Wensha Yang

List of Publications by Year
in descending order

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Version: 2024-02-01

58 papers	3,201 citations	331259 21 h-index	161609 54 g-index
60 all docs	60 docs citations	60 times ranked	3667 citing authors

#	Article	IF	Citations
1	Anatomical and topographical variations in the distribution of brain metastases based on primary cancer origin and molecular subtypes: a systematic review. Neuro-Oncology Advances, 2022, 4, vdab170.	0.4	7
2	Automatic segmentation of highâ€risk clinical target volume for tandemâ€andâ€ovoids brachytherapy patients using an asymmetric dualâ€path convolutional neural network. Medical Physics, 2022, 49, 1712-1722.	1.6	8
3	Automatic differentiation of Grade I and II meningiomas on magnetic resonance image using an asymmetric convolutional neural network. Scientific Reports, 2022, 12, 3806.	1.6	6
4	Voxelwise Prediction of Recurrent High-Grade Glioma via Proximity Estimationâ€“Coupled Multidimensional Support Vector Machine. International Journal of Radiation Oncology Biology Physics, 2022, 112, 1279-1287.	0.4	2
5	Single projection driven real-time multi-contrast (SPIDERM) MR imaging using pre-learned spatial subspace and linear transformation. Physics in Medicine and Biology, 2022, 67, 135008.	1.6	4
6	Quantitative Characterization of Tumor Proximity to Stem Cell Niches: Implications on Recurrence and Survival in GBM Patients. International Journal of Radiation Oncology Biology Physics, 2021, 110, 1180-1188.	0.4	2
7	Commensal bacteria and fungi differentially regulate tumor responses to radiation therapy. Cancer Cell, 2021, 39, 1202-1213.e6.	7.7	124
8	Automatic detection and segmentation of multiple brain metastases on magnetic resonance image using asymmetric UNet architecture. Physics in Medicine and Biology, 2021, 66, 015003.	1.6	34
9	Bladder surface dose modeling in prostate cancer radiotherapy: An analysis of motionâ€induced variations and the cumulative dose across the treatment. Medical Physics, 2021, 48, 8024-8036.	1.6	2
10	Fully automated multiorgan segmentation in abdominal magnetic resonance imaging with deep neural networks. Medical Physics, 2020, 47, 4971-4982.	1.6	54
11	Quantifying vascular invasion in pancreatic cancerâ€”a contrast CT based method for surgical resectability evaluation. Physics in Medicine and Biology, 2020, 65, 105012.	1.6	3
12	Sixâ€dimensional quantitative DCE MR Multitasking of the entire abdomen: Method and application to pancreatic ductal adenocarcinoma. Magnetic Resonance in Medicine, 2020, 84, 928-948.	1.9	16
13	Deformable alignment of longitudinal postoperative brain GBM scans using deep learning. , 2020, , .		2
14	Combined morphologic and metabolic pipeline for Positron emission tomography/computed tomography based radiotherapy response evaluation in locally advanced pancreatic adenocarcinoma. Physics and Imaging in Radiation Oncology, 2019, 9, 28-34.	1.2	1
15	A post-processing method based on interphase motion correction and averaging to improve image quality of 4D magnetic resonance imaging: a clinical feasibility study. British Journal of Radiology, 2019, 92, 20180424.	1.0	2
16	Discriminating lung adenocarcinoma from lung squamous cell carcinoma using respiration-induced tumor shape changes. Physics in Medicine and Biology, 2018, 63, 215027.	1.6	2
17	Novel 4D-MRI of tumor infiltrating vasculature: characterizing tumor and vessel volume motion for selective boost volume definition in pancreatic radiotherapy. Radiation Oncology, 2018, 13, 191.	1.2	3
18	A novel morphologic and metabolic feature fused treatment response evaluation pipeline for pancreatic adenocarcinoma patients.. Journal of Clinical Oncology, 2018, 36, 311-311.	0.8	0

