George X Ding

List of Publications by Year
in descending order

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45 papers	2,289 citations	304743 22 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	1650 citing authors

#	Article	IF	Citations
1	Small fields: Nonequilibrium radiation dosimetry. Medical Physics, 2008, 35, 206-215.	3.0	532
2	A study on adaptive IMRT treatment planning using kV cone-beam CT. Radiotherapy and Oncology, 2007, 85, 116-125.	0.6	167
3	Accurate patient dosimetry of kilovoltage coneâ€beam CT in radiation therapy. Medical Physics, 2008, 35, 1135-1144.	3.0	150
4	Radiation Dose From Kilovoltage Cone Beam Computed Tomography in an Image-Guided Radiotherapy Procedure. International Journal of Radiation Oncology Biology Physics, 2009, 73, 610-617.	0.8	148
5	Energy spectra, angular spread, fluence profiles and dose distributions of 6 and 18 MV photon beams: results of Monte Carlo simulations for a Varian 2100EX accelerator. Physics in Medicine and Biology, 2002, 47, 1025-1046.	3.0	136
6	Characteristics of kilovoltage x-ray beams used for cone-beam computed tomography in radiation therapy. Physics in Medicine and Biology, 2007, 52, 1595-1615.	3.0	114
7	Image guidance doses delivered during radiotherapy: Quantification, management, and reduction: Report of the <scp>AAPM</scp> Therapy Physics Committee Task Group 180. Medical Physics, 2018, 45, e84-e99.	3.0	104
8	Impact of inhomogeneity corrections on dose coverage in the treatment of lung cancer using stereotactic body radiation therapy. Medical Physics, 2007, 34, 2985-2994.	3.0	78
9	Radiation exposure to patients from image guidance procedures and techniques to reduce the imaging dose. Radiotherapy and Oncology, 2013, 108, 91-98.	0.6	77
10	Reducing radiation exposure to patients from kV-CBCT imaging. Radiotherapy and Oncology, 2010, 97, 585-592.	0.6	74
11	Dose discrepancies between Monte Carlo calculations and measurements in the buildup region for a high-energy photon beam. Medical Physics, 2002, 29, 2459-2463.	3.0	62
12	A comparison of electron beam dose calculation accuracy between treatment planning systems using either a pencil beam or a Monte Carlo algorithm. International Journal of Radiation Oncology Biology Physics, 2005, 63, 622-633.	0.8	59
13	First macro Monte Carlo based commercial dose calculation module for electron beam treatment planningâ€"new issues for clinical consideration. Physics in Medicine and Biology, 2006, 51, 2781-2799.	3.0	57
14	Report of AAPM Task Group 155: Megavoltage photon beam dosimetry in small fields and nonâ€equilibrium conditions. Medical Physics, 2021, 48, e886-e921.	3.0	50
15	Tumor control probability modeling for stereotactic body radiation therapy of early-stage lung cancer using multiple bio-physical models. Radiotherapy and Oncology, 2017, 122, 286-294.	0.6	44
16	Using Monte Carlo simulations to commission photon beam output factorsâ€"a feasibility study. Physics in Medicine and Biology, 2003, 48, 3865-3874.	3.0	37
17	Beam characteristics and radiation output of a kilovoltage cone-beam CT. Physics in Medicine and Biology, 2010, 55, 5231-5248.	3.0	32
18	Local Control After Stereotactic Body Radiation Therapy for Stage I Non-Small Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2021, 110, 160-171.	0.8	32

