

Seied Rabi Mahdavi

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

963
citations

471477

17
h-index

477281

29
g-index

58
all docs

58
docs citations

58
times ranked

1267
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning-based radiomic models to predict intensity-modulated radiation therapy response, Gleason score and stage in prostate cancer. <i>Radiologia Medica</i> , 2019, 124, 555-567.	7.7	86
2	Cochlea CT radiomics predicts chemoradiotherapy induced sensorineural hearing loss in head and neck cancer patients: A machine learning and multi-variable modelling study. <i>Physica Medica</i> , 2018, 45, 192-197.	0.7	74
3	The role of iron oxide nanoparticles in the radiosensitization of human prostate carcinoma cell line DU145 at megavoltage radiation energies. <i>International Journal of Radiation Biology</i> , 2014, 90, 351-356.	1.8	70
4	CT imaging markers to improve radiation toxicity prediction in prostate cancer radiotherapy by stacking regression algorithm. <i>Radiologia Medica</i> , 2020, 125, 87-97.	7.7	64
5	Rectal wall MRI radiomics in prostate cancer patients: prediction of and correlation with early rectal toxicity. <i>International Journal of Radiation Biology</i> , 2018, 94, 829-837.	1.8	42
6	Evaluation of the Cytotoxic Effects of PLGA Coated Iron Oxide Nanoparticles as a Carrier of 5-Fluorouracil and Mega-Voltage X-Ray Radiation in DU145 Prostate Cancer Cell Line. <i>IEEE Transactions on Nanobioscience</i> , 2014, 13, 403-408.	3.3	41
7	Enhancement radiation-induced apoptosis in C6 glioma tumor-bearing rats via pH-responsive magnetic graphene oxide nanocarrier. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 205, 111827.	3.8	37
8	MRI Radiomic Analysis of IMRT-Induced Bladder Wall Changes in Prostate Cancer Patients: A Relationship with Radiation Dose and Toxicity. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2019, 50, 252-260.	0.3	35
9	Dosimetric characteristics of PASSAG as a new polymer gel dosimeter with negligible toxicity. <i>Radiation Physics and Chemistry</i> , 2018, 147, 91-100.	2.8	33
10	Magnetic resonance imaging radiomic feature analysis of radiation-induced femoral head changes in prostate cancer radiotherapy. <i>Journal of Cancer Research and Therapeutics</i> , 2019, 15, 11.	0.9	30
11	Test-Retest Reproducibility and Robustness Analysis of Recurrent Glioblastoma MRI Radiomics Texture Features. <i>Iranian Journal of Radiology</i> , 2017, Special iss, .	0.2	30
12	Application of Gafchromic EBT2 film for intraoperative radiation therapy quality assurance. <i>Physica Medica</i> , 2015, 31, 314-319.	0.7	29
13	Evaluation of the combined effect of NIR laser and ionizing radiation on cellular damages induced by IUdR-loaded PLGA-coated Nano-graphene oxide. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 21, 91-97.	2.6	29
14	Evaluating the performance characteristics of some ion chamber dosimeters in high dose per pulse intraoperative electron beam radiation therapy. <i>Physica Medica</i> , 2019, 58, 81-89.	0.7	22
15	Evaluation of combined effect of hyperthermia and ionizing radiation on cytotoxic damages induced by IUdR-loaded PCL-PEG-coated magnetic nanoparticles in spheroid culture of U87MG glioblastoma cell line. <i>International Journal of Radiation Biology</i> , 2018, 94, 1027-1037.	1.8	21
16	New physical approaches to treat cancer stem cells: a review. <i>Clinical and Translational Oncology</i> , 2018, 20, 1502-1521.	2.4	21
17	Breast intraoperative electron radiotherapy: Image-based setup verification and in-vivo dosimetry. <i>Physica Medica</i> , 2019, 60, 37-43.	0.7	21
18	Unsupervised pseudo CT generation using heterogenous multicentric CT/MR images and CycleGAN: Dosimetric assessment for 3D conformal radiotherapy. <i>Computers in Biology and Medicine</i> , 2022, 143, 105277.	7.0	21

