

X George Xu

List of Publications by Citations

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78
papers

2,338
citations

25
h-index

47
g-index

81
ext. papers

2,809
ext. citations

3
avg, IF

5.21
L-index

#	Paper	IF	Citations
78	A review of dosimetry studies on external-beam radiation treatment with respect to second cancer induction. <i>Physics in Medicine and Biology</i> , 2008 , 53, R193-241	3.8	311
77	A boundary-representation method for designing whole-body radiation dosimetry models: pregnant females at the ends of three gestational periods--RPI-P3, -P6 and -P9. <i>Physics in Medicine and Biology</i> , 2007 , 52, 7023-44	3.8	169
76	Second malignant neoplasms and cardiovascular disease following radiotherapy. <i>Journal of the National Cancer Institute</i> , 2012 , 104, 357-70	9.7	154
75	An exponential growth of computational phantom research in radiation protection, imaging, and radiotherapy: a review of the fifty-year history. <i>Physics in Medicine and Biology</i> , 2014 , 59, R233-302	3.8	152
74	AAPM TG 158: Measurement and calculation of doses outside the treated volume from external-beam radiation therapy. <i>Medical Physics</i> , 2017 , 44, e391-e429	4.4	125
73	Simulation of organ-specific patient effective dose due to secondary neutrons in proton radiation treatment. <i>Physics in Medicine and Biology</i> , 2005 , 50, 4337-53	3.8	115
72	RPI-AM and RPI-AF, a pair of mesh-based, size-adjustable adult male and female computational phantoms using ICRP-89 parameters and their calculations for organ doses from monoenergetic photon beams. <i>Physics in Medicine and Biology</i> , 2009 , 54, 5885-908	3.8	83
71	Assessment of organ-specific neutron equivalent doses in proton therapy using computational whole-body age-dependent voxel phantoms. <i>Physics in Medicine and Biology</i> , 2008 , 53, 693-717	3.8	81
70	Extension of RPI-adult male and female computational phantoms to obese patients and a Monte Carlo study of the effect on CT imaging dose. <i>Physics in Medicine and Biology</i> , 2012 , 57, 2441-59	3.8	74
69	Deformable adult human phantoms for radiation protection dosimetry: anthropometric data representing size distributions of adult worker populations and software algorithms. <i>Physics in Medicine and Biology</i> , 2010 , 55, 3789-811	3.8	65
68	VirtualDose: a software for reporting organ doses from CT for adult and pediatric patients. <i>Physics in Medicine and Biology</i> , 2015 , 60, 5601-25	3.8	64
67	Monte Carlo modeling of a 6 and 18 MV Varian Clinac medical accelerator for in-field and out-of-field dose calculations: development and validation. <i>Physics in Medicine and Biology</i> , 2009 , 54, N43-57	3.8	64
66	Image guidance doses delivered during radiotherapy: Quantification, management, and reduction: Report of the AAPM Therapy Physics Committee Task Group 180. <i>Medical Physics</i> , 2018 , 45, e84-e99	4.4	61
65	RADAR reference adult, pediatric, and pregnant female phantom series for internal and external dosimetry. <i>Journal of Nuclear Medicine</i> , 2012 , 53, 1807-13	8.9	51
64	Development of a 30-week-pregnant female tomographic model from computed tomography (CT) images for Monte Carlo organ dose calculations. <i>Medical Physics</i> , 2004 , 31, 2491-7	4.4	47
63	A comparative study on the risk of second primary cancers in out-of-field organs associated with radiotherapy of localized prostate carcinoma using Monte Carlo-based accelerator and patient models. <i>Medical Physics</i> , 2010 , 37, 1987-94	4.4	42
62	Assessment of patient organ doses and effective doses using the VIP-Man adult male phantom for selected cone-beam CT imaging procedures during image guided radiation therapy. <i>Radiation Protection Dosimetry</i> , 2008 , 131, 431-43	0.9	32

