Wesley Bolch

List of Publications by Year in Descending Order

177 papers	4,752 citations	36 h-index	63 g-index
185 ext. papers	5,685 ext. citations	4.2 avg, IF	5.4 L-index

#	Paper	IF	Citations
177	A dynamic blood flow model to compute absorbed dose to circulating blood and lymphocytes in liver external beam radiotherapy.. *Physics in Medicine and Biology*, **2022**,	3.8	3
176	The Enduring Legacy of Marie Curie: Impacts of Radium in 21 Century Radiological and Medical Sciences.. *International Journal of Radiation Biology*, **2022**, 1-27	2.9	0
175	Quantifying cancer risk from exposures to medical imaging in the Risk of Pediatric and Adolescent Cancer Associated with Medical Imaging (RIC) Study: research methods and cohort profile.. *Cancer Causes and Control*, **2022**, 1	2.8	0
174	A mesh-based model of liver vasculature: implications for improved radiation dosimetry to liver parenchyma for radiopharmaceuticals.. *EJNMMI Physics*, **2022**, 9, 28	4.4	
173	Imaging and dosimetry for alpha-particle emitter radiopharmaceutical therapy: improving radiopharmaceutical therapy by looking into the black box. *European Journal of Nuclear Medicine and Molecular Imaging*, **2021**, 1	8.8	0
172	Japanese pediatric and adult atomic bomb survivor dosimetry: potential improvements using the J45 phantom series and modern Monte Carlo transport. *Radiation and Environmental Biophysics*, **2021**, 1	2	0
171	Overview of the First NRG Oncology-National Cancer Institute Workshop on Dosimetry of Systemic Radiopharmaceutical Therapy. *Journal of Nuclear Medicine*, **2021**, 62, 1133-1139	8.9	5
170	Technical Note: Patient-morphed mesh-type phantoms to support personalized nuclear medicine dosimetry - a proof of concept study. *Medical Physics*, **2021**, 48, 2018-2026	4.4	0
169	Long-term medical imaging use in children with central nervous system tumors. *PLoS ONE*, **2021**, 16, e0248643	3.7	
168	Patient Size-Dependent Dosimetry Methodology Applied to F-FDG Using New ICRP Mesh Phantoms. *Journal of Nuclear Medicine*, **2021**,	8.9	2
167	Estimation of patient skin dose in fluoroscopy: summary of a joint report by AAPM TG357 and EFOMP. *Medical Physics*, **2021**, 48, e671-e696	4.4	6
166	Development of skeletal systems for ICRP pediatric mesh-type reference computational phantoms. *Journal of Radiological Protection*, **2021**,	1.2	2
165	HEDOS-a computational tool to assess radiation dose to circulating blood cells during external beam radiotherapy based on whole-body blood flow simulations. *Physics in Medicine and Biology*, **2021**, 66,	3.8	5
164	Overcoming Barriers to Radiopharmaceutical Therapy (RPT): An Overview From the NRG-NCI Working Group on Dosimetry of Radiopharmaceutical Therapy. *International Journal of Radiation Oncology Biology Physics*, **2021**, 109, 905-912	4	8
163	Specific absorbed fractions for a revised series of the UF/NCI pediatric reference phantoms: internal photon sources. *Physics in Medicine and Biology*, **2021**, 66, 035006	3.8	1
162	Specific absorbed fractions for a revised series of the UF/NCI pediatric reference phantoms: internal electron sources. *Physics in Medicine and Biology*, **2021**, 66, 035005	3.8	1
161	Renal Tc-DMSA pharmacokinetics in pediatric patients. *EJNMMI Physics*, **2021**, 8, 53	4.4	1

160	DeepAMO: a multi-slice, multi-view anthropomorphic model observer for visual detection tasks performed on volume images. *Journal of Medical Imaging*, **2021**, 8, 041204	2.6	0
159	ICRU REPORT 96, Dosimetry-Guided Radiopharmaceutical Therapy. *Journal of the ICRU*, **2021**, 21, 1-212	1.7	6
158	Patient Exposure from Radiologic and Nuclear Medicine Procedures in the United States: Procedure Volume and Effective Dose for the Period 2006-2016. *Radiology*, **2020**, 295, 418-427	20.5	66
