Michael P R Waligorski

List of Publications by Year
in descending order

106 papers	1,723 citations	331259 21 h-index	315357 38 g-index
114 all docs	114 docs citations	114 times ranked	1332 citing authors

#	Article	IF	Citations
1	The radial distribution of dose around the path of a heavy ion in liquid water. International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements, 1986, 11, 309-319.	0.6	443
2	The updated ESTRO core curricula 2011 for clinicians, medical physicists and RTTs in radiotherapy/radiation oncology. Radiotherapy and Oncology, 2012, 103, 103-108.	0.3	81
3	Calculation of relative biological effectiveness for proton beams using biological weighting functions. International Journal of Radiation Oncology Biology Physics, 1997, 37, 719-729.	0.4	69
4	Supralinearity of peak 5 and peak 6 in TLD-700. Nuclear Instruments & Methods, 1980, 172, 463-470.	1.2	67
5	Thermoluminescence Efficiency of LiF:Mg,Cu,P (MCP-N) Detectors to Photons, Beta-Electrons, Alpha Particles and Thermal Neutrons. Radiation Protection Dosimetry, 1994, 55, 31-38.	0.4	64
6	The response of the alanine detector after charged-particle and neutron irradiations. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1989, 40, 923-933.	0.5	40
7	Facility for proton radiotherapy of eye cancer at IFJ PAN in Krakow. Radiation Measurements, 2010, 45, 1469-1471.	0.7	36
8	Supralinearity of peak 5 and peak 6 in TLD-700. Nuclear Instruments & Methods, 1980, 175, 48-50.	1.2	35
9	Radon survey in the high natural radiation region of NiÅ¡ka Banja, Serbia. Journal of Environmental Radioactivity, 2007, 92, 165-174.	0.9	35
10	CVD Diamonds as Thermoluminescent Detectors for Medical Applications. Radiation Protection Dosimetry, 2002, 101, 485-488.	0.4	31
11	New 2-D dosimetric technique for radiotherapy based on planar thermoluminescent detectors. Radiation Protection Dosimetry, 2006, 118, 213-218.	0.4	30
12	On the relationship between dose-, energy- and LET-response of thermoluminescent detectors. Radiation Protection Dosimetry, 2006, 119, 15-22.	0.4	28
13	A study of radiation dosimeters based on synthetic HPHT diamond. Diamond and Related Materials, 2007, 16, 191-195.	1.8	28
14	Influence of concentration of magnesium on the dose response and LET-dependence of TL efficiency in LiF:Mg,Cu,P (MCP-N) detectors. Radiation Measurements, 1998, 29, 355-359.	0.7	27
15	Thermoluminescence dosimetry using TL-readers equipped with CCD cameras. Radiation Measurements, 2008, 43, 864-869.	0.7	27
16	High-dose characterization of different LiF phosphors. Radiation Measurements, 2007, 42, 582-585.	0.7	26
17	Modeling the Response of Thermoluminescence Detectors Exposed to Low- and High-LET Radiation Fields. Journal of Radiation Research, 2002, 43, S59-S62.	0.8	24
18	Modelling of the Thermoluminescence Response of LiF:Mg,Cu,P (MCP-N) Detectors after Doses of Low-Energy Photons. Radiation Protection Dosimetry, 1999, 84, 103-107.	0.4	23

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19	The Fricke dosimeter as a 1-hit detector. International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements, 1986, 11, 301-307.	0.6	22
20	Radiosensitivity Parameters for Neoplastic Transformations in C3H10T1/2 Cells. Radiation Research, 1987, 111, 424.	0.7	22
21	Ion recombination and polarity correction factors for a planeâ€"parallel ionization chamber in a proton scanning beam. Medical Physics, 2018, 45, 391-401.	1.6	22