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19	Combined chemoradiotherapy and PARP inhibition in pancreatic cancer to induce a synchronous inflammatory cytokine response.. Journal of Clinical Oncology, 2018, 36, 29-29.	0.8	0
20	Improved vesselâ€“tissue contrast and image quality in 3D radial samplingâ€based 4Dâ€<scp>MRI</scp>. Journal of Applied Clinical Medical Physics, 2017, 18, 250-257.	0.8	10
21	Fourâ€dimensional MRI using threeâ€dimensional radial sampling with respiratory selfâ€gating to characterize temporal phaseâ€resolved respiratory motion in the abdomen. Magnetic Resonance in Medicine, 2016, 75, 1574-1585.	1.9	81
22	Nonlocal Means Denoising of Self-Gated and k-Space Sorted 4-Dimensional Magnetic Resonance Imaging Using Block-Matching and 3-Dimensional Filtering: Implications for Pancreatic Tumor Registration and Segmentation. International Journal of Radiation Oncology Biology Physics, 2016, 95, 1058-1066.	0.4	8
23	Influence of Body Mass Index and Albumin on Perioperative Morbidity and Clinical Outcomes in Resected Pancreatic Adenocarcinoma. PLoS ONE, 2016, 11, e0152172.	1.1	43
24	Clinical experience using a videoâ€guided spirometry system for deep inhalation breathâ€hold radiotherapy of leftâ€sided breast cancer. Journal of Applied Clinical Medical Physics, 2015, 16, 251-260.	0.8	12
25	Dosimetric evaluation of simultaneous integrated boost during stereotactic body radiation therapy for pancreatic cancer. Medical Dosimetry, 2015, 40, 47-52.	0.4	15
26	Geometric validation of selfâ€gating kâ€spaceâ€sorted 4Dâ€MRI vs 4Dâ€CT using a respiratory motion phantom. Medical Physics, 2015, 42, 5787-5797.	1.6	12
27	Four-Dimensional Magnetic Resonance ImagingÂWith 3-Dimensional Radial Sampling and Self-Gatingâ€Based K-Space Sorting: Early Clinical Experience on Pancreatic Cancer Patients. International Journal of Radiation Oncology Biology Physics, 2015, 93, 1136-1143.	0.4	19
28	Adequacy of inhale/exhale breathhold CT based ITV margins and image-guided registration for free-breathing pancreas and liver SBRT. Radiation Oncology, 2014, 9, 11.	1.2	42
29	Pretreatment [18F] FDG-PET texture analysis to predict local response of pancreatic cancer to radiotherapy.. Journal of Clinical Oncology, 2014, 32, 375-375.	0.8	2
30	18F-FDG PET as a predictor of resectability and clinical outcomes in locally advanced pancreatic cancer patients treated with radiotherapy.. Journal of Clinical Oncology, 2014, 32, 378-378.	0.8	1
31	Computed Tomography-Based Anatomic Assessment Overestimates Local Tumor Recurrence in Patients With Mass-like Consolidation After Stereotactic Body Radiotherapy for Early-Stage Non-Small Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2012, 84, 1071-1077.	0.4	70
32	3D Dose Verification Using Tomotherapy CT Detector Array. International Journal of Radiation Oncology Biology Physics, 2012, 82, 1013-1020.	0.4	16
33	Radiation therapy of post-mastectomy patients with positive nodes using fixed beam tomotherapy. Radiotherapy and Oncology, 2011, 100, 247-252.	0.3	17
34	Dosimetric Comparison of 6 MV and 15 MV Single Arc Rapidarc to Helical TomoTherapy for the Treatment of Pancreatic Cancer. Medical Dosimetry, 2011, 36, 317-320.	0.4	7
35	Standardized evaluation of simultaneous integrated boost plans on volumetric modulated arc therapy. Physics in Medicine and Biology, 2011, 56, 327-339.	1.6	7
36	Feasibility of Non-Coplanar Tomotherapy for Lung Cancer Stereotactic Body Radiation Therapy. Technology in Cancer Research and Treatment, 2011, 10, 307-315.	0.8	11

