

# Kristina S Bliznakova

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

728  
citations

516710

16  
h-index

580821

25  
g-index

74  
all docs

74  
docs citations

74  
times ranked

372  
citing authors

#	ARTICLE	IF	CITATIONS
1	Suitability of 3D printing materials for printing anthropomorphic phantoms: A simulation study. <i>Journal of Physics: Conference Series</i> , 2022, 2162, 012012.	0.4	0
2	Thermoplastic 3D printing technology using a single filament for producing realistic patient-derived breast models. <i>Physics in Medicine and Biology</i> , 2022, 67, 045008.	3.0	10
3	An Approach for Development of a Physical Breast Phantom for X-ray Imaging Using an Inkjet Printer: Preliminary Results. <i>Lecture Notes in Networks and Systems</i> , 2022, , 384-389.	0.7	0
4	Comparisons of glandular breast dose between digital mammography, tomosynthesis and breast CT based on anthropomorphic patient-derived breast phantoms. <i>Physica Medica</i> , 2022, 97, 50-58.	0.7	8
5	Fabrication of 3D printed patient-derived anthropomorphic breast phantoms for mammography and digital breast tomosynthesis: Imaging assessment with clinical X-ray spectra. <i>Physica Medica</i> , 2022, 98, 88-97.	0.7	9
6	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. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 793-806.	3.7	6
7	Dataset of patient-derived digital breast phantoms for <i>in silico</i> studies in breast computed tomography, digital breast tomosynthesis, and digital mammography. <i>Medical Physics</i> , 2021, 48, 2682-2693.	3.0	26
8	Radiomics software for breast imaging optimization and simulation studies. <i>Physica Medica</i> , 2021, 89, 114-128.	0.7	5
9	Experimental Evaluation of Physical Breast Phantoms for 2D and 3D Breast X-Ray Imaging Techniques. <i>IFMBE Proceedings</i> , 2021, , 544-552.	0.3	8
10	Development and Functioning of a Regional Diabetic Retinopathy Register in the City of Varna, Bulgaria – First Results. , 2021, , .		0
11	An Approach in Optimising the 3D Printing Materials Used in Manufacturing of 3D Breast Phantoms: the Case of PLA. , 2021, , .		0
12	Contrast Agent Dual Energy Imaging: Computer Simulations In Search For Printing Materials. , 2021, , .		1
13	The advent of anthropomorphic three-dimensional breast phantoms for X-ray imaging. <i>Physica Medica</i> , 2020, 79, 145-161.	0.7	33
14	Physical Breast Phantom Dedicated for Mammography Studies. <i>IFMBE Proceedings</i> , 2020, , 344-352.	0.3	9
15	Anthropomorphic Physical Breast Phantom Based on Patient Breast CT Data: Preliminary Results. <i>IFMBE Proceedings</i> , 2020, , 367-374.	0.3	11
16	Design and Implementation of a Web-Based Platform to Support Research in X-Ray Breast Imaging. <i>IFMBE Proceedings</i> , 2020, , 883-890.	0.3	0
17	Integrated Software System for Registering of Patients with Stroke in Varna Region: Design and Initial Implementation. , 2020, , .		0
18	Physical Anthropomorphic Breast Phantoms for X-ray Imaging Techniques: Manufacturing Approach. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
19	Application of 3D Printed Anthropomorphic Phantoms for Research and Educational Purposes in Digital Radiology. , 2020, , .		4
20	Development of breast lesions models database. Physica Medica, 2019, 64, 293-303.	0.7	24
21	Models of breast lesions based on three-dimensional X-ray breast images. Physica Medica, 2019, 57, 80-87.	0.7	21
22	The Napoli-Varna-Davis project for virtual clinical trials in X-ray breast imaging. , 2019, , .		8
23	[OA216] Development of breast tumours models database. Physica Medica, 2018, 52, 82.	0.7	1
24	Translation from murine to human lung imaging using x-ray dark field radiography: A simulation study. PLoS ONE, 2018, 13, e0206302.	2.5	6
25	Suitability of low density materials for 3D printing of physical breast phantoms. Physics in Medicine and Biology, 2018, 63, 175020.	3.0	57
26	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.	0.7	21
27	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.	0.6	0
28	Evaluation of a breast software model for 2D and 3D X-ray imaging studies of the breast. Physica Medica, 2017, 41, 78-86.	0.7	19
29	A Monte Carlo model for mean glandular dose evaluation in spot compression mammography. Medical Physics, 2017, 44, 3848-3860.	3.0	24
30	Evaluation of the BreastSimulator software platform for breast tomography. Physics in Medicine and Biology, 2017, 62, 6446-6466.	3.0	20
31	Abstract ID: 66 Monte Carlo and analytical validation of a software breast phantom for X-ray mammography imaging. Physica Medica, 2017, 42, 13.	0.7	1
32	Computer-Based Platform for Phase Contrast Tomosynthesis: Targeting an Application for Breast Imaging. IFMBE Proceedings, 2016, , 367-371.	0.3	0
33	In-line phase-contrast breast tomosynthesis: a phantom feasibility study at a synchrotron radiation facility. Physics in Medicine and Biology, 2016, 61, 6243-6263.	3.0	19
34	Breast tomosynthesis using the multiple projection algorithm adapted for stationary detectors. Journal of X-Ray Science and Technology, 2016, 24, 23-41.	1.0	4
35	In-line phase contrast tomography of the breast with a dedicated micro-CT scanner. , 2016, , .		2
36	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, 353-361.	0.7	10

