You Zhang

List of Publications by Year
in descending order

48 papers	690 citations	566801 15 h-index	610482 24 g-index
48 all docs	48 docs citations	48 times ranked	604 citing authors

#	Article	IF	Citations
1	A technique for estimating 4D‑CBCT using prior knowledge and limited‑angle projections. Medical Physics, 2013, 40, 121701.	1.6	74
2	A limited‑angle intrafraction verification (LIVE) system for radiation therapy. Medical Physics, 2014, 41, 020701.	1.6	54
3	Preliminary clinical evaluation of a 4D-CBCT estimation technique using prior information and limited-angle projections. Radiotherapy and Oncology, 2015, 115, 22-29.	0.3	48
4	A Technique for Generating Volumetric Cine-Magnetic Resonance Imaging. International Journal of Radiation Oncology Biology Physics, 2016, 95, 844-853.	0.4	46
5	Volumetric modulated arc therapy based total body irradiation: Workflow and clinical experience with an indexed rotational immobilization system. Physics and Imaging in Radiation Oncology, 2017, 4, 22-25.	1.2	27
6	A Biomechanical Modeling Guided CBCT Estimation Technique. IEEE Transactions on Medical Imaging, 2017, 36, 641-652.	5.4	26
7	Dosimetric verification of lung cancer treatment using the CBCTs estimated from limited‑angle on‑board projections. Medical Physics, 2015, 42, 4783-4795.	1.6	24
8	Low dose CBCT reconstruction via prior contour based total variation (PCTV) regularization: a feasibility study. Physics in Medicine and Biology, 2018, 63, 085014.	1.6	24
9	Estimating 4D‑CBCT from prior information and extremely limited angle projections using structural PCA and weighted free‑form deformation for lung radiotherapy. Medical Physics, 2017, 44, 1089-1104.	1.6	22
10	Atlas-guided prostate intensity modulated radiation therapy (IMRT) planning. Physics in Medicine and Biology, 2015, 60, 7277-7291.	1.6	21
11	Reducing scan angle using adaptive prior knowledge for a limited-angle intrafraction verification (LIVE) system for conformal arc radiotherapy. Physics in Medicine and Biology, 2017, 62, 3859-3882.	1.6	21
12	Boosting radiotherapy dose calculation accuracy with deep learning. Journal of Applied Clinical Medical Physics, 2020, 21, 149-159.	0.8	20
13	Optimization of the geometry and speed of a moving blocker system for cone‑beam computed tomography scatter correction. Medical Physics, 2017, 44, e215-e229.	1.6	17
14	Accelerating volumetric cine MRI (VC-MRI) using undersampling for real-time 3D target localization/tracking in radiation therapy: a feasibility study. Physics in Medicine and Biology, 2018, 63, 01NT01.	1.6	16
15	4D liver tumor localization using cone-beam projections and a biomechanical model. Radiotherapy and Oncology, 2019, 133, 183-192.	0.3	16
16	Intentional deep overfit learning (IDOL): A novel deep learning strategy for adaptive radiation therapy. Medical Physics, 2022, 49, 488-496.	1.6	16
17	U‑net‑based deformation vector field estimation for motion‑compensated 4D‑CBCT reconstruction. Medical Physics, 2020, 47, 3000-3012.	1.6	15
18	An unsupervised 2D–3D deformable registration network (2D3D-RegNet) for cone-beam CT estimation. Physics in Medicine and Biology, 2021, 66, 074001.	1.6	15

