Kristina S Bliznakova

List of Publications by Year in Descending Order

59 papers	461 citations	12 h-index	19 g-index
74 ext. papers	624 ext. citations	2.6 avg, IF	3.79 L-index

#	Paper	IF	Citations
59	Suitability of 3D printing materials for printing anthropomorphic phantoms: A simulation study. *Journal of Physics: Conference Series*, **2022**, 2162, 012012	0.3	
58	Thermoplastic 3D printing technology using a single filament for producing realistic patient-derived breast models.. *Physics in Medicine and Biology*, **2022**,	3.8	1
57	An Approach for Development of a Physical Breast Phantom for X-ray Imaging Using an Inkjet Printer: Preliminary Results. *Lecture Notes in Networks and Systems*, **2022**, 384-389	0.5	
56	Comparisons of glandular breast dose between digital mammography, tomosynthesis and breast CT based on anthropomorphic patient-derived breast phantoms.. *Physica Medica*, **2022**, 97, 50-58	2.7	0
55	Fabrication of 3D printed patient-derived anthropomorphic breast phantoms for mammography and digital breast tomosynthesis: Imaging assessment with clinical X-ray spectra.. *Physica Medica*, **2022**, 98, 88-97	2.7	1
54	Experimental Evaluation of Physical Breast Phantoms for 2D and 3D Breast X-Ray Imaging Techniques. *IFMBE Proceedings*, **2021**, 544-552	0.2	2
53	Dataset of patient-derived digital breast phantoms for in silico studies in breast computed tomography, digital breast tomosynthesis, and digital mammography. *Medical Physics*, **2021**, 48, 2682-2693	4.4	9
52	Radiomics software for breast imaging optimization and simulation studies. *Physica Medica*, **2021**, 89, 114-128	2.7	1
51	The advent of anthropomorphic three-dimensional breast phantoms for X-ray imaging. *Physica Medica*, **2020**, 79, 145-161	2.7	9
50	In-line Phase Contrast Mammography, Phase Contrast Digital Breast Tomosynthesis and Phase Contrast Breast Computed Tomography with a Dedicated CT Scanner and a Microfocus X-ray tube: Experimental Phantom Study. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2020**, 1-1	4.2	2
49	Design and Implementation of a Web-Based Platform to Support Research in X-Ray Breast Imaging. *IFMBE Proceedings*, **2020**, 883-890	0.2	
48	Physical Breast Phantom Dedicated for Mammography Studies. *IFMBE Proceedings*, **2020**, 344-352	0.2	3
47	Anthropomorphic Physical Breast Phantom Based on Patient Breast CT Data: Preliminary Results. *IFMBE Proceedings*, **2020**, 367-374	0.2	4
46	Models of breast lesions based on three-dimensional X-ray breast images. *Physica Medica*, **2019**, 57, 80-87	2.7	12
45	Development of breast lesions models database. *Physica Medica*, **2019**, 64, 293-303	2.7	12
44	Creation of Computational Breast Phantoms with Extracted Abnormalities from Real Patient Images. *IFMBE Proceedings*, **2019**, 213-217	0.2	
43	The Napoli-Varna-Davis project for virtual clinical trials in X-ray breast imaging **2019**,		3

42	Suitability of low density materials for 3D printing of physical breast phantoms. *Physics in Medicine and Biology*, **2018**, 63, 175020	3.8	29
41	Monte Carlo evaluation of glandular dose in cone-beam X-ray computed tomography dedicated to the breast: Homogeneous and heterogeneous breast models. *Physica Medica*, **2018**, 51, 99-107	2.7	15
40	Analysis of Suitability of Five Statistical Methods Applied for the Validation of a Monte Carlo X-Ray Based Software Packages. *Advances in Intelligent Systems and Computing*, **2018**, 448-456	0.4	
39	[OA216] Development of breast tumours models database. *Physica Medica*, **2018**, 52, 82	2.7	1
38	Translation from murine to human lung imaging using x-ray dark field radiography: A simulation study. *PLoS ONE*, **2018**, 13, e0206302	3.7	3
37	Evaluation of a breast software model for 2D and 3D X-ray imaging studies of the breast. *Physica Medica*, **2017**, 41, 78-86	2.7	12
36	A Monte Carlo model for mean glandular dose evaluation in spot compression mammography. *Medical Physics*, **2017**, 44, 3848-3860	4.4	19
35	Evaluation of the BreastSimulator software platform for breast tomography. *Physics in Medicine and Biology*, **2017**, 62, 6446-6466	3.8	14
34	Abstract ID: 66 Monte Carlo and analytical validation of a software breast phantom for X-ray mammography imaging. *Physica Medica*, **2017**, 42, 13	2.7	1
33	Breast tomosynthesis using the multiple projection algorithm adapted for stationary detectors. *Journal of X-Ray Science and Technology*, **2016**, 24, 23-41	2.1	3
32	In-line phase contrast tomography of the breast with a dedicated micro-CT scanner **2016**,		2
31	Evaluation of the effect of silicone breast inserts on X-ray mammography and breast tomosynthesis images: A Monte Carlo simulation study. *Physica Medica*, **2016**, 32, 353-61	2.7	7
30	Evaluation of the BreastSimulator Software Platform for Breast Tomography: Preliminary Results. *Lecture Notes in Computer Science*, **2016**, 145-151	0.9	3
29	Contrast Detail Phantoms for X-ray Phase-Contrast Mammography and Tomography. *Lecture Notes in Computer Science*, **2016**, 611-617	0.9	4
28	Computer-Based Platform for Phase Contrast Tomosynthesis: Targeting an Application for Breast Imaging. *IFMBE Proceedings*, **2016**, 367-371	0.2	
27	In-line phase-contrast breast tomosynthesis: a phantom feasibility study at a synchrotron radiation facility. *Physics in Medicine and Biology*, **2016**, 61, 6243-63	3.8	15
26	A software platform for phase contrast x-ray breast imaging research. *Computers in Biology and Medicine*, **2015**, 61, 62-74	7	15
25	Modeling of small carbon fiber-reinforced polymers for X-ray imaging simulation. *Journal of Composite Materials*, **2015**, 49, 2541-2553	2.7	

