

Michael L F Lerch

List of Publications by Year in descending order

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272
papers

3,892
citations

126907

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45
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274
all docs

274
docs citations

274
times ranked

2986
citing authors

#	ARTICLE	IF	CITATIONS
1	A Simple Colloidal Route to Nanocrystalline ZnO/CuInS ₂ Bilayers. <i>Advanced Materials</i> , 1999, 11, 643-646.	21.0	99
2	MOSFET dosimetry for microbeam radiation therapy at the European Synchrotron Radiation Facility. <i>Medical Physics</i> , 2003, 30, 583-589.	3.0	93
3	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.	0.7	83
4	Skin dosimetry with new MOSFET detectors. <i>Radiation Measurements</i> , 2008, 43, 929-932.	1.4	78
5	Observation of intrinsic tristability in a resonant tunneling structure. <i>Applied Physics Letters</i> , 1994, 64, 1248-1250.	3.3	63
6	Characterization of a novel two dimensional diode array the "magic plate" as a radiation detector for radiation therapy treatment. <i>Medical Physics</i> , 2012, 39, 2544-2558.	3.0	63
7	First proof of bismuth oxide nanoparticles as efficient radiosensitisers on highly radioresistant cancer cells. <i>Physica Medica</i> , 2016, 32, 1444-1452.	0.7	61
8	Correction factors to convert microdosimetry measurements in silicon to tissue in ¹² C ion therapy. <i>Physics in Medicine and Biology</i> , 2017, 62, 2055-2069.	3.0	61
9	Verification of the plan dosimetry for high dose rate brachytherapy using metal-oxide semiconductor field effect transistor detectors. <i>Medical Physics</i> , 2007, 34, 2007-2013.	3.0	59
10	A lectin affinity workflow targeting glycosite-specific, cancer-related carbohydrate structures in trypsin-digested human plasma. <i>Analytical Biochemistry</i> , 2011, 408, 71-85.	2.4	59
11	Characterization of proton pencil beam scanning and passive beam using a high spatial resolution solid-state microdosimeter. <i>Medical Physics</i> , 2017, 44, 6085-6095.	3.0	53
12	FILIB++, a fast interval library supporting containment computations. <i>ACM Transactions on Mathematical Software</i> , 2006, 32, 299-324.	2.9	51
13	<i>In vivo</i> real-time rectal wall dosimetry for prostate radiotherapy. <i>Physics in Medicine and Biology</i> , 2010, 55, 3859-3871.	3.0	51
14	Feasibility study of online high-spatial-resolution MOSFET dosimetry in static and pulsed x-ray radiation fields. <i>IEEE Transactions on Nuclear Science</i> , 2001, 48, 2061-2068.	2.0	50
15	<i>In vivo</i> verification of superficial dose for head and neck treatments using intensity-modulated techniques. <i>Medical Physics</i> , 2009, 36, 59-70.	3.0	50
16	Cerium oxide nanoparticles: influence of the high-Z component revealed on radioresistant 9L cell survival under X-ray irradiation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 1098-1105.	3.3	49
17	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.	1.2	47
18	A two dimensional silicon detectors array for quality assurance in stereotactic radiotherapy: MagicPlate ⁵¹² . <i>Medical Physics</i> , 2014, 41, 091707.	3.0	45

