22
369	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, 1581-8	4	22
368	The use of a silicon strip detector dose magnifying glass in stereotactic radiotherapy QA and dosimetry. *Medical Physics*, **2011**, 38, 1226-38	4.4	22
367	Solid state microdosimetry in hadron therapy. *Radiation Protection Dosimetry*, **2002**, 101, 431-4	0.9	22
366	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	2.7	21
365	Validation of Geant4 fragmentation for Heavy Ion Therapy. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2017**, 869, 68-75	1.2	21
364	A 2D silicon detector array for quality assurance in small field dosimetry: DUO. *Medical Physics*, **2017**, 44, 628-636	4.4	20
363	Electron track structure simulations in a gold nanoparticle using Geant4-DNA. *Physica Medica*, **2019**, 63, 98-104	2.7	20
362	MagicPlate-512: A 2D silicon detector array for quality assurance of stereotactic motion adaptive radiotherapy. *Medical Physics*, **2015**, 42, 2992-3004	4.4	20
361	A Cylindrical Silicon-on-Insulator Microdosimeter: Charge Collection Characteristics. *IEEE Transactions on Nuclear Science*, **2008**, 55, 3414-3420	1.7	20
360	Solid State Microdosimetry With Heavy Ions for Space Applications. *IEEE Transactions on Nuclear Science*, **2007**, 54, 2264-2271	1.7	20
359	Clinical application of MOSkin dosimeters to rectal wall in vivo dosimetry in gynecological HDR brachytherapy. *Physica Medica*, **2017**, 41, 5-12	2.7	19
358	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	1.7	19
357	Multifunctional Fe2O3/CeO2 nanocomposites for free radical scavenging ultraviolet protection. *RSC Advances*, **2016**, 6, 65397-65402	3.7	19

356	Large Area Silicon Microdosimeter for Dosimetry in High LET Space Radiation Fields: Charge Collection Study. *IEEE Transactions on Nuclear Science*, **2012**, 59, 3126-3132	1.7	19
355	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	3.8	19
354	X-Tream dosimetry of highly brilliant X-ray microbeams in the MRT hutch of the Australian Synchrotron. *Radiation Measurements*, **2017**, 106, 405-411	1.5	18
353	A novel high-resolution 2D silicon array detector for small field dosimetry with FFF photon beams. *Physica Medica*, **2018**, 45, 117-126	2.7	18
352	RBE estimation of proton radiation fields using a DeltaE-E telescope. *Medical Physics*, **2009**, 36, 4486-94	4.4	18
351	Tissue Equivalence Correction in Silicon Microdosimetry for Protons Characteristic of the LEO Space Environment. *IEEE Transactions on Nuclear Science*, **2008**, 55, 3407-3413	1.7	18
350	Thulium Oxide Nanoparticles: A new candidate for image-guided radiotherapy. *Biomedical Physics and Engineering Express*, **2018**, 4, 044001	1.5	17
349	The evaluation of a 2D diode array in "magic phantom" for use in high dose rate brachytherapy pretreatment quality assurance. *Medical Physics*, **2015**, 42, 663-73	4.4	17
348	BrachyView, a novel in-body imaging system for HDR prostate brachytherapy: Experimental evaluation. *Medical Physics*, **2015**, 42, 7098-107	4.4	17
347	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. *Radiation Protection Dosimetry*, **2010**, 138, 320-33	0.9	17
346	LET dependence of the charge collection efficiency of silicon microdosimeters. *IEEE Transactions on Nuclear Science*, **2003**, 50, 2373-2379	1.7	17
345	The role of nonelastic reactions in absorbed dose distributions from therapeutic proton beams in different medium. *Medical Physics*, **2005**, 32, 37-41	4.4	17
344	X-Tream quality assurance in synchrotron X-ray microbeam radiation therapy. *Journal of Synchrotron Radiation*, **2016**, 23, 1180-90	2.4	17
343	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	3.8	17
