Wesley Bolch

List of Publications by Citations

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	MIRD pamphlet No. 21: a generalized schema for radiopharmaceutical dosimetry--standardization of nomenclature. *Journal of Nuclear Medicine*, **2009**, 50, 477-84	8.9	452
176	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
175	The UF family of reference hybrid phantoms for computational radiation dosimetry. *Physics in Medicine and Biology*, **2010**, 55, 339-63	3.8	220
174	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
173	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
172	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
171	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
170	A bone marrow toxicity model for □□Ra alpha-emitter radiopharmaceutical therapy. *Physics in Medicine and Biology*, **2012**, 57, 3207-22	3.8	87
169	MIRD pamphlet No. 24: Guidelines for quantitative 131I SPECT in dosimetry applications. *Journal of Nuclear Medicine*, **2013**, 54, 2182-8	8.9	81
168	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
167	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
166	MIRD Pamphlet No 19: absorbed fractions and radionuclide S values for six age-dependent multiregion models of the kidney. *Journal of Nuclear Medicine*, **2003**, 44, 1113-47	8.9	78
165	The UF series of tomographic computational phantoms of pediatric patients. *Medical Physics*, **2005**, 32, 3537-48	4.4	77
164	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
163	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
162	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
161	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

160	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
159	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
158	Whole-body voxel phantoms of paediatric patients--UF Series B. *Physics in Medicine and Biology*, **2006**, 51, 4649-61	3.8	64
157	Skin dose mapping for fluoroscopically guided interventions. *Medical Physics*, **2011**, 38, 5490-9	4.4	63
156	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
155	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
154	Organ and effective doses in pediatric patients undergoing helical multislice computed tomography examination. *Medical Physics*, **2007**, 34, 1858-73	4.4	58
153	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
152	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
151	Patient-specific dosimetry using pretherapy [□□]m-iodobenzylguanidine ([□□]mIBG) dynamic PET/CT imaging before [□□]mIBG targeted radionuclide therapy for neuroblastoma. *Molecular Imaging and Biology*, **2015**, 17, 284-94	3.8	54
150	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
149	Hybrid computational phantoms for medical dose reconstruction. *Radiation and Environmental Biophysics*, **2010**, 49, 155-68	2	50
148	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
147	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
146	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
145	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
144	Site-specific OH attack to the sugar moiety of DNA: a comparison of experimental data and computational simulation. *Radiation Research*, **2002**, 157, 38-44	3.1	41
143	Monte carlo simulations of site-specific radical attack to DNA bases. *Radiation Research*, **2008**, 169, 223-31	3.1	39

142	A paired-image radiation transport model for skeletal dosimetry. *Journal of Nuclear Medicine*, **2005**, 46, 344-53	8.9	37
141	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
140	Radiation dosimetry in digital breast tomosynthesis: report of AAPM Tomosynthesis Subcommittee Task Group 223. *Medical Physics*, **2014**, 41, 091501	4.4	34
139	. *Proceedings of the IEEE*, **2009**, 97, 2060-2075	14.3	32
138	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
137	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
136	A comparison of pediatric and adult CT organ dose estimation methods. *BMC Medical Imaging*, **2017** , 17, 28	2.9	30
135	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
134	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
133	NURBS-based 3-D anthropomorphic computational phantoms for radiation dosimetry applications. *Radiation Protection Dosimetry*, **2007**, 127, 227-32	0.9	30
132	Voxeldoes: a computer program for 3-D dose calculation in therapeutic nuclear medicine. *Cancer Biotherapy and Radiopharmaceuticals*, **2003**, 18, 109-15	3.9	30
131	Influences of parameter uncertainties within the ICRP 66 respiratory tract model: particle deposition. *Health Physics*, **2001**, 81, 378-94	2.3	30
130	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
129	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
128	New mesh-type phantoms and their dosimetric applications, including emergencies. *Annals of the ICRP*, **2018**, 47, 45-62	2.4	27
127	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
126	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
125	Considerations of marrow cellularity in 3-dimensional dosimetric models of the trabecular skeleton. *Journal of Nuclear Medicine*, **2002**, 43, 97-108	8.9	27