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19	Synthesis-Dependent Surface Defects and Morphology of Hematite Nanoparticles and Their Effect on Cytotoxicity in Vitro. ACS Applied Materials & Interfaces, 2016, 8, 5867-5876.	8.0	41
20	Microbeam radiation therapy: A Monte Carlo study of the influence of the source, multislit collimator, and beam divergence on microbeams. Medical Physics, 2009, 36, 447-456.	3.0	39
21	Radiation Monitoring in Mixed Environments at CERN: From the IRRAD6 Facility to the LHC Experiments. IEEE Transactions on Nuclear Science, 2007, 54, 1170-1177.	2.0	38
22	MOSFET dosimetry with high spatial resolution in intense synchrotron-generated x-ray microbeams. Medical Physics, 2009, 36, 1128-1137.	3.0	38
23	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. Particle and Particle Systems Characterization, 2014, 31, 500-505.	2.3	38
24	Synthesis of potential theranostic system consisting of methotrexate-immobilized (3-aminopropyl)trimethoxysilane coated In_2S_3 -Bi ₂ O ₃ nanoparticles for cancer treatment. RSC Advances, 2014, 4, 24412.	3.6	38
25	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
26	Technical advances in x-ray microbeam radiation therapy. Physics in Medicine and Biology, 2020, 65, 02TR01.	3.0	38
27	3D-Mesa μC -Silicon Microdosimeter: Charge Collection Study and Application to RBE Studies in ^{12}C Radiation Therapy. IEEE Transactions on Nuclear Science, 2015, 62, 504-511.	2.0	37
28	The effect of rectal heterogeneity on wall dose in high dose rate brachytherapy. Medical Physics, 2009, 36, 224-232.	3.0	36
29	X-Tream: a novel dosimetry system for Synchrotron Microbeam Radiation Therapy. Journal of Instrumentation, 2012, 7, P07022-P07022.	1.2	36
30	Absorbed dose-to-water protocol applied to synchrotron-generated x-rays at very high dose rates. Physics in Medicine and Biology, 2016, 61, N349-N361.	3.0	36
31	MOSFET dosimetry of an X-ray microbeam. IEEE Transactions on Nuclear Science, 1999, 46, 1774-1780.	2.0	35
32	Plasmon assisted resonant tunneling in a double barrier heterostructure. Physical Review Letters, 1994, 72, 3397-3400.	7.8	34
33	3D Silicon Microdosimetry and RBE Study Using ^{12}C Ion of Different Energies. IEEE Transactions on Nuclear Science, 2015, 62, 3027-3033.	2.0	34
34	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
35	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, 148-153.	0.6	33
36	Toward personalized synchrotron microbeam radiation therapy. Scientific Reports, 2020, 10, 8833.	3.3	31

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37	ZnO/CeO ₂ nanocomposite with low photocatalytic activity as efficient UV filters. <i>Journal of Materials Science</i> , 2020, 55, 6834-6847.	3.7	31
38	A silicon strip detector dose magnifying glass for IMRT dosimetry. <i>Medical Physics</i> , 2010, 37, 427-439.	3.0	30
39	Dosimetry of intensive synchrotron microbeams. <i>Radiation Measurements</i> , 2011, 46, 1560-1565.	1.4	29
40	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.	3.0	29
41	Online <i>in vivo</i> dosimetry in high dose rate prostate brachytherapy with MOSkin detectors: In phantom feasibility study. <i>Applied Radiation and Isotopes</i> , 2014, 83, 222-226.	1.5	29
42	Multichannel Data Acquisition System comparison for Quality Assurance in external beam radiation therapy. <i>Radiation Measurements</i> , 2014, 71, 338-341.	1.4	29
43	BrachyView, a novel <i>in-body</i> imaging system for HDR prostate brachytherapy: Experimental evaluation. <i>Medical Physics</i> , 2015, 42, 7098-7107.	3.0	29
44	Unusual polyoxygenated sterols from a Philippines sponge <i>Xestospongia</i> sp.. <i>Tetrahedron</i> , 2001, 57, 4091-4094.	1.9	28
45	Edge-on face-to-face MOSFET for synchrotron microbeam dosimetry: MC modeling. <i>IEEE Transactions on Nuclear Science</i> , 2005, 52, 2562-2569.	2.0	28
46	The feasibility study and characterization of a two-dimensional diode array in a <i>œmagnetic phantom</i> for high dose rate brachytherapy quality assurance. <i>Medical Physics</i> , 2013, 40, 111702.	3.0	28
47	Benchmarking and validation of a <i>Geant4</i> "SHADOW" Monte Carlo simulation for dose calculations in microbeam radiation therapy. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 518-528.	2.4	28
48	Local dose enhancement of proton therapy by ceramic oxide nanoparticles investigated with <i>Geant4</i> simulations. <i>Physica Medica</i> , 2016, 32, 1584-1593.	0.7	28
49	Microdosimetric measurements of a clinical proton beam with micrometer-sized solid-state detector. <i>Medical Physics</i> , 2017, 44, 6029-6037.	3.0	28
50	Clinical application of MOSkin dosimeters to rectal wall <i>in vivo</i> dosimetry in gynecological HDR brachytherapy. <i>Physica Medica</i> , 2017, 41, 5-12.	0.7	27
51	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> , 2018, 65, 467-472.	2.0	27
52	Neutron dosimetry with planar silicon p-i-n diodes. <i>IEEE Transactions on Nuclear Science</i> , 2003, 50, 2367-2372.	2.0	25
53	Potential High Resolution Dosimeters For MRT. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	25
54	Real-Time <i>In Vivo</i> Dosimetry With MOSFET Detectors in Serial Tomotherapy for Head and Neck Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 80, 1581-1588.	0.8	25

