Indrin J Chetty

List of Publications by Year
in descending order

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64	1,487	304743 22	345221 36
papers	citations	h-index	g-index

64	64	64	2216
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Motion management strategies and technical issues associated with stereotactic body radiotherapy of thoracic and upper abdominal tumors: A review from NRG oncology. Medical Physics, 2017, 44, 2595-2612.	3.0	112
2	Implementation of a Novel Algorithm For Generating Synthetic CT Images From Magnetic Resonance Imaging Data Sets for Prostate Cancer Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2015, 91, 39-47.	0.8	90
3	Deformable Registration for Dose Accumulation. Seminars in Radiation Oncology, 2019, 29, 198-208.	2.2	82
4	Radiosurgery of multiple brain metastases with single-isocenter dynamic conformal arcs (SIDCA). Radiotherapy and Oncology, 2014, 112, 128-132.	0.6	79
5	Deformable image registration based automatic CTâ€toâ€CT contour propagation for head and neck adaptive radiotherapy in the routine clinical setting. Medical Physics, 2014, 41, 121712.	3.0	72
6	Automatic Segmentation of the Prostate on CT Images Using Deep Neural Networks (DNN). International Journal of Radiation Oncology Biology Physics, 2019, 104, 924-932.	0.8	66
7	Magnetic Resonanceâ€“Based Automatic Air Segmentation for Generation of Synthetic Computed Tomography Scans in the Head Region. International Journal of Radiation Oncology Biology Physics, 2015, 93, 497-506.	0.8	61
8	Technology for Innovation in Radiation Oncology. International Journal of Radiation Oncology Biology Physics, 2015, 93, 485-492.	0.8	58
9	Analysis of the Factors Contributing to Vertebral Compression Fractures After Spine Stereotactic Radiosurgery. International Journal of Radiation Oncology Biology Physics, 2017, 97, 236-245.	0.8	50
10	Evaluation of a magnetic resonance guided linear accelerator for stereotactic radiosurgery treatment. Radiotherapy and Oncology, 2018, 127, 460-466.	0.6	48
11	Dosimetric evaluation of synthetic CT relative to bulk density assignment-based magnetic resonance-only approaches for prostate radiotherapy. Radiation Oncology, 2015, 10, 239.	2.7	46
12	Vision 20/20: The role of Raman spectroscopy in early stage cancer detection and feasibility for application in radiation therapy response assessment. Medical Physics, 2014, 41, 050901.	3.0	42
13	Improvements in CBCT Image Quality Using a Novel Iterative Reconstruction Algorithm: A Clinical Evaluation. Advances in Radiation Oncology, 2019, 4, 390-400.	1.2	42
14	Optimization of Treatment Geometry to Reduce Normal Brain Dose in Radiosurgery of Multiple Brain Metastases with Singleâ€Isocenter Volumetric Modulated Arc Therapy. Scientific Reports, 2016, 6, 34511.	3.3	34
15	Application of radiomics for the prediction of HPV status for patients with head and neck cancers. Medical Physics, 2020, 47, 563-575.	3.0	32
16	Evaluation of gantry speed on image quality and imaging dose for 4D cone-beam CT acquisition. Radiation Oncology, 2016, 11, 98.	2.7	30
17	Image Guided Radiation Therapy Using Synthetic Computed Tomography Images in Brain Cancer. International Journal of Radiation Oncology Biology Physics, 2016, 95, 1281-1289.	0.8	30
18	Beam modeling and beam model commissioning for Monte Carlo dose calculationâ€based radiation therapy treatment planning: Report of AAPM Task Group 157. Medical Physics, 2020, 47, e1-e18.	3.0	29