124	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
123	Influences of parameter uncertainties within the ICRP-66 respiratory tract model: particle clearance. *Health Physics*, **2003**, 84, 421-35	2.3	26
122	Dosimetry characterization of a multibeam radiotherapy treatment for age-related macular degeneration. *Medical Physics*, **2008**, 35, 5151-60	4.4	25
121	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
120	MRI measurement of bone marrow cellularity for radiation dosimetry. *Journal of Nuclear Medicine*, **2011**, 52, 1482-9	8.9	24
119	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
118	An image-based skeletal tissue model for the ICRP reference newborn. *Physics in Medicine and Biology*, **2009**, 54, 4497-531	3.8	22
117	Canine anatomic phantom for preclinical dosimetry in internal emitter therapy. *Journal of Nuclear Medicine*, **2008**, 49, 446-52	8.9	21
116	Comparison of angular free-in-air and tissue-equivalent phantom response measurements in p-MOSFET dosimeters. *Health Physics*, **2001**, 80, 497-505	2.3	21
115	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
114	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
113	Dose Estimation in Pediatric Nuclear Medicine. *Seminars in Nuclear Medicine*, **2017**, 47, 118-125	5.4	19
112	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
111	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
110	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
109	Pediatric radiation dosimetry for positron-emitting radionuclides using anthropomorphic phantoms. *Medical Physics*, **2013**, 40, 102502	4.4	19
108	Development of skeletal system for mesh-type ICRP reference adult phantoms. *Physics in Medicine and Biology*, **2016**, 61, 7054-7073	3.8	19
107	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

106	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
105	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
104	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
103	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
102	A hybrid phantom system for patient skin and organ dosimetry in fluoroscopically guided interventions. *Medical Physics*, **2017**, 44, 4928-4942	4.4	14
101	Implementation of tetrahedral-mesh geometry in Monte Carlo radiation transport code PHITS. *Physics in Medicine and Biology*, **2017**, 62, 4798-4810	3.8	14
100	New small-intestine modeling method for surface-based computational human phantoms. *Journal of Radiological Protection*, **2016**, 36, 230-45	1.2	14
99	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
98	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
97	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
96	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
95	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
94	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
93	Accounting for beta-particle energy loss to cortical bone via paired-image radiation transport (PIRT). *Medical Physics*, **2005**, 32, 1354-66	4.4	12
92	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
91	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
90	The Monte Carlo method in nuclear medicine: current uses and future potential. *Journal of Nuclear Medicine*, **2010**, 51, 337-9	8.9	11
89	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

88	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
87	Adipocyte spatial distributions in bone marrow: implications for skeletal dosimetry models. *Journal of Nuclear Medicine*, **2003**, 44, 774-83	8.9	11
86	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
85	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
84	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
83	Suggested reference values for regional blood volumes in children and adolescents. *Physics in Medicine and Biology*, **2018**, 63, 155022	3.8	10
82	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
81	Response functions for computing absorbed dose to skeletal tissues from neutron irradiation. *Physics in Medicine and Biology*, **2011**, 56, 6873-97	3.8	10
80	Characterization of Radioactive Aerosols in Florida Phosphate Processing Facilities. *Aerosol Science and Technology*, **2006**, 40, 410-421	3.4	10
79	Organ and effective doses in infants undergoing upper gastrointestinal (UGI) fluoroscopic examination. *Medical Physics*, **2007**, 34, 703-10	4.4	10
78	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
77	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
76	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
75	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
74	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
73	Chord-based versus voxel-based methods of electron transport in the skeletal tissues. *Medical Physics*, **2005**, 32, 3151-9	4.4	9
72	Influences of parameter uncertainties within the ICRP-66 respiratory tract model: a parameter sensitivity analysis. *Health Physics*, **2003**, 85, 553-66	2.3	9
71	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