22	Dosimetric Characteristics of LiF:Mg,Cu,P Phosphors - A Track Structure Interpretation. Radiation Protection Dosimetry, 1993, 47, 53-58.	0.4	21
23	Investigation of Efficiency of Thermoluminescence Detectors for Particle Therapy Beams. Radiation Protection Dosimetry, 1997, 70, 501-504.	0.4	20
24	Two-dimensional thermoluminescence dosimetry using planar detectors and a TL reader with CCD camera readout. Radiation Protection Dosimetry, 2006, 120, 129-132.	0.4	20
25	Measurement of stray neutron doses inside the treatment room from a proton pencil beam scanning system. Physica Medica, 2017, 34, 80-84.	0.4	19
26	Measurement of 2-D dose distributions by large-area thermoluminescent detectors. Radiation Measurements, 2004, 38, 833-837.	0.7	17
27	Novel thermoluminescence foils for 2-D clinical dosimetry, based on CaSO4:Dy. Radiation Measurements, 2010, 45, 719-721.	0.7	17
28	Supralinearity of peak 4 and 5 in thermoluminescent lithium fluoride MTS-N () detectors at different Mg and Ti concentration. Radiation Measurements, 2001, 33, 807-812.	0.7	16
29	A Study of the Thermoluminescent Properties of CVD Diamond Detectors. Physica Status Solidi A, 2002, 193, 470-475.	1.7	16
30	Evidence of low-dose hyper-radiosensitivity in normal cells of cervix cancer patients?. Radiation Protection Dosimetry, 2006, 122, 282-284.	0.4	16
31	Application of Individually Calibrated Solid LiF,Ti (MTS-N) Detectors in Clinical Dosimetry. Radiation Protection Dosimetry, 1999, 85, 377-380.	0.4	15
32	Proton microbeam radiotherapy with scanned pencil-beams â€" Monte Carlo simulations. Physica Medica, 2015, 31, 621-626.	0.4	15
33	Long-Term Investigation on Self-Irradiation and Sensitivity to Cosmic Rays of TL Detector Types TLD-200, TLD-700, MCP-N and New Phosphate Glass Dosemeter. Radiation Protection Dosimetry, 1996, 66, 135-138.	0.4	14
34	A checklist for reporting of thermoluminescence dosimetry (TLD) measurements. Physics in Medicine and Biology, 1999, 44, L15-L17.	1.6	14
35	2-D dosimetry of a proton radiotherapy beam using large-area LiF:Mg,Cu,P TL detectors. Radiation Measurements, 2008, 43, 977-980.	0.7	14
36	Performance of two commercial electron beam algorithms over regions close to the lungâ€"mediastinum interface, against Monte Carlo simulation and point dosimetry in virtual and anthropomorphic phantoms. Physica Medica, 2014, 30, 147-154.	0.4	14

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37	Application of IMRT in adjuvant treatment of soft tissue sarcomas of the thighâ€"Preliminary results. Reports of Practical Oncology and Radiotherapy, 2011, 16, 110-114.	0.3	13
38	Synthetic diamonds as active detectors of ionising radiation. Diamond and Related Materials, 2004, 13, 918-922.	1.8	12
39	Evaluation of risk of secondary cancer occurrence after proton radiotherapy of ocular tumours. Radiation Measurements, 2011, 46, 1944-1947.	0.7	12
40	ESR dosimetry in calibration intercomparisons with high-energy photons and electrons. International Journal of Radiation Applications and Instrumentation Part A, Applied Radiation and Isotopes, 1989, 40, 985-988.	0.5	11
41	Comparison of LiF:Mg,Cu,P. (MCP-N, GR-200A) and Alpha-Al203:C TL Detectors in Short-Term Measurements of Natural Radiation. Radiation Protection Dosimetry, 1996, 66, 157-160.	0.4	11