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55	Chemical stability of Sb ₂ Te ₃ back contacts to CdS/CdTe solar cells. <i>Thin Solid Films</i> , 2000, 361-362, 383-387.	1.8	24
56	The use of a silicon strip detector dose magnifying glass in stereotactic radiotherapy QA and dosimetry. <i>Medical Physics</i> , 2011, 38, 1226-1238.	3.0	24
57	A 2D silicon detector array for quality assurance in small field dosimetry: <scp>DUO</scp>. <i>Medical Physics</i> , 2017, 44, 628-636.	3.0	24
58	High spatial resolution scintillator dosimetry of synchrotron microbeams. <i>Scientific Reports</i> , 2019, 9, 6873.	3.3	24
59	Influence of polarization and a source model for dose calculation in MRT. <i>Medical Physics</i> , 2014, 41, 041703.	3.0	23
60	Semiconductor dosimetry in modern external-beam radiation therapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 16TR01.	3.0	23
61	Study of the effect of ceramic Ta ₂ O ₅ nanoparticle distribution on cellular dose enhancement in a kilovoltage photon field. <i>Physica Medica</i> , 2016, 32, 1216-1224.	0.7	22
62	Comparison of phantom materials for use in quality assurance of microbeam radiation therapy. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 866-876.	2.4	22
63	MagicPlate-512: A 2D silicon detector array for quality assurance of stereotactic motion adaptive radiotherapy. <i>Medical Physics</i> , 2015, 42, 2992-3004.	3.0	21
64	Optimizing dose enhancement with Ta ₂ O ₅ nanoparticles for synchrotron microbeam activated radiation therapy. <i>Physica Medica</i> , 2016, 32, 1852-1861.	0.7	21
65	Real-time eye lens dose monitoring during cerebral angiography procedures. <i>European Radiology</i> , 2016, 26, 79-86.	4.5	21
66	X-Tream quality assurance in synchrotron X-ray microbeam radiation therapy. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1180-1190.	2.4	21
67	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.	0.8	20
68	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.	2.0	20
69	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.	3.0	20
70	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.	1.4	20
71	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.	1.2	19
72	Thulium Oxide Nanoparticles: A new candidate for image-guided radiotherapy. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 044001.	1.2	19

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73	Na-doped ZnO UV filters with reduced photocatalytic activity for sunscreen applications. Journal of Materials Science, 2020, 55, 2772-2786.	3.7	19
74	Evaluation of the PTW microDiamond in edge-on orientation for dosimetry in small fields. Journal of Applied Clinical Medical Physics, 2020, 21, 278-288.	1.9	19
75	Characterization of an Innovative p-type Epitaxial Diode for Dosimetry in Modern External Beam Radiotherapy. IEEE Transactions on Nuclear Science, 2013, 60, 4705-4712.	2.0	18
76	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.	1.5	18
77	Advances in modelling gold nanoparticle radiosensitization using new Geant4-DNA physics models. Physics in Medicine and Biology, 2020, 65, 225017.	3.0	18
78	Characterization of a Novel Diamond-Based Microdosimeter Prototype for Radioprotection Applications in Space Environments. IEEE Transactions on Nuclear Science, 2012, 59, 3110-3116.	2.0	17
79	BrachyView: Proof-of-principle of a novel in-body gamma camera for low dose-rate prostate brachytherapy. Medical Physics, 2013, 40, 041709.	3.0	17
80	Direct and pulsed current annealing of p-MOSFET based dosimeter: the "eMOSkin". Australasian Physical and Engineering Sciences in Medicine, 2014, 37, 311-319.	1.3	17
81	X-ray microbeam measurements with a high resolution scintillator fibre-optic dosimeter. Scientific Reports, 2017, 7, 12450.	3.3	17
82	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
83	Highly porous hematite nanorods prepared via direct spray precipitation method. Materials Letters, 2014, 117, 279-282.	2.6	16
84	Angular independent silicon detector for dosimetry in external beam radiotherapy. Medical Physics, 2015, 42, 4708-4718.	3.0	16
85	High-resolution fiber-optic dosimeters for microbeam radiation therapy. Medical Physics, 2017, 44, 1965-1968.	3.0	16
86	Characterisation and evaluation of a PNP strip detector for synchrotron microbeam radiation therapy. Biomedical Physics and Engineering Express, 2018, 4, 044002.	1.2	16
87	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
88	A new technique for directly probing the intrinsic tristability and its temperature dependence in a resonant tunneling diode. Solid-State Electronics, 1994, 37, 961-964.	1.4	15
89	Design and simulation of continuous scintillator with pixellated photodetector. IEEE Transactions on Nuclear Science, 2001, 48, 1412-1417.	2.0	15
90	3D Radiation Detectors: Charge Collection Characterisation and Applicability of Technology for Microdosimetry. IEEE Transactions on Nuclear Science, 2014, 61, 1537-1543.	2.0	15