70	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
69	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
68	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
67	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
66	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
65	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
64	. *Proceedings of the IEEE*, **2009**, 97, 2098-2108	14.3	6
63	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
62	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
61	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
60	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
59	ICRU REPORT 96, Dosimetry-Guided Radiopharmaceutical Therapy. *Journal of the ICRU*, **2021**, 21, 1-212	1.7	6
58	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
57	Assessment of radiation dose in nuclear cardiovascular imaging using realistic computational models. *Medical Physics*, **2015**, 42, 2955-66	4.4	5
56	Pharmacokinetic modeling of [(18)F]fluorodeoxyglucose (FDG) for premature infants, and newborns through 5-year-olds. *EJNMMI Research*, **2016**, 6, 28	3.6	5
55	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
54	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
53	Derivation of site-specific skeletal masses within the current ICRP age series. *Physics in Medicine and Biology*, **2007**, 52, 3133-50	3.8	5

52	Mathematical models of the human anatomy. *Series in Medical Physics and Biomedical Engineering*, **2002**, 108-132		5
51	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
50	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
49	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
48	ICRP dose coefficients: computational development and current status. *Annals of the ICRP*, **2016**, 45, 156-77	2.4	4
47	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
46	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
45	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
44	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
43	Uncertainties in electron-absorbed fractions and lung doses from inhaled beta-emitters. *Health Physics*, **2005**, 88, 37-47	2.3	4
42	Organ Doses to Airline Passengers Screened by X-Ray Backscatter Imaging Systems. *Radiation Research*, **2017**, 187, 229-240	3.1	3
41	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
40	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
39	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
38	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
37	TEDE per cumulated activity for family members exposed to adult patients treated with 131I. *Radiation Protection Dosimetry*, **2013**, 153, 448-56	0.9	3
36	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
35	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

34	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
33	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
32	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
31	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
30	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
29	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
28	Development of a defect model for renal pediatric SPECT imaging research **2015**,		2
27	Further explorations of cellular uptake of radioactivity. *Journal of Nuclear Medicine*, **2008**, 49, 869-70	8.9	2
26	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
25	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
24	Patient Size-Dependent Dosimetry Methodology Applied to F-FDG Using New ICRP Mesh Phantoms. *Journal of Nuclear Medicine*, **2021**,	8.9	2
23	Development of skeletal systems for ICRP pediatric mesh-type reference computational phantoms. *Journal of Radiological Protection*, **2021**,	1.2	2
22	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
21	Absorbed fractions for alpha-particles in tissues of cortical bone. *Physics in Medicine and Biology*, **2009**, 54, 6009-27	3.8	1
20	RESPONSE TO P. J. DARLEY. *Health Physics*, **2006**, 90, 177-179	2.3	1
19	Optimization and Dose Reduction in Medical Imaging of the Pregnant Patient **2018**, 183-200		1
18	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
17	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

16	Renal Tc-DMSA pharmacokinetics in pediatric patients. *EJNMMI Physics*, **2021**, 8, 53	4.4	1
15	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
14	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
13	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
12	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
11	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
10	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
9	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	
8	2014 Founders Award Memorialization--James E. Turner. *Health Physics*, **2014**, 107, 475-6	2.3	
7	Hybrid computational phantoms for medical dose reconstruction: Response to Kramer and Cassola. *Radiation and Environmental Biophysics*, **2010**, 49, 501-502	2	
6	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	
5	A Robust Algorithm for Voxel-to-Polygon Mesh Phantom Conversion **2019**, 317-327		
4	Dose and Risk Characterization in CT **2020**, 63-83		
3	Long-term medical imaging use in children with central nervous system tumors. *PLoS ONE*, **2021**, 16, e0248643	3.7	
2	RECORDS: improved Reporting of montE CarlO RaDiation transport Studies. *International Journal of Radiation Oncology Biology Physics*, **2018**, 101, 792-793	4	
1	A mesh-based model of liver vasculature: implications for improved radiation dosimetry to liver parenchyma for radiopharmaceuticals.. *EJNMMI Physics*, **2022**, 9, 28	4.4	