

Paolo Russo

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

1,238
citations

361296

20
h-index

454834

30
g-index

92
all docs

92
docs citations

92
times ranked

897
citing authors

#	ARTICLE	IF	CITATIONS
1	Dedicated breast computed tomography: Basic aspects. <i>Medical Physics</i> , 2015, 42, 2786-2804.	1.6	106
2	Dose response of EBT3 radiochromic films to proton and carbon ion clinical beams. <i>Physics in Medicine and Biology</i> , 2017, 62, 377-393.	1.6	61
3	Suitability of low density materials for 3D printing of physical breast phantoms. <i>Physics in Medicine and Biology</i> , 2018, 63, 175020.	1.6	57
4	Advancements towards the implementation of clinical phase-contrast breast computed tomography at Elettra. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1343-1353.	1.0	47
5	A Monte Carlo study of monoenergetic and polyenergetic normalized glandular dose (DgN) coefficients in mammography. <i>Physics in Medicine and Biology</i> , 2017, 62, 306-325.	1.6	38
6	The European Federation of Organisations for Medical Physics (EFOMP) White Paper: Big data and deep learning in medical imaging and in relation to medical physics profession. <i>Physica Medica</i> , 2018, 56, 90-93.	0.4	36
7	Dedicated scanner for laboratory investigations on cone-beam CT/SPECT imaging of the breast. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 629, 350-356.	0.7	35
8	First images of a digital autoradiography system based on a Medipix2 hybrid silicon pixel detector. <i>Physics in Medicine and Biology</i> , 2003, 48, N173-N181.	1.6	33
9	Cone-beam micro computed tomography dedicated to the breast. <i>Medical Engineering and Physics</i> , 2016, 38, 1449-1457.	0.8	30
10	X-ray Cone-Beam Breast Computed Tomography: Phantom Studies. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 160-172.	1.2	27
11	High-Resolution ^{125}I Small Animal Imaging With a Coded Aperture and a Hybrid Pixel Detector. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 481-490.	1.2	26
12	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.	1.6	26
13	Preliminary evaluation of the tomographic performance of the mediSPECT small animal imaging system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 571, 415-418.	0.7	25
14	Method for measuring the focal spot size of an x-ray tube using a coded aperture mask and a digital detector. <i>Medical Physics</i> , 2011, 38, 2099-2115.	1.6	25
15	Evaluation of a CdTe semiconductor based compact gamma camera for sentinel lymph node imaging. <i>Medical Physics</i> , 2011, 38, 1547-1560.	1.6	24
16	A Monte Carlo model for mean glandular dose evaluation in spot compression mammography. <i>Medical Physics</i> , 2017, 44, 3848-3860.	1.6	24
17	Development of breast lesions models database. <i>Physica Medica</i> , 2019, 64, 293-303.	0.4	24
18	Cone-beam breast computed tomography with a displaced flat panel detector array. <i>Medical Physics</i> , 2012, 39, 2805-2819.	1.6	22

#	ARTICLE	IF	CITATIONS
19	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.	0.4	21
20	Models of breast lesions based on three-dimensional X-ray breast images. <i>Physica Medica</i> , 2019, 57, 80-87.	0.4	21
21	Tritium digital autoradiography with a Medipix2 hybrid silicon pixel detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 516, 554-563.	0.7	20
22	Measurement of the MTF of a Cone-Beam Breast Computed Tomography Laboratory Scanner. <i>IEEE Transactions on Nuclear Science</i> , 2011, 58, 703-713.	1.2	20
23	Preliminary test of an imaging probe for nuclear medicine using hybrid pixel detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 487, 193-201.	0.7	19
24	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.	0.4	19
25	CdTe hybrid pixel detector for imaging with thermal neutrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 563, 238-241.	0.7	17
26	Air kerma calculation in Monte Carlo simulations for deriving normalized glandular dose coefficients in mammography. <i>Physics in Medicine and Biology</i> , 2017, 62, N337-N349.	1.6	17
27	Design of a compact gamma camera with semiconductor hybrid pixel detectors: imaging tests with a pinhole collimator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 509, 321-327.	0.7	15
28	Dose Distribution in Cone-Beam Breast Computed Tomography: An Experimental Phantom Study. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 366-374.	1.2	15
29	Towards breast cancer rotational radiotherapy with synchrotron radiation. <i>Physica Medica</i> , 2017, 41, 20-25.	0.4	15
30	Dose Volume Distribution in Digital Breast Tomosynthesis: A Phantom Study. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2017, 1, 322-328.	2.7	15
31	BriXs Ultra High Flux Inverse Compton Source Based on Modified Push-Pull Energy Recovery Linacs. <i>Instruments</i> , 2019, 3, 49.	0.8	15
32	Combined SPECT/CT and PET/CT for breast imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 809, 58-66.	0.7	14
33	CdTe compact gamma camera for coded aperture imaging in radioguided surgery. <i>Physica Medica</i> , 2020, 69, 223-232.	0.4	14
34	Investigation of the dose distribution for a cone beam CT system dedicated to breast imaging. <i>Physica Medica</i> , 2013, 29, 379-387.	0.4	13
35	Monte Carlo calculation of monoenergetic and polyenergetic DgN coefficients for mean glandular dose estimates in mammography using a homogeneous breast model. <i>Physics in Medicine and Biology</i> , 2019, 64, 125012.	1.6	13
36	Evaluation of Scattering in Cone-Beam Breast Computed Tomography: A Monte Carlo and Experimental Phantom Study. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 2510-2517.	1.2	12

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37	Breast radiotherapy with kilovoltage photons and gold nanoparticles as radiosensitizer: An in vitro study. <i>Medical Physics</i> , 2022, 49, 568-578.	1.6	12
38	Quantitative photoacoustic spectroscopy of cataractous human lenses. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1990, 4, 407-417.	1.7	11
39	Frequency Distribution of the Time Interval between Quick Phase Nystagmic Eye Movements. <i>Ophthalmic Research</i> , 1990, 22, 178-182.	1.0	9
40	Characterization of 600- μ m-thick Si-GaAs detectors