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91	A 3D lateral electrode structure for diamond based microdosimetry. Applied Physics Letters, 2017, 110, .	3.3	15
92	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
93	Characterization of ELEKTA SRS cone collimator using high spatial resolution monolithic silicon detector array. Journal of Applied Clinical Medical Physics, 2018, 19, 114-124.	1.9	15
94	Synchrotron X-ray microbeam dosimetry with a 20 μm resolution scintillator fibre-optic dosimeter. Journal of Synchrotron Radiation, 2018, 25, 826-832.	2.4	15
95	In-field and out-of-field application in ¹² C ion therapy using fully 3D silicon microdosimeters. Radiation Measurements, 2018, 115, 55-59.	1.4	15
96	Characterization of an organic semiconductor diode for dosimetry in radiotherapy. Medical Physics, 2020, 47, 3658-3668.	3.0	15
97	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.	5.8	15
98	Engineering of Bismuth Oxide Nanoparticles to Induce Differential Biochemical Activity in Malignant and Nonmalignant Cells. Particle and Particle Systems Characterization, 2014, 31, 960-964.	2.3	14
99	RBE study using solid state microdosimetry in heavy ion therapy. Radiation Measurements, 2017, 106, 512-518.	1.4	14
100	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
101	In vivo dosimetry and seed localization in prostate brachytherapy with permanent implants. IEEE Transactions on Nuclear Science, 2004, 51, 3013-3018.	2.0	13
102	BrachyView, A novel inbody imaging system for HDR prostate brachytherapy: Design and Monte Carlo feasibility study. Medical Physics, 2013, 40, 071715.	3.0	13
103	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.	2.0	13
104	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.	2.0	13
105	SOI Thin Microdosimeter Detectors for Low-Energy Ions and Radiation Damage Studies. IEEE Transactions on Nuclear Science, 2019, 66, 320-326.	2.0	13
106	Characterization of a plastic dosimeter based on organic semiconductor photodiodes and scintillator. Physics and Imaging in Radiation Oncology, 2020, 14, 48-52.	2.9	13
107	Miniature semiconductor detectors for in vivo dosimetry. Radiation Protection Dosimetry, 2006, 120, 48-55.	0.8	12
108	TRUS-probe integrated MOSkin detectors for rectal wall in vivo dosimetry in HDR brachytherapy: In phantom feasibility study. Radiation Measurements, 2014, 71, 379-383.	1.4	12

