

Kristina S Bliznakova

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Characterization of the homogeneous tissue mixture approximation in breast imaging dosimetry. <i>Medical Physics</i> , 2012 , 39, 5050-9	4.4	54
58	Evaluation of an improved algorithm for producing realistic 3D breast software phantoms: application for mammography. <i>Medical Physics</i> , 2010 , 37, 5604-17	4.4	44
57	A novel simulation algorithm for soft tissue compression. <i>Medical and Biological Engineering and Computing</i> , 2007 , 45, 661-9	3.1	44
56	Suitability of low density materials for 3D printing of physical breast phantoms. <i>Physics in Medicine and Biology</i> , 2018 , 63, 175020	3.8	29
55	Experimental validation of a radiographic simulation code using breast phantom for X-ray imaging. <i>Computers in Biology and Medicine</i> , 2010 , 40, 208-14	7	26
54	A Monte Carlo model for mean glandular dose evaluation in spot compression mammography. <i>Medical Physics</i> , 2017 , 44, 3848-3860	4.4	19
53	A software platform for phase contrast x-ray breast imaging research. <i>Computers in Biology and Medicine</i> , 2015 , 61, 62-74	7	15
52	Monte Carlo evaluation of glandular dose in cone-beam X-ray computed tomography dedicated to the breast: Homogeneous and heterogeneous breast models. <i>Physica Medica</i> , 2018 , 51, 99-107	2.7	15
51	Evaluation of digital breast tomosynthesis reconstruction algorithms using synchrotron radiation in standard geometry. <i>Medical Physics</i> , 2010 , 37, 1893-903	4.4	15
50	In-line phase-contrast breast tomosynthesis: a phantom feasibility study at a synchrotron radiation facility. <i>Physics in Medicine and Biology</i> , 2016 , 61, 6243-63	3.8	15
49	Evaluation of the BreastSimulator software platform for breast tomography. <i>Physics in Medicine and Biology</i> , 2017 , 62, 6446-6466	3.8	14
48	Evaluation of a breast software model for 2D and 3D X-ray imaging studies of the breast. <i>Physica Medica</i> , 2017 , 41, 78-86	2.7	12
47	Models of breast lesions based on three-dimensional X-ray breast images. <i>Physica Medica</i> , 2019 , 57, 80-87	2.7	12
46	Development of breast lesions models database. <i>Physica Medica</i> , 2019 , 64, 293-303	2.7	12
45	Image quality evaluation of breast tomosynthesis with synchrotron radiation. <i>Medical Physics</i> , 2012 , 39, 5621-34	4.4	12
44	BreastSimulator: A software platform for breast x-ray imaging research. <i>Journal of Biomedical Graphics and Computing</i> , 2012 , 2,		10
43	The advent of anthropomorphic three-dimensional breast phantoms for X-ray imaging. <i>Physica Medica</i> , 2020 , 79, 145-161	2.7	9

42	Dataset of patient-derived digital breast phantoms for in silico studies in breast computed tomography, digital breast tomosynthesis, and digital mammography. <i>Medical Physics</i> , 2021 , 48, 2682-2693	4.4	9
41	Monte Carlo performance on the x-ray converter thickness in digital mammography using software breast models. <i>Medical Physics</i> , 2012 , 39, 6638-51	4.4	8
40	Markov Chain Monte Carlo simulation for projection of end stage renal disease patients in Greece. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 107, 90-6	6.9	8
39	Power spectrum analysis of the x-ray scatter signal in mammography and breast tomosynthesis projections. <i>Medical Physics</i> , 2013 , 40, 101905	4.4	8
38	Evaluation of the effect of silicone breast inserts on X-ray mammography and breast tomosynthesis images: A Monte Carlo simulation study. <i>Physica Medica</i> , 2016 , 32, 353-61	2.7	7
37	Breast tomosynthesis with monochromatic beams: a feasibility study using Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2014 , 59, 4681-96	3.8	7
36	EUTEMPE-RX, an EC supported FP7 project for the training and education of medical physics experts in radiology. <i>Radiation Protection Dosimetry</i> , 2015 , 165, 518-22	0.9	5
35	Computer aided preoperative evaluation of the residual liver volume using computed tomography images. <i>Journal of Digital Imaging</i> , 2015 , 28, 231-9	5.3	4
34	Anthropomorphic Physical Breast Phantom Based on Patient Breast CT Data: Preliminary Results. <i>IFMBE Proceedings</i> , 2020 , 367-374	0.2	4
33	Contrast Detail Phantoms for X-ray Phase-Contrast Mammography and Tomography. <i>Lecture Notes in Computer Science</i> , 2016 , 611-617	0.9	4
32	Breast tomosynthesis using the multiple projection algorithm adapted for stationary detectors. <i>Journal of X-Ray Science and Technology</i> , 2016 , 24, 23-41	2.1	3
31	Physical Breast Phantom Dedicated for Mammography Studies. <i>IFMBE Proceedings</i> , 2020 , 344-352	0.2	3
30	Evaluation of the BreastSimulator Software Platform for Breast Tomography: Preliminary Results. <i>Lecture Notes in Computer Science</i> , 2016 , 145-151	0.9	3
29	The Napoli-Varna-Davis project for virtual clinical trials in X-ray breast imaging 2019 ,		3
28	Translation from murine to human lung imaging using x-ray dark field radiography: A simulation study. <i>PLoS ONE</i> , 2018 , 13, e0206302	3.7	3
27	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> , 2020 , 1-1	4.2	2
26	In-line phase contrast tomography of the breast with a dedicated micro-CT scanner 2016 ,		2
25	Towards the estimation of the scattered energy spectra reaching the head of the medical staff during interventional radiology: A Monte Carlo simulation study. <i>Journal of Physics: Conference Series</i> , 2015 , 637, 012036	0.3	2