61	A feasibility study to calculate unshielded fetal doses to pregnant patients in 6-MV photon treatments using Monte Carlo methods and anatomically realistic phantoms. <i>Medical Physics</i> , 2008 , 35, 3054-61	4.4	32
60	A comparison of pediatric and adult CT organ dose estimation methods. <i>BMC Medical Imaging</i> , 2017 , 17, 28	2.9	30
59	Monte Carlo modeling of a high-sensitivity MOSFET dosimeter for low- and medium-energy photon sources. <i>Medical Physics</i> , 2004 , 31, 1003-8	4.4	30
58	Monte Carlo calculation of imaging doses from diagnostic multidetector CT and kilovoltage cone-beam CT as part of prostate cancer treatment plans. <i>Medical Physics</i> , 2010 , 37, 6199-204	4.4	27
57	Development of a simulator for radiographic image optimization. <i>Computer Methods and Programs in Biomedicine</i> , 2005 , 78, 179-90	6.9	27
56	Comparison of two types of adult phantoms in terms of organ doses from diagnostic CT procedures. <i>Physics in Medicine and Biology</i> , 2010 , 55, 1441-51	3.8	26
55	Calculated organ doses from selected prostate treatment plans using Monte Carlo simulations and an anatomically realistic computational phantom. <i>Physics in Medicine and Biology</i> , 2009 , 54, 5271-86	3.8	26
54	A method of rapid quantification of patient-specific organ doses for CT using deep-learning-based multi-organ segmentation and GPU-accelerated Monte Carlo dose computing. <i>Medical Physics</i> , 2020 , 47, 2526-2536	4.4	25
53	A method to acquire CT organ dose map using OSL dosimeters and ATOM anthropomorphic phantoms. <i>Medical Physics</i> , 2013 , 40, 081918	4.4	25
52	Comparison of organ doses for patients undergoing balloon brachytherapy of the breast with HDR 192Ir or electronic sources using monte carlo simulations in a heterogeneous human phantom. <i>Medical Physics</i> , 2010 , 37, 662-71	4.4	25
51	Development of a geometry-based respiratory motion-simulating patient model for radiation treatment dosimetry. <i>Journal of Applied Clinical Medical Physics</i> , 2008 , 9, 2700	2.3	22
50	Fetal doses to pregnant patients from CT with tube current modulation calculated using Monte Carlo simulations and realistic phantoms. <i>Radiation Protection Dosimetry</i> , 2013 , 155, 64-72	0.9	20
49	Measurements of non-target organ doses using MOSFET doseimeters for selected IMRT and 3D CRT radiation treatment procedures. <i>Radiation Protection Dosimetry</i> , 2008 , 128, 336-42	0.9	19
48	A method of using deep learning to predict three-dimensional dose distributions for intensity-modulated radiotherapy of rectal cancer. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 26-37	2.3	19
47	SAF values for internal photon emitters calculated for the RPI-P pregnant-female models using Monte Carlo methods. <i>Medical Physics</i> , 2008 , 35, 3215-24	4.4	16
46	Influences of operator head posture and protective eyewear on eye lens doses in interventional radiology: A Monte Carlo Study. <i>Medical Physics</i> , 2019 , 46, 2744-2751	4.4	15
45	A study of the shielding used to reduce leakage and scattered radiation to the fetus in a pregnant patient treated with a 6-MV external X-ray beam. <i>Health Physics</i> , 2009 , 97, 581-9	2.3	15
44	Patient-specific organ and effective dose estimates in pediatric oncology computed tomography. <i>Physica Medica</i> , 2018 , 45, 146-155	2.7	14