42	CVD diamond wafers as large-area thermoluminescence detectors for measuring the spatial distribution of dose. Physica Status Solidi A, 2003, 199, 119-124.	1.7	11
43	Assessment of undesirable dose to eye-melanoma patients after proton radiotherapy. Radiation Measurements, 2010, 45, 1441-1444.	0.7	11
44	Two-dimensional dosimetry of radiotherapeutical proton beams using thermoluminescence foils. Radiation Protection Dosimetry, 2007, 126, 185-189.	0.4	10
45	The principles of Katz's cellular track structure radiobiological model. Radiation Protection Dosimetry, 2015, 166, 49-55.	0.4	10
46	Miniature Thermoluminescent Detectors for Dosimetry in Radiotherapy. Radiation Protection Dosimetry, 2002, 101, 473-476.	0.4	9
47	Track structure effects in a study of cell killing in normal human skin fibroblasts. International Journal of Radiation Biology, 2009, 85, 1101-1113.	1.0	9
48	Individual patient shielding for a proton eye therapy facility. Radiation Measurements, 2010, 45, 1127-1129.	0.7	9
49	Analysis of Indoor Radon Data Using Bayesian, Random Binning, and Maximum Entropy Methods. Dose-Response, 2021, 19, 155932582110093.	0.7	9
50	Estimation of the Time Elapsed Between Exposure and Readout Using Peak Ratios of LiF:Mg,Cu,P (MCP-N,GR200A). Radiation Protection Dosimetry, 1999, 85, 149-152.	0.4	8
51	TL efficiency of LiF:Mg,Cu,P (MCP-N) 2-D thermoluminescence detectors to raster-scanned carbon ion beams. Radiation Measurements, 2008, 43, 994-997.	0.7	8
52	Dosimetric properties of TL foils based on LiF:Mg,Cu,P (MCP-N) phosphors for clinical applications. Radiation Measurements, 2010, 45, 716-718.	0.7	8
53	Clinical tests of large area thermoluminescent detectors under radiotherapy beams. Radiation Measurements, 2013, 51-52, 25-30.	0.7	8
54	Studies on the application of CVD diamonds as active detectors of ionising radiation. Physica B: Condensed Matter, 2001, 308-310, 1213-1216.	1.3	7

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55	Identification and assessment of elevated exposure to natural radiation in Balkan region (Serbia). Radioprotection, 2009, 44, 919-925.	0.5	7
56	Application of the finite-difference approximation to electrostatic problems in gaseous proportional counters. Nuclear Instruments & Methods, 1975, 124, 413-428.	1.2	6
57	Natural radiation and its hazard in copper ore mines in Poland. Acta Geophysica, 2008, 56, 505-517.	1.0	6
58	Are gamma passing rate and doseâ€"volume histogram QA metrics correlated?. Medical Physics, 2021, 48, 4743-4753.	1.6	6
59	Absolute field distribution in gaseous proportional counters of box-type geometry. Nuclear Instruments & Methods, 1973, 109, 403-405.	1.2	5
60	What Can Solid State Detectors Do for Clinical Dosimetry in Modern Radiotherapy?. Radiation Protection Dosimetry, 1999, 85, 361-366.	0.4	5
61	Proton Irradiation of 7LiF:Mg,Ti Thermoluminescent Detectors: Influence of Dopant Concentration on Dose Response and LET Dependence of TL Efficiency. Radiation Protection Dosimetry, 1999, 84, 179-184.	0.4	5
62	Microdosimetric One Hit Detector Model for Calculation of Dose and Energy Response of Some Solid State Detectors. Radiation Protection Dosimetry, 2002, 99, 381-382.	0.4	5
63	Electronic lab notebooks â€" a crossroads is passed. Drug Discovery Today, 2003, 8, 1007-1009.	3.2	5
64	On the clinical applicability of large-area 2-D TL dosimetry for verifying small photon radiotherapy beams. Radiation Measurements, 2008, 43, 1004-1007.	0.7	5
