Indra J Das

List of Publications by Year in descending order

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85	2,675	279798	189892
papers	citations	23 h-index	50 g-index

86	86	86	2243
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Small fields: Nonequilibrium radiation dosimetry. Medical Physics, 2008, 35, 206-215.	3.0	532
2	Accelerator beam data commissioning equipment and procedures: Report of the TGâ€106 of the Therapy Physics Committee of the AAPM. Medical Physics, 2008, 35, 4186-4215.	3.0	370
3	Intensity-Modulated Radiation Therapy Dose Prescription, Recording, and Delivery: Patterns of Variability Among Institutions and Treatment Planning Systems. Journal of the National Cancer Institute, 2008, 100, 300-307.	6.3	196
4	Report of AAPM Task Group 235 Radiochromic Film Dosimetry: An Update to TGâ€55. Medical Physics, 2020, 47, 5986-6025.	3.0	158
5	<scp>AAPM</scp>â€<scp>RSS</scp> Medical Physics Practice Guideline 9.a. for <scp>SRS</scp>â€<scp>SBRT</scp>. Journal of Applied Clinical Medical Physics, 2017, 18, 10-21.	1.9	112
6	A dosimetric comparison of various multileaf collimators. Physics in Medicine and Biology, 2002, 47, N159-N170.	3.0	110
7	Emerging role of MRI in radiation therapy. Journal of Magnetic Resonance Imaging, 2018, 48, 1468-1478.	3.4	89
8	Variation of kQclin,Qmsrfclin,fmsr for the smallâ€field dosimetric parameters percentage depth dose, tissueâ€maximum ratio, and offâ€axis ratio. Medical Physics, 2014, 41, 101708.	3.0	73
9	Analysis of Treatment Planning Time Among Systems and Planners for Intensity-Modulated Radiation Therapy. Journal of the American College of Radiology, 2009, 6, 514-517.	1.8	57
10	Empowering Intensity Modulated Proton Therapy Through Physics and Technology: An Overview. International Journal of Radiation Oncology Biology Physics, 2017, 99, 304-316.	0.8	56
11	Role and future of MRI in radiation oncology. British Journal of Radiology, 2019, 92, 20180505.	2.2	52
12	Report of AAPM Task Group 155: Megavoltage photon beam dosimetry in small fields and nonâ€equilibrium conditions. Medical Physics, 2021, 48, e886-e921.	3.0	50
13	Evaluation of superficial dosimetry between treatment planning system and measurement for several breast cancer treatment techniques. Medical Physics, 2013, 40, 011714.	3.0	49
14	Characterization of the plastic scintillation detector Exradin W2 for small field dosimetry. Medical Physics, 2019, 46, 2468-2476.	3.0	42
15	Technical Note: Magnetic field effects on Gafchromicâ€film response in MRâ€IGRT. Medical Physics, 2016, 43, 6552-6556.	3.0	38
16	State of dose prescription and compliance to international standard (ICRU-83) in intensity modulated radiation therapy among academic institutions. Practical Radiation Oncology, 2017, 7, e145-e155.	2.1	38
17	Choice of Radiation Detector in Dosimetry of Stereotactic Radiosurgery-Radiotherapy. Journal of Radiosurgery, 2000, 3, 177-186.	0.1	36
18	Computed tomography imaging parameters for inhomogeneity correction in radiation treatment planning. Journal of Medical Physics, 2016, 41, 3.	0.3	36