157	Dosimetric Impact of a New Computational Voxel Phantom Series for the Japanese Atomic Bomb Survivors: Methodological Improvements and Organ Dose Response Functions. *Radiation Research*, **2020**, 194, 390-402	3.1	3
156	Accuracy in dosimetry of diagnostic agents: impact of the number of source tissues used in whole organ S value-based calculations. *EJNMMI Research*, **2020**, 10, 26	3.6	
155	Body morphometry appropriate computational phantoms for dose and risk optimization in pediatric renal imaging with Tc-99m DMSA and Tc-99m MAG3. *Physics in Medicine and Biology*, **2020**, 65, 235026	3.8	2
154	Dose and Risk Characterization in CT **2020**, 63-83		
153	Dosimetric considerations of Tc-MDP uptake within the epiphyseal plates of the long bones of pediatric patients. *Physics in Medicine and Biology*, **2020**, 65, 235025	3.8	2
152	Specific absorbed fractions and radionuclide S-values for tumors of varying size and composition. *Physics in Medicine and Biology*, **2020**, 65, 235015	3.8	3
151	Current pediatric administered activity guidelines for Tc-DMSA SPECT based on patient weight do not provide the same task-based image quality. *Medical Physics*, **2019**, 46, 4847-4856	4.4	3
150	Trends in Use of Medical Imaging in US Health Care Systems and in Ontario, Canada, 2000-2016. *JAMA - Journal of the American Medical Association*, **2019**, 322, 843-856	27.4	135
149	Organ and detriment-weighted dose rate coefficients for exposure to radionuclide-contaminated soil considering body morphometries that differ from reference conditions: adults and children. *Radiation and Environmental Biophysics*, **2019**, 58, 477-492	2	4
148	Dosimetric dependence of ocular structures on eye size and shape for external radiation fields of electrons, photons, and neutrons. *Journal of Radiological Protection*, **2019**, 39, 825-837	1.2	1
147	PARaDIM: A PHITS-Based Monte Carlo Tool for Internal Dosimetry with Tetrahedral Mesh Computational Phantoms. *Journal of Nuclear Medicine*, **2019**, 60, 1802-1811	8.9	9
146	A scalable database of organ doses for common diagnostic fluoroscopy examinations of children: procedures of current practice at the University of Florida. *Physics in Medicine and Biology*, **2019**, 64, 135023	3.8	2
145	Trends in Medical Imaging During Pregnancy in the United States and Ontario, Canada, 1996 to 2016. *JAMA Network Open*, **2019**, 2, e197249	10.4	14
144	A Scalable Database of Organ Doses for Common Diagnostic Fluoroscopy Procedures of Children: Procedures of Historical Practice for Use in Radiation Epidemiology Studies. *Radiation Research*, **2019**, 192, 649-661	3.1	2
143	Monte Carlo study of out-of-field exposure in carbon-ion radiotherapy: Organ doses in pediatric brain tumor treatment. *Medical Physics*, **2019**, 46, 5824-5832	4.4	2

142	Dosimetric Impact of a New Computational Voxel Phantom Series for the Japanese Atomic Bomb Survivors: Children and Adults. *Radiation Research*, **2019**, 191, 369-379	3.1	11
141	A Robust Algorithm for Voxel-to-Polygon Mesh Phantom Conversion **2019**, 317-327		
140	Dosimetric Impact of a New Computational Voxel Phantom Series for the Japanese Atomic Bomb Survivors: Pregnant Females. *Radiation Research*, **2019**, 192, 538-561	3.1	7
139	Advances in Computational Human Phantoms and Their Applications in Biomedical Engineering - A Topical Review. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2019**, 3, 1-23	4.2	31
138	New mesh-type phantoms and their dosimetric applications, including emergencies. *Annals of the ICRP*, **2018**, 47, 45-62	2.4	27