#	Article	IF	Citations
19	Technical Note: Characterization and correction of gradient nonlinearity induced distortion on a 1.0 T open bore MRâ€SIM. Medical Physics, 2015, 42, 5955-5960.	3.0	27
20	Evaluating organ delineation, dose calculation and daily localization in an open-MRI simulation workflow for prostate cancer patients. Radiation Oncology, 2015, 10, 37.	2.7	26
21	Detection of Dominant Intra-prostatic Lesions in Patients With Prostate Cancer Using an Artificial Neural Network and MR Multi-modal Radiomics Analysis. Frontiers in Oncology, 2019, 9, 1313.	2.8	26
22	Dose Specification for NRG Radiation TherapyÂTrials. International Journal of Radiation Oncology Biology Physics, 2016, 95, 1344-1345.	0.8	24
23	Evaluation and Clinical Application of a Commercially Available Iterative Reconstruction Algorithm for CBCT-Based IGRT. Technology in Cancer Research and Treatment, 2019, 18, 153303381882305.	1.9	24
24	Real-time Magnetic Resonance-guided Liver Stereotactic Body Radiation Therapy: An Institutional Report Using a Magnetic Resonance-Linac System. Cureus, 2019, 11, e5774.	0.5	23
25	The American Society for Radiation Oncology's 2015 Core Physics Curriculum for Radiation Oncology Residents. International Journal of Radiation Oncology Biology Physics, 2016, 95, 1298-1303.	0.8	21
26	To gate or not to gate - dosimetric evaluation comparing Gated vs. ITV-based methodologies in stereotactic ablative body radiotherapy (SABR) treatment of lung cancer. Radiation Oncology, 2016, 11, 125.	2.7	20
27	Targeting Accuracy of Image-Guided Radiosurgery for Intracranial Lesions. Technology in Cancer Research and Treatment, 2016, 15, 243-248.	1.9	19
28	An automated dose tracking system for adaptive radiation therapy. Computer Methods and Programs in Biomedicine, 2018, 154, 1-8.	4.7	19
29	A novel approach for evaluation of prostate deformation and associated dosimetric implications in IGRT of the prostate. Medical Physics, 2014, 41, 091709.	3.0	18
30	Use of jaw tracking in intensity modulated and volumetric modulated arc radiation therapy for spine stereotactic radiosurgery. Practical Radiation Oncology, 2015, 5, e155-e162.	2.1	15
31	Technical Note: Evaluation of plastic scintillator detector for small field stereotactic patientâ€specific quality assurance. Medical Physics, 2017, 44, 5509-5516.	3.0	14
32	American Radium Society Appropriate Use Criteria on Radiation Therapy for Extensive-Stage SCLC. Journal of Thoracic Oncology, 2021, 16, 54-65.	1.1	13
33	Application of Critical Volume-Dose Constraints for Stereotactic Body Radiation Therapy in NRG Radiation Therapy Trials. International Journal of Radiation Oncology Biology Physics, 2017, 98, 34-36.	0.8	12
34	Development of a deformable dosimetric phantom to verify dose accumulation algorithms for adaptive radiotherapy. Journal of Medical Physics, 2016, 41, 106.	0.3	12
35	A deep dive into understanding tumor foci classification using multiparametric MRI based on convolutional neural network. Medical Physics, 2020, 47, 4077-4086.	3.0	11
36	Prescription to 50-75% isodose line may be optimum for linear accelerator based radiosurgery of cranial lesions. Journal of Radiosurgery and SBRT, 2014, 3, 139-147.	0.2	11