65	THE ROLE OF PARTICLE SPECTRA IN MODELING THE RELATIVE BIOLOGICAL EFFECTIVENESS OF PROTON RADIOTHERAPY BEAMS. Radiation Protection Dosimetry, 2019, 183, 251-254.	0.4	5
66	Optimisation of LiF:Mg,Ti Detectors for Dosimetry in Proton Radiotherapy. Radiation Protection Dosimetry, 1999, 85, 367-371.	0.4	4
67	Cellular parameters and RBE-LET dependences for modelling heavy-ion radiotherapy. Radiotherapy and Oncology, 2004, 73, S173-S175.	0.3	4
68	Microdosimetric modelling of the response of thermoluminescence detectors to low- and high-LET ionising radiation. Radiation Protection Dosimetry, 2006, 122, 378-381.	0.4	4
69	Does microwave interstitial hyperthermia prior to high-dose-rate brachytherapy change prostate volume or therapy plan parameters?. International Journal of Hyperthermia, 2015, 31, 568-573.	1.1	4
70	Application of MCP-N (Lif: Mg, Cu, P) TL detectors in monitoring environmental radiation. Nuclear Technology and Radiation Protection, 2004, 19, 20-25.	0.3	4
71	Intercomparison of Gamma Ray, X Ray, and Fast Neutron Dosimetry using Alanine Detectors. Radiation Protection Dosimetry, 1989, , .	0.4	3
72	A simple track structure model of ion beam radiotherapy. Radiation Protection Dosimetry, 2006, 122, 471-474.	0.4	3

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73	Evaluation of the relative effectiveness of LiF-based TL detectors for electron radiotherapy beams over the energy range 6â€“20MeV. Radiation Measurements, 2008, 43, 879-882.	0.7	3
74	The application of amorphous track models to study cell survival in heavy ions beams. Radiation Protection Dosimetry, 2011, 143, 232-236.	0.4	3
75	A TPS kernel for calculating survival vs. depth: distributions in a carbon radiotherapy beam, based on Katz's cellular Track Structure Theory. Radiation Protection Dosimetry, 2015, 166, 347-350.	0.4	3
76	A permanently sealed multiwire proportional chamber with two-dimensional readout for X-ray applications in the region 20â€“60 keV. Nuclear Instruments & Methods, 1976, 135, 197-202.	1.2	2
77	Environmental Radiometry Around Coal Mining Wastes Using MCP-N (LiF:Mg,Cu,P) Detectors and Gamma-Ray Spectrometry. Radiation Protection Dosimetry, 1996, 66, 161-164.	0.4	2
78	Development of TL dosimeters based on MTS-N (LiF:Mg, Ti) detectors for in vivo dosimetry in a Co-60 beam. Reports of Practical Oncology and Radiotherapy, 1998, 3, 43-47.	0.3	2
79	A TL-based anthropomorphic benchmark for verifying 3-D dose distributions from external electron beams calculated by radiotherapy treatment planning systems. Radiation Protection Dosimetry, 2006, 120, 74-77.	0.4	2
80	TRAINING OF MEDICAL PHYSICISTS AND FORMAL REQUIREMENTS OF RADIOTHERAPY DEPARTMENTS RELATED TO EXPERTISE IN MEDICAL PHYSICS. Radiotherapy and Oncology, 2009, 92, S156.	0.3	2
81	A numerical method to optimise the spatial dose distribution in carbon ion radiotherapy planning. Radiation Protection Dosimetry, 2015, 166, 351-355.	0.4	2
82	Studies of scintillator response to 60 MeV protons in a proton beam imaging system. Nukleonika, 2015, 60, 683-687.	0.3	2
83	Comments on â€œDental enamel as an in vivo radiation dosimeterâ€. Medical Physics, 1986, 13, 422-422.	1.6	1
84	Verification of geometry reconstruction and dose calculation modules of the PLATO radiotherapy planing system. Reports of Practical Oncology and Radiotherapy, 2001, 6, 141-147.	0.3	1
