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TL-efficiency Overview and experimental results over the years

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#	Paper	IF	Citations
74	LET dependence of thermoluminescent efficiency and peak height ratio of CaF ₂ :Tm. <i>Radiation Measurements</i> , 2008 , 43, 1135-1139	1.5	21
73	Radiation dosimetry onboard the International Space Station ISS. <i>Zeitschrift Fur Medizinische Physik</i> , 2008 , 18, 265-75	7.6	30
72	Further studies on higher temperature TL glow peaks of 7LiF:Mg,Ti. <i>Applied Radiation and Isotopes</i> , 2009 , 67, 1078-83	1.7	14
71	Astronauts organ doses inferred from measurements in a human phantom outside the international space station. <i>Radiation Research</i> , 2009 , 171, 225-35	3.1	94
70	On the correctness of the thermoluminescent high-temperature ratio (HTR) method for estimating ionization density effects in mixed radiation fields. <i>Radiation Measurements</i> , 2010 , 45, 42-50	1.5	16
69	Relative efficiency of TL detectors to energetic ion beams. <i>Radiation Measurements</i> , 2010 , 45, 1495-1498	1.5	27
68	PHITS simulations of the Matroshka experiment. <i>Advances in Space Research</i> , 2010 , 46, 1266-1272	2.4	12
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, 320-33	0.9	17
66	Mysteries of LiF TLD response following high ionisation density irradiation: nanodosimetry and track structure theory, dose response and glow curve shapes. <i>Radiation Protection Dosimetry</i> , 2011 , 145, 356-72	0.9	11
65	Variability characteristics of the HTTL to dosimetry peaks ratio in LiF:Mg,Ti. <i>Radiation Measurements</i> , 2011 , 46, 1732-1736	1.5	
64	Comparison of the response of various TLDs to cosmic radiation and ion beams: Current results of the HAMLET project. <i>Radiation Measurements</i> , 2011 , 46, 1680-1685	1.5	22
63	Calculation of the relative efficiency of thermoluminescent detectors to space radiation. <i>Radiation Measurements</i> , 2011 , 46, 1728-1731	1.5	9
62	Mysteries of LiF TLD response following high ionization density irradiation: Glow curve shapes, dose response, the unified interaction model and modified track structure theory. <i>Radiation Measurements</i> , 2011 , 46, 1342-1348	1.5	8
61	Characteristics of Mg ₂ SiO ₄ :Tb (TLD-MSO-S) relevant for space radiation dosimetry. <i>Radiation Measurements</i> , 2011 , 46, 709-716	1.5	13
60	References. 2011 , 317-354		
59	Impact of reading pre-irradiation background signal on the post-irradiation glow curves of thermoluminescence dosimeters. <i>Applied Radiation and Isotopes</i> , 2011 , 69, 1533-9	1.7	2
58	Out-of-field dose measurements in a water phantom using different radiotherapy modalities. <i>Physics in Medicine and Biology</i> , 2012 , 57, 5059-74	3.8	56

