

# Mohammad Amin Mosleh-Shirazi

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,306  
citations

430754

18  
h-index

360920

35  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1413  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global and spatial dosimetric characteristics of N-vinylpyrrolidone-based polymer gel dosimeters as a function of medium-term post-preparation and post-irradiation time. <i>Radiation Physics and Chemistry</i> , 2022, 198, 110280.	1.4	0
2	A phantom-based experimental and Monte Carlo study of the suitability of in-vivo diodes and TLD for entrance in-vivo dosimetry in small-to-medium sized 6ÅMV photon fields. <i>Radiation Physics and Chemistry</i> , 2022, 201, 110411.	1.4	2
3	Tumor volume-adapted SUVN as an alternative to SUVpeak for quantification of small lesions in PET/CT imaging: a proof-of-concept study. <i>Japanese Journal of Radiology</i> , 2021, 39, 811-823.	1.0	6
4	Independent validation of a dedicated commissioning software and investigation of the direction dependence of the field symmetry for the LIAC intraoperative electron radiotherapy accelerator. <i>Radiation Physics and Chemistry</i> , 2021, 186, 109529.	1.4	1
5	Mitochondrial Targeted Peptide (KLAKLAK) <sub>2</sub> , and its Synergistic Radiotherapy Effects on Apoptosis of Radio Resistant Human Monocytic Leukemia Cell Line. <i>Journal of Biomedical Physics and Engineering</i> , 2021, 11, 229-238.	0.5	1
6	miR-155, miR-21, and let-7a Expressions in MCF-10A and MCF-7 Cell Lines after Low to High Dose Irradiation. <i>Cell Journal</i> , 2021, 23, 532-537.	0.2	1
7	Radiation-Induced Bystander Effects of Adipose-Derived Mesenchymal Stem Cells.. <i>Cell Journal</i> , 2021, 23, 612-618.	0.2	2
8	Combined X-ray radiotherapy and laser photothermal therapy of melanoma cancer cells using dual-sensitization of platinum nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 203, 111737.	1.7	48
9	Comprehensive methodology for commissioning modern 3D-image-based treatment planning systems for high dose rate gynaecological brachytherapy: A review. <i>Physica Medica</i> , 2020, 77, 21-29.	0.4	4
10	Therapeutic effect of adipose-derived mesenchymal stem cells (ASCs) on radiation-induced skin damage in rats. <i>Stem Cell Investigation</i> , 2020, 7, 12-12.	1.3	6
11	AN ARTIFICIAL NEURAL NETWORK-BASED MODEL FOR PREDICTING ANNUAL DOSE IN HEALTHCARE WORKERS OCCUPATIONALLY EXPOSED TO DIFFERENT LEVELS OF IONIZING RADIATION. <i>Radiation Protection Dosimetry</i> , 2020, 189, 98-105.	0.4	2
12	Protection effect of cerium oxide nanoparticles against radiation-induced acute lung injuries in rats. <i>Reports of Practical Oncology and Radiotherapy</i> , 2020, 25, 206-211.	0.3	15
13	Influence of dwell time homogeneity error weight parameter on treatment plan quality in inverse optimized HDR cervix brachytherapy using SagiPlan. <i>Journal of Contemporary Brachytherapy</i> , 2019, 11, 256-266.	0.4	6
14	Enhanced melanoma cell-killing by combined phototherapy/radiotherapy using a mesoporous platinum nanostructure. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 28, 300-307.	1.3	11
15	Independent assessment of source transit time for the BEBIG SagiNova <sup>Å</sup> cobalt-60 high dose rate brachytherapy afterloader. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2019, 42, 913-919.	1.4	1
16	A method for cranial target delineation in radiotherapy treatment planning aided by single-voxel magnetic resonance spectroscopy: evaluation using a custom-designed gel-based phantom and simulations. <i>British Journal of Radiology</i> , 2019, 92, 20190216.	1.0	1
17	Dose-response relationship and normal-tissue complication probability of conductive hearing loss in patients undergoing head-and-neck or cranial radiotherapy: A prospective study including 70 ears. <i>Physica Medica</i> , 2019, 61, 64-69.	0.4	6
18	Dosimetric investigation of a new quantum dots/nanocomposite (CdTe QDs/PVK) sensor for real-time gamma radiation detection. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	3

