Rao F Khan

List of Publications by Year
in descending order

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53	546	840119 11	752256 20
papers	citations	h-index	g-index

53	53	53	684
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photon beam energy dependent single-arc volumetric modulated arc optimization. Physica Medica, 2021, 82, 122-133.	0.4	2
2	Radiobiological impact of gadolinium neutron capture from proton therapy and alternative neutron sources using TOPASâ€nBio. Medical Physics, 2021, 48, 4004-4016.	1.6	3
3	Investigating neutron activated contrast agent imaging for tumor localization in proton therapy: a feasibility study for proton neutron gamma-x detection (PNGXD). Physics in Medicine and Biology, 2020, 65, 035005.	1.6	3
4	Neutron activation of gadolinium for ion therapy: a Monte Carlo study of charged particle beams. Scientific Reports, 2020, 10, 13417.	1.6	8
5	Mitigating disruptions, and scalability of radiation oncology physics work during the COVIDâ€19 pandemic. Journal of Applied Clinical Medical Physics, 2020, 21, 187-195.	0.8	9
6	Influence of 0.35ÂT magnetic field on the response of EBT3 and EBTâ€XD radiochromic films. Medical Physics, 2020, 47, 4543-4552.	1.6	7
7	Evolution of clinical radiotherapy physics practice under COVID-19 constraints. Radiotherapy and Oncology, 2020, 148, 274-278.	0.3	9
8	Neutron measurements with a CdTe spectrometer on a proton therapy unit. Radiation Measurements, 2020, 135, 106377.	0.7	4
9	Spectroscopic analysis of irradiated radiochromic EBT-XD films in proton and photon beams. Physics in Medicine and Biology, 2020, 65, 205002.	1.6	8
10	Telecommuting: A viable option for medical physicists amid theÂCOVIDâ€19Âoutbreak and beyond. Medical Physics, 2020, 47, 2045-2048.	1.6	13
11	Optical spectral analysis of radiochromic films irradiated with radiation therapy beams. , 2020, , .		0
12	Growth kinetics of the EBT3 and EBT-XD films response in radiotherapy beams. , 2020, , .		0
13	Response characterization of EBTâ€XD radiochromic films in megavoltage photon and electron beams. Medical Physics, 2019, 46, 4246-4256.	1.6	30
14	On the spectral characterization of radiochromic films irradiated with clinical proton beams. Physics in Medicine and Biology, 2019, 64, 135016.	1.6	17
15	Simultaneous optimization of mixed photon energy beams in volumetric modulated arc therapy. Medical Physics, 2019, 46, 3844-3863.	1.6	3
16	Evaluation of mixed energy partial arcs for volumetric modulated arc therapy for prostate cancer. Journal of Applied Clinical Medical Physics, 2019, 20, 51-65.	0.8	13
17	Characterizing a Geant4 Monte Carlo model of a multileaf collimator for a TrueBeamâ„¢ linear accelerator. Physica Medica, 2019, 59, 1-12.	0.4	9
18	Design and numerical simulations of W-diamond transmission target for distributed x-ray sources. Biomedical Physics and Engineering Express, 2019, 5, 025030.	0.6	6

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19	Spectral analysis of the EBT3 radiochromic films for clinical photon and electron beams. Medical Physics, 2019, 46, 973-982.	1.6	20
20	Spectroscopic characterization of radiochromic films for radiation therapy dosimetry. , 2019, , .		2
21	Verification of Acuros <scp>XB</scp> dose algorithm using 3D printed lowâ€density phantoms for clinical photon beams. Journal of Applied Clinical Medical Physics, 2018, 19, 32-43.	0.8	9
22	The impact of mass density variations on an electron Monte Carlo algorithm for radiotherapy dose calculations. Physics and Imaging in Radiation Oncology, 2018, 8, 1-7.	1.2	7
23	Comprehensive fluence delivery optimization with multileaf collimation. Biomedical Physics and Engineering Express, 2018, 4, 025021.	0.6	2
24	Radiation therapy for deep periocular cancer treatments when protons are unavailable: is combining electrons and orthovoltage therapy beneficial?. Journal of Radiation Research, 2018, 59, 593-603.	0.8	8
25	Development of multi-pixel x-ray source using oxide-coated cathodes. Physics in Medicine and Biology, 2017, 62, N320-N336.	1.6	7
26	Development of a residency program in radiation oncology physics: an inverse planning approach. Journal of Applied Clinical Medical Physics, 2016, 17, 573-582.	0.8	3
27	Characterization of a 2.5 MV inline portal imaging beam. Journal of Applied Clinical Medical Physics, 2016, 17, 222-234.	0.8	11
28	Modulated photon radiotherapy (XMRT): an algorithm for the simultaneous optimization of photon beamlet energy and intensity in external beam radiotherapy (EBRT) planning. Physics in Medicine and Biology, 2016, 61, 1476-1498.	1.6	9
29	Role of Volumetric-Modulated Arc Therapy with Flattening Filter Free Delivery in Lung Stereotactic Body Radiotherapy. Journal of Medical Imaging and Radiation Sciences, 2016, 47, 155-159.	0.2	3
30	Characterizing 3D printing in the fabrication of variable density phantoms for quality assurance of radiotherapy. Physica Medica, 2016, 32, 242-247.	0.4	103
31	Survival was Significantly Better with Surgical/Medical/Radiation Co-interventions in a Single-Institution Practice Audit of Frameless Stereotactic Radiosurgery. Cureus, 2016, 8, e612.	0.2	3
32	Poster - 52: Smoothing constraints in Modulated Photon Radiotherapy (XMRT) fluence map optimization. Medical Physics, 2016, 43, 4949-4949.	1.6	0
33	Sci-Sat AM: Radiation Dosimetry and Practical Therapy Solutions - 04: On 3D Fabrication of Phantoms and Experimental Verification of Patient Dose Computation Algorithms. Medical Physics, 2016, 43, 4959-4959.	1.6	0
34	Role of in vivo dosimetry with radiochromic films for dose verification during cutaneous radiation therapy. Radiation Oncology, 2015, 10, 12.	1.2	8
35	An open-source genetic algorithm for determining optimal seed distributions for low-dose-rate prostate brachytherapy. Brachytherapy, 2015, 14, 692-702.	0.2	6
36	A preliminary study on the effect of modulated photon radiotherapy (XMRT) optimization for prostate cancer treatment planning. IFMBE Proceedings, 2015, , 417-420.	0.2	0