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37	Helical Tomotherapy-Based STAT Stereotactic Body Radiation Therapy: Dosimetric Evaluation for a Real-Time SBRT Treatment Planning and Delivery Program. Medical Dosimetry, 2010, 35, 312-319.	0.4	12
38	Chest Wall Volume Receiving >30 Gy Predicts Risk of Severe Pain and/or Rib Fracture After Lung Stereotactic Body Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2010, 76, 796-801.	0.4	261
39	Tumor cell apoptosis induced by nanoparticle conjugate in combination with radiation therapy. Nanotechnology, 2010, 21, 475103.	1.3	24
40	Comparison of Elekta VMAT with helical tomotherapy and fixed field IMRT: Plan quality, delivery efficiency and accuracy. Medical Physics, 2010, 37, 1350-1359.	1.6	201
41	Tumor cell survival dependence on helical tomotherapy, continuous arc and segmented dose delivery. Physics in Medicine and Biology, 2009, 54, 6635-6643.	1.6	8
42	The implication of non-cyclic intrafractional longitudinal motion in SBRT by TomoTherapy. Physics in Medicine and Biology, 2009, 54, 2875-2884.	1.6	9
43	Spatial control in the heterogeneous nucleation of water. Applied Physics Letters, 2009, 95, .	1.5	415
44	TH-D-BRD-06: Tumor Cell Survival Dependence On the Dose Delivery Modalities and a Statistical Model to Bridge in Vitro Results and the Clinical Outcome. Medical Physics, 2009, 36, 2808-2808.	1.6	2
45	Semiconductor Nanoparticles as Energy Mediators for Photosensitizer-Enhanced Radiotherapy. International Journal of Radiation Oncology Biology Physics, 2008, 72, 633-635.	0.4	53
46	Novel FRET-Based Radiosensitization Using Quantum Dot-Photosensitizer Conjugates. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	1
47	Direct electrical detection of antigenâ€“antibody binding on diamond and silicon substrates using electrical impedance spectroscopy. Analyst, The, 2007, 132, 296-306.	1.7	59
48	Covalent molecular functionalization of diamond thin-film transistors. Diamond and Related Materials, 2007, 16, 1608-1615.	1.8	18
49	Molecular and biomolecular monolayers on diamond as an interface to biology. Diamond and Related Materials, 2005, 14, 661-668.	1.8	92
50	Electrically Addressable Biomolecular Functionalization of Conductive Nanocrystalline Diamond Thin Films. Chemistry of Materials, 2005, 17, 938-940.	3.2	77
51	Electrical Properties of Diamond Surfaces Functionalized with Molecular Monolayersâ€. Journal of Physical Chemistry B, 2005, 109, 8523-8532.	1.2	62
52	Fabrication and characterization of a biologically sensitive field-effect transistor using a nanocrystalline diamond thin film. Applied Physics Letters, 2004, 85, 3626-3628.	1.5	89
53	Invasive cleavage reactions on DNA-modified diamond surfaces. Biopolymers, 2004, 73, 606-613.	1.2	52
54	Interfacial Electrical Properties of DNA-Modified Diamond Thin Films:Â Intrinsic Response and Hybridization-Induced Field Effects. Langmuir, 2004, 20, 6778-6787.	1.6	143

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55	Electrically Addressable Biomolecular Functionalization of Carbon Nanotube and Carbon Nanofiber Electrodes. Nano Letters, 2004, 4, 1713-1716.	4.5	150
56	Preparation and Electrochemical Characterization of DNA-modified Nanocrystalline Diamond Films. Materials Research Society Symposia Proceedings, 2002, 737, 569.	0.1	1
57	DNA-modified nanocrystalline diamond thin-films as stable, biologically active substrates. Nature Materials, 2002, 1, 253-257.	13.3	802
58	STAT RAD: A Potential Real-Time Radiation Therapy Workflow. , 0, , .		5