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109	A new virtual ring-based system matrix generator for iterative image reconstruction in high resolution small volume PET systems. <i>Physics in Medicine and Biology</i> , 2015, 60, 6949-6973.	3.0	12
110	BrachyView: Combining LDR seed positions with transrectal ultrasound imaging in a prostate gel phantom. <i>Physica Medica</i> , 2017, 34, 55-64.	0.7	12
111	Technical Note: Angular dependence of a 2D monolithic silicon diode array for small field dosimetry. <i>Medical Physics</i> , 2017, 44, 4313-4321.	3.0	12
112	Semiconductor real-time quality assurance dosimetry in brachytherapy. <i>Brachytherapy</i> , 2018, 17, 133-145.	0.5	12
113	TiO ₂ /(BiO) ₂ CO ₃ nanocomposites for ultraviolet filtration with reduced photocatalytic activity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5639-5650.	5.5	12
114	Nano-sunscreens – a double-edged sword in protecting consumers from harm: viewing Australian regulatory policies through the lenses of the European Union. <i>Critical Reviews in Toxicology</i> , 2019, 49, 122-139.	3.9	12
115	Medipix detectors in radiation therapy for advanced quality-assurance. <i>Radiation Measurements</i> , 2020, 130, 106211.	1.4	12
116	Flexible Polymer X-ray Detectors with Non-fullerene Acceptors for Enhanced Stability: Toward Printable Tissue Equivalent Devices for Medical Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57703-57712.	8.0	12
117	Spectral characterization of a blue-enhanced silicon photodetector. <i>IEEE Transactions on Nuclear Science</i> , 2001, 48, 1220-1224.	2.0	11
118	Thin silicon strip detectors for beam monitoring in Micro-beam Radiation Therapy. <i>Journal of Instrumentation</i> , 2015, 10, P11007-P11007.	1.2	11
119	High spatial resolution microdosimetry with monolithic E-E detector on A12C beam: Monte Carlo simulations and experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 887, 70-80.	1.6	11
120	First in vitro evidence of modulated electro-hyperthermia treatment performance in combination with megavoltage radiation by clonogenic assay. <i>Scientific Reports</i> , 2018, 8, 16608.	3.3	11
121	Validation of Geant4 for silicon microdosimetry in heavy ion therapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 045014.	3.0	11
122	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> , 2020, 67, 146-153.	2.0	11
123	Radiation Shielding Evaluation of Spacecraft Walls Against Heavy Ions Using Microdosimetry. <i>IEEE Transactions on Nuclear Science</i> , 2021, 68, 897-905.	2.0	11
124	A system for radiation damage monitoring. <i>IEEE Transactions on Nuclear Science</i> , 1999, 46, 1766-1773.	2.0	10
125	Three-dimensional dosimetry imaging of I-125 plaque for eye cancer treatment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 633, S276-S278.	1.6	10
126	Radiation dose enhancement at tissue-tungsten interfaces in HDR brachytherapy. <i>Physics in Medicine and Biology</i> , 2014, 59, 6659-6659.	3.0	10

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127	A Liquid Chromatography System for Measurement of Organic Acids in Precipitation. International Journal of Environmental Analytical Chemistry, 1989, 35, 149-159.	3.3	9
128	Performance evaluation of a multipinhole small animal SPECT system. , 2003, , .		9
129	Studies of the Characteristics of a Silicon Neutron Sensor. IEEE Transactions on Nuclear Science, 2009, 56, 2290-2293.	2.0	9
130	A convenient verification method of the entrance photo-neutron dose for an 18ÂMV medical linac using silicon p-i-n diodes. Radiation Measurements, 2017, 106, 391-398.	1.4	9
131	On the Combined Effect of Silicon Oxide Thickness and Boron Implantation Under the Gate in MOSFET Dosimeters. IEEE Transactions on Nuclear Science, 2020, 67, 534-540.	2.0	9
132	A Solid-State Microdosimeter for Dose and Radiation Quality Monitoring for Astronauts in Space. IEEE Transactions on Nuclear Science, 2020, 67, 169-174.	2.0	9
133	Fast and accurate dose predictions for novel radiotherapy treatments in heterogeneous phantoms using conditional 3Dâ€Net generative adversarial networks. Medical Physics, 2022, 49, 3389-3404.	3.0	9
134	Silicon 3D Microdosimeters for Advanced Quality Assurance in Particle Therapy. Applied Sciences (Switzerland), 2022, 12, 328.	2.5	9
135	From imaging to dosimetry: GEANT4-based study on the application of Medipix to neutron dosimetry. Radiation Measurements, 2010, 45, 1355-1358.	1.4	8
136	Independent quality assurance of a helical tomotherapy machine using the dose magnifying glass. Medical Physics, 2011, 38, 2256-2264.	3.0	8
137	Structural Insights into the Dynamic Process of Î²2-Adrenergic Receptor Signaling. Cell, 2015, 162, 1431.	28.9	8
138	Beam perturbation characteristics of a 2D transmission silicon diode array, Magic Plate. Journal of Applied Clinical Medical Physics, 2016, 17, 85-98.	1.9	8
139	Thermoluminescence dose response of photon irradiated NaCl: Unified interaction model analysis of the dependence of the supralinearity on photon energy. Radiation Measurements, 2017, 106, 455-458.	1.4	8
140	New 3D Silicon detectors for dosimetry in Microbeam Radiation Therapy. Journal of Physics: Conference Series, 2017, 777, 012009.	0.4	8
141	Time-of-flight spectrometry of ultra-short, polyenergetic proton bunches. Review of Scientific Instruments, 2018, 89, 123302.	1.3	8
142	Tissue equivalence of diamond for heavy charged particles. Radiation Measurements, 2019, 122, 1-9.	1.4	8
143	Study of the X-ray radiation interaction with a multislit collimator for the creation of microbeams in radiation therapy. Journal of Synchrotron Radiation, 2021, 28, 392-403.	2.4	8
144	Intraoperative solid-state based urethral dosimetry in low dose rate prostate brachytherapy. IEEE Transactions on Nuclear Science, 2006, 53, 1408-1412.	2.0	7