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19	Evaluation of initial setup errors of two immobilization devices for lung stereotactic body radiation therapy (SBRT). Journal of Applied Clinical Medical Physics, 2017, 18, 62-68.	1.9	33
20	Characteristics of bremsstrahlung in electron beams. Medical Physics, 2001, 28, 1352-1358.	3.0	32
21	Dosimetric evaluation of synthetic CT for magnetic resonance-only based radiotherapy planning of lung cancer. Radiation Oncology, 2017, 12, 108.	2.7	32
22	Characterization of a new commercial single crystal diamond detector for photon- and proton-beam dosimetry. Journal of Radiation Research, 2015, 56, 912-918.	1.6	30
23	Impact of dose size in single fraction spatially fractionated (grid) radiotherapy for melanoma. Medical Physics, 2014, 41, 021727.	3.0	24
24	The dosimetric and radiobiological impact of calculation grid size on head and neck IMRT. Practical Radiation Oncology, 2017, 7, 209-217.	2.1	21
25	Evaluation of sparing organs at risk (<scp>OAR</scp>s) in leftâ€breast irradiation in the supine and prone positions and with deep inspiration breathâ€hold. Journal of Applied Clinical Medical Physics, 2018, 19, 195-204.	1.9	19
26	Transmission and dose perturbations with high-Z materials in clinical electron beams. Medical Physics, 2004, 31, 3213-3221.	3.0	18
27	Dosimetric evaluation of magnetic resonance-generated synthetic CT for radiation treatment of rectal cancer. PLoS ONE, 2018, 13, e0190883.	2.5	18
28	A convolution neural network for higher resolution dose prediction in prostate volumetric modulated arc therapy. Physica Medica, 2020, 72, 88-95.	0.7	17
29	Thermal and temporal response of ionization chambers in radiation dosimetry. Medical Physics, 2004, 31, 573-578.	3.0	16
30	Role of multileaf collimator in replacing shielding blocks in radiation therapy. International Journal of Cancer, 2001, 96, 385-395.	5.1	15
31	A treatment planning approach to spatially fractionated megavoltage grid therapy for bulky lung cancer. Medical Dosimetry, 2014, 39, 218-226.	0.9	15
32	A quality assurance phantom for electronic portal imaging devices. Journal of Applied Clinical Medical Physics, 2011, 12, 391-403.	1.9	14
33	AAPM Task Group 103 report on peer review in clinical radiation oncology physics. Journal of Applied Clinical Medical Physics, 2005, 6, 50-64.	1.9	14
34	Comments on the <scp>TRS</scp>â€483 protocol on small field dosimetry. Medical Physics, 2018, 45, 5666-5668.	3.0	13
35	Small field dose measurements using plastic scintillation detector in heterogeneous media. Medical Physics, 2017, 44, 3815-3820.	3.0	12
36	Deep convolutional neural network for reduction of contrast-enhanced region on CT images. Journal of Radiation Research, 2019, 60, 586-594.	1.6	12

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37	Quality and Safety Considerations in Stereotactic Radiosurgery and Stereotactic Body Radiation Therapy: An ASTRO Safety White Paper Update. Practical Radiation Oncology, 2022, 12, e253-e268.	2.1	12
38	Use of lymphoscintigraphy in radiation treatment of primary breast cancer in the context of lymphedema risk reduction. Radiotherapy and Oncology, 2011, 100, 293-298.	0.6	11
39	Impact of proton beam availability on patient treatment schedule in radiation oncology. Journal of Applied Clinical Medical Physics, 2012, 13, 134-146.	1.9	11
40	Correlation between target volume and electron transport effects affecting heterogeneity corrections in stereotactic body radiotherapy for lung cancer. Journal of Radiation Research, 2014, 55, 754-760.	1.6	11
41	Choice of beam energy and dosimetric implications for radiation treatment in a subpopulation of women with large breasts in the United States and Japan. Medical Dosimetry, 2006, 31, 216-223.	0.9	10
42	Dose perturbation due to metallic breast expander in electron and photon beam treatment of breast cancer. Journal of Radiation Oncology, 2014, 3, 65-72.	0.7	8
43	Dosimetric perturbations at high-Z interfaces with high dose rate 192Ir source. Physica Medica, 2014, 30, 782-790.	0.7	8
44	Organ-specific modulation complexity score for the evaluation of dose delivery. Journal of Radiation Research, 2017, 58, 675-684.	1.6	8
45	Volume effects in radiosurgical spinal cord dose tolerance: how small is too small?. Journal of Radiation Oncology, 2019, 8, 53-61.	0.7	8
46	Towards Accurate and Precise Image-Guided Radiotherapy: Clinical Applications of the MR-Linac. Journal of Clinical Medicine, 2022, 11, 4044.	2.4	8
47	Role of belly board device in the age of intensity modulated radiotherapy for pelvic irradiation. Medical Dosimetry, 2016, 41, 300-304.	0.9	7
48	Dosimetric assessment of tumor control probability in intensity and volumetric modulated radiotherapy plans. British Journal of Radiology, 2019, 92, 20180471.	2.2	7
49	Effect of Scanning Beam for Superficial Dose in Proton Therapy. Technology in Cancer Research and Treatment, 2015, 14, 643-652.	1.9	6
50	Image Guidance-Based Target Volume Margin Expansion in IMRT of Head and Neck Cancer. Technology in Cancer Research and Treatment, 2016, 15, 107-113.	1.9	6
51	Model-basedÂcardiacÂdoseÂestimation in radiationÂtreatment of leftÂbreastÂcancer. British Journal of Radiology, 2018, 91, 20180287.	2.2	6
52	Technical Note: Characteristics of a microSilicon X shielded diode detector for photon beam dosimetry. Medical Physics, 2021, 48, 2004-2009.	3.0	6
53	Dosimetric evaluation of high-Z inhomogeneity used for hip prosthesis: A multi-institutional collaborative study. Physica Medica, 2022, 95, 148-155.	0.7	6
54	American College of Radiology (ACR) Radiation Oncology Practice Accreditation: A pattern of change. Practical Radiation Oncology, 2016, 6, e171-e177.	2.1	5

