

# Salahuddin Ahmad

## List of Publications by Year in descending order

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55  
papers

246  
citations

1163117

8  
h-index

1125743

13  
g-index

55  
all docs

55  
docs citations

55  
times ranked

324  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dosimetric and radiobiologic comparison of 3D conformal, IMRT, VMAT and proton therapy for the treatment of early-stage glottic cancer. Journal of Medical Imaging and Radiation Oncology, 2015, 59, 221-228.	1.8	23
2	Impact of Respiratory Gating Using 4-Dimensional Computed Tomography on the Dosimetry of Tumor and Normal Tissues in Patients With Thoracic Malignancies. American Journal of Clinical Oncology: Cancer Clinical Trials, 2009, 32, 262-268.	1.3	20
3	TOPAS Simulation of the Mevion S250 compact proton therapy unit. Journal of Applied Clinical Medical Physics, 2017, 18, 88-95.	1.9	19
4	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. Journal of Medical Physics, 2013, 38, 165.	0.3	19
5	Stereotactic body radiation therapy (SBRT) and respiratory gating in lung cancer: dosimetric and radiobiological considerations. Journal of Applied Clinical Medical Physics, 2010, 11, 158-169.	1.9	16
6	Shielding verification and neutron dose evaluation of the Mevion S250 proton therapy unit. Journal of Applied Clinical Medical Physics, 2018, 19, 305-310.	1.9	15
7	Normal Brain Sparing With Increasing Number of Beams and Isocenters in Volumetric-Modulated Arc Beam Radiosurgery of Multiple Brain Metastases. Technology in Cancer Research and Treatment, 2016, 15, 766-771.	1.9	11
8	Intensity-modulated proton therapy (IMPT) versus intensity-modulated radiation therapy (IMRT) for the treatment of head and neck cancer: A dosimetric comparison. Medical Dosimetry, 2021, 46, 259-263.	0.9	11
9	Developing a Monte Carlo model for MEVION S250i with HYPERSCAN and Adaptive Aperture pencil beam scanning proton therapy system. Journal of Radiotherapy in Practice, 2021, 20, 279-286.	0.5	9
10	Characterization of penumbra sharpening and scattering by adaptive aperture for a compact pencil beam scanning proton therapy system. Medical Physics, 2021, 48, 1508-1519.	3.0	9
11	Prediction of the output factor using machine and deep learning approach in uniform scanning proton therapy. Journal of Applied Clinical Medical Physics, 2020, 21, 128-134.	1.9	8
12	Toward <i>in vivo</i> Dosimetry for Prostate Radiotherapy With a Transperineal Ultrasound Array: A Simulation Study. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 373-382.	3.7	8
13	Tumor control probability (TCP) in prostate cancer: Role of radiobiological parameters and radiation dose escalation. Journal of X-Ray Science and Technology, 2009, 17, 347-354.	1.0	7
14	Implementation of output prediction models for a passively double-scattered proton therapy system. Medical Physics, 2016, 43, 6089-6097.	3.0	7
15	Comparison of tumor and normal tissue dose for accelerated partial breast irradiation using an electronic brachytherapy eBx source and an Iridium-192 source. Journal of Applied Clinical Medical Physics, 2010, 11, 155-161.	1.9	6
16	X-ray-induced acoustic computed tomography for guiding prone stereotactic partial breast irradiation: a simulation study. Medical Physics, 2020, 47, 4386-4395.	3.0	6
17	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. Medical Dosimetry, 2021, 46, 179-187.	0.9	6
18	Comparability of three output prediction models for a compact passively double-scattered proton therapy system. Journal of Applied Clinical Medical Physics, 2017, 18, 108-117.	1.9	5

