Mingyao Zhu

List of Publications by Year in Descending Order

31 papers	1,171 citations	13 h-index	34 g-index
34 ext. papers	1,300 ext. citations	3.4 avg, IF	3.7 L-index

#	Paper	IF	Citations
31	Intensity Modulated Proton Therapy Treatment Planning for Postmastectomy Patients with Metallic Port Tissue Expanders. *Advances in Radiation Oncology*, **2022**, 7, 100825	3.3	
30	Simulation of an HDR "Boost" with Stereotactic Proton versus Photon Therapy in Prostate Cancer: A Dosimetric Feasibility Study. *International Journal of Particle Therapy*, **2021**, 7, 11-23	1.5	
29	Outcomes of and treatment planning considerations for a hybrid technique delivering proton pencil-beam scanning radiation to women with metal-containing tissue expanders undergoing post-mastectomy radiation. *Radiotherapy and Oncology*, **2021**, 164, 289-298	5.3	
28	Plan quality effects of maximum monitor unit constraints in pencil beam scanning proton therapy for central nervous system and skull base tumors. *Radiotherapy and Oncology*, **2021**, 160, 18-24	5.3	
27	Radiation dose-painting with protons vs. photons for head-and-neck cancer. *Acta Oncologica*, **2020**, 59, 525-533	3.2	5
26	Proton Versus Intensity-Modulated Radiation Therapy: First Dosimetric Comparison for Total Scalp Irradiation. *International Journal of Particle Therapy*, **2020**, 6, 19-26	1.5	0
25	Multiple Computed Tomography Robust Optimization to Account for Random Anatomic Density Variations During Intensity Modulated Proton Therapy. *Advances in Radiation Oncology*, **2020**, 5, 1022-1031	3.3	2
24	Proton beam therapy delivered using pencil beam scanning vs. passive scattering/uniform scanning for localized prostate cancer: Comparative toxicity analysis of PCG 001-09. *Clinical and Translational Radiation Oncology*, **2019**, 19, 80-86	4.6	8
23	Proton Therapy Delivery and Its Clinical Application in Select Solid Tumor Malignancies. *Journal of Visualized Experiments*, **2019**,	1.6	2
22	Technical Note: Quality assurance of proton central axis pencil-beam spread-out Bragg peak using large-diameter multilayer ionization chambers. *Medical Physics*, **2019**, 46, 4685-4689	4.4	2
21	Techniques for Treating Bilateral Breast Cancer Patients Using Pencil Beam Scanning Technology. *International Journal of Particle Therapy*, **2019**, 6, 1-11	1.5	5
20	Preserving Endocrine Function in Premenopausal Women Undergoing Whole Pelvis Radiation for Cervical Cancer. *International Journal of Particle Therapy*, **2019**, 6, 10-17	1.5	5
19	A comparison of two pencil beam scanning treatment planning systems for proton therapy. *Journal of Applied Clinical Medical Physics*, **2018**, 19, 156-163	2.3	14
18	Concepts of PTV and Robustness in Passively Scattered and Pencil Beam Scanning Proton Therapy. *Seminars in Radiation Oncology*, **2018**, 28, 248-255	5.5	14
17	Proton beam therapy for malignant pleural mesothelioma. *Translational Lung Cancer Research*, **2018**, 7, 189-198	4.4	9
16	The influence of patient positioning uncertainties in proton radiotherapy on proton range and dose distributions. *Medical Physics*, **2014**, 41, 091711	4.4	18
15	Long-term stability and mechanical characteristics of kV digital imaging system for proton radiotherapy. *Medical Physics*, **2014**, 41, 041706	4.4	4

List of Publications

14	Multi-institutional quantitative evaluation and clinical validation of Smart Probabilistic Image Contouring Engine (SPICE) autosegmentation of target structures and normal tissues on computer tomography images in the head and neck, thorax, liver, and male pelvis areas. *International Journal of Radiation Oncology Biology Physics*, **2013**, 87, 809-16	4	24
13	Catching errors with patient-specific pretreatment machine log file analysis. *Practical Radiation Oncology*, **2013**, 3, 80-90	2.8	32
12	Adaptive radiation therapy for postprostatectomy patients using real-time electromagnetic target motion tracking during external beam radiation therapy. *International Journal of Radiation Oncology Biology Physics*, **2013**, 85, 1038-44	4	25
11	Transfer of carbon nanosheet films to nongrowth, zero thermal budget substrates. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2011**, 29, 030602	1.3	4
10	Size and Thickness Effect on the Local Strain Relaxation in Patterned Strained Silicon-on-Insulator. *Electrochemical and Solid-State Letters*, **2009**, 12, H113		5
9	Carbon nanosheets as the electrode material in supercapacitors. *Journal of Power Sources*, **2009**, 194, 1208-1212	8.9	150
8	Uniform and enhanced field emission from chromium oxide coated carbon nanosheets. *Applied Physics Letters*, **2008**, 92, 133112	3.4	33
7	A mechanism for carbon nanosheet formation. *Carbon*, **2007**, 45, 2229-2234	10.4	274
6	Field emission observation of carbon nanosheet thin film by photoelectron emission microscopy (PEEM) **2007**,		1
5	Synthesis of carbon nanosheets and carbon nanotubes by radio frequency plasma enhanced chemical vapor deposition. *Diamond and Related Materials*, **2007**, 16, 196-201	3.5	61
4	High field emission reproducibility and stability of carbon nanosheets and nanosheet-based backgated triode emission devices. *Applied Physics Letters*, **2006**, 89, 183103	3.4	79
3	Synthesis of carbon nanosheets by inductively coupled radio-frequency plasma enhanced chemical vapor deposition. *Carbon*, **2004**, 42, 2867-2872	10.4	360
2	Synthesis and field-emission testing of carbon nanoflake edge emitters. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2004**, 22, 1269		34
1	Effects of ELF capacitively coupled weak electric fields on metabolism of 6B1 cells. *Bioelectrochemistry*, **1999**, 48, 369-73		1