137	Physical validation of UF-RIPSA: A rapid in-clinic peak skin dose mapping algorithm for fluoroscopically guided interventions. *Journal of Applied Clinical Medical Physics*, **2018**, 19, 343-350	2.3	10
136	Comparative Dosimetry for Ga-DOTATATE: Impact of Using Updated ICRP Phantoms, S Values, and Tissue-Weighting Factors. *Journal of Nuclear Medicine*, **2018**, 59, 1281-1288	8.9	10
135	Individualized adjustments to reference phantom internal organ dosimetry-scaling factors given knowledge of patient external anatomy. *Physics in Medicine and Biology*, **2018**, 63, 085007	3.8	2
134	Individualized adjustments to reference phantom internal organ dosimetry-scaling factors given knowledge of patient internal anatomy. *Physics in Medicine and Biology*, **2018**, 63, 085006	3.8	3
133	A scalable and deformable stylized model of the adult human eye for radiation dose assessment. *Physics in Medicine and Biology*, **2018**, 63, 105017	3.8	9
132	Suggested reference values for regional blood volumes in children and adolescents. *Physics in Medicine and Biology*, **2018**, 63, 155022	3.8	10
131	Re-evaluation of pediatric F-FDG dosimetry: Cristy-Eckerman versus UF/NCI hybrid computational phantoms. *Physics in Medicine and Biology*, **2018**, 63, 165012	3.8	4
130	A projection image database to investigate factors affecting image quality in weight-based dosing: application to pediatric renal SPECT. *Physics in Medicine and Biology*, **2018**, 63, 145004	3.8	7
129	Organ doses in pediatric patients undergoing cardiac-centered fluoroscopically guided interventions: Comparison of three methods for computational phantom alignment. *Medical Physics*, **2018**, 45, 3926	4.4	4
128	Evaluation of the UF/NCI hybrid computational phantoms for use in organ dosimetry of pediatric patients undergoing fluoroscopically guided cardiac procedures. *Physics in Medicine and Biology*, **2018**, 63, 055006	3.8	5
127	Optimization and Dose Reduction in Medical Imaging of the Pregnant Patient **2018**, 183-200		1
126	RECORDS: improved Reporting of montE CarlO RaDiation transport Studies. *International Journal of Radiation Oncology Biology Physics*, **2018**, 101, 792-793	4	
125	RECORDS: improved Reporting of montE CarlO RaDiation transport Studies: Report of the AAPM Research Committee Task Group 268. *Medical Physics*, **2018**, 45, e1-e5	4.4	95

124	Organ Doses to Airline Passengers Screened by X-Ray Backscatter Imaging Systems. *Radiation Research*, **2017**, 187, 229-240	3.1	3
123	Inclusion of thin target and source regions in alimentary and respiratory tract systems of mesh-type ICRP adult reference phantoms. *Physics in Medicine and Biology*, **2017**, 62, 2132-2152	3.8	17
122	A hybrid phantom system for patient skin and organ dosimetry in fluoroscopically guided interventions. *Medical Physics*, **2017**, 44, 4928-4942	4.4	14
121	Implementation of tetrahedral-mesh geometry in Monte Carlo radiation transport code PHITS. *Physics in Medicine and Biology*, **2017**, 62, 4798-4810	3.8	14
120	Radiation dose to non-targeted tissues of the eye during polymer-based delivery of 90 Y to ocular melanoma of the choroid. *Biomedical Physics and Engineering Express*, **2017**, 3, 035024	1.5	
119	Body Size-Specific Organ and Effective Doses of Chest CT Screening Examinations of the National Lung Screening Trial. *American Journal of Roentgenology*, **2017**, 208, 1082-1088	5.4	12
118	Dose Estimation in Pediatric Nuclear Medicine. *Seminars in Nuclear Medicine*, **2017**, 47, 118-125	5.4	19
117	Quantitative impact of changes in marrow cellularity, skeletal size, and bone mineral density on active marrow dosimetry based upon a reference model. *Medical Physics*, **2017**, 44, 272-283	4.4	5