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19	Impact of image reconstruction methods on quantitative accuracy and variability of FDG-PET volumetric and textural measures in solid tumors. <i>European Radiology</i> , 2019, 29, 2146-2156.	2.3	16
20	Effect of age-dependent bone electron density on the calculated dose distribution from kilovoltage and megavoltage photon and electron radiotherapy in paediatric MRI-only treatment planning. <i>British Journal of Radiology</i> , 2018, 91, 20170511.	1.0	3
21	Evaluating the distribution of research in radiation sciences as published in general medical physics journals. <i>Egyptian Journal of Radiology and Nuclear Medicine</i> , 2018, 49, 1119-1124.	0.3	2
22	Simultaneous characterization of electron density and effective atomic number for radiotherapy planning using stoichiometric calibration method and dual energy algorithms. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2018, 41, 601-619.	1.4	7
23	Evaluation of the effect of hesperidin on vascular endothelial growth factor gene expression in rat skin animal models following cobalt-60 gamma irradiation. <i>Journal of Cancer Research and Therapeutics</i> , 2018, 14, 1098.	0.3	18
24	A novel quantification method for low-density gel dosimeter. <i>Journal of Cancer Research and Therapeutics</i> , 2018, 14, 292-299.	0.3	1
25	A Preliminary Study on the Estimation of the Number of Cancer Patients Eligible for Hadron Therapy in Iran and Fars Province. <i>Iranian Journal of Medical Sciences</i> , 2018, 43, 313-317.	0.3	4
26	Modelling the transport of optical photons in scintillation detectors for diagnostic and radiotherapy imaging. <i>Physics in Medicine and Biology</i> , 2017, 62, R207-R235.	1.6	24
27	Revision of orthovoltage chest wall treatment using Monte Carlo simulations. <i>Technology and Health Care</i> , 2017, 25, 413-424.	0.5	5
28	Assessment of the dose distribution of Minibeam radiotherapy for lung tumors in an anthropomorphic phantom: A feasibility study. <i>Technology and Health Care</i> , 2017, 25, 683-692.	0.5	3
29	Melatonin Ameliorates The Production of COX-2, iNOS, and The Formation of 8-OHdG in Non-Targeted Lung Tissue after Pelvic Irradiation. <i>Cell Journal</i> , 2017, 19, 324-331.	0.2	28
30	Developing light nano-composites with improved mechanical properties for neutron shielding. <i>Kerntechnik</i> , 2017, 82, 648-652.	0.2	3
31	Hesperidin as radioprotector against radiation-induced lung damage in rat: A histopathological study. <i>Journal of Medical Physics</i> , 2017, 42, 25.	0.1	31
32	The Regenerative Effect of Bone Marrow-Derived Stem Cells on Cell Count and Survival in Acute Radiation Syndrome. <i>World Journal of Plastic Surgery</i> , 2017, 6, 111-113.	0.2	4
33	The healing effect of bone marrow-derived stem cells in acute radiation syndrome. <i>Pakistan Journal of Medical Sciences</i> , 2016, 32, 646-51.	0.3	12
34	Radiation-Induced Oxidative Stress at Out-of-Field Lung Tissues after Pelvis Irradiation in Rats. <i>Cell Journal</i> , 2016, 18, 340-5.	0.2	18
35	Calculation of dose distribution in compressible breast tissues using finite element modeling, Monte Carlo simulation and thermoluminescence dosimeters. <i>Physics in Medicine and Biology</i> , 2015, 60, 9185-9202.	1.6	8
36	Radioprotective effect of melatonin on radiation-induced lung injury and lipid peroxidation in rats. <i>Cell Journal</i> , 2015, 17, 111-20.	0.2	38