24	Towards the estimation of the scattered energy spectra reaching the head of the medical staff during interventional radiology: A Monte Carlo simulation study. *Journal of Physics: Conference Series*, **2015**, 637, 012036	0.3	2
23	EUTEMPE-RX, an EC supported FP7 project for the training and education of medical physics experts in radiology. *Radiation Protection Dosimetry*, **2015**, 165, 518-22	0.9	5
22	Computer aided preoperative evaluation of the residual liver volume using computed tomography images. *Journal of Digital Imaging*, **2015**, 28, 231-9	5.3	4
21	Modelling of small CFRP aerostructure parts for X-ray imaging simulation. *International Journal of Structural Integrity*, **2014**, 5, 227-240	1	1
20	Breast tomosynthesis with monochromatic beams: a feasibility study using Monte Carlo simulations. *Physics in Medicine and Biology*, **2014**, 59, 4681-96	3.8	7
19	Study of suitability of new materials for use with physical breast phantoms **2013**,		2
18	Power spectrum analysis of the x-ray scatter signal in mammography and breast tomosynthesis projections. *Medical Physics*, **2013**, 40, 101905	4.4	8
17	WE-G-103-05: Spatial Frequency Characterization of the X-Ray Scatter Signal in Breast Imaging. *Medical Physics*, **2013**, 40, 510-510	4.4	
16	Monte Carlo performance on the x-ray converter thickness in digital mammography using software breast models. *Medical Physics*, **2012**, 39, 6638-51	4.4	8
15	Image quality evaluation of breast tomosynthesis with synchrotron radiation. *Medical Physics*, **2012**, 39, 5621-34	4.4	12
14	Evaluation of a novel wafer-scale CMOS APS X-ray detector for use in mammography **2012**,		1
13	BreastSimulator: A software platform for breast x-ray imaging research. *Journal of Biomedical Graphics and Computing*, **2012**, 2,		10
12	Markov Chain Monte Carlo simulation for projection of end stage renal disease patients in Greece. *Computer Methods and Programs in Biomedicine*, **2012**, 107, 90-6	6.9	8
11	Comparison of algorithms for out-of-plane artifacts removal in digital tomosynthesis reconstructions. *Computer Methods and Programs in Biomedicine*, **2012**, 107, 75-83	6.9	2
10	Characterization of the homogeneous tissue mixture approximation in breast imaging dosimetry. *Medical Physics*, **2012**, 39, 5050-9	4.4	54
9	Evaluation of an improved algorithm for producing realistic 3D breast software phantoms: application for mammography. *Medical Physics*, **2010**, 37, 5604-17	4.4	44
8	Evaluation of digital breast tomosynthesis reconstruction algorithms using synchrotron radiation in standard geometry. *Medical Physics*, **2010**, 37, 1893-903	4.4	15
7	Experimental validation of a radiographic simulation code using breast phantom for X-ray imaging. *Computers in Biology and Medicine*, **2010**, 40, 208-14	7	26

List of Publications

6	Performance Assessment of Breast Tomosynthesis Systems: Concepts for Two Types of Phantoms. *Lecture Notes in Computer Science*, **2010**, 227-234	0.9	
5	An Optimised 3D Breast Phantom for X-Ray Breast Imaging Techniques. *IFMBE Proceedings*, **2009**, 2455-2458	0.25	2
4	A novel simulation algorithm for soft tissue compression. *Medical and Biological Engineering and Computing*, **2007**, 45, 661-9	3.1	44
3	Studies on the attenuating properties of various materials used for protection in radiotherapy and their effect of on the dose distribution in rotational therapy **2007**, 923-927		1
2	Dual-energy mammography simulation: Optimisation studies **2007**, 1617-1621		
1	Monte Carlo Radiotherapy Simulator: Applications and Feasibility Studies **2007**, 928-931		