116	Depth-dependent concentrations of hematopoietic stem cells in the adult skeleton: Implications for active marrow dosimetry. *Medical Physics*, **2017**, 44, 747-761	4.4	3
115	A hybrid phantom Monte Carlo-based method for historical reconstruction of organ doses in patients treated with cobalt-60 for Hodgkin's lymphoma. *Physics in Medicine and Biology*, **2017**, 62, 6261-6289	3.8	3
114	Physical validation of a Monte Carlo-based, phantom-derived approach to computed tomography organ dosimetry under tube current modulation. *Medical Physics*, **2017**, 44, 5423-5432	4.4	8
113	Assessment of different patient-to-phantom matching criteria applied in Monte Carlo-based computed tomography dosimetry. *Medical Physics*, **2017**, 44, 5498-5508	4.4	13
112	Comparison of methods for individualized astronaut organ dosimetry: Morphometry-based phantom library versus body contour autoscaling of a reference phantom. *Life Sciences in Space Research*, **2017**, 15, 23-31	2.4	4
111	A comparison of pediatric and adult CT organ dose estimation methods. *BMC Medical Imaging*, **2017**, 17, 28	2.9	30
110	MIRD Pamphlet No. 26: Joint EANM/MIRD Guidelines for Quantitative 177Lu SPECT Applied for Dosimetry of Radiopharmaceutical Therapy. *Journal of Nuclear Medicine*, **2016**, 57, 151-62	8.9	157
109	New small-intestine modeling method for surface-based computational human phantoms. *Journal of Radiological Protection*, **2016**, 36, 230-45	1.2	14
108	Comparison of the effective dose rate to aircrew members using hybrid computational phantoms in standing and sitting postures. *Journal of Radiological Protection*, **2016**, 36, 885-901	1.2	2
107	A risk index for pediatric patients undergoing diagnostic imaging with (99m)Tc-dimercaptosuccinic acid that accounts for body habitus. *Physics in Medicine and Biology*, **2016**, 61, 2319-32	3.8	11

106	ICRP dose coefficients: computational development and current status. *Annals of the ICRP*, **2016**, 45, 156-77	2.4	4
105	Pharmacokinetic modeling of [(18)F]fluorodeoxyglucose (FDG) for premature infants, and newborns through 5-year-olds. *EJNMMI Research*, **2016**, 6, 28	3.6	5
104	Secondary Neutron Doses to Pediatric Patients During Intracranial Proton Therapy: Monte Carlo Simulation of the Neutron Energy Spectrum and its Organ Doses. *Health Physics*, **2016**, 110, 380-6	2.3	6
103	An image-based skeletal dosimetry model for the ICRP reference adult female-internal electron sources. *Physics in Medicine and Biology*, **2016**, 61, 8794-8824	3.8	8
102	Development of skeletal system for mesh-type ICRP reference adult phantoms. *Physics in Medicine and Biology*, **2016**, 61, 7054-7073	3.8	19
101	Fetal organ dosimetry for the Techa River and Ozyorsk offspring cohorts, part 1: a Urals-based series of fetal computational phantoms. *Radiation and Environmental Biophysics*, **2015**, 54, 37-46	2	13
100	Fetal organ dosimetry for the Techa River and Ozyorsk Offspring Cohorts, part 2: radionuclide S values for fetal self-dose and maternal cross-dose. *Radiation and Environmental Biophysics*, **2015**, 54, 47-59	2	11
99	VirtualDose: a software for reporting organ doses from CT for adult and pediatric patients. *Physics in Medicine and Biology*, **2015**, 60, 5601-25	3.8	64
98	Assessment of radiation dose in nuclear cardiovascular imaging using realistic computational models. *Medical Physics*, **2015**, 42, 2955-66	4.4	5
97	Dosimetric models of the eye and lens of the eye and their use in assessing dose coefficients for ocular exposures. *Annals of the ICRP*, **2015**, 44, 91-111	2.4	19
96	Patient-specific dosimetry using pretherapy [□□I]m-iodobenzylguanidine ([□□I]mIBG) dynamic PET/CT imaging before [□□I]mIBG targeted radionuclide therapy for neuroblastoma. *Molecular Imaging and Biology*, **2015**, 17, 284-94	3.8	54