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37	A new optical photon transport Monte Carlo code for modelling parallel- and focused-element scintillation detector arrays and its use for examination of the full MTF responses of thick segmented CsI(Tl) scintillators. <i>Physica Medica</i> , 2014, 30, e28.	0.4	1
38	ScintSim1 : A new Monte Carlo simulation code for transport of optical photons in 2D arrays of scintillation detectors. <i>Journal of Medical Physics</i> , 2014, 39, 18.	0.1	1
39	Paratesticular liposarcoma; a case report. <i>Iranian Journal of Cancer Prevention</i> , 2014, 7, 239-43.	0.7	1
40	Ulexite-galena intermediate-weight concrete as a novel design for overcoming space and weight limitations in the construction of efficient shields against neutrons and photons. <i>Radiation Protection Dosimetry</i> , 2013, 154, 375-380.	0.4	4
41	Developing a Treatment Planning Software Based on TG-43U1 Formalism for Cs-137 LDR Brachytherapy. <i>Iranian Red Crescent Medical Journal</i> , 2013, 15, 712-717.	0.5	3
42	EchoSeed Model 6733 Iodine-125 brachytherapy source: Improved dosimetric characterization using the MCNP5 Monte Carlo code. <i>Medical Physics</i> , 2012, 39, 4653-4659.	1.6	9
43	A Monte Carlo and experimental investigation of the dosimetric behavior of low- and medium-perturbation diodes used for entrance <i>in vivo</i> dosimetry in megavoltage photon beams. <i>Journal of Applied Clinical Medical Physics</i> , 2012, 13, 326-338.	0.8	7
44	The efficacy and safety of neoadjuvant chemotherapy + letrozole in postmenopausal women with locally advanced breast cancer: a randomized phase III clinical trial. <i>Breast Cancer Research and Treatment</i> , 2012, 132, 853-861.	1.1	31
45	Investigation of the dose rate dependency of the PAGAT gel dosimeter at low dose rates. <i>Radiation Measurements</i> , 2012, 47, 139-144.	0.7	18
46	Efficacy and safety of concurrent chemoradiation with weekly cisplatin ± low-dose celecoxib in locally advanced undifferentiated nasopharyngeal carcinoma: A phase II-III clinical trial. <i>Journal of Cancer Research and Therapeutics</i> , 2011, 7, 442.	0.3	23
47	SU-E-T-714: Developing a TG-43U1 Based Dose Calculation Treatment Planning Software for Cs-137 LDR Brachytherapy. <i>Medical Physics</i> , 2011, 38, 3654-3654.	1.6	0
48	SU-E-T-614: An Optimization Algorithm for Beam Angle, Beam Weight and Wedge Angle in Forward Treatment Planning of External-Beam Radiotherapy Based on an Integer-Representation Adaptive Mutation Probability Genetic Algorithm. <i>Medical Physics</i> , 2011, 38, 3631-3631.	1.6	0
49	Short-term radon inhalation induces significant survival adaptive response in Balb/c mice. <i>International Journal of Low Radiation</i> , 2010, 7, 98.	0.1	9
50	High-performance heavy concrete as a multi-purpose shield. <i>Radiation Protection Dosimetry</i> , 2010, 142, 120-124.	0.4	28
51	Primary localized stages I and II non-Hodgkin's lymphoma of the nasopharynx: a retrospective 17-year single institutional experience. <i>Annals of Hematology</i> , 2009, 88, 441-447.	0.8	17
52	SU-FF-T-01: Investigation of Pagat Gel Dosimeter Application in Low Dose Rate Brachytherapy by Determination of TG-43 Parameters of Selectron Cs-137 Source. <i>Medical Physics</i> , 2009, 36, 2518-2518.	1.6	0
53	Fractionated stereotactic conformal radiotherapy following conservative surgery in the control of craniopharyngiomas. <i>Radiotherapy and Oncology</i> , 2007, 82, 90-95.	0.3	146
54	Topical betamethasone for prevention of radiation dermatitis. <i>Indian Journal of Dermatology, Venereology and Leprology</i> , 2007, 73, 209.	0.2	58

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55	Monte Carlo and Lambertian light guide models of the light output from scintillation crystals at megavoltage energies. <i>Medical Physics</i> , 2006, 33, 1797-1809.	1.6	7
56	Quantification and reduction of cardiac dose in radical radiotherapy for oesophageal cancer. <i>British Journal of Radiology</i> , 2005, 78, 1069-1074.	1.0	12
57	Radiotherapy of localised intracranial germinoma: time to sever historical ties?. <i>Lancet Oncology</i> , The, 2005, 6, 509-519.	5.1	184
58	Commissioning and quality assurance of the Pinnacle3 radiotherapy treatment planning system for external beam photons. <i>British Journal of Radiology</i> , 2003, 76, 163-176.	1.0	61
59	Directionality of extruded lithium fluoride thermoluminescent dosimeters in a cobalt-60 beam.. <i>British Journal of Radiology</i> , 2000, 73, 1007-1009.	1.0	8
60	A cone-beam megavoltage CT scanner for treatment verification in conformal radiotherapy. <i>Radiotherapy and Oncology</i> , 1998, 48, 319-328.	0.3	127
61	Optimization of the scintillation detector in a combined 3D megavoltage CT scanner and portal imager. <i>Medical Physics</i> , 1998, 25, 1880-1890.	1.6	46
62	Independent verification using portal imaging of intensity-modulated beam delivery by the dynamic MLC technique. <i>Medical Physics</i> , 1998, 25, 1872-1879.	1.6	79
63	Rapid portal imaging with a high-efficiency, large field-of-view detector. <i>Medical Physics</i> , 1998, 25, 2333-2346.	1.6	47
64	Linear accelerator output variations and their consequences for megavoltage imaging. <i>Medical Physics</i> , 1998, 25, 1443-1452.	1.6	29
65	Noise reduction by frame averaging: A numerical simulation for portal imaging systems. <i>Medical Physics</i> , 1995, 22, 1405-1411.	1.6	9