57	Out-of-field dose studies with an anthropomorphic phantom: comparison of X-rays and particle therapy treatments. <i>Radiotherapy and Oncology</i> , 2012 , 105, 133-8	5.3	23
56	Alpha particle and proton relative thermoluminescence efficiencies in LiF:Mg,Cu,P:is track structure theory up to the task?. <i>Radiation Protection Dosimetry</i> , 2012 , 150, 359-74	0.9	16
55	BIOKIS: A Model Payload for Multidisciplinary Experiments in Microgravity. <i>Microgravity Science and Technology</i> , 2012 , 24, 397-409	1.6	14
54	The MATROSHKA experiment: results and comparison from extravehicular activity (MTR-1) and intravehicular activity (MTR-2A/2B) exposure. <i>Radiation Research</i> , 2013 , 180, 622-37	3.1	33
53	Relative thermoluminescent efficiency of LiF detectors for proton radiation: Batch variability and energy dependence. <i>Radiation Measurements</i> , 2013 , 56, 205-208	1.5	9
52	Evaluation of the relative thermoluminescence efficiency of LiF:Mg,Ti and LiF:Mg,Cu,P TL detectors to low-energy heavy ions. <i>Radiation Measurements</i> , 2013 , 51-52, 7-12	1.5	14
51	Assessment of radiation exposure outside the radiotherapeutic room during medical accelerator beam emission with the use of TL detectors (radiation exposure outside a LINAC room). <i>Radiation Protection Dosimetry</i> , 2013 , 156, 268-76	0.9	1
50	Response of a plate-type thermoluminescence dosimeter to a therapeutic carbon beam. <i>Journal of the Korean Physical Society</i> , 2013 , 63, 1432-1436	0.6	6
49	NUNDO: a numerical model of a human torso phantom and its application to effective dose equivalent calculations for astronauts at the ISS. <i>Radiation and Environmental Biophysics</i> , 2014 , 53, 719-27		10
48	Characterization of the secondary neutron field produced during treatment of an anthropomorphic phantom with x-rays, protons and carbon ions. <i>Physics in Medicine and Biology</i> , 2014 , 59, 2111-25	3.8	30
47	Relative TL and OSL efficiency to protons of various dosimetric materials. <i>Radiation Protection Dosimetry</i> , 2014 , 161, 112-5	0.9	7
46	Thermoluminescent responses of Li3B7O12:Cu to proton beam. <i>Radiation Protection Dosimetry</i> , 2014 , 161, 437-40	0.9	5
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43	Cosmic radiation exposure of biological test systems during the EXPOSE-R mission. <i>International Journal of Astrobiology</i> , 2015 , 14, 27-32	1.4	12
42	TLD efficiency calculations for heavy ions: an analytical approach. <i>European Physical Journal D</i> , 2015 , 69, 1	1.3	4
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39	Comparative investigations of the relative thermoluminescent efficiency of LiF detectors to protons at different proton therapy facilities. <i>Radiation Measurements</i> , 2015 , 82, 8-13	1.5	20
38	TL response of LiF:Mg,Cu,P (GR200A and GR207A) exposed to high-energy 12C ions. <i>Radiation Measurements</i> , 2015 , 78, 23-27	1.5	1
37	DOSIS & DOSIS 3D: long-term dose monitoring onboard the Columbus Laboratory of the International Space Station (ISS). <i>Journal of Space Weather and Space Climate</i> , 2016 , 6, A39	2.5	34
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34	Absorbed dose estimation using LET dependence in glow curve of thermoluminescent phosphor Li ₃ B ₇ O ₁₂ :Cu in therapeutic carbon beams. <i>Journal of Nuclear Science and Technology</i> , 2016 , 53, 2028-2033	1.3	4
33	Evaluation of the relative TL efficiency of the thermoluminescent detectors to heavy charged particles. <i>Radiation Protection Dosimetry</i> , 2016 , 168, 27-32	0.9	7
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31	Comparative radiation measurements in the Russian segment of the International Space Station by applying passive dosimeters. <i>Radiation Measurements</i> , 2017 , 106, 267-272	1.5	3
30	The influence of the dose assessment method on the LET dependence of the relative luminescence efficiency of LiF:Mg,Ti and LiF:Mg,Cu,P. <i>Radiation Measurements</i> , 2017 , 98, 34-40	1.5	16
29	Cosmic radiation monitoring at low-Earth orbit by means of thermoluminescence and plastic nuclear track detectors. <i>Radiation Measurements</i> , 2017 , 106, 262-266	1.5	4
28	Thermally stimulated processes in Li and Cu doped alkali fluorides irradiated with electron beams of ultra-high dose. <i>Journal of Physics: Conference Series</i> , 2017 , 830, 012143	0.3	1
27	Deconvolution study on the glow curve structure of LiF:Mg,Ti and LiF:Mg,Cu,P thermoluminescent detectors exposed to 1H, 4He and 12C ion beams. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 407, 222-229	1.2	14
26	Thermoluminescent response of differently doped lithium magnesium phosphate (LiMgPO ₄ , LMP) crystals to protons, neutrons and alpha particles. <i>Radiation Measurements</i> , 2018 , 113, 14-19	1.5	16
25	Low temperature thermoluminescence anomaly of LiF:Mg,Cu,P radiation detectors exposed to 1H and 4He ions. <i>Radiation Measurements</i> , 2018 , 119, 155-165	1.5	15
24	MICRODOSIMETRIC MODELING OF THE RELATIVE LUMINESCENCE EFFICIENCY OF LiF:Mg,Ti (MTS) DETECTORS EXPOSED TO CHARGED PARTICLES. <i>Radiation Protection Dosimetry</i> , 2018 , 180, 192-195	0.9	6
23	Clinical application of ionization density dependence of the glow curve for measuring linear energy transfer in therapeutic proton beams. <i>Radiation Measurements</i> , 2019 , 127, 106146	1.5	
22	First application of a novel SRAM-based neutron detector for proton therapy. <i>Radiation Measurements</i> , 2019 , 122, 45-52	1.5	2

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18	A novel methodology to assess linear energy transfer and relative biological effectiveness in proton therapy using pairs of differently doped thermoluminescent detectors. <i>Physics in Medicine and Biology</i> , 2019 , 64, 085005	3.8	17
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