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37	Effect of Acuros XB algorithm on monitor units for stereotactic body radiotherapy planning of lung cancer. Medical Dosimetry, 2014, 39, 83-87.	0.4	14
38	Is tissue harmonic ultrasound imaging (THI) of the prostatic urethra and rectum superior to brightness (B) mode imaging? An observer study. Physica Medica, 2014, 30, 662-668.	0.4	5
39	Factors influencing intrafractional target shifts in lung stereotactic body radiation therapy. Practical Radiation Oncology, 2014, 4, e45-e51.	1.1	7
40	Clinical impact of using the deterministic patient dose calculation algorithm Acuros XB for lung stereotactic body radiation therapy. Acta OncolÃ³gica, 2014, 53, 324-329.	0.8	42
41	Assessing the deviation from the inverse square law for orthovoltage beams with closedâ€ended applicators. Journal of Applied Clinical Medical Physics, 2014, 15, 356-366.	0.8	20
42	Poster - Thur Eve - 58: Dosimetric validation of electronic compensation for radiotherapy treatment planning. Medical Physics, 2014, 41, 18-19.	1.6	0
43	The influence of target and patient characteristics on the volume obtained from cone beam CT in lung stereotactic body radiation therapy. Radiotherapy and Oncology, 2013, 106, 312-316.	0.3	17
44	Poster - Thur Eve - 12: Dosimetric manifestation of harmonic mode imaging for seed implant brachytherapy. Medical Physics, 2012, 39, 4626-4626.	1.6	0
45	Inter- and Intra-Observer Variability in Prostate Definition With Tissue Harmonic and Brightness Mode Imaging. International Journal of Radiation Oncology Biology Physics, 2012, 82, e9-e16.	0.4	8
46	Implementation of Lung Stereotactic Ablative Radiotherapy at a Regional Cancer Centre. Journal of Medical Imaging and Radiation Sciences, 2012, 43, 245-252.	0.2	1
47	A pre-clinical phantom comparison of tissue harmonic and brightness mode imaging for application in ultrasound guided prostate brachytherapy. Physica Medica, 2011, 27, 153-162.	0.4	4
48	An empirical model of electronic portal imager response implemented within a commercial treatment planning system for verification of intensityâ€modulated radiation therapy fields. Journal of Applied Clinical Medical Physics, 2008, 9, 135-150.	0.8	7
49	Retrospective radiation dosimetry using electron paramagnetic resonance in canine dental enamel. Applied Radiation and Isotopes, 2005, 62, 173-179.	0.7	7
50	Electron spin resonance spectroscopy reveals alpha-phenyl-N-tert-butylnitrone spin-traps free radicals in rat striatum and prevents haloperidol-induced vacuous chewing movements in the rat model of human tardive dyskinesia. Synapse, 2004, 54, 156-163.	0.6	23
51	Dosimetric response evaluation of tooth enamel for accelerator-based neutron radiation. Radiation Measurements, 2003, 37, 355-363.	0.7	8
52	Biophysical dose measurement using electron paramagnetic resonance in rodent teeth. Applied Radiation and Isotopes, 2003, 59, 189-196.	0.7	12
53	Studying the response of CR-39 detectors using the Monte Carlo technique. Radiation Measurements, 2001, 33, 129-137.	0.7	26