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19	Volumetric Modulated Arc Therapy Enabled Total Body Irradiation (VMAT-TBI): Six-year Clinical Experience and Treatment Outcomes. Transplantation and Cellular Therapy, 2022, 28, 113.e1-113.e8.	0.6	15
20	Scatter Reduction and Correction for Dual-Source Cone-Beam CT Using Prepatient Grids. Technology in Cancer Research and Treatment, 2016, 15, 416-427.	0.8	14
21	A new CT reconstruction technique using adaptive deformation recovery and intensity correction (ADRIC). Medical Physics, 2017, 44, 2223-2241.	1.6	14
22	Respiration‐phase‐matched digital tomosynthesis imaging for moving target verification: A feasibility study. Medical Physics, 2013, 40, 071723.	1.6	13
23	Iterative reconstruction for photon-counting CT using prior image constrained total generalized variation. Computers in Biology and Medicine, 2018, 103, 167-182.	3.9	12
24	Real-time liver tumor localization via a single x-ray projection using deep graph neural network-assisted biomechanical modeling. Physics in Medicine and Biology, 2022, 67, 115009.	1.6	12
25	Strategies for automatic online treatment plan reoptimization using clinical treatment planning system: A planning parameters study. Medical Physics, 2013, 40, 111711.	1.6	11
26	A biomechanical modeling-guided simultaneous motion estimation and image reconstruction technique (SMEIR-Bio) for 4D-CBCT reconstruction. Physics in Medicine and Biology, 2018, 63, 045002.	1.6	11
27	Benchmarking techniques for stereotactic body radiotherapy for early-stage glottic laryngeal cancer: LINAC-based non-coplanar VMAT vs. Cyberknife planning. Radiation Oncology, 2019, 14, 193.	1.2	9
28	Automatic liver tumor localization using deep learning‐based liver boundary motion estimation and biomechanical modeling (DL‐Bio). Medical Physics, 2021, 48, 7790-7805.	1.6	9
29	Modeling Elekta VersaHD using the Varian Eclipse treatment planning system for photon beams: A single‐institution experience. Journal of Applied Clinical Medical Physics, 2019, 20, 33-42.	0.8	8
30	Enhancing liver tumor localization accuracy by prior-knowledge-guided motion modeling and a biomechanical model. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1337-1349.	1.1	8
31	4D cone-beam computed tomography (CBCT) using a moving blocker for simultaneous radiation dose reduction and scatter correction. Physics in Medicine and Biology, 2018, 63, 115007.	1.6	7
32	Advanced 4-dimensional cone-beam computed tomography reconstruction by combining motion estimation, motion-compensated reconstruction, biomechanical modeling and deep learning. Visual Computing for Industry, Biomedicine, and Art, 2019, 2, 23.	2.2	7
33	Low dose cone-beam computed tomography reconstruction via hybrid prior contour based total variation regularization (hybrid-PCTV). Quantitative Imaging in Medicine and Surgery, 2019, 9, 1214-1228.	1.1	6
34	Clinical Study of Orthogonal-View Phase-Matched Digital Tomosynthesis for Lung Tumor Localization. Technology in Cancer Research and Treatment, 2017, 16, 866-878.	0.8	5
35	Dosimetric evaluation of 4D‐CBCT reconstructed by Simultaneous Motion Estimation and Image Reconstruction (SMEIR) for carbon ion therapy of lung cancer. Medical Physics, 2019, 46, 4087-4094.	1.6	5
36	A method to reconstruct intra-fractional liver motion in rotational radiotherapy using linear fiducial markers. Physics in Medicine and Biology, 2019, 64, 225013.	1.6	5

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37	An Integrated Simulation System Based on Digital Human Phantom for 4D Radiation Therapy of Lung Cancer. Journal of Cancer Therapy, 2014, 05, 749-758.	0.1	3
38	A biomechanical modeling guided simultaneous motion estimation and image reconstruction technique (SMEIR-Bio) for 4D-CBCT reconstruction. Proceedings of SPIE, 2017, , .	0.8	2
39	A Collimator Setting Optimization Algorithm for Dual-Arc Volumetric Modulated Arc Therapy in Pancreas Stereotactic Body Radiation Therapy. Technology in Cancer Research and Treatment, 2019, 18, 153303381987076.	0.8	2
40	Statistical image-based material decomposition for triple-energy computed tomography using total variation regularization. Journal of X-Ray Science and Technology, 2020, 28, 1-21.	0.7	2
41	POD–DOSI: A dedicated dosimetry system for GammaPod commissioning and quality assurance. Medical Physics, 2020, 47, 3647-3657.	1.6	2
42	Incorporating biomechanical modeling and deep learning into a deformation-driven liver CBCT reconstruction technique. , 2019, , .		2
43	An interprojection sensor fusion approach to estimate blocked projection signal in synchronized moving grid-based CBCT system. Medical Physics, 2015, 43, 268-278.	1.6	1
44	Iterative reconstruction with boundary detection for carbon ion computed tomography. Physics in Medicine and Biology, 2018, 63, 055002.	1.6	1
45	Markerless Four-Dimensional-Cone Beam Computed Tomography Projection-Phase Sorting Using Prior Knowledge and Patient Motion Modeling: A Feasibility Study. Cancer Translational Medicine, 2017, 3, 185-193.	0.2	1
46	A How-To Compendium for GammaPod Treatments, Clinical Workflow, and Clinical Program at an Early Adopting Institution. Practical Radiation Oncology, 2022, 12, e177-e182.	1.1	1
47	Evaluation of GMI and PMI diffeomorphic–based demons algorithms for aligning PET and CT Images. Journal of Applied Clinical Medical Physics, 2015, 16, 18-30.	0.8	0
48	Dosimetric Analysis of Microscopic Disease in SBRT for Lung Cancers. Technology in Cancer Research and Treatment, 2017, 16, 1113-1119.	0.8	0