24	Comparison of algorithms for out-of-plane artifacts removal in digital tomosynthesis reconstructions. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 107, 75-83	6.9	2
23	Study of suitability of new materials for use with physical breast phantoms 2013 ,		2
22	Experimental Evaluation of Physical Breast Phantoms for 2D and 3D Breast X-Ray Imaging Techniques. <i>IFMBE Proceedings</i> , 2021 , 544-552	0.2	2
21	An Optimised 3D Breast Phantom for X-Ray Breast Imaging Techniques. <i>IFMBE Proceedings</i> , 2009 , 2455-2458	2.458	2
20	Abstract ID: 66 Monte Carlo and analytical validation of a software breast phantom for X-ray mammography imaging. <i>Physica Medica</i> , 2017 , 42, 13	2.7	1
19	Modelling of small CFRP aerostructure parts for X-ray imaging simulation. <i>International Journal of Structural Integrity</i> , 2014 , 5, 227-240	1	1
18	Evaluation of a novel wafer-scale CMOS APS X-ray detector for use in mammography 2012 ,		1
17	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
16	Thermoplastic 3D printing technology using a single filament for producing realistic patient-derived breast models.. <i>Physics in Medicine and Biology</i> , 2022 ,	3.8	1
15	[OA216] Development of breast tumours models database. <i>Physica Medica</i> , 2018 , 52, 82	2.7	1
14	Radiomics software for breast imaging optimization and simulation studies. <i>Physica Medica</i> , 2021 , 89, 114-128	2.7	1
13	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	2.7	1
12	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	2.7	0
11	Modeling of small carbon fiber-reinforced polymers for X-ray imaging simulation. <i>Journal of Composite Materials</i> , 2015 , 49, 2541-2553	2.7	
10	Suitability of 3D printing materials for printing anthropomorphic phantoms: A simulation study. <i>Journal of Physics: Conference Series</i> , 2022 , 2162, 012012	0.3	
9	Dual-energy mammography simulation: Optimisation studies 2007 , 1617-1621		
8	Monte Carlo Radiotherapy Simulator: Applications and Feasibility Studies 2007 , 928-931		
7	Creation of Computational Breast Phantoms with Extracted Abnormalities from Real Patient Images. <i>IFMBE Proceedings</i> , 2019 , 213-217	0.2	

- 6 Design and Implementation of a Web-Based Platform to Support Research in X-Ray Breast Imaging. *IFMBE Proceedings*, **2020**, 883-890 0.2
- 5 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
- 4 Performance Assessment of Breast Tomosynthesis Systems: Concepts for Two Types of Phantoms. *Lecture Notes in Computer Science*, **2010**, 227-234 0.9
- 3 WE-G-103-05: Spatial Frequency Characterization of the X-Ray Scatter Signal in Breast Imaging. *Medical Physics*, **2013**, 40, 510-510 4.4
- 2 Computer-Based Platform for Phase Contrast Tomosynthesis: Targeting an Application for Breast Imaging. *IFMBE Proceedings*, **2016**, 367-371 0.2
- 1 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