43	The impact of robustness of deformable image registration on contour propagation and dose accumulation for head and neck adaptive radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 185-194	2.3	14
42	ARCHERRT - a GPU-based and photon-electron coupled Monte Carlo dose computing engine for radiation therapy: software development and application to helical tomotherapy. <i>Medical Physics</i> , 2014 , 41, 071709	4.4	14
41	Use of the VIP-Man model to calculate energy imparted and effective dose for x-ray examinations. <i>Health Physics</i> , 2004 , 86, 174-82	2.3	14
40	Monte Carlo study of MOSFET dosimeter characteristics: dose dependence on photon energy, direction and dosimeter composition. <i>Radiation Protection Dosimetry</i> , 2005 , 113, 40-6	0.9	14
39	Dose assessment for the fetus considering scattered and secondary radiation from photon and proton therapy when treating a brain tumor of the mother. <i>Physics in Medicine and Biology</i> , 2016 , 61, 683-95	3.8	13
38	Point/counterpoint. GPU technology is the hope for near real-time Monte Carlo dose calculations. <i>Medical Physics</i> , 2015 , 42, 1474-6	4.4	11
37	A new technique to characterize CT scanner bow-tie filter attenuation and applications in human cadaver dosimetry simulations. <i>Medical Physics</i> , 2015 , 42, 6274-82	4.4	11
36	Radiation Dosimetry of Whole-Body Dual-Tracer 18F-FDG and 11C-Acetate PET/CT for Hepatocellular Carcinoma. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 907-12	8.9	10
35	ARCHER, a new Monte Carlo software tool for emerging heterogeneous computing environments. <i>Annals of Nuclear Energy</i> , 2015 , 82, 2-9	1.7	9
34	In vitro dose measurements in a human cadaver with abdomen/pelvis CT scans. <i>Medical Physics</i> , 2014 , 41, 091911	4.4	9
33	Photon Activation Analysis for River Sediment Sample Using a 60 MeV Linear Electron Accelerator. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2000 , 245, 501-507	1.5	9
32	Direct and fast measurement of CT beam filter profiles with simultaneous geometrical calibration. <i>Medical Physics</i> , 2017 , 44, 57-70	4.4	8
31	The profound effects of patient arm positioning on organ doses from CT procedures calculated using Monte Carlo simulations and deformable phantoms. <i>Radiation Protection Dosimetry</i> , 2015 , 164, 368-75	0.9	7
30	Fluence-to-absorbed-dose conversion coefficients for neutron beams from 0.001 eV to 100 GeV calculated for a set of pregnant female and fetus models. <i>Physics in Medicine and Biology</i> , 2008 , 53, 1425-46	3.8	7
29	Evaluation of deep learning-based auto-segmentation algorithms for delineating clinical target volume and organs at risk involving data for 125 cervical cancer patients. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 272-279	2.3	7
28	EVALUATION OF SECONDARY DOSE AND CANCER RISK FOR OUT-OF-FIELD ORGAN IN ESOPHAGEAL CANCER IMRT IN A CHINESE HOSPITAL USING ATOM PHANTOM MEASUREMENTS. <i>Radiation Protection Dosimetry</i> , 2017 , 177, 389-396	0.9	6
27	MCDNet \boxtimes Denoising Convolutional Neural Network to Accelerate Monte Carlo Radiation Transport Simulations: A Proof of Principle With Patient Dose From X-Ray CT Imaging. <i>IEEE Access</i> , 2019 , 7, 76680-76689	3.5	5
26	Comparison of effective doses from various monoenergetic particles based on the stylised and the VIP-Man tomographic models. <i>Radiation Protection Dosimetry</i> , 2005 , 115, 530-5	0.9	5

