

Salahuddin Ahmad

List of Publications by Year in descending order

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55
papers

246
citations

1163117

8
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1125743

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all docs

55
docs citations

55
times ranked

324
citing authors

#	ARTICLE	IF	CITATIONS
1	Dosimetric study of the interplay effect using three-dimensional motion phantom in proton pencil beam scanning treatment of moving thoracic tumours. <i>Journal of Radiotherapy in Practice</i> , 2023, 22, .	0.5	1
2	Dosimetric analysis and comparison of volumetric-modulated arc therapy versus intensity-modulated radiation therapy for liver carcinoma. <i>Journal of Radiotherapy in Practice</i> , 2022, 21, 138-140.	0.5	1
3	Neutron radiation effects on microcomputers in radiation therapy environments. <i>Journal of Radiotherapy in Practice</i> , 2022, 21, 125-128.	0.5	0
4	Is IMRT or VMAT superior or inferior to 3D conformal therapy in the treatment of lung cancer? A brief literature review. <i>Journal of Radiotherapy in Practice</i> , 2022, 21, 416-420.	0.5	4
5	3D conformal, IMRT and VMAT for the treatment of head and neck cancer: a brief literature review. <i>Journal of Radiotherapy in Practice</i> , 2022, 21, 259-262.	0.5	3
6	Quantitative evaluation of dosimetric uncertainties in electron therapy by measurement and calculation using the electron Monte Carlo dose algorithm in the Eclipse treatment planning system. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, .	1.9	4
7	Quantitative evaluation of dosimetric uncertainties associated with small electron fields. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2022, 53, 273-282.	0.3	2
8	Ocular malignancies treated with iodine-125 low dose rate (LDR) brachytherapy at a single high-volume institution: A retrospective review. <i>Medical Dosimetry</i> , 2022, , .	0.9	0
9	Should inflammatory bowel disease be a contraindication to radiation therapy: a systematic review of acute and late toxicities. <i>Journal of Radiotherapy in Practice</i> , 2021, 20, 480-489.	0.5	3
10	Developing a Monte Carlo model for MEVION S250i with HYPERSCAN and Adaptive Aperture, pencil beam scanning proton therapy system. <i>Journal of Radiotherapy in Practice</i> , 2021, 20, 279-286.	0.5	9
11	Performance evaluation of adaptive aperture's static and dynamic collimation in a compact pencil beam scanning proton therapy system: A dosimetric comparison study for multiple disease sites. <i>Medical Dosimetry</i> , 2021, 46, 179-187.	0.9	6
12	Quantitative assessment of the production of radioactive materials by the Mevion S250i Hyperscan proton therapy system: a year-long survey. <i>Journal of Radiotherapy in Practice</i> , 2021, 20, 361-364.	0.5	1
13	Toward <i>in vivo</i> Dosimetry for Prostate Radiotherapy With a Transperineal Ultrasound Array: A Simulation Study. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 373-382.	3.7	8
14	Intensity-modulated proton therapy (IMPT) versus intensity-modulated radiation therapy (IMRT) for the treatment of head and neck cancer: A dosimetric comparison. <i>Medical Dosimetry</i> , 2021, 46, 259-263.	0.9	11
15	Characterization of penumbra sharpening and scattering by adaptive aperture for a compact pencil beam scanning proton therapy system. <i>Medical Physics</i> , 2021, 48, 1508-1519.	3.0	9
16	Dosimetric Effect of Biozorb Markers for Accelerated Partial Breast Irradiation in Proton Therapy. <i>International Journal of Particle Therapy</i> , 2021, 7, 19-28.	1.8	0
17	Dosimetric comparison of volumetric modulated arc therapy and intensity modulated radiation therapy for anal cancer. <i>Journal of Radiotherapy in Practice</i> , 2020, 19, 190-192.	0.5	0
18	Correlation of displacement vector fields calculated by different deformable image registration algorithms with motion parameters in helical, axial and cone beam CT imaging. <i>Journal of Radiotherapy in Practice</i> , 2020, 19, 219-225.	0.5	0

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19	Prediction of the output factor using machine and deep learning approach in uniform scanning proton therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 128-134.	1.9	8
20	Prone treatment position as a novel option for head and neck cancer patients with unmanageable secretions. <i>Journal of Radiotherapy in Practice</i> , 2020, , 1-3.	0.5	0
21	X-ray induced acoustic computed tomography for guiding prone stereotactic partial breast irradiation: a simulation study. <i>Medical Physics</i> , 2020, 47, 4386-4395.	3.0	6
22	Role of fiducial markers in the assessment of prostate bed motion in post-prostatectomy patients treated with volumetric modulated arc therapy. <i>Journal of Radiotherapy in Practice</i> , 2020, 19, 299-304.	0.5	0
23	Simulation study of proton arc therapy with the compact single-room MEVION-S250 proton therapy system. <i>Journal of Radiotherapy in Practice</i> , 2020, 19, 347-354.	0.5	1
24	Radiation treatment to a postresection primary mucoepidermoid carcinoma (MEC) of the conjunctiva with positive margins at the Tenon's fascia—A case study. <i>Medical Dosimetry</i> , 2019, 44, 245-250.	0.9	1
25	A complete workflow for utilizing Monte Carlo toolkits in clinical cases for a double-scattering proton therapy system. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 23-30.	1.9	3
26	Quantitative evaluation of the performance of different deformable image registration algorithms in helical, axial, and cone-beam CT images using a mobile phantom. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 62-73.	1.9	3
27	Shielding verification and neutron dose evaluation of the Mevion S250 proton therapy unit. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 305-310.	1.9	15
28	Investigation on Patient/Compensator Scatter Factor for Monitor Unit Calculation in Proton Therapy. <i>International Journal of Particle Therapy</i> , 2018, 5, 38-49.	1.8	0
29	TOPAS Simulation of the Mevion S250 compact proton therapy unit. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 88-95.	1.9	19
30	Comparability of three output prediction models for a compact passively double-scattered proton therapy system. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 108-117.	1.9	5
31	Quantitative evaluation by measurement and modeling of the variations in dose distributions deposited in mobile targets. <i>Journal of X-Ray Science and Technology</i> , 2017, 25, 573-583.	1.0	1
32	Commissioning of a relative stopping power to Hounsfield unit calibration curve for a Mevion proton radiation treatment unit. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
33	Dosimetric evaluation of tissue heterogeneity for electronic brachytherapy (EBT) source in high dose rate gynecological (GYN) irradiation. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
34	Comparison of volumetric modulated arc therapy (VMAT) and intensity modulated radiation therapy (IMRT) plans for the treatment of left sided breast and regional lymphatic tissue. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
35	A motion algorithm to extract physical and motion parameters of mobile targets from cone-beam computed tomographic images. <i>Journal of X-Ray Science and Technology</i> , 2016, 24, 599-613.	1.0	2
36	Implementation of output prediction models for a passively double-scattered proton therapy system. <i>Medical Physics</i> , 2016, 43, 6089-6097.	3.0	7