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37	Evaluation of the BreastSimulator Software Platform for Breast Tomography: Preliminary Results. Lecture Notes in Computer Science, 2016, , 145-151.	1.3	4
38	Contrast Detail Phantoms for X-ray Phase-Contrast Mammography and Tomography. Lecture Notes in Computer Science, 2016, , 611-617.	1.3	5
39	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.	0.4	2
40	EUTEMPE-RX, an EC supported FP7 project for the training and education of medical physics experts in radiology: Table A1.. Radiation Protection Dosimetry, 2015, 165, 518-522.	0.8	5
41	Computer Aided Preoperative Evaluation of the Residual Liver Volume Using Computed Tomography Images. Journal of Digital Imaging, 2015, 28, 231-239.	2.9	7
42	A software platform for phase contrast x-ray breast imaging research. Computers in Biology and Medicine, 2015, 61, 62-74.	7.0	19
43	Modeling of small carbon fiber-reinforced polymers for X-ray imaging simulation. Journal of Composite Materials, 2015, 49, 2541-2553.	2.4	0
44	New Line Contrast Figure of Merit for image quality assessment. IFMBE Proceedings, 2015, , 26-28.	0.3	1
45	How Can Biomedical Engineers Benefit from the New Expert Level Course of the EUTEMPE-RX Project. IFMBE Proceedings, 2015, , 765-768.	0.3	0
46	Modelling of small CFRP aerostructure parts for X-ray imaging simulation. International Journal of Structural Integrity, 2014, 5, 227-240.	3.3	3
47	Breast tomosynthesis with monochromatic beams: a feasibility study using Monte Carlo simulations. Physics in Medicine and Biology, 2014, 59, 4681-4696.	3.0	9
48	Study of suitability of new materials for use with physical breast phantoms. , 2013, , .		3
49	Simulation studies in medical x-ray tomographic imaging. , 2013, , .		1
50	Power spectrum analysis of the x-ray scatter signal in mammography and breast tomosynthesis projections. Medical Physics, 2013, 40, 101905.	3.0	13
51	WE-G-103-05: Spatial Frequency Characterization of the X-Ray Scatter Signal in Breast Imaging. Medical Physics, 2013, 40, 510-510.	3.0	0
52	Monte Carlo performance on the x-ray converter thickness in digital mammography using software breast models. Medical Physics, 2012, 39, 6638-6651.	3.0	9
53	Image quality evaluation of breast tomosynthesis with synchrotron radiation. Medical Physics, 2012, 39, 5621-5634.	3.0	15
54	Evaluation of a novel wafer-scale CMOS APS X-ray detector for use in mammography. , 2012, , .		1

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55	BreastSimulator: A software platform for breast x-ray imaging research. Journal of Biomedical Graphics and Computing, 2012, 2, .	0.2	13
56	Markov Chain Monte Carlo simulation for projection of end stage renal disease patients in Greece. Computer Methods and Programs in Biomedicine, 2012, 107, 90-96.	4.7	11
57	Comparison of algorithms for out-of-plane artifacts removal in digital tomosynthesis reconstructions. Computer Methods and Programs in Biomedicine, 2012, 107, 75-83.	4.7	2
58	Introduction to the special issue on "Advances in Biomedical Engineering and Computing: The MEDICON Conference Case" selected papers from MEDICON 2010. Computer Methods and Programs in Biomedicine, 2012, 107, 1-3.	4.7	2
59	MOA213CD08: Characterization of the Homogeneous Breast Tissue Mixture Approximation for Breast Image Dosimetry. Medical Physics, 2012, 39, 3878-3878.	3.0	1
60	Characterization of the homogeneous tissue mixture approximation in breast imaging dosimetry. Medical Physics, 2012, 39, 5050-5059.	3.0	68
61	Application of Synchrotron Radiation in Mammography. Recent Patents on Medical Imaging, 2012, 2, 94-110.	0.1	2
62	Evaluation of digital breast tomosynthesis reconstruction algorithms using synchrotron radiation in standard geometry. Medical Physics, 2010, 37, 1893-1903.	3.0	18
63	Experimental validation of a radiographic simulation code using breast phantom for X-ray imaging. Computers in Biology and Medicine, 2010, 40, 208-214.	7.0	34
64	Evaluation of an improved algorithm for producing realistic 3D breast software phantoms: Application for mammography. Medical Physics, 2010, 37, 5604-5617.	3.0	54
65	Performance Assessment of Breast Tomosynthesis Systems: Concepts for Two Types of Phantoms. Lecture Notes in Computer Science, 2010, , 227-234.	1.3	0
66	Quantitative evaluation of a mammographic software phantom generator. , 2009, , .		0
67	An Optimised 3D Breast Phantom for X-Ray Breast Imaging Techniques. IFMBE Proceedings, 2009, , 2455-2458.	0.3	2
68	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
69	A novel simulation algorithm for soft tissue compression. Medical and Biological Engineering and Computing, 2007, 45, 661-669.	2.8	50
70	Dual-energy mammography simulation: Optimisation studies. , 2007, , 1617-1621.		0