

# 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	DNA-modified nanocrystalline diamond thin-films as stable, biologically active substrates. <i>Nature Materials</i> , 2002, 1, 253-257.	13.3	802
2	Spatial control in the heterogeneous nucleation of water. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	415
3	Chest Wall Volume Receiving >30 Gy Predicts Risk of Severe Pain and/or Rib Fracture After Lung Stereotactic Body Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, 796-801.	0.4	261
4	Comparison of Elekta VMAT with helical tomotherapy and fixed field IMRT: Plan quality, delivery efficiency and accuracy. <i>Medical Physics</i> , 2010, 37, 1350-1359.	1.6	201
5	Electrically Addressable Biomolecular Functionalization of Carbon Nanotube and Carbon Nanofiber Electrodes. <i>Nano Letters</i> , 2004, 4, 1713-1716.	4.5	150
6	Interfacial Electrical Properties of DNA-Modified Diamond Thin Films: Intrinsic Response and Hybridization-Induced Field Effects. <i>Langmuir</i> , 2004, 20, 6778-6787.	1.6	143
7	Commensal bacteria and fungi differentially regulate tumor responses to radiation therapy. <i>Cancer Cell</i> , 2021, 39, 1202-1213.e6.	7.7	124
8	Molecular and biomolecular monolayers on diamond as an interface to biology. <i>Diamond and Related Materials</i> , 2005, 14, 661-668.	1.8	92
9	Fabrication and characterization of a biologically sensitive field-effect transistor using a nanocrystalline diamond thin film. <i>Applied Physics Letters</i> , 2004, 85, 3626-3628.	1.5	89
10	Four-dimensional MRI using three-dimensional radial sampling with respiratory self-gating to characterize temporal phase-resolved respiratory motion in the abdomen. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1574-1585.	1.9	81
11	Electrically Addressable Biomolecular Functionalization of Conductive Nanocrystalline Diamond Thin Films. <i>Chemistry of Materials</i> , 2005, 17, 938-940.	3.2	77
12	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. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, 1071-1077.	0.4	70
13	Electrical Properties of Diamond Surfaces Functionalized with Molecular Monolayers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8523-8532.	1.2	62
14	Direct electrical detection of antigen-antibody binding on diamond and silicon substrates using electrical impedance spectroscopy. <i>Analyst</i> , The, 2007, 132, 296-306.	1.7	59
15	Fully automated multiorgan segmentation in abdominal magnetic resonance imaging with deep neural networks. <i>Medical Physics</i> , 2020, 47, 4971-4982.	1.6	54
16	Semiconductor Nanoparticles as Energy Mediators for Photosensitizer-Enhanced Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 72, 633-635.	0.4	53
17	Invasive cleavage reactions on DNA-modified diamond surfaces. <i>Biopolymers</i> , 2004, 73, 606-613.	1.2	52
18	Influence of Body Mass Index and Albumin on Perioperative Morbidity and Clinical Outcomes in Resected Pancreatic Adenocarcinoma. <i>PLoS ONE</i> , 2016, 11, e0152172.	1.1	43

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19	Adequacy of inhale/exhale breathhold CT based ITV margins and image-guided registration for free-breathing pancreas and liver SBRT. <i>Radiation Oncology</i> , 2014, 9, 11.	1.2	42
20	Automatic detection and segmentation of multiple brain metastases on magnetic resonance image using asymmetric UNet architecture. <i>Physics in Medicine and Biology</i> , 2021, 66, 015003.	1.6	34
21	Tumor cell apoptosis induced by nanoparticle conjugate in combination with radiation therapy. <i>Nanotechnology</i> , 2010, 21, 475103.	1.3	24
22	Four-Dimensional Magnetic Resonance Imaging With 3-Dimensional Radial Sampling and Self-Gating-Based k-Space Sorting: Early Clinical Experience on Pancreatic Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 93, 1136-1143.	0.4	19
23	Covalent molecular functionalization of diamond thin-film transistors. <i>Diamond and Related Materials</i> , 2007, 16, 1608-1615.	1.8	18
24	Radiation therapy of post-mastectomy patients with positive nodes using fixed beam tomotherapy. <i>Radiotherapy and Oncology</i> , 2011, 100, 247-252.	0.3	17
25	3D Dose Verification Using Tomotherapy CT Detector Array. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, 1013-1020.	0.4	16
26	Six-dimensional quantitative DCE MR Multitasking of the entire abdomen: Method and application to pancreatic ductal adenocarcinoma. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 928-948.	1.9	16
27	Dosimetric evaluation of simultaneous integrated boost during stereotactic body radiation therapy for pancreatic cancer. <i>Medical Dosimetry</i> , 2015, 40, 47-52.	0.4	15
28	Helical Tomotherapy-Based STAT Stereotactic Body Radiation Therapy: Dosimetric Evaluation for a Real-Time SBRT Treatment Planning and Delivery Program. <i>Medical Dosimetry</i> , 2010, 35, 312-319.	0.4	12
29	Clinical experience using a video-guided spirometry system for deep inhalation breathhold radiotherapy of left-sided breast cancer. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 251-260.	0.8	12
30	Geometric validation of self-gating k-space sorted 4D-MRI vs 4D-CT using a respiratory motion phantom. <i>Medical Physics</i> , 2015, 42, 5787-5797.	1.6	12
31	Feasibility of Non-Coplanar Tomotherapy for Lung Cancer Stereotactic Body Radiation Therapy. <i>Technology in Cancer Research and Treatment</i> , 2011, 10, 307-315.	0.8	11
32	Improved vessel-tissue contrast and image quality in 3D radial sampling-based 4D-MRI. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 250-257.	0.8	10
33	The implication of non-cyclic intrafractional longitudinal motion in SBRT by TomoTherapy. <i>Physics in Medicine and Biology</i> , 2009, 54, 2875-2884.	1.6	9
34	Tumor cell survival dependence on helical tomotherapy, continuous arc and segmented dose delivery. <i>Physics in Medicine and Biology</i> , 2009, 54, 6635-6643.	1.6	8
35	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. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 95, 1058-1066.	0.4	8
36	Automatic segmentation of high-risk clinical target volume for tandem and ovoids brachytherapy patients using an asymmetric dual-path convolutional neural network. <i>Medical Physics</i> , 2022, 49, 1712-1722.	1.6	8