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55	Radiation effect on late cardiopulmonary toxicity: An analysis comparing supine DIBH versus prone techniques for breast treatment. Breast Journal, 2020, 26, 897-903.	1.0	5
56	A Prospective Trial to Compare Deep Inspiratory Breath Hold With Prone Breast Irradiation. Practical Radiation Oncology, 2020, 10, 330-338.	2.1	5
57	Intra- and inter-physician variability in target volume delineation in radiation therapy. Journal of Radiation Research, 2021, , .	1.6	5
58	Robust plan optimization using edge-enhanced intensity for intrafraction organ deformation in prostate intensity-modulated radiation therapy. PLoS ONE, 2017, 12, e0173643.	2.5	5
59	A Practical Method to Optimize Quality Assurance Results of Arc Therapy Plans in Beam Modeling. Journal of Medical Physics, 2018, 43, 106-111.	0.3	5
60	Acute skin toxicity associated with proton beam therapy in spine and brain patients. Journal of Radiation Oncology, 2014, 3, 195-203.	0.7	4
61	Parameterization of electron beam output factor. Physica Medica, 2015, 31, 420-424.	0.7	4
62	Proton Therapy Facility Planning From a Clinical and Operational Model. Technology in Cancer Research and Treatment, 2015, 14, 635-641.	1.9	4
63	Dosimetric impact of gastrointestinal air column in radiation treatment of pancreatic cancer. British Journal of Radiology, 2018, 91, 20170512.	2.2	4
64	An effective method to reduce the interplay effects between respiratory motion and a uniform scanning proton beam irradiation for liver tumors: A case study. Journal of Applied Clinical Medical Physics, 2019, 20, 220-228.	1.9	4
65	Caution warranted for low-dose radiation therapy for Covid-19. British Journal of Radiology, 2021, 94, 20200466.	2.2	4
66	Validity of equivalent square field concept in small field dosimetry. Medical Physics, 2022, 49, 4043-4055.	3.0	4
67	Optimum beam angles for the conformal treatment of lung cancer:A CT simulation study. International Journal of Cancer, 2000, 90, 359-365.	5.1	3
68	Evaluation of the radiobiological gamma index with motion interplay in tangential IMRT breast treatment. Journal of Radiation Research, 2016, 57, 691-701.	1.6	3
69	In Regard to Nichol et al. International Journal of Radiation Oncology Biology Physics, 2021, 110, 1543.	0.8	3
70	Variability of Physics Education in Radiation Oncology Medical Residency Programs. Journal of the American College of Radiology, 2012, 9, 835-838.e1.	1.8	2
71	The Music of V20: A Symphony or Cacophony?. International Journal of Radiation Oncology Biology Physics, 2014, 88, 973-974.	0.8	2
72	Principal component analysisâ€based imaging angle determination for 3D motion monitoring using singleâ€slice onâ€board imaging. Medical Physics, 2018, 45, 2377-2387.	3.0	2

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73	Clinical evidence for dose tolerance of the central nervous system in hypofractionated radiotherapy. Journal of Radiation Oncology, 2018, 7, 293-305.	0.7	2
74	Glamour, expression, and consequences of tattoos in radiation treatment. PLoS ONE, 2019, 14, e0220030.	2.5	2
75	Adaptability and Resilience of Academic Radiation Oncology Personnel and Procedures during COVID-19 Pandemic. International Journal of Environmental Research and Public Health, 2021, 18, 5095.	2.6	2
76	Potential dose variability for smallâ€field plans delivered with Elekta Agility collimators. Journal of Applied Clinical Medical Physics, 2021, 22, 203-204.	1.9	2
77	Skin recurrence in the radiation treatment of breast cancer. Advances in Radiation Oncology, 2018, 3, 458-462.	1.2	1
78	In Reply to Dahele et al. International Journal of Radiation Oncology Biology Physics, 2018, 101, 493-494.	0.8	1
79	The current CAMPEP graduate program didactic course guidelines have insufficiently rigorous requirements for research training. Medical Physics, 2020, 47, 5403-5407.	3.0	1
80	Characteristics of microSilicon diode detector for electron beam dosimetry. Journal of Radiation Research, 2021, , .	1.6	1
81	Skin dose in radiation treatment of the left breast: Analysis in the context of prone versus supine treatment technique. Physica Medica, 2021, 81, 114-120.	0.7	1
82	Transferability of patients for radiation treatment between unmatched machines. Journal of Applied Clinical Medical Physics, 2022, , e13544.	1.9	1
83	Response to â€œComment on â€˜A Monte Carlo study of IMRT beamlets in inhomogeneous mediaâ€™ â€•[Med. Phys.30, 1932 (2003)]. Medical Physics, 2003, 30, 1933-1933.	3.0	0
84	Dose perturbation caused by metallic port in breast tissue expander in proton beam therapy. Biomedical Physics and Engineering Express, 2020, 6, 065037.	1.2	0
85	Technical note: Bremsstrahlung dose in the electron beam at extended distances in total skin electron therapy. Medical Physics, 2022, 49, 1297-1302.	3.0	0