

# Mahdi Ghorbani

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

260  
citations

1040056

9  
h-index

1058476

14  
g-index

36  
all docs

36  
docs citations

36  
times ranked

261  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Monte Carlo study on tissue dose enhancement in brachytherapy: a comparison between gadolinium and gold nanoparticles. Australasian Physical and Engineering Sciences in Medicine, 2012, 35, 177-185.	1.3	40
2	Physical, dosimetric and clinical aspects and delivery systems in neutron capture therapy. Reports of Practical Oncology and Radiotherapy, 2018, 23, 462-473.	0.6	23
3	Dose enhancement by various nanoparticles in prostate brachytherapy. Australasian Physical and Engineering Sciences in Medicine, 2013, 36, 431-440.	1.3	15
4	A Monte Carlo study on electron and neutron contamination caused by the presence of hip prosthesis in photon mode of a 15 MV Siemens PRIMUS linac. Journal of Applied Clinical Medical Physics, 2013, 14, 52-67.	1.9	15
5	Effect of tissue composition on dose distribution in brachytherapy with various photon emitting sources. Journal of Contemporary Brachytherapy, 2014, 1, 54-67.	0.9	15
6	Evaluation of dose rate and photon energy dependence of PASSAG polymer gel dosimeter. Journal of Radioanalytical and Nuclear Chemistry, 2018, 317, 1041-1050.	1.5	15
7	Air kerma strength characterization of a GZP6 Cobalt-60 brachytherapy source. Reports of Practical Oncology and Radiotherapy, 2010, 15, 190-194.	0.6	14
8	Evaluation of the accuracy of various dose calculation algorithms of a commercial treatment planning system in the presence of hip prosthesis and comparison with Monte Carlo. Journal of Cancer Research and Therapeutics, 2017, 13, 501-509.	0.9	11
9	Tissue composition effect on dose distribution in neutron brachytherapy/neutron capture therapy. Reports of Practical Oncology and Radiotherapy, 2016, 21, 8-16.	0.6	10
10	In vivo skin dose measurement in breast conformal radiotherapy. Wspolczesna Onkologia, 2016, 2, 137-140.	1.4	9
11	Dosimetric characterizations of GZP6 60Co high dose rate brachytherapy sources: application of superimposition method. Radiology and Oncology, 2012, 46, 170-8.	1.7	7
12	A Monte Carlo study on dose distribution evaluation of Flexisource 192 Ir brachytherapy source. Reports of Practical Oncology and Radiotherapy, 2015, 20, 204-209.	0.6	7
13	A comparison study on various low energy sources in interstitial prostate brachytherapy. Journal of Contemporary Brachytherapy, 2016, 1, 74-81.	0.9	6
14	A Monte Carlo study on dose distribution validation of GZP6 60Co stepping source. Reports of Practical Oncology and Radiotherapy, 2013, 18, 112-116.	0.6	5
15	Effects of Siemens TT-D carbon fiber table top on beam attenuation, and build up region of 6 MV photon beam. Reports of Practical Oncology and Radiotherapy, 2017, 22, 19-28.	0.6	5
16	Dosimetric evaluation of scattered and attenuated radiation due to dental restorations in head and neck radiotherapy. Journal of Radiation Research and Applied Sciences, 2018, 11, 23-28.	1.2	5
17	Assessment of skin dose in breast cancer radiotherapy: on-phantom measurement and Monte Carlo simulation. Reports of Practical Oncology and Radiotherapy, 2020, 25, 456-461.	0.6	5
18	A retrospective analysis of rectal and bladder dose for gynecological brachytherapy treatments with GZP6 HDR afterloading system. Reports of Practical Oncology and Radiotherapy, 2012, 17, 352-357.	0.6	4

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19	Neutron capture therapy: a comparison between dose enhancement of various agents, nanoparticles and chemotherapy drugs. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2014, 37, 541-549.	1.3	4
20	Evaluation of the effect of tooth and dental restoration material on electron dose distribution and production of photon contamination in electron beam radiotherapy. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016, 39, 113-122.	1.3	4
21	The impact of various amounts of fabricating components on the response of PASSAG polymer gel dosimeter: An optimization study. <i>Radiation Physics and Chemistry</i> , 2022, 190, 109804.	2.8	4
22	Assessment the accuracy of dose calculation in build-up region for two radiotherapy treatment planning systems. <i>Journal of Cancer Research and Therapeutics</i> , 2017, 13, 968-973.	0.9	4
23	Application of a color scanner for <sup>60</sup> Co high dose rate brachytherapy dosimetry with ebt radiochromic film. <i>Radiology and Oncology</i> , 2012, 46, 363-9.	1.7	3
24	Effect of diameter of nanoparticles and capture cross-section library on macroscopic dose enhancement in boron neutron capture therapy. <i>Journal of Contemporary Brachytherapy</i> , 2014, 4, 377-385.	0.9	3
25	A Monte Carlo evaluation of dose enhancement by cisplatin and titanocene dichloride chemotherapy drugs in brachytherapy with photon emitting sources. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2014, 37, 327-336.	1.3	3
26	Evaluation of hypothetical <sup>153</sup> Gd source for use in brachytherapy. <i>Reports of Practical Oncology and Radiotherapy</i> , 2016, 21, 17-24.	0.6	3
27	Assessment of dose uniformity around high dose rate <sup>192</sup> Ir and <sup>60</sup> Co stepping sources. <i>Radiological Physics and Technology</i> , 2017, 10, 454-463.	1.9	3
28	Dosimetric evaluation of neutron contamination caused by dental restorations during photon radiotherapy with a 15 MV Siemens Primus linear accelerator. <i>Radiation Physics and Chemistry</i> , 2020, 174, 108961.	2.8	3
29	Effect of photon energy spectrum on dosimetric parameters of brachytherapy sources. <i>Radiology and Oncology</i> , 2016, 50, 238-246.	1.7	3
30	Evaluation of the effect of soft tissue composition on the characteristics of spread-out Bragg peak in proton therapy. <i>Journal of Cancer Research and Therapeutics</i> , 2017, 13, 974-980.	0.9	3
31	Evaluating the effect of various intracavitary applicators on dosimetric parameters of <sup>192</sup> Ir, <sup>137</sup> Cs, and <sup>60</sup> Co sources. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016, 39, 477-491.	1.3	2
32	Effect of computed tomography number-relative electron density conversion curve on the calculation of radiotherapy dose and evaluation of Monaco radiotherapy treatment planning system. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2019, 42, 489-502.	1.3	2
33	Detailed analysis of dose difference in using water as tissue-equivalent material in <sup>252</sup> Cf brachytherapy. <i>Reports of Practical Oncology and Radiotherapy</i> , 2019, 24, 660-666.	0.6	2
34	Dose distribution verification for GZP6 sources: A comparison of Monte Carlo, radiochromic film, and GZP6 treatment planning system. <i>Archive of Oncology</i> , 2012, 20, 3-7.	0.2	1
35	Experimental study of the influence of dental restorations on thermal and fast photo-neutron production in radiotherapy with a high-energy photon beam. <i>Applied Radiation and Isotopes</i> , 2019, 147, 113-120.	1.5	1
36	Effect of various dental restorations on dose distribution of 6 MV photon beam. <i>Journal of Cancer Research and Therapeutics</i> , 2017, 13, 538-543.	0.9	1