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37	Characterization of a commercial hybrid iterative and modelâ€based reconstruction algorithm in radiation oncology. Medical Physics, 2014, 41, 081907.	3.0	10
38	A note on modeling of tumor regression for estimation of radiobiological parameters. Medical Physics, 2014, 41, 081702.	3.0	10
39	Evaluation and verification of the <scp>QF</scp>ix Encompass<scp>^{TM}</scp> couch insert for intracranial stereotactic radiosurgery. Journal of Applied Clinical Medical Physics, 2018, 19, 222-229.	1.9	10
40	Technical Note: ROdiomiX: A validated software for radiomics analysis of medical images in radiation oncology. Medical Physics, 2021, 48, 354-365.	3.0	10
41	Intrafraction Variability and Deformation Quantification in the Breast. International Journal of Radiation Oncology Biology Physics, 2015, 91, 604-611.	0.8	9
42	Use of regularized principal component analysis to model anatomical changes during head and neck radiation therapy for treatment adaptation and response assessment. Medical Physics, 2016, 43, 5307-5319.	3.0	9
43	A prediction model of radiationâ€induced necrosis for intracranial radiosurgery based on target volume. Medical Physics, 2017, 44, 4360-4367.	3.0	9
44	Impact of a SBRT/SRS longitudinal telehealth training pilot course in Latin America. Critical Reviews in Oncology/Hematology, 2020, 154, 103072.	4.4	8
45	Clinical utility of Gafchromic film in an MRI-guided linear accelerator. Radiation Oncology, 2021, 16, 117.	2.7	8
46	Changes in pharyngeal constrictor volumes during head and neck radiation therapy: Implications for dose delivery. Journal of Cancer Research and Therapeutics, 2017, 13, 218.	0.9	8
47	The Biological Process of Aging and the Impact of Ionizing Radiation. Seminars in Radiation Oncology, 2022, 32, 172-178.	2.2	8
48	Tuning of Acuros<scp>XB</scp> source size setting for small intracranial targets. Journal of Applied Clinical Medical Physics, 2017, 18, 170-181.	1.9	7
49	Using synthetic CT for partial brain radiation therapy: Impact on image guidance. Practical Radiation Oncology, 2018, 8, 342-350.	2.1	7
50	Target and organ dose estimation from intensity modulated head and neck radiation therapy using 3 deformable image registration algorithms. Practical Radiation Oncology, 2015, 5, e317-e325.	2.1	6
51	Principal component analysis modeling of Headâ€andâ€Neck anatomy using daily Cone Beamâ€CT images. Medical Physics, 2018, 45, 5366-5375.	3.0	6
52	Retroperitoneal Metastasis Abutting Small Bowel: A Novel Magnetic Resonance-Guided Radiation Approach. Cureus, 2018, 10, e2412.	0.5	5
53	Kinetic modeling of tumor regression incorporating the concept of cancer stem-like cells for patients with locally advanced lung cancer. Theoretical Biology and Medical Modelling, 2018, 15, 23.	2.1	4
54	Modeling AeroForm tissue expander for postmastectomy radiation therapy. Journal of Applied Clinical Medical Physics, 2019, 20, 87-97.	1.9	4

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55	Four-dimensional computed tomography-based biomechanical measurements of pulmonary function and their correlation with clinical outcome for lung stereotactic body radiation therapy patients. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1278-1287.	2.0	4
56	Technical Note: Comparison of the internal target volume (ITV) contours and dose calculations on 4DCT, average CBCT, and 4DCBCT imaging for lung stereotactic body radiation therapy (SBRT). Journal of Applied Clinical Medical Physics, 2020, 21, 288-294.	1.9	3
57	Radiobiologically optimized couch shift: A new localization paradigm using coneâ€beam CT for prostate radiotherapy. Medical Physics, 2015, 42, 6028-6032.	3.0	2
58	The effect of longitudinal CT resolution and pixel size (FOV) on target delineation and treatment planning in stereotactic radiosurgery. Journal of Radiosurgery and SBRT, 2014, 3, 149-163.	0.2	2
59	An adaptive finite element method to cope with a large scale lung deformation in magnetic resonance images. , 2014, , .		0
60	TU-AB-202-07: A Novel Method for Registration of Mid-Treatment PET/CT Images Under Conditions of Tumor Regression for Patients with Locally Advanced Lung Cancers. Medical Physics, 2016, 43, 3738-3738.	3.0	0
61	The impact of Charlson Comorbidity Index on survival outcomes in men with prostate cancer who underwent definitive prostate radiotherapy.. Journal of Clinical Oncology, 2019, 37, 114-114.	1.6	0
62	Targeting accuracy at couch kick for a frameless image guided radiosurgery system. Journal of Radiosurgery and SBRT, 2018, 5, 123-129.	0.2	0
63	Predictors of Toxicity Among Older Adults with Cancer. Seminars in Radiation Oncology, 2022, 32, 179-185.	2.2	0
64	Magnetic resonance imagingâ€onlyâ€based radiation treatment planning for simultaneous integrated boost of multiparametric magnetic resonance imagingâ€defined dominant intraprostatic lesions. Precision Radiation Oncology, 0, , .	1.1	0