342	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	3.8	17
341	Development of a high resolution voxelised head phantom for medical physics applications. *Physica Medica*, **2017**, 33, 182-188	2.7	16
340	Optimizing dose enhancement with TaO nanoparticles for synchrotron microbeam activated radiation therapy. *Physica Medica*, **2016**, 32, 1852-1861	2.7	16
339	. *IEEE Transactions on Nuclear Science*, **2013**, 60, 4705-4712	1.7	16

338	Microdosimetric measurements of a clinical proton beam with micrometer-sized solid-state detector. *Medical Physics*, **2017**, 44, 6029-6037	4.4	16
337	Comparative evaluation of modern dosimetry techniques near low- and high-density heterogeneities. *Journal of Applied Clinical Medical Physics*, **2015**, 16, 142-158	2.3	16
336	Alpha particle and proton relative thermoluminescence efficiencies in LiF:Mg,Cu,P:is track structure theory up to the task?. *Radiation Protection Dosimetry*, **2012**, 150, 359-74	0.9	16
335	Study of the effect of ceramic TaO nanoparticle distribution on cellular dose enhancement in a kilovoltage photon field. *Physica Medica*, **2016**, 32, 1216-1224	2.7	16
334	X-ray microbeam measurements with a high resolution scintillator fibre-optic dosimeter. *Scientific Reports*, **2017**, 7, 12450	4.9	15
333	Real-time eye lens dose monitoring during cerebral angiography procedures. *European Radiology*, **2016**, 26, 79-86	8	15
332	Highly porous hematite nanorods prepared via direct spray precipitation method. *Materials Letters*, **2014**, 117, 279-282	3.3	15
331	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, 856-65	4.4	15
330	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	2.4	15
329	Geant4 simulation of the CERN-EU high-energy reference field (CERF) facility. *Radiation Protection Dosimetry*, **2010**, 141, 106-13	0.9	15
328	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	1.2	15
327	High-resolution fiber-optic dosimeters for microbeam radiation therapy. *Medical Physics*, **2017**, 44, 1965-1968	4.4	14
326	CyberKnife fixed cone and Iris□defined small radiation fields: Assessment with a high-resolution solid-state detector array. *Journal of Applied Clinical Medical Physics*, **2018**, 19, 547-557	2.3	14
325	A comparative analysis of multichannel Data Acquisition Systems for quality assurance in external beam radiation therapy. *Journal of Instrumentation*, **2014**, 9, T06003-T06003	1	14
324	BrachyView: proof-of-principle of a novel in-body gamma camera for low dose-rate prostate brachytherapy. *Medical Physics*, **2013**, 40, 041709	4.4	14
323	RBE study using solid state microdosimetry in heavy ion therapy. *Radiation Measurements*, **2017**, 106, 512-518	1.5	13
322	High spatial resolution scintillator dosimetry of synchrotron microbeams. *Scientific Reports*, **2019**, 9, 6873	4.9	13
321	Semiconductor dosimetry in modern external-beam radiation therapy. *Physics in Medicine and Biology*, **2020**, 65, 16TR01	3.8	13

320	Characterisation and evaluation of a PNP strip detector for synchrotron microbeam radiation therapy. *Biomedical Physics and Engineering Express*, **2018**, 4, 044002	1.5	13
319	Comparison of phantom materials for use in quality assurance of microbeam radiation therapy. *Journal of Synchrotron Radiation*, **2017**, 24, 866-876	2.4	13
318	Real-time in vivo rectal wall dosimetry using MOSkin detectors during linac based stereotactic radiotherapy with rectal displacement. *Radiation Oncology*, **2017**, 12, 41	4.2	13
317	Thermoluminescence solid-state nanodosimetry--the peak 5A/5 dosemeter. *Radiation Protection Dosimetry*, **2011**, 143, 416-26	0.9	13