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19	Radiation dose in cardiac SPECT/CT: An estimation of SSDE and effective dose. <i>European Journal of Radiology</i> , 2016, 85, 2257-2261.	2.6	19
20	Enhanced radiosensitivity of LNCaP prostate cancer cell line by gold-photoactive nanoparticles modified with folic acid. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020, 29, 101602.	2.6	18
21	Evaluation of the effect of hyperthermia and electron radiation on prostate cancer stem cells. <i>Radiation and Environmental Biophysics</i> , 2018, 57, 133-142.	1.4	17
22	Rectal retractor application during image-guided dose-escalated prostate radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2019, 195, 923-933.	2.0	17
23	Evaluation of deformable image registration algorithm for determination of accumulated dose for brachytherapy of cervical cancer patients. <i>Journal of Contemporary Brachytherapy</i> , 2019, 11, 469-478.	0.9	15
24	Radio-sensitivity enhancement in HT29 cells through magnetic hyperthermia in combination with targeted nano-carrier of 5-Flourouracil. <i>Materials Science and Engineering C</i> , 2021, 124, 112043.	7.3	15
25	Dose distribution verification for GYN brachytherapy using EBT Gafchromic film and TG-43 calculation. <i>Reports of Practical Oncology and Radiotherapy</i> , 2016, 21, 480-486.	0.6	14
26	Sensitization of glioblastoma cancer cells to radiotherapy and magnetic hyperthermia by targeted temozolomide-loaded magnetite tri-block copolymer nanoparticles as a nanotheranostic agent. <i>Life Sciences</i> , 2022, 306, 120729.	4.3	14
27	An analytical model to determine interseed attenuation effect in low-dose-rate brachytherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2013, 14, 150-163.	1.9	11
28	Normal tissue complication probability modeling of radiation-induced sensorineural hearing loss after head-and-neck radiation therapy. <i>International Journal of Radiation Biology</i> , 2017, 93, 1327-1333.	1.8	10
29	Assessment of photon energy and dose rate dependence of U-NIPAM polymer gel dosimeter. <i>Radiation Physics and Chemistry</i> , 2020, 172, 108784.	2.8	9
30	A comprehensive procedure for characterizing arbitrary azimuthally symmetric photon beams. <i>Physica Medica</i> , 2014, 30, 191-201.	0.7	7
31	High-Dose-Rate ¹⁹² Ir Brachytherapy Dose Verification: A Phantom Study. <i>Iranian Journal of Cancer Prevention</i> , 2015, 8, e2330.	0.7	7
32	Cytotoxic effects of hyperthermia, chemotherapy (Navelbine) and radiation on glioma spheroids. <i>Radiation Physics and Chemistry</i> , 2016, 123, 20-24.	2.8	7
33	Comparison of radiation and chemoradiation-induced sensorineural hearing loss in head and neck cancer patients. <i>Journal of Cancer Research and Therapeutics</i> , 2020, 16, 539-545.	0.9	7
34	Target motion management in breast cancer radiation therapy. <i>Radiology and Oncology</i> , 2021, 55, 393-408.	1.7	7
35	Outcome of hypofractionated breast irradiation and intraoperative electron boost in early breast cancer: A randomized non-inferiority clinical trial. <i>Cancer Reports</i> , 2021, 4, e1376.	1.4	6
36	Fiducial markers in prostate cancer image-guided radiotherapy. <i>Medical Journal of the Islamic Republic of Iran</i> , 2019, 33, 15.	0.9	6

