Seied Rabi Mahdavi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Machine learning-based radiomic models to predict intensity-modulated radiation therapy response, Gleason score and stage in prostate cancer. Radiologia Medica, 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. Physica Medica, 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. International Journal of Radiation Biology, 2014, 90, 351-356.	1.8	70
4	CT imaging markers to improve radiation toxicity prediction in prostate cancer radiotherapy by stacking regression algorithm. Radiologia Medica, 2020, 125, 87-97.	7.7	64
5	Rectal wall MRI radiomics in prostate cancer patients: prediction of and correlation with early rectal toxicity. International Journal of Radiation Biology, 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. IEEE Transactions on Nanobioscience, 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. Journal of Photochemistry and Photobiology B: Biology, 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. Journal of Medical Imaging and Radiation Sciences, 2019, 50, 252-260.	0.3	35
9	Dosimetric characteristics of PASSAG as a new polymer gel dosimeter with negligible toxicity. Radiation Physics and Chemistry, 2018, 147, 91-100.	2.8	33
10	Magnetic resonance imaging radiomic feature analysis of radiation-induced femoral head changes in prostate cancer radiotherapy. Journal of Cancer Research and Therapeutics, 2019, 15, 11.	0.9	30
11	Test-Retest Reproducibility and Robustness Analysis of Recurrent Glioblastoma MRI Radiomics Texture Features. Iranian Journal of Radiology, 2017, Special iss, .	0.2	30
12	Application of Gafchromic EBT2 film for intraoperative radiation therapy quality assurance. Physica Medica, 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. Photodiagnosis and Photodynamic Therapy, 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. Physica Medica, 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. International Journal of Radiation Biology, 2018, 94, 1027-1037.	1.8	21
16	New physical approaches to treat cancer stem cells: a review. Clinical and Translational Oncology, 2018, 20, 1502-1521.	2.4	21
17	Breast intraoperative electron radiotherapy: Image-based setup verification and in-vivo dosimetry. Physica Medica, 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. Computers in Biology and Medicine, 2022, 143, 105277.	7.0	21

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19	Radiation dose in cardiac SPECT/CT: An estimation of SSDE and effective dose. European Journal of Radiology, 2016, 85, 2257-2261.	2.6	19
20	Enhanced radiosensitivity of LNCaP prostate cancer cell line by gold-photoactive nanoparticles modified with folic acid. Photodiagnosis and Photodynamic Therapy, 2020, 29, 101602.	2.6	18
21	Evaluation of the effect of hyperthermia and electron radiation on prostate cancer stem cells. Radiation and Environmental Biophysics, 2018, 57, 133-142.	1.4	17
22	Rectal retractor application during image-guided dose-escalated prostate radiotherapy. Strahlentherapie Und Onkologie, 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. Journal of Contemporary Brachytherapy, 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. Materials Science and Engineering C, 2021, 124, 112043.	7.3	15
25	Dose distribution verification for GYN brachytherapy using EBT Gafchromic film and TG-43 calculation. Reports of Practical Oncology and Radiotherapy, 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. Life Sciences, 2022, 306, 120729.	4.3	14
27	An analytical model to determine interseed attenuation effect in lowâ€doseâ€rate brachytherapy. Journal of Applied Clinical Medical Physics, 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. International Journal of Radiation Biology, 2017, 93, 1327-1333.	1.8	10
29	Assessment of photon energy and dose rate dependence of U-NIPAM polymer gel dosimeter. Radiation Physics and Chemistry, 2020, 172, 108784.	2.8	9
30	A comprehensive procedure for characterizing arbitrary azimuthally symmetric photon beams. Physica Medica, 2014, 30, 191-201.	0.7	7
31	High-Dose-Rate 192Ir Brachytherapy Dose Verification: A Phantom Study. Iranian Journal of Cancer Prevention, 2015, 8, e2330.	0.7	7
32	Cytotoxic effects of hyperthermia, chemotherapy (Navelbine) and radiation on glioma spheroids. Radiation Physics and Chemistry, 2016, 123, 20-24.	2.8	7
33	Comparison of radiation and chemoradiation-induced sensorineural hearing loss in head and neck cancer patients. Journal of Cancer Research and Therapeutics, 2020, 16, 539-545.	0.9	7
34	Target motion management in breast cancer radiation therapy. Radiology and Oncology, 2021, 55, 393-408.	1.7	7
35	Outcome of hypofractionated breast irradiation and intraoperative electron boost in early breast cancer: A randomized nonâ€inferiority clinical trial. Cancer Reports, 2021, 4, e1376.	1.4	6
36	Fiducial markers in prostate cancer image-guided radiotherapy. Medical Journal of the Islamic Republic of Iran, 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. Computational and Mathematical Methods in Medicine, 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. Clinical Case Reports (discontinued), 2019, 7, 2102-2107.	0.5	5
39	Effectiveness of rectal displacement devices during prostate external-beam radiation therapy: A review. Journal of Cancer Research and Therapeutics, 2021, 17, 303.	0.9	5
40	Metal artifact reduction in computed tomography images based on developed generative adversarial neural network. Informatics in Medicine Unlocked, 2021, 24, 100573.	3.4	5
41	The Role of Radiofrequency Hyperthermia in The Radiosensitization of A Human Prostate Cancer Cell Line. Cell Journal, 2017, 19, 86-95.	0.2	5
42	Dosimetry of MammoSite [®] applicator: Comparison between Monte Carlo simulation, measurements, and treatment planning calculation. Journal of Cancer Research and Therapeutics, 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). International Journal of Radiation Biology, 2019, 95, 193-200.	1.8	3
44	Rectal wall sparing effect of a rectal retractor in prostate intensity-modulated radiotherapy. Journal of Cancer Research and Therapeutics, 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. Cellular and Molecular Bioengineering, 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. International Journal of Implant Dentistry, 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. International Journal of Surgical Oncology, 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. Cell Journal, 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. International Journal of Cancer Management, 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. Archives of Iranian Medicine, 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. Applied Radiation and Isotopes, 2020, 156, 108977.	1.5	1
52	Clinical effects of rectal retractor application in prostate cancer radiotherapy. Medical Journal of the Islamic Republic of Iran, 2021, 35, 69.	0.9	1
53	Measurement of the contralateral breast photon and neutron dose in breast cancer radiotherapy: A Monte Carlo study. Journal of Cancer Research and Therapeutics, 2019, 15, 1018.	0.9	1
54	Dosimetric optimization of a colpostat in a 60Co high-dose-rate brachytherapy unit for bladder sparing. Brachytherapy, 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