316	Characterization of a Novel Diamond-Based Microdosimeter Prototype for Radioprotection Applications in Space Environments. *IEEE Transactions on Nuclear Science*, **2012**, 59, 3110-3116	1.7	13
315	Design and simulation of continuous scintillator with pixellated photodetector. *IEEE Transactions on Nuclear Science*, **2001**, 48, 1412-1417	1.7	13
314	A 3D lateral electrode structure for diamond based microdosimetry. *Applied Physics Letters*, **2017**, 110, 013503	3.4	12
313	Synchrotron X-ray microbeam dosimetry with a 20 micrometre resolution scintillator fibre-optic dosimeter. *Journal of Synchrotron Radiation*, **2018**, 25, 826-832	2.4	12
312	TRUS-probe integrated MOSkin detectors for rectal wall in vivo dosimetry in HDR brachytherapy: In phantom feasibility study. *Radiation Measurements*, **2014**, 71, 379-383	1.5	12
311	BrachyView, a novel inbody imaging system for HDR prostate brachytherapy: design and Monte Carlo feasibility study. *Medical Physics*, **2013**, 40, 071715	4.4	12
310	Megavoltage cone beam CT near surface dose measurements: potential implications for breast radiotherapy. *Medical Physics*, **2011**, 38, 6222-7	4.4	12
309	Tissue equivalency of phantom materials for neutron dosimetry in proton therapy. *Medical Physics*, **2009**, 36, 5412-9	4.4	12
308	Opportunistic dose amplification for proton and carbon ion therapy via capture of internally generated thermal neutrons. *Scientific Reports*, **2018**, 8, 16257	4.9	12
307	Biocompatible Bi(OH)3 nanoparticles with reduced photocatalytic activity as possible ultraviolet filter in sunscreens. *Materials Research Bulletin*, **2018**, 108, 130-141	5.1	12
306	"Characterization of ELEKTA SRS cone collimator using high spatial resolution monolithic silicon detector array". *Journal of Applied Clinical Medical Physics*, **2018**, 19, 114-124	2.3	12
305	Toward personalized synchrotron microbeam radiation therapy. *Scientific Reports*, **2020**, 10, 8833	4.9	11
304	Semiconductor real-time quality assurance dosimetry in brachytherapy. *Brachytherapy*, **2018**, 17, 133-145	2.4	11
303	In-field and out-of-file application in 12C ion therapy using fully 3D silicon microdosimeters. *Radiation Measurements*, **2018**, 115, 55-59	1.5	11

302	3D Radiation Detectors: Charge Collection Characterisation and Applicability of Technology for Microdosimetry. *IEEE Transactions on Nuclear Science*, **2014**, 61, 1537-1543	1.7	11
301	Engineering of Bismuth Oxide Nanoparticles to Induce Differential Biochemical Activity in Malignant and Nonmalignant Cells. *Particle and Particle Systems Characterization*, **2014**, 31, 960-964	3.1	11
300	Direct and pulsed current annealing of p-MOSFET based dosimeter: the "MOSkin". *Australasian Physical and Engineering Sciences in Medicine*, **2014**, 37, 311-9	1.9	11
299	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	1.7	11
298	Angular independent silicon detector for dosimetry in external beam radiotherapy. *Medical Physics*, **2015**, 42, 4708-18	4.4	11
297	Thin silicon strip detectors for beam monitoring in Micro-beam Radiation Therapy. *Journal of Instrumentation*, **2015**, 10, P11007-P11007	1	11
296	Nanoscale characterization of ion tracks: MC simulations versus analytical approach. *European Physical Journal D*, **2012**, 66, 1	1.3	11
295	Mysteries of LiF TLD response following high ionisation density irradiation: nanodosimetry and track structure theory, dose response and glow curve shapes. *Radiation Protection Dosimetry*, **2011**, 145, 356-72	0.9	11
294	Geometrical optimization of a particle tracking system for proton computed tomography. *Radiation Measurements*, **2011**, 46, 2069-2072	1.5	11
