

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	Characterization of the homogeneous tissue mixture approximation in breast imaging dosimetry. <i>Medical Physics</i> , 2012, 39, 5050-5059.	3.0	68
2	Suitability of low density materials for 3D printing of physical breast phantoms. <i>Physics in Medicine and Biology</i> , 2018, 63, 175020.	3.0	57
3	Evaluation of an improved algorithm for producing realistic 3D breast software phantoms: Application for mammography. <i>Medical Physics</i> , 2010, 37, 5604-5617.	3.0	54
4	A novel simulation algorithm for soft tissue compression. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 661-669.	2.8	50
5	Experimental validation of a radiographic simulation code using breast phantom for X-ray imaging. <i>Computers in Biology and Medicine</i> , 2010, 40, 208-214.	7.0	34
6	The advent of anthropomorphic three-dimensional breast phantoms for X-ray imaging. <i>Physica Medica</i> , 2020, 79, 145-161.	0.7	33
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	A Monte Carlo model for mean glandular dose evaluation in spot compression mammography. <i>Medical Physics</i> , 2017, 44, 3848-3860.	3.0	24
9	Development of breast lesions models database. <i>Physica Medica</i> , 2019, 64, 293-303.	0.7	24
10	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.	0.7	21
11	Models of breast lesions based on three-dimensional X-ray breast images. <i>Physica Medica</i> , 2019, 57, 80-87.	0.7	21
12	Evaluation of the <i>BreastSimulator</i> software platform for breast tomography. <i>Physics in Medicine and Biology</i> , 2017, 62, 6446-6466.	3.0	20
13	A software platform for phase contrast x-ray breast imaging research. <i>Computers in Biology and Medicine</i> , 2015, 61, 62-74.	7.0	19
14	In-line phase-contrast breast tomosynthesis: a phantom feasibility study at a synchrotron radiation facility. <i>Physics in Medicine and Biology</i> , 2016, 61, 6243-6263.	3.0	19
15	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.	0.7	19
16	Evaluation of digital breast tomosynthesis reconstruction algorithms using synchrotron radiation in standard geometry. <i>Medical Physics</i> , 2010, 37, 1893-1903.	3.0	18
17	Image quality evaluation of breast tomosynthesis with synchrotron radiation. <i>Medical Physics</i> , 2012, 39, 5621-5634.	3.0	15
18	<i>BreastSimulator</i> : A software platform for breast x-ray imaging research. <i>Journal of Biomedical Graphics and Computing</i> , 2012, 2, .	0.2	13

#	ARTICLE	IF	CITATIONS
19	Power spectrum analysis of the x-ray scatter signal in mammography and breast tomosynthesis projections. <i>Medical Physics</i> , 2013, 40, 101905.	3.0	13
20	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, 90-96.	4.7	11
21	Anthropomorphic Physical Breast Phantom Based on Patient Breast CT Data: Preliminary Results. <i>IFMBE Proceedings</i> , 2020, , 367-374.	0.3	11
22	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, 353-361.	0.7	10
23	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
24	Monte Carlo performance on the x-ray converter thickness in digital mammography using software breast models. <i>Medical Physics</i> , 2012, 39, 6638-6651.	3.0	9
25	Breast tomosynthesis with monochromatic beams: a feasibility study using Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2014, 59, 4681-4696.	3.0	9
26	Physical Breast Phantom Dedicated for Mammography Studies. <i>IFMBE Proceedings</i> , 2020, , 344-352.	0.3	9
27	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
28	The Napoli-Varna-Davis project for virtual clinical trials in X-ray breast imaging. , 2019, , .		8
29	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
30	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
31	Computer Aided Preoperative Evaluation of the Residual Liver Volume Using Computed Tomography Images. <i>Journal of Digital Imaging</i> , 2015, 28, 231-239.	2.9	7
32	Translation from murine to human lung imaging using x-ray dark field radiography: A simulation study. <i>PLoS ONE</i> , 2018, 13, e0206302.	2.5	6
33	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
34	EUTEMPE-RX, an EC supported FP7 project for the training and education of medical physics experts in radiology: Table A1.. <i>Radiation Protection Dosimetry</i> , 2015, 165, 518-522.	0.8	5
35	Radiomics software for breast imaging optimization and simulation studies. <i>Physica Medica</i> , 2021, 89, 114-128.	0.7	5
36	Contrast Detail Phantoms for X-ray Phase-Contrast Mammography and Tomography. <i>Lecture Notes in Computer Science</i> , 2016, , 611-617.	1.3	5