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37	The Scatter Search Based Algorithm for Beam Angle Optimization in Intensity-Modulated Radiation Therapy. <i>Computational and Mathematical Methods in Medicine</i> , 2018, 2018, 1-10.	1.3	5
38	Application of rectal retractor for postprostatectomy salvage radiotherapy of prostate cancer: A case report and literature review. <i>Clinical Case Reports (discontinued)</i> , 2019, 7, 2102-2107.	0.5	5
39	Effectiveness of rectal displacement devices during prostate external-beam radiation therapy: A review. <i>Journal of Cancer Research and Therapeutics</i> , 2021, 17, 303.	0.9	5
40	Metal artifact reduction in computed tomography images based on developed generative adversarial neural network. <i>Informatics in Medicine Unlocked</i> , 2021, 24, 100573.	3.4	5
41	The Role of Radiofrequency Hyperthermia in The Radiosensitization of A Human Prostate Cancer Cell Line. <i>Cell Journal</i> , 2017, 19, 86-95.	0.2	5
42	Dosimetry of MammoSite [®] applicator: Comparison between Monte Carlo simulation, measurements, and treatment planning calculation. <i>Journal of Cancer Research and Therapeutics</i> , 2013, 9, 224.	0.9	3
43	Capacitive hyperthermia as an alternative to brachytherapy in DNA damages of human prostate cancer cell line (DU-145). <i>International Journal of Radiation Biology</i> , 2019, 95, 193-200.	1.8	3
44	Rectal wall sparing effect of a rectal retractor in prostate intensity-modulated radiotherapy. <i>Journal of Cancer Research and Therapeutics</i> , 2021, 17, 383.	0.9	3
45	Enhancement of Radio-Thermo-Sensitivity of 5-Iodo-2-Deoxyuridine-Loaded Polymeric-Coated Magnetic Nanoparticles Triggers Apoptosis in U87MG Human Glioblastoma Cancer Cell Line. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 365-377.	2.1	3
46	Investigating dose homogeneity in radiotherapy of oral cancers in the presence of a dental implant system: an in vitro phantom study. <i>International Journal of Implant Dentistry</i> , 2021, 7, 90.	2.7	3
47	Comparison of IORT (Radical and Boost Dose) and EBRT in Terms of Disease-Free Survival and Overall Survival according to Demographic, Pathologic, and Biological Factors in Patients with Breast Cancer. <i>International Journal of Surgical Oncology</i> , 2021, 2021, 1-9.	0.6	2
48	Enhanced DNA Damages of Human Prostate Cancer Cells Induced by Radiofrequency Capacitive Hyperthermia Pre- and Post X-rays: 6 MV versus 15 MV. <i>Cell Journal</i> , 2017, 19, 79-85.	0.2	2
49	Outcomes of Breast Cancer (Invasive Lobular and Ductal Carcinoma) Treated with Boost Intraoperative Electron Radiotherapy Versus Conventional External Beam Radiotherapy. <i>International Journal of Cancer Management</i> , 2019, In Press, .	0.4	2
50	Effect of Post IORT Wound Fluid Secretion (PIWFS) on the Behavior of Breast Cancer Cells: Stimulator or Inhibitor; Report of an Experimental Study on Breast Cancer. <i>Archives of Iranian Medicine</i> , 2022, 25, 78-84.	0.6	2
51	Organ at risk dose calculation for left sided breast cancer treatments using intraoperative electron radiotherapy: A Monte Carlo-based feasibility study. <i>Applied Radiation and Isotopes</i> , 2020, 156, 108977.	1.5	1
52	Clinical effects of rectal retractor application in prostate cancer radiotherapy. <i>Medical Journal of the Islamic Republic of Iran</i> , 2021, 35, 69.	0.9	1
53	Measurement of the contralateral breast photon and neutron dose in breast cancer radiotherapy: A Monte Carlo study. <i>Journal of Cancer Research and Therapeutics</i> , 2019, 15, 1018.	0.9	1
54	Dosimetric optimization of a colpostat in a ⁶⁰ Co high-dose-rate brachytherapy unit for bladder sparing. <i>Brachytherapy</i> , 2015, 14, 37-45.	0.5	0

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55	Comparison of dosimetric characteristics of physical wedge and enhanced dynamic wedge in inhomogeneous medium using Monte Carlo simulations. Reports of Practical Oncology and Radiotherapy, 2021, 26, 59-65.	0.6	0
56	Commissioning and quality assurance of Euromechanics add-on multileaf collimator. Biomedical Physics and Engineering Express, 2021, 7, 015019.	1.2	0
57	Global and spatial dosimetric characteristics of N-vinylpyrrolidone-based polymer gel dosimeters as a function of medium-term post-preparation and post-irradiation time. Radiation Physics and Chemistry, 2022, 198, 110280.	2.8	0