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19	Intensity modulated radiation therapy versus three dimensional conformal radiation therapy for treatment of high grade glioma: A radiobiological modeling study. Journal of X-Ray Science and Technology, 2010, 18, 393-402.	1.0	4
20	Comparison of doses received by the hippocampus in patients treated with single isocenterâ€“ vs multiple isocenterâ€“based stereotactic radiation therapy to the brain for multiple brain metastases. Medical Dosimetry, 2015, 40, 314-317.	0.9	4
21	Is IMRT or VMAT superior or inferior to 3D conformal therapy in the treatment of lung cancer? A brief literature review. Journal of Radiotherapy in Practice, 2022, 21, 416-420.	0.5	4
22	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. Journal of Applied Clinical Medical Physics, 2022, 23, .	1.9	4
23	Quantitative evaluation of the performance of different deformable image registration algorithms in helical, axial, and coneâ€“beam <scp>CT</scp> images using a mobile phantom. Journal of Applied Clinical Medical Physics, 2018, 19, 62-73.	1.9	3
24	A complete workflow for utilizing Monte Carlo toolkits in clinical cases for a doubleâ€“scattering proton therapy system. Journal of Applied Clinical Medical Physics, 2019, 20, 23-30.	1.9	3
25	Should inflammatory bowel disease be a contraindication to radiation therapy: a systematic review of acute and late toxicities. Journal of Radiotherapy in Practice, 2021, 20, 480-489.	0.5	3
26	3D conformal, IMRT and VMAT for the treatment of head and neck cancer: a brief literature review. Journal of Radiotherapy in Practice, 2022, 21, 259-262.	0.5	3
27	A motion algorithm to extract physical and motion parameters of mobile targets from cone-beam computed tomographic images. Journal of X-Ray Science and Technology, 2016, 24, 599-613.	1.0	2
28	Quantitative evaluation of dosimetric uncertainties associated with small electron fields. Journal of Medical Imaging and Radiation Sciences, 2022, 53, 273-282.	0.3	2
29	The role of radiotherapy for large and locally advanced non-melanoma skin carcinoma. Journal of Radiotherapy in Practice, 2013, 12, 56-65.	0.5	1
30	Theoretical modeling of mobile target broadening in helical and axial computed tomographic imaging. Journal of X-Ray Science and Technology, 2014, 22, 351-360.	1.0	1
31	Commissioning of a relative stopping power to Hounsfield unit calibration curve for a Mevion proton radiation treatment unit. AIP Conference Proceedings, 2016, , .	0.4	1
32	Quantitative evaluation by measurement and modeling of the variations in dose distributions deposited in mobile targets. Journal of X-Ray Science and Technology, 2017, 25, 573-583.	1.0	1
33	Radiation treatment to a postresection primary mucoepidermoid carcinoma (MEC) of the conjunctiva with positive margins at the Tenon's fasciaâ€“A case study. Medical Dosimetry, 2019, 44, 245-250.	0.9	1
34	Dosimetric analysis and comparison of volumetric-modulated arc therapy versus intensity-modulated radiation therapy for liver carcinoma. Journal of Radiotherapy in Practice, 2022, 21, 138-140.	0.5	1
35	Simulation study of proton arc therapy with the compact single-room MEVION-S250 proton therapy system. Journal of Radiotherapy in Practice, 2020, 19, 347-354.	0.5	1
36	Quantitative assessment of the production of radioactive materials by the Mevion S250i Hyperscan proton therapy system: a year-long survey. Journal of Radiotherapy in Practice, 2021, 20, 361-364.	0.5	1

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37	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
38	PETâ€¢based GTV definition is the future of radiotherapy treatment planning. <i>Medical Physics</i> , 2012, 39, 5791-5794.	3.0	0
39	A comparison of the sixth and seventh editions of the AJCC TNM systems for T classification and predicting the outcomes of advanced (T2â€¢T4) non-melanoma skin cancers treated with radiotherapy. <i>Journal of Radiation Oncology</i> , 2013, 2, 79-85.	0.7	0
40	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
41	Comparison of volumetric modulated arc therapy (VMAT) and intensity modulated radiation therapy (IMRT) plannings for the treatment of left sided breast and regional lymphatic tissue. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
42	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
43	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
44	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
45	Neutron radiation effects on microcomputers in radiation therapy environments. <i>Journal of Radiotherapy in Practice</i> , 2022, 21, 125-128.	0.5	0
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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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