#	Article	IF	Citations
19	An optically stimulated luminescence dosimeter for measuring patient exposure from imaging guidance procedures. Physics in Medicine and Biology, 2013, 58, 5885-5897.	3.0	31
20	A simple technique to improve calculated skin dose accuracy in a commercial treatment planning system. Journal of Applied Clinical Medical Physics, 2018, 19, 191-197.	1.9	30
21	Stereotactic Body Radiation Therapy for Spinal Metastases: Tumor Control Probability Analyses and Recommended Reporting Standards. International Journal of Radiation Oncology Biology Physics, 2021, 110, 112-123.	0.8	25
22	Loss of Nrf2 promotes alveolar type 2 cell loss in irradiated, fibrotic lung. Free Radical Biology and Medicine, 2017, 112, 578-586.	2.9	24
23	An investigation of accelerator head scatter and output factor in air. Medical Physics, 2004, 31, 2527-2533.	3.0	23
24	Tumor Control Probability Modeling and Systematic Review of the Literature of Stereotactic Body Radiation Therapy for Prostate Cancer. International Journal of Radiation Oncology Biology Physics, 2021, 110, 227-236.	0.8	23
25	An alternative approach to account for patient organ doses from imaging guidance procedures. Radiotherapy and Oncology, 2014, 112, 112-118.	0.6	19
26	Beam characteristics and stopping-power ratios of small radiosurgery photon beams. Physics in Medicine and Biology, 2012, 57, 5509-5521.	3.0	16
27	A theoretical approach for non-equilibrium radiation dosimetry. Physics in Medicine and Biology, 2008, 53, 3493-3499.	3.0	15
28	A single-gradient junction technique to replace multiple-junction shifts for craniospinal irradiation treatment. Medical Dosimetry, 2014, 39, 314-319.	0.9	15
29	Margin of error for a frameless image guided radiosurgery system: Direct confirmation based on posttreatment MRI scans. Practical Radiation Oncology, 2017, 7, e223-e231.	2.1	15
30	Are neutrons responsible for the dose discrepancies between Monte Carlo calculations and measurements in the build-up region for a high-energy photon beam?. Physics in Medicine and Biology, 2002, 47, 3251-3261.	3.0	12
31	Dosimetric evaluation of the OneDose^{â„¢} MOSFET for measuring kilovoltage imaging dose from imageâ€guided radiotherapy procedures. Medical Physics, 2010, 37, 4880-4885.	3.0	12
32	Skin dose differences between intensity-modulated radiation therapy and volumetric-modulated arc therapy and between boost and integrated treatment regimens for treating head and neck and other cancer sites in patients. Medical Dosimetry, 2016, 41, 80-86.	0.9	12
33	Stereotactic Radiosurgery for Vestibular Schwannomas: Tumor Control Probability Analyses and Recommended Reporting Standards. International Journal of Radiation Oncology Biology Physics, 2021, 110, 100-111.	0.8	12
34	An empirical formula to obtain tissue-phantom ratios from percentage depthâ€“dose curves for small fields. Physics in Medicine and Biology, 2013, 58, 4781-4789.	3.0	10
35	Characteristics of 2.5â€¯MV beam and imaging dose to patients. Radiotherapy and Oncology, 2017, 125, 541-547.	0.6	10
36	Estimating the uncertainty of calculated outâ€ofâ€field organ dose from a commercial treatment planning system. Journal of Applied Clinical Medical Physics, 2018, 19, 319-324.	1.9	7

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37	Scalp-sparing total skin electron therapy in mycosis fungoides: Case report featuring a technique without lead. Practical Radiation Oncology, 2017, 7, 400-402.	2.1	5
38	Prospective observational trial of low-dose skin electron beam therapy in mycosis fungoides using a rotational technique. Journal of the American Academy of Dermatology, 2021, 85, 121-127.	1.2	5
39	Monte Carlo study on dose distributions from total skin electron irradiation therapy (TSET). Physics in Medicine and Biology, 2021, 66, 075010.	3.0	5
40	Validity of equivalent square field concept in small field dosimetry. Medical Physics, 2022, 49, 4043-4055.	3.0	4
41	Dosimetric effects of incorrect jaw settings in cranial radiosurgery. Biomedical Physics and Engineering Express, 2018, 4, 027004.	1.2	2
42	Stoppingâ€power ratios for electron beams used in total skin electron therapy. Medical Physics, 2021, 48, 5472-5478.	3.0	2
43	Diffuse Primary Cutaneous Anaplastic Large Cell Lymphoma Treated by Rotational Total Skin Electron Beam Radiotherapy with Custom Shielding: Case Report. Journal of Medical Imaging and Radiation Sciences, 2019, 50, 454-459.	0.3	1
44	Technical Note: Imaging dose resulting from optimized procedures with limitedâ€angle intrafractional verification system during stereotactic body radiation therapy lung treatment. Medical Physics, 2019, 46, 2709-2715.	3.0	0
45	Technical note: Bremsstrahlung dose in the electron beam at extended distances in total skin electron therapy. Medical Physics, 2022, 49, 1297-1302.	3.0	0