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37	Dosimetric Comparison of 6 MV and 15 MV Single Arc Rapidarc to Helical TomoTherapy for the Treatment of Pancreatic Cancer. <i>Medical Dosimetry</i> , 2011, 36, 317-320.	0.4	7
38	Standardized evaluation of simultaneous integrated boost plans on volumetric modulated arc therapy. <i>Physics in Medicine and Biology</i> , 2011, 56, 327-339.	1.6	7
39	Anatomical and topographical variations in the distribution of brain metastases based on primary cancer origin and molecular subtypes: a systematic review. <i>Neuro-Oncology Advances</i> , 2022, 4, vdab170.	0.4	7
40	Automatic differentiation of Grade I and II meningiomas on magnetic resonance image using an asymmetric convolutional neural network. <i>Scientific Reports</i> , 2022, 12, 3806.	1.6	6
41	STAT RAD: A Potential Real-Time Radiation Therapy Workflow. , 0, , .		5
42	Single projection driven real-time multi-contrast (SPIDERM) MR imaging using pre-learned spatial subspace and linear transformation. <i>Physics in Medicine and Biology</i> , 2022, 67, 135008.	1.6	4
43	Novel 4D-MRI of tumor infiltrating vasculature: characterizing tumor and vessel volume motion for selective boost volume definition in pancreatic radiotherapy. <i>Radiation Oncology</i> , 2018, 13, 191.	1.2	3
44	Quantifying vascular invasion in pancreatic cancer—a contrast CT based method for surgical resectability evaluation. <i>Physics in Medicine and Biology</i> , 2020, 65, 105012.	1.6	3
45	Discriminating lung adenocarcinoma from lung squamous cell carcinoma using respiration-induced tumor shape changes. <i>Physics in Medicine and Biology</i> , 2018, 63, 215027.	1.6	2
46	A post-processing method based on interphase motion correction and averaging to improve image quality of 4D magnetic resonance imaging: a clinical feasibility study. <i>British Journal of Radiology</i> , 2019, 92, 20180424.	1.0	2
47	Quantitative Characterization of Tumor Proximity to Stem Cell Niches: Implications on Recurrence and Survival in GBM Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 1180-1188.	0.4	2
48	Pretreatment [18F] FDG-PET texture analysis to predict local response of pancreatic cancer to radiotherapy.. <i>Journal of Clinical Oncology</i> , 2014, 32, 375-375.	0.8	2
49	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. <i>Medical Physics</i> , 2009, 36, 2808-2808.	1.6	2
50	Deformable alignment of longitudinal postoperative brain GBM scans using deep learning. , 2020, , .		2
51	Bladder surface dose modeling in prostate cancer radiotherapy: An analysis of motion-induced variations and the cumulative dose across the treatment. <i>Medical Physics</i> , 2021, 48, 8024-8036.	1.6	2
52	Voxelwise Prediction of Recurrent High-Grade Glioma via Proximity Estimation—Coupled Multidimensional Support Vector Machine. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 112, 1279-1287.	0.4	2
53	Preparation and Electrochemical Characterization of DNA-modified Nanocrystalline Diamond Films. <i>Materials Research Society Symposia Proceedings</i> , 2002, 737, 569.	0.1	1
54	Novel FRET-Based Radiosensitization Using Quantum Dot-Photosensitizer Conjugates. <i>Conference Record of the Asilomar Conference on Signals, Systems and Computers</i> , 2007, , .	0.0	1

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55	Combined morphologic and metabolic pipeline for Positron emission tomography/computed tomography based radiotherapy response evaluation in locally advanced pancreatic adenocarcinoma. <i>Physics and Imaging in Radiation Oncology</i> , 2019, 9, 28-34.	1.2	1
56	<sup>18</sup> F-FDG PET as a predictor of resectability and clinical outcomes in locally advanced pancreatic cancer patients treated with radiotherapy.. <i>Journal of Clinical Oncology</i> , 2014, 32, 378-378.	0.8	1
57	A novel morphologic and metabolic feature fused treatment response evaluation pipeline for pancreatic adenocarcinoma patients.. <i>Journal of Clinical Oncology</i> , 2018, 36, 311-311.	0.8	0
58	Combined chemoradiotherapy and PARP inhibition in pancreatic cancer to induce a synchronous inflammatory cytokine response.. <i>Journal of Clinical Oncology</i> , 2018, 36, 29-29.	0.8	0