85	On a Model-based Approach to Radiation Protection. Radiation Protection Dosimetry, 2002, 99, 439-444.	0.4	1
86	Validation of a Radiotherapy Treatment Planning System using an Anthropomorphic Phantom and MTS-N Thermoluminescent Detectors. Radiation Protection Dosimetry, 2002, 101, 477-480.	0.4	1
87	Cellular parameters for track structure modeling of radiation hazard in space. Advances in Space Research, 2004, 34, 1378-1382.	1.2	1
88	Experimental results on the environmental samples collected around sites in South Serbia, Kosovo and Montenegro where DU weapons were deployed in 1999. Radioactivity in the Environment, 2005, , 1056-1063.	0.2	1
89	Professor Zbigniew Jaworowski â€“ In Memoriam. Dose-Response, 2012, 10, dose-response.1.	0.7	1
90	Summaries of articles in this issue. Journal of Radiological Protection, 2002, 22, .	0.6	1

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91	The Response of 2D TL Foils After Doses of Co-60 Gamma-ray, 6 MVÂX-ray and 60 MeV Proton Beams Applied in Radiotherapy. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 1021.	0.0	1
92	Analysis of Biological Effectiveness of Heavy Ions Using Two Microdosimetric Approaches. Radiation Protection Dosimetry, 1990, 31, 303-307.	0.4	1
93	The Hadron Radiotherapy Centre Project at the Institute of Nuclear Physics in KrakÃ³w, Poland. Radiotherapy and Oncology, 1995, 37, S64.	0.3	0
94	Evaluation of Effective Dose in Environmental Dosimetry Using Humanoid Phantoms Representing Different Ages and Sex, and LiF:Mg,Ti and LiF:Mg,Cu,P Detectors. Radiation Protection Dosimetry, 1996, 66, 165-166.	0.4	0
95	CVD diamonds as active and passive detectors of ionising radiation. Assessment of their applicability for medical dosimetry. , 0, , .		0
96	Weryfikacja procedur pomiarowych i wdroÅ¼enie opracowanego systemu kontroli jakoÅ›ci dla aparatu selectron LDR/MDR. Reports of Practical Oncology and Radiotherapy, 2001, 6, 85-90.	0.3	0
97	DoseÂeffect modifying factors in radiation protectionÂa 1967 National Commission on Radiation Protection document revisited. Journal of Radiological Protection, 2002, 22, A159-A161.	0.6	0
98	DARI to Go Where Radiation Has Gone Before. Physics Today, 2003, 56, 13-14.	0.3	0
99	51 The MAESTRO project framework : goals and status. Radiotherapy and Oncology, 2005, 76, S34.	0.3	0
100	Robert Katz(1917â€“2011). Radiation Research, 2011, 176, 692-693.	0.7	0
101	1339 poster APPLICATION OF IMRT IN WHOLE-ABDOMEN IRRADIATION OF OVARIAN CANCER. Radiotherapy and Oncology, 2011, 99, S501.	0.3	0
102	372 DEVELOPMENT OF A TWO-DIMENSIONAL DIGITAL TL DOSIMETRY SYSTEM INCORPORATING 2-D TL READERS AND TL FOILS. Radiotherapy and Oncology, 2012, 102, S190.	0.3	0
103	Application of alanine dosimetry in dose assessment for ocular melanoma patients undergoing proton radiotherapy â€“ preliminary results. Nukleonika, 2015, 60, 609-613.	0.3	0
104	Comments on â€œThe Past Informs the Future: An Overview of the Million Worker Study and the Mallinckrodt Chemical Works Cohortâ€. Health Physics, 2018, 115, 387-388.	0.3	0
105	Track Structure Analysis of Survival of Two Mouse Lymphoma L5178Y Cell Strains of Different Radiation Sensitivity. Radiation Protection Dosimetry, 1994, 52, 207-210.	0.4	0
106	Professor Ludwik DobrzyÅ„ski 1941â€“2022. International Journal of Radiation Biology, 2022, , 1-2.	1.0	0