95	Development of a defect model for renal pediatric SPECT imaging research **2015**,		2
94	Incorporation of detailed eye model into polygon-mesh versions of ICRP-110 reference phantoms. *Physics in Medicine and Biology*, **2015**, 60, 8695-707	3.8	24
93	NCICT: a computational solution to estimate organ doses for pediatric and adult patients undergoing CT scans. *Journal of Radiological Protection*, **2015**, 35, 891-909	1.2	71
92	Effective dose conversion coefficients for health care provider exposed to pediatric and adult victims in radiological dispersal device incident. *Journal of Radiological Protection*, **2015**, 35, 37-45	1.2	6
91	The UF Family of hybrid phantoms of the pregnant female for computational radiation dosimetry. *Physics in Medicine and Biology*, **2014**, 59, 4325-43	3.8	19
90	The UF/NCI family of hybrid computational phantoms representing the current US population of male and female children, adolescents, and adults--application to CT dosimetry. *Physics in Medicine and Biology*, **2014**, 59, 5225-42	3.8	74
89	Radiation dosimetry in digital breast tomosynthesis: report of AAPM Tomosynthesis Subcommittee Task Group 223. *Medical Physics*, **2014**, 41, 091501	4.4	34

88	2014 Founders Award Memorialization--James E. Turner. *Health Physics*, **2014**, 107, 475-6	2.3	
87	MIRD pamphlet No. 24: Guidelines for quantitative 131I SPECT in dosimetry applications. *Journal of Nuclear Medicine*, **2013**, 54, 2182-8	8.9	81
86	Organ S values and effective doses for family members exposed to adult patients following I-131 treatment: a Monte Carlo simulation study. *Medical Physics*, **2013**, 40, 083901	4.4	9
85	TEDE per cumulated activity for family members exposed to adult patients treated with 131I. *Radiation Protection Dosimetry*, **2013**, 153, 448-56	0.9	3
84	Influence of eye size and beam entry angle on dose to non-targeted tissues of the eye during stereotactic x-ray radiosurgery of AMD. *Physics in Medicine and Biology*, **2013**, 58, 6887-96	3.8	10
83	Pediatric radiation dosimetry for positron-emitting radionuclides using anthropomorphic phantoms. *Medical Physics*, **2013**, 40, 102502	4.4	19
82	Monte Carlo simulations of adult and pediatric computed tomography exams: validation studies of organ doses with physical phantoms. *Medical Physics*, **2013**, 40, 013901	4.4	41
81	Internal photon and electron dosimetry of the newborn patient--a hybrid computational phantom study. *Physics in Medicine and Biology*, **2012**, 57, 1433-57	3.8	19
80	Comparison of whole-body phantom designs to estimate organ equivalent neutron doses for secondary cancer risk assessment in proton therapy. *Physics in Medicine and Biology*, **2012**, 57, 499-515	3.8	7
79	A bone marrow toxicity model for □□Ra alpha-emitter radiopharmaceutical therapy. *Physics in Medicine and Biology*, **2012**, 57, 3207-22	3.8	87
78	Dosimetric impacts of microgravity: an analysis of 5th, 50th and 95th percentile male and female astronauts. *Physics in Medicine and Biology*, **2012**, 57, 1047-70	3.8	5
77	Organ doses for reference pediatric and adolescent patients undergoing computed tomography estimated by Monte Carlo simulation. *Medical Physics*, **2012**, 39, 2129-46	4.4	76
76	Guidance on the use of handheld survey meters for radiological triage: time-dependent detector count rates corresponding to 50, 250, and 500 mSV effective dose for adult males and adult females. *Health Physics*, **2012**, 102, 305-25	2.3	11
75	Hybrid computational phantoms representing the reference adult male and adult female: construction and applications for retrospective dosimetry. *Health Physics*, **2012**, 102, 292-304	2.3	27