#	ARTICLE	IF	CITATIONS
37	Physical Anthropomorphic Breast Phantoms for X-ray Imaging Techniques: Manufacturing Approach. , 2020, , .		5
38	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
39	Evaluation of the BreastSimulator Software Platform for Breast Tomography: Preliminary Results. Lecture Notes in Computer Science, 2016, , 145-151.	1.3	4
40	Application of 3D Printed Anthropomorphic Phantoms for Research and Educational Purposes in Digital Radiology. , 2020, , .		4
41	Study of suitability of new materials for use with physical breast phantoms. , 2013, , .		3
42	Modelling of small CFRP aerostructure parts for X-ray imaging simulation. International Journal of Structural Integrity, 2014, 5, 227-240.	3.3	3
43	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
44	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
45	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
46	In-line phase contrast tomography of the breast with a dedicated micro-CT scanner. , 2016, , .		2
47	An Optimised 3D Breast Phantom for X-Ray Breast Imaging Techniques. IFMBE Proceedings, 2009, , 2455-2458.	0.3	2
48	Application of Synchrotron Radiation in Mammography. Recent Patents on Medical Imaging, 2012, 2, 94-110.	0.1	2
49	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
50	Evaluation of a novel wafer-scale CMOS APS X-ray detector for use in mammography. , 2012, , .		1
51	Simulation studies in medical x-ray tomographic imaging. , 2013, , .		1
52	New Line Contrast Figure of Merit for image quality assessment. IFMBE Proceedings, 2015, , 26-28.	0.3	1
53	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
54	[OA216] Development of breast tumours models database. Physica Medica, 2018, 52, 82.	0.7	1

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55	MOËFâ€213CDâ€08: Characterization of the Homogeneous Breast Tissue Mixture Approximation for Breast Image Dosimetry. Medical Physics, 2012, 39, 3878-3878.	3.0	1
56	Contrast Agent Dual Energy Imaging: Computer Simulations In Search For Printing Materials. , 2021, , .		1
57	Quantitative evaluation of a mammographic software phantom generator. , 2009, , .		0
58	Modeling of small carbon fiber-reinforced polymers for X-ray imaging simulation. Journal of Composite Materials, 2015, 49, 2541-2553.	2.4	0
59	Computer-Based Platform for Phase Contrast Tomosynthesis: Targeting an Application for Breast Imaging. IFMBE Proceedings, 2016, , 367-371.	0.3	0
60	Performance Assessment of Breast Tomosynthesis Systems: Concepts for Two Types of Phantoms. Lecture Notes in Computer Science, 2010, , 227-234.	1.3	0
61	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
62	How Can Biomedical Engineers Benefit from the New Expert Level Course of the EUTEMPE-RX Project. IFMBE Proceedings, 2015, , 765-768.	0.3	0
63	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
64	Design and Implementation of a Web-Based Platform to Support Research in X-Ray Breast Imaging. IFMBE Proceedings, 2020, , 883-890.	0.3	0
65	Dual-energy mammography simulation: Optimisation studies. , 2007, , 1617-1621.		0
66	Integrated Software System for Registering of Patients with Stroke in Varna Region: Design and Initial Implementation. , 2020, , .		0
67	Development and Functioning of a Regional Diabetic Retinopathy Register in the City of Varna, Bulgaria â€“ First Results. , 2021, , .		0
68	Suitability of 3D printing materials for printing anthropomorphic phantoms: A simulation study. Journal of Physics: Conference Series, 2022, 2162, 012012.	0.4	0
69	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.	0.7	0
70	An Approach in Optimising the 3D Printing Materials Used in Manufacturing of 3D Breast Phantoms: the Case of PLA. , 2021, , .		0