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145	Evaluation of pixellated, back-sided planar photodetectors for high-resolution imaging instrumentation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 589, 259-267.	1.6	7
146	Fe-Al interface intermixing and the role of Ti, V, and Zr as a stabilizing interlayer at the interface. Journal of Applied Physics, 2009, 105, 053504.	2.5	7
147	Structure of ultra-thin Ti film on the Al(001) surface. Surface Science, 2010, 604, 988-995.	1.9	7
148	Dosimetry verification in eye brachytherapy using silicon pixelated detectors. Radiation Measurements, 2011, 46, 2010-2013.	1.4	7
149	Characterization of an Alternative Diamond Based Microdosimeter Prototype. IEEE Transactions on Nuclear Science, 2014, 61, 3479-3484.	2.0	7
150	Initial experiments with gel-water: towards MRI-linac dosimetry and imaging. Australasian Physical and Engineering Sciences in Medicine, 2016, 39, 921-932.	1.3	7
151	Characterisation of Silicon Diode Arrays for Dosimetry in External Beam Radiation Therapy. IEEE Transactions on Nuclear Science, 2016, 63, 1808-1817.	2.0	7
152	Synchrotron activation radiotherapy: Effects of dose-rate and energy spectra to tantalum oxide nanoparticles selective tumour cell radiosensitization enhancement. Journal of Physics: Conference Series, 2017, 777, 012011.	0.4	7
153	Optimisation of output factor measurements using the Magic Plate 512 silicon dosimeter array in small megavoltage photon fields. Journal of Physics: Conference Series, 2017, 777, 012022.	0.4	7
154	Nanostructures, concentrations and energies: an ideal equation to extend therapeutic efficiency on radioresistant 9L tumor cells using Ta_2O_5 ceramic nanostructured particles. Biomedical Physics and Engineering Express, 2017, 3, 015018.	1.2	7
155	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
156	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
157	CoALA-SPECT: a coded aperture laboratory animal SPECT system for pre clinical imaging. , 0, , .		6
158	Application of semiconductors for dosimetry of fast-neutron therapy beam. Radiation Protection Dosimetry, 2004, 110, 573-578.	0.8	6
159	Characterisation of a ^{18}F particle telescope using the ANSTO heavy ion microprobe. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 270-275.	1.4	6
160	A Lectin HPLC Method to Enrich Selectively-glycosylated Peptides from Complex Biological Samples. Journal of Visualized Experiments, 2009, , .	0.3	6
161	BrachyView: A novel in-body imaging system for prostate brachytherapy. , 2011, , .		6
162	Ultra-Thin 3-D Detector: Charge Collection Characterization and Application for Microdosimetry. IEEE Transactions on Nuclear Science, 2014, 61, 3472-3478.	2.0	6

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