74	Organ doses for reference adult male and female undergoing computed tomography estimated by Monte Carlo simulations. *Medical Physics*, **2011**, 38, 1196-206	4.4	65
73	An image-based skeletal dosimetry model for the ICRP reference adult male--internal electron sources. *Physics in Medicine and Biology*, **2011**, 56, 2309-46	3.8	57
72	Skin dose mapping for fluoroscopically guided interventions. *Medical Physics*, **2011**, 38, 5490-9	4.4	63
71	The UF family of hybrid phantoms of the developing human fetus for computational radiation dosimetry. *Physics in Medicine and Biology*, **2011**, 56, 4839-79	3.8	26

70	The effect of anatomical modeling on space radiation dose estimates: a comparison of doses for NASA phantoms and the 5th, 50th, and 95th percentile male and female astronauts. *Physics in Medicine and Biology*, **2011**, 56, 1671-94	3.8	15
69	The impact of anthropometric patient-phantom matching on organ dose: a hybrid phantom study for fluoroscopy guided interventions. *Medical Physics*, **2011**, 38, 1008-17	4.4	20
68	Response functions for computing absorbed dose to skeletal tissues from neutron irradiation. *Physics in Medicine and Biology*, **2011**, 56, 6873-97	3.8	10
67	Response functions for computing absorbed dose to skeletal tissues from photon irradiation--an update. *Physics in Medicine and Biology*, **2011**, 56, 2347-65	3.8	60
66	A polygon-surface reference Korean male phantom (PSRK-Man) and its direct implementation in Geant4 Monte Carlo simulation. *Physics in Medicine and Biology*, **2011**, 56, 3137-61	3.8	52
65	An approach for balancing diagnostic image quality with cancer risk: application to pediatric diagnostic imaging of 99mTc-dimercaptosuccinic acid. *Journal of Nuclear Medicine*, **2011**, 52, 1923-9	8.9	27
64	MRI measurement of bone marrow cellularity for radiation dosimetry. *Journal of Nuclear Medicine*, **2011**, 52, 1482-9	8.9	24
63	The Monte Carlo method in nuclear medicine: current uses and future potential. *Journal of Nuclear Medicine*, **2010**, 51, 337-9	8.9	11
62	An image-based skeletal dosimetry model for the ICRP reference newborn--internal electron sources. *Physics in Medicine and Biology*, **2010**, 55, 1785-814	3.8	18
61	The UF family of reference hybrid phantoms for computational radiation dosimetry. *Physics in Medicine and Biology*, **2010**, 55, 339-63	3.8	220
60	SAR calculations from 20 MHz to 6 GHz in the University of Florida newborn voxel phantom and their implications for dosimetry. *Physics in Medicine and Biology*, **2010**, 55, 1519-30	3.8	22
59	MIRD Pamphlet No. 22 (abridged): radiobiology and dosimetry of alpha-particle emitters for targeted radionuclide therapy. *Journal of Nuclear Medicine*, **2010**, 51, 311-28	8.9	264
58	Fine-resolution voxel S values for constructing absorbed dose distributions at variable voxel size. *Journal of Nuclear Medicine*, **2010**, 51, 1600-7	8.9	46
57	Hybrid computational phantoms for medical dose reconstruction. *Radiation and Environmental Biophysics*, **2010**, 49, 155-68	2	50
56	Hybrid computational phantoms for medical dose reconstruction: Response to Kramer and Cassola. *Radiation and Environmental Biophysics*, **2010**, 49, 501-502	2	
55	Kilovoltage stereotactic radiosurgery for age-related macular degeneration: assessment of optic nerve dose and patient effective dose. *Medical Physics*, **2009**, 36, 3671-81	4.4	30
54	The influence of patient size on dose conversion coefficients: a hybrid phantom study for adult cardiac catheterization. *Physics in Medicine and Biology*, **2009**, 54, 3613-29	3.8	35
53	Absorbed fractions for alpha-particles in tissues of cortical bone. *Physics in Medicine and Biology*, **2009**, 54, 6009-27	3.8	1