293	Cylindrical Silicon-on-Insulator Microdosimeter: Design, Fabrication and TCAD Modeling. *IEEE Transactions on Nuclear Science*, **2009**, 56, 424-428	1.7	11
292	Endo-rectal balloon cavity dosimetry in a phantom: performance under IMRT and helical tomotherapy beams. *Radiotherapy and Oncology*, **2009**, 92, 48-56	5.3	11
291	Effect of transverse magnetic fields on dose distribution and RBE of photon beams: comparing PENELOPE and EGS4 Monte Carlo codes. *Physics in Medicine and Biology*, **2008**, 53, 5123-37	3.8	11
290	SOI microdosemetry for mixed field radiation protection. *Radiation Measurements*, **2008**, 43, 1054-1058	1.5	11
289	Verification of Monte Carlo calculations in fast neutron therapy using silicon microdosimetry. *IEEE Transactions on Nuclear Science*, **2004**, 51, 873-877	1.7	11
288	Tunable pinning effects produced by non-uniform antidot arrays in YBCO thin films. *Annalen Der Physik*, **2017**, 529, 1600283	2.6	10
287	BrachyView: Combining LDR seed positions with transrectal ultrasound imaging in a prostate gel phantom. *Physica Medica*, **2017**, 34, 55-64	2.7	10
286	Temporally separating Cherenkov radiation in a scintillator probe exposed to a pulsed X-ray beam. *Physica Medica*, **2017**, 42, 185-188	2.7	10
285	The microdosimetric extension in TOPAS: development and comparison with published data. *Physics in Medicine and Biology*, **2019**, 64, 145004	3.8	10

284	In vivo skin dose measurement using MOSkin detectors in tangential breast radiotherapy. *Physica Medica*, **2016**, 32, 1466-1474	2.7	10
283	A Novel Silicon Microdosimeter Using 3D Sensitive Volumes: Modeling the Response in Neutron Fields Typical of Aviation. *IEEE Transactions on Nuclear Science*, **2014**, 61, 1552-1557	1.7	10
282	Tissue Equivalence Study of a Novel Diamond-Based Microdosimeter for Galactic Cosmic Rays and Solar Particle Events. *IEEE Transactions on Nuclear Science*, **2014**, 61, 1544-1551	1.7	10
281	Particle tracking with a Timepix based triple GEM detector. *Journal of Instrumentation*, **2015**, 10, P11003-P11003	1	10
280	A comparison of X-ray and proton beam low energy secondary electron track structures using the low energy models of Geant4. *International Journal of Radiation Biology*, **2012**, 88, 164-70	2.9	10
279	Miniature semiconductor detectors for in vivo dosimetry. *Radiation Protection Dosimetry*, **2006**, 120, 48-55	0.9	10
278	Analysis of inelastic interactions for therapeutic proton beams using Monte Carlo simulation. *IEEE Transactions on Nuclear Science*, **2004**, 51, 3019-3025	1.7	10
277	In vivo dosimetry and seed localization in prostate brachytherapy with permanent implants. *IEEE Transactions on Nuclear Science*, **2004**, 51, 3013-3018	1.7	10
276	Semiconductor Microdosimetry in Mixed Radiation and Photon Fields: Present and Future. *Radiation Protection Dosimetry*, **1999**, 85, 385-388	0.9	10
275	Attenuation of UV absorption by poly(lactic acid)-iron oxide nanocomposite particles and their potential application in sunscreens. *Chemical Engineering Journal*, **2021**, 405, 126843	14.7	10
274	First in vitro evidence of modulated electro-hyperthermia treatment performance in combination with megavoltage radiation by clonogenic assay. *Scientific Reports*, **2018**, 8, 16608	4.9	10
273	High toxicity of Bi(OH) and □BiO nanoparticles towards malignant 9L and MCF-7 cells. *Materials Science and Engineering C*, **2018**, 93, 958-967	8.3	10
272	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	2.4	9
271	Characterization of a MOSkin detector for in vivo skin dose measurements during interventional radiology procedures. *Medical Physics*, **2015**, 42, 2550-8	4.4	9
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