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37	Normal Brain Sparing With Increasing Number of Beams and Isocenters in Volumetric-Modulated Arc Beam Radiosurgery of Multiple Brain Metastases. <i>Technology in Cancer Research and Treatment</i> , 2016, 15, 766-771.	1.9	11
38	Dosimetric comparison of intracranial metastasis treatment using two radiosurgery systems: TrueBeam STx with VMAT and Gamma Knife Model 4C. <i>Journal of Radiosurgery and SBRT</i> , 2016, 4, 235-243.	0.2	0
39	Minimizing normal tissue dose spillage via broad-range optimization of hundreds of intensity modulated beams for treating multiple brain targets. <i>Journal of Radiosurgery and SBRT</i> , 2016, 4, 107-115.	0.2	0
40	Comparison of doses received by the hippocampus in patients treated with single isocenter vs multiple isocenter based stereotactic radiation therapy to the brain for multiple brain metastases. <i>Medical Dosimetry</i> , 2015, 40, 314-317.	0.9	4
41	Dosimetric and radiobiologic comparison of 3D conformal, IMRT, VMAT and proton therapy for the treatment of early stage glottic cancer. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2015, 59, 221-228.	1.8	23
42	Theoretical modeling of mobile target broadening in helical and axial computed tomographic imaging. <i>Journal of X-Ray Science and Technology</i> , 2014, 22, 351-360.	1.0	1
43	A comparison of the sixth and seventh editions of the AJCC TNM systems for T classification and predicting the outcomes of advanced (T2-T4) non-melanoma skin cancers treated with radiotherapy. <i>Journal of Radiation Oncology</i> , 2013, 2, 79-85.	0.7	0
44	The role of radiotherapy for large and locally advanced non-melanoma skin carcinoma. <i>Journal of Radiotherapy in Practice</i> , 2013, 12, 56-65.	0.5	1
45	Dosimetric comparison between IMRT delivery modes: Step-and-shoot, sliding window, and volumetric modulated arc therapy - for whole pelvis radiation therapy of intermediate-to-high risk prostate adenocarcinoma. <i>Journal of Medical Physics</i> , 2013, 38, 165.	0.3	19
46	PET-based GTV definition is the future of radiotherapy treatment planning. <i>Medical Physics</i> , 2012, 39, 5791-5794.	3.0	0
47	Stereotactic body radiation therapy (SBRT) and respiratory gating in lung cancer: dosimetric and radiobiological considerations. <i>Journal of Applied Clinical Medical Physics</i> , 2010, 11, 158-169.	1.9	16
48	Comparison of tumor and normal tissue dose for accelerated partial breast irradiation using an electronic brachytherapy eBx source and an Iridium-192 source. <i>Journal of Applied Clinical Medical Physics</i> , 2010, 11, 155-161.	1.9	6
49	Intensity modulated radiation therapy versus three dimensional conformal radiation therapy for treatment of high grade glioma: A radiobiological modeling study. <i>Journal of X-Ray Science and Technology</i> , 2010, 18, 393-402.	1.0	4
50	Tumor control probability (TCP) in prostate cancer: Role of radiobiological parameters and radiation dose escalation. <i>Journal of X-Ray Science and Technology</i> , 2009, 17, 347-354.	1.0	7
51	Impact of Respiratory Gating Using 4-Dimensional Computed Tomography on the Dosimetry of Tumor and Normal Tissues in Patients With Thoracic Malignancies. <i>American Journal of Clinical Oncology: Cancer Clinical Trials</i> , 2009, 32, 262-268.	1.3	20
52	Novel use of a vaginal cylinder purposed dually as obturator and localiser for stereotactic ablative radiotherapy delivery. <i>Journal of Radiotherapy in Practice</i> , 0, , 1-4.	0.5	0
53	Spontaneous regression of Merkel cell carcinoma in anterior mediastinum without cutaneous involvement. <i>Journal of Radiotherapy in Practice</i> , 0, , 1-2.	0.5	0
54	Rural disparities in head and neck cancer from 2017 to 2021: a single institution analysis. <i>Journal of Radiotherapy in Practice</i> , 0, , 1-7.	0.5	0

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55	A dosimetric comparison of proton versus photon irradiation for paediatric glomus tumour: a case study. <i>Journal of Radiotherapy in Practice</i> , 0, , 1-4.	0.5	0