52	An image-based skeletal tissue model for the ICRP reference newborn. *Physics in Medicine and Biology*, **2009**, 54, 4497-531	3.8	22
51	. *Proceedings of the IEEE*, **2009**, 97, 2098-2108	14.3	6
50	. *Proceedings of the IEEE*, **2009**, 97, 2060-2075	14.3	32
49	MIRD pamphlet No. 21: a generalized schema for radiopharmaceutical dosimetry--standardization of nomenclature. *Journal of Nuclear Medicine*, **2009**, 50, 477-84	8.9	452
48	Spatial gradients of blood vessels and hematopoietic stem and progenitor cells within the marrow cavities of the human skeleton. *Blood*, **2009**, 114, 4077-80	2.2	31
47	Monte carlo simulations of site-specific radical attack to DNA bases. *Radiation Research*, **2008**, 169, 223-31	3.1	39
46	Canine anatomic phantom for preclinical dosimetry in internal emitter therapy. *Journal of Nuclear Medicine*, **2008**, 49, 446-52	8.9	21
45	Assessment of organ-specific neutron equivalent doses in proton therapy using computational whole-body age-dependent voxel phantoms. *Physics in Medicine and Biology*, **2008**, 53, 693-717	3.8	81
44	Hybrid computational phantoms of the 15-year male and female adolescent: applications to CT organ dosimetry for patients of variable morphometry. *Medical Physics*, **2008**, 35, 2366-82	4.4	59
43	Further explorations of cellular uptake of radioactivity. *Journal of Nuclear Medicine*, **2008**, 49, 869-70	8.9	2
42	Anthropometric approaches and their uncertainties to assigning computational phantoms to individual patients in pediatric dosimetry studies. *Physics in Medicine and Biology*, **2008**, 53, 453-71	3.8	17
41	Dosimetry characterization of a multibeam radiotherapy treatment for age-related macular degeneration. *Medical Physics*, **2008**, 35, 5151-60	4.4	25
40	Hybrid computational phantoms of the male and female newborn patient: NURBS-based whole-body models. *Physics in Medicine and Biology*, **2007**, 52, 3309-33	3.8	141
39	Organ and effective doses in newborns and infants undergoing voiding cystourethrograms (VCUG): a comparison of stylized and tomographic phantoms. *Medical Physics*, **2007**, 34, 294-306	4.4	9
38	Derivation of site-specific skeletal masses within the current ICRP age series. *Physics in Medicine and Biology*, **2007**, 52, 3133-50	3.8	5
37	Consideration of the ICRP 2006 revised tissue weighting factors on age-dependent values of the effective dose for external photons. *Physics in Medicine and Biology*, **2007**, 52, 41-58	3.8	12
36	Organ and effective doses in pediatric patients undergoing helical multislice computed tomography examination. *Medical Physics*, **2007**, 34, 1858-73	4.4	58
35	Organ and effective doses in infants undergoing upper gastrointestinal (UGI) fluoroscopic examination. *Medical Physics*, **2007**, 34, 703-10	4.4	10

34	Skeletal absorbed fractions for electrons in the adult male: considerations of a revised 50-microm definition of the bone endosteum. *Radiation Protection Dosimetry*, **2007**, 127, 169-73	0.9	17
33	TENORM aerosols in the Florida phosphate industry--assessment of lung fluid solubility and annual effective dose to workers. *Radiation Protection Dosimetry*, **2007**, 123, 41-55	0.9	6
32	Whole-body-averaged SAR from 50 MHz to 4 GHz in the University of Florida child voxel phantoms. *Physics in Medicine and Biology*, **2007**, 52, 6639-49	3.8	58
31	Spatial distribution of blood vessels and CD34+ hematopoietic stem and progenitor cells within the marrow cavities of human cancellous bone. *Journal of Nuclear Medicine*, **2007**, 48, 645-54	8.9	30
30	NURBS-based 3-D anthropomorphic computational phantoms for radiation dosimetry applications. *Radiation Protection Dosimetry*, **2007**, 127, 227-32	0.9	30