25	Effective dose for patients undergoing coronary and femoral intravascular radiotherapy involving an HDR 192Ir source. <i>Radiation Protection Dosimetry</i> , 2005 , 115, 289-93	0.9	5
24	Comparison of Measured and Estimated CT Organ Doses for Modulated and Fixed Tube Current:: A Human Cadaver Study. <i>Academic Radiology</i> , 2016 , 23, 634-42	4.3	4
23	Specific absorbed fractions for internal electron emitters derived for a set of anatomically realistic reference pregnant female models. <i>Radiation Protection Dosimetry</i> , 2010 , 138, 20-8	0.9	4
22	Foetal dose conversion coefficients for ICRP-compliant pregnant models from idealised proton exposures. <i>Radiation Protection Dosimetry</i> , 2009 , 133, 65-72	0.9	4
21	Fluence to absorbed foetal dose conversion coefficients for photons in 50 keV-10 GeV calculated using RPI-P models. <i>Radiation Protection Dosimetry</i> , 2008 , 131, 159-66	0.9	4
20	DEVELOPMENT OF A SET OF MESH-BASED AND AGE-DEPENDENT CHINESE PHANTOMS AND APPLICATION FOR CT DOSE CALCULATIONS. <i>Radiation Protection Dosimetry</i> , 2018 , 179, 370-382	0.9	3
19	MONTE CARLO SIMULATION OF OUT-OF-FIELD ORGAN DOSES AND CANCER RISK IN TANZANIA FOR RADIATION THERAPY OF UNILATERAL RETINOBLASTOMA USING A 60Co UNIT. <i>Radiation Protection Dosimetry</i> , 2018 , 179, 263-270	0.9	3
18	Design and test of a PC-based portable three-dimensional ultrasound software system Ultra3D. <i>Computers in Biology and Medicine</i> , 2008 , 38, 244-51	7	3
17	Effective dose equivalent for point gamma sources located 10 cm near the body. <i>Health Physics</i> , 2006 , 91, 108-18	2.3	3
16	The effective dose equivalent and effective dose for hot particles on the skin. <i>Health Physics</i> , 2005 , 89, 53-70	2.3	3
15	End-to-end unsupervised cycle-consistent fully convolutional network for 3D pelvic CT-MR deformable registration. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 193-200	2.3	3
14	Monte carlo study of organ doses and related risk for cancer in Tanzania from scattered photons in cervical radiation treatment involving Co-60 source. <i>Physica Medica</i> , 2019 , 62, 13-19	2.7	2
13	CONCEPTUAL DESIGN AND PRELIMINARY RESULTS OF A VR-BASED RADIATION SAFETY TRAINING SYSTEM FOR INTERVENTIONAL RADIOLOGISTS. <i>Radiation Protection Dosimetry</i> , 2020 , 190, 58-65	0.9	2
12	The EPRI EDE calculator--a software package for assessing effective dose equivalent from hot particles on the skin. <i>Health Physics</i> , 2006 , 91, 373-8	2.3	2
11	ARCHER, a New Monte Carlo Software Tool for Emerging Heterogeneous Computing Environments 2014 ,		2
10	Patient-Specific Organ and Effective Dose Estimates in Adult Oncologic CT. <i>American Journal of Roentgenology</i> , 2020 , 214, 738-746	5.4	2
9	Monte Carlo calculations for reporting patient organ doses from interventional radiology. <i>EPJ Web of Conferences</i> , 2017 , 153, 04016	0.3	1
8	Recent Progress on the Development of Tomographic Models. <i>Japanese Journal of Health Physics</i> , 2006 , 41, 188-193	0.1	1

7	Clinical application and improvement of a CNN-based autosegmentation model for clinical target volumes in cervical cancer radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 115-125	2.3	1
6	Feasibility evaluation of PET scan-time reduction for diagnosing amyloid- β levels in Alzheimer's disease patients using a deep-learning-based denoising algorithm. <i>Computers in Biology and Medicine</i> , 2021 , 138, 104919	7	0
5	Development of the Standalone Package for Enhanced Estimation of Dose Distribution for Space Radiation Applications. <i>Nuclear Technology</i> , 2015 , 192, 308-313	1.4	
4	Computational Phantoms for Organ Dose Calculations in Radiation Protection and Imaging 2014 , 225-262		
3	Monte Carlo Simulation of Performance of a Time-Resolved Range Telescope Using Selected Image Quality Assurance Phantoms. <i>Nuclear Technology</i> , 2011 , 175, 58-62	1.4	
2	Modeling of Human Anatomy for Radiation Dosimetry: An Example of the VIP-Man Model. <i>ACS Symposium Series</i> , 2006 , 115-130	0.4	
1	Innovations in Computer Technologies Have Impacted Radiation Dosimetry Through Anatomically Realistic Phantoms and Fast Monte Carlo Simulations. <i>Health Physics</i> , 2019 , 116, 263-275	2.3	