

Indra J Das

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

2,675
citations

279798

23
h-index

189892

50
g-index

86
all docs

86
docs citations

86
times ranked

2243
citing authors

#	ARTICLE	IF	CITATIONS
1	Technical note: Bremsstrahlung dose in the electron beam at extended distances in total skin electron therapy. <i>Medical Physics</i> , 2022, 49, 1297-1302.	3.0	0
2	Transferability of patients for radiation treatment between unmatched machines. <i>Journal of Applied Clinical Medical Physics</i> , 2022, , e13544.	1.9	1
3	Quality and Safety Considerations in Stereotactic Radiosurgery and Stereotactic Body Radiation Therapy: An ASTRO Safety White Paper Update. <i>Practical Radiation Oncology</i> , 2022, 12, e253-e268.	2.1	12
4	Dosimetric evaluation of high-Z inhomogeneity used for hip prosthesis: A multi-institutional collaborative study. <i>Physica Medica</i> , 2022, 95, 148-155.	0.7	6
5	Validity of equivalent square field concept in small field dosimetry. <i>Medical Physics</i> , 2022, 49, 4043-4055.	3.0	4
6	Towards Accurate and Precise Image-Guided Radiotherapy: Clinical Applications of the MR-Linac. <i>Journal of Clinical Medicine</i> , 2022, 11, 4044.	2.4	8
7	Caution warranted for low-dose radiation therapy for Covid-19. <i>British Journal of Radiology</i> , 2021, 94, 20200466.	2.2	4
8	Technical Note: Characteristics of a microSilicon X shielded diode detector for photon beam dosimetry. <i>Medical Physics</i> , 2021, 48, 2004-2009.	3.0	6
9	Adaptability and Resilience of Academic Radiation Oncology Personnel and Procedures during COVID-19 Pandemic. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5095.	2.6	2
10	Potential dose variability for small field plans delivered with Elekta Agility collimators. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 203-204.	1.9	2
11	Report of AAPM Task Group 155: Megavoltage photon beam dosimetry in small fields and non-equilibrium conditions. <i>Medical Physics</i> , 2021, 48, e886-e921.	3.0	50
12	In Regard to Nichol et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 1543.	0.8	3
13	Characteristics of microSilicon diode detector for electron beam dosimetry. <i>Journal of Radiation Research</i> , 2021, , .	1.6	1
14	Intra- and inter-physician variability in target volume delineation in radiation therapy. <i>Journal of Radiation Research</i> , 2021, , .	1.6	5
15	Skin dose in radiation treatment of the left breast: Analysis in the context of prone versus supine treatment technique. <i>Physica Medica</i> , 2021, 81, 114-120.	0.7	1
16	Radiation effect on late cardiopulmonary toxicity: An analysis comparing supine DIBH versus prone techniques for breast treatment. <i>Breast Journal</i> , 2020, 26, 897-903.	1.0	5
17	A Prospective Trial to Compare Deep Inspiratory Breath Hold With Prone Breast Irradiation. <i>Practical Radiation Oncology</i> , 2020, 10, 330-338.	2.1	5
18	Report of AAPM Task Group 235 Radiochromic Film Dosimetry: An Update to TG55. <i>Medical Physics</i> , 2020, 47, 5986-6025.	3.0	158

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19	The current CAMPEP graduate program didactic course guidelines have insufficiently rigorous requirements for research training. <i>Medical Physics</i> , 2020, 47, 5403-5407.	3.0	1
20	A convolution neural network for higher resolution dose prediction in prostate volumetric modulated arc therapy. <i>Physica Medica</i> , 2020, 72, 88-95.	0.7	17
21	Dose perturbation caused by metallic port in breast tissue expander in proton beam therapy. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 065037.	1.2	0
22	Glamour, expression, and consequences of tattoos in radiation treatment. <i>PLoS ONE</i> , 2019, 14, e0220030.	2.5	2
23	Volume effects in radiosurgical spinal cord dose tolerance: how small is too small?. <i>Journal of Radiation Oncology</i> , 2019, 8, 53-61.	0.7	8
24	Deep convolutional neural network for reduction of contrast-enhanced region on CT images. <i>Journal of Radiation Research</i> , 2019, 60, 586-594.	1.6	12
25	Characterization of the plastic scintillation detector Exradin W2 for small field dosimetry. <i>Medical Physics</i> , 2019, 46, 2468-2476.	3.0	42
26	Dosimetric assessment of tumor control probability in intensity and volumetric modulated radiotherapy plans. <i>British Journal of Radiology</i> , 2019, 92, 20180471.	2.2	7
27	Role and future of MRI in radiation oncology. <i>British Journal of Radiology</i> , 2019, 92, 20180505.	2.2	52
28	An effective method to reduce the interplay effects between respiratory motion and a uniform scanning proton beam irradiation for liver tumors: A case study. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 220-228.	1.9	4
29	Dosimetric impact of gastrointestinal air column in radiation treatment of pancreatic cancer. <i>British Journal of Radiology</i> , 2018, 91, 20170512.	2.2	4
30	Principal component analysis-based imaging angle determination for 3D motion monitoring using single-slice on-board imaging. <i>Medical Physics</i> , 2018, 45, 2377-2387.	3.0	2
31	Comments on the <sc>TRS</sc>-483 protocol on small field dosimetry. <i>Medical Physics</i> , 2018, 45, 5666-5668.	3.0	13
32	Clinical evidence for dose tolerance of the central nervous system in hypofractionated radiotherapy. <i>Journal of Radiation Oncology</i> , 2018, 7, 293-305.	0.7	2
33	Emerging role of MRI in radiation therapy. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1468-1478.	3.4	89
34	Skin recurrence in the radiation treatment of breast cancer. <i>Advances in Radiation Oncology</i> , 2018, 3, 458-462.	1.2	1
35	In Reply to Dahele et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 493-494.	0.8	1
36	Evaluation of sparing organs at risk (<sc>OAR</sc>s) in left breast irradiation in the supine and prone positions and with deep inspiration breath-hold. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 195-204.	1.9	19

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37	Model-based cardiac dose estimation in radiation treatment of left breast cancer. British Journal of Radiology, 2018, 91, 20180287.	2.2	6
38	Dosimetric evaluation of magnetic resonance-generated synthetic CT for radiation treatment of rectal cancer. PLoS ONE, 2018, 13, e0190883.	2.5	18
39	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
40	Small field dose measurements using plastic scintillation detector in heterogeneous media. Medical Physics, 2017, 44, 3815-3820.	3.0	12
41	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
42	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
43	<scp>AAPM</scp>'s <scp>RSS</scp> Medical Physics Practice Guideline 9.a. for <scp>SRS</scp>'s <scp>SBRT</scp>. Journal of Applied Clinical Medical Physics, 2017, 18, 10-21.	1.9	112
44	Dosimetric evaluation of synthetic CT for magnetic resonance-only based radiotherapy planning of lung cancer. Radiation Oncology, 2017, 12, 108.	2.7	32
45	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
46	The dosimetric and radiobiological impact of calculation grid size on head and neck IMRT. Practical Radiation Oncology, 2017, 7, 209-217.	2.1	21
47	Organ-specific modulation complexity score for the evaluation of dose delivery. Journal of Radiation Research, 2017, 58, 675-684.	1.6	8
48	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
49	Technical Note: Magnetic field effects on Gafchromic film response in MRIGRT. Medical Physics, 2016, 43, 6552-6556.	3.0	38
50	American College of Radiology (ACR) Radiation Oncology Practice Accreditation: A pattern of change. Practical Radiation Oncology, 2016, 6, e171-e177.	2.1	5
51	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
52	Role of belly board device in the age of intensity modulated radiotherapy for pelvic irradiation. Medical Dosimetry, 2016, 41, 300-304.	0.9	7
53	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
54	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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55	Parameterization of electron beam output factor. <i>Physica Medica</i> , 2015, 31, 420-424.	0.7	4
56	Proton Therapy Facility Planning From a Clinical and Operational Model. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, 635-641.	1.9	4
57	Characterization of a new commercial single crystal diamond detector for photon- and proton-beam dosimetry. <i>Journal of Radiation Research</i> , 2015, 56, 912-918.	1.6	30
58	Effect of Scanning Beam for Superficial Dose in Proton Therapy. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, 643-652.	1.9	6
59	Impact of dose size in single fraction spatially fractionated (grid) radiotherapy for melanoma. <i>Medical Physics</i> , 2014, 41, 021727.	3.0	24
60	Correlation between target volume and electron transport effects affecting heterogeneity corrections in stereotactic body radiotherapy for lung cancer. <i>Journal of Radiation Research</i> , 2014, 55, 754-760.	1.6	11
61	Acute skin toxicity associated with proton beam therapy in spine and brain patients. <i>Journal of Radiation Oncology</i> , 2014, 3, 195-203.	0.7	4
62	Dose perturbation due to metallic breast expander in electron and photon beam treatment of breast cancer. <i>Journal of Radiation Oncology</i> , 2014, 3, 65-72.	0.7	8
63	Dosimetric perturbations at high-Z interfaces with high dose rate ¹⁹² Ir source. <i>Physica Medica</i> , 2014, 30, 782-790.	0.7	8
64	Variation of $k_{Q_{clin}}$, Q_{msr}/Q_{clin} , f_{msr} for the small field dosimetric parameters percentage depth dose, tissue ϵ_{max} ratio, and off-axis ratio. <i>Medical Physics</i> , 2014, 41, 101708.	3.0	73
65	A treatment planning approach to spatially fractionated megavoltage grid therapy for bulky lung cancer. <i>Medical Dosimetry</i> , 2014, 39, 218-226.	0.9	15
66	The Music of V20: A Symphony or Cacophony?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 973-974.	0.8	2
67	Evaluation of superficial dosimetry between treatment planning system and measurement for several breast cancer treatment techniques. <i>Medical Physics</i> , 2013, 40, 011714.	3.0	49
68	Variability of Physics Education in Radiation Oncology Medical Residency Programs. <i>Journal of the American College of Radiology</i> , 2012, 9, 835-838.e1.	1.8	2
69	Impact of proton beam availability on patient treatment schedule in radiation oncology. <i>Journal of Applied Clinical Medical Physics</i> , 2012, 13, 134-146.	1.9	11
70	Use of lymphoscintigraphy in radiation treatment of primary breast cancer in the context of lymphedema risk reduction. <i>Radiotherapy and Oncology</i> , 2011, 100, 293-298.	0.6	11
71	A quality assurance phantom for electronic portal imaging devices. <i>Journal of Applied Clinical Medical Physics</i> , 2011, 12, 391-403.	1.9	14
72	Analysis of Treatment Planning Time Among Systems and Planners for Intensity-Modulated Radiation Therapy. <i>Journal of the American College of Radiology</i> , 2009, 6, 514-517.	1.8	57

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73	Small fields: Nonequilibrium radiation dosimetry. Medical Physics, 2008, 35, 206-215.	3.0	532
74	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
75	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
76	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
77	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
78	Transmission and dose perturbations with high-Z materials in clinical electron beams. Medical Physics, 2004, 31, 3213-3221.	3.0	18
79	Thermal and temporal response of ionization chambers in radiation dosimetry. Medical Physics, 2004, 31, 573-578.	3.0	16
80	Response to â€œComment on â€A Monte Carlo study of IMRT beamlets in inhomogeneous mediaâ€â€™â€ [Med. Phys.30, 1932 (2003)]. Medical Physics, 2003, 30, 1933-1933.	3.0	0
81	A dosimetric comparison of various multileaf collimators. Physics in Medicine and Biology, 2002, 47, N159-N170.	3.0	110
82	Role of multileaf collimator in replacing shielding blocks in radiation therapy. International Journal of Cancer, 2001, 96, 385-395.	5.1	15
83	Characteristics of bremsstrahlung in electron beams. Medical Physics, 2001, 28, 1352-1358.	3.0	32
84	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
85	Choice of Radiation Detector in Dosimetry of Stereotactic Radiosurgery-Radiotherapy. Journal of Radiosurgery, 2000, 3, 177-186.	0.1	36