29	Organ and effective doses in newborn patients during helical multislice computed tomography examination. *Physics in Medicine and Biology*, **2006**, 51, 5151-66	3.8	28
28	Age-dependent organ and effective dose coefficients for external photons: a comparison of stylized and voxel-based paediatric phantoms. *Physics in Medicine and Biology*, **2006**, 51, 4663-88	3.8	29
27	Characterization of Radioactive Aerosols in Florida Phosphate Processing Facilities. *Aerosol Science and Technology*, **2006**, 40, 410-421	3.4	10
26	Whole-body voxel phantoms of paediatric patients--UF Series B. *Physics in Medicine and Biology*, **2006**, 51, 4649-61	3.8	64
25	A tomographic physical phantom of the newborn child with real-time dosimetry. II. Scaling factors for calculation of mean organ dose in pediatric radiography. *Medical Physics*, **2006**, 33, 3283-9	4.4	20
24	An assessment of bone marrow and bone endosteum dosimetry methods for photon sources. *Physics in Medicine and Biology*, **2006**, 51, 5391-407	3.8	46
23	RESPONSE TO P. J. DARLEY. *Health Physics*, **2006**, 90, 177-179	2.3	1
22	Revisions to the ORNL series of adult and pediatric computational phantoms for use with the MIRD schema. *Health Physics*, **2006**, 90, 337-56	2.3	80
21	Correlations of total pelvic spongiosa volume with both anthropometric parameters and computed tomography-based skeletal size measurements. *Cancer Biotherapy and Radiopharmaceuticals*, **2006**, 21, 352-63	3.9	6
20	Chord-based versus voxel-based methods of electron transport in the skeletal tissues. *Medical Physics*, **2005**, 32, 3151-9	4.4	9
19	Uncertainties in electron-absorbed fractions and lung doses from inhaled beta-emitters. *Health Physics*, **2005**, 88, 37-47	2.3	4
18	Accounting for beta-particle energy loss to cortical bone via paired-image radiation transport (PIRT). *Medical Physics*, **2005**, 32, 1354-66	4.4	12
17	The UF series of tomographic computational phantoms of pediatric patients. *Medical Physics*, **2005**, 32, 3537-48	4.4	77

16	A paired-image radiation transport model for skeletal dosimetry. *Journal of Nuclear Medicine*, **2005**, 46, 344-53	8.9	37
15	Absorbed fractions for alpha-particles in tissues of trabecular bone: considerations of marrow cellularity within the ICRP reference male. *Journal of Nuclear Medicine*, **2005**, 46, 1171-85	8.9	11
14	A revised stylized model of the adult extrathoracic and thoracic airways for use with the ICRP-66 human respiratory tract model. *Health Physics*, **2004**, 86, 337-52	2.3	4
13	Bone marrow dosimetry using blood-based models for radiolabeled antibody therapy: a multiinstitutional comparison. *Journal of Nuclear Medicine*, **2004**, 45, 1725-33	8.9	44
12	Influences of parameter uncertainties within the ICRP-66 respiratory tract model: regional tissue doses for 239PuO2 and 238UO2/238U3O8. *Health Physics*, **2003**, 84, 436-50	2.3	13
11	Influences of parameter uncertainties within the ICRP-66 respiratory tract model: a parameter sensitivity analysis. *Health Physics*, **2003**, 85, 553-66	2.3	9
10	Influences of parameter uncertainties within the ICRP-66 respiratory tract model: particle clearance. *Health Physics*, **2003**, 84, 421-35	2.3	26
9	Voxeldoes: a computer program for 3-D dose calculation in therapeutic nuclear medicine. *Cancer Biotherapy and Radiopharmaceuticals*, **2003**, 18, 109-15	3.9	30
8	A video analysis technique for organ dose assessment in pediatric fluoroscopy: applications to voiding cystourethrograms (VCUG). *Medical Physics*, **2003**, 30, 667-80	4.4	10
7	Adipocyte spatial distributions in bone marrow: implications for skeletal dosimetry models. *Journal of Nuclear Medicine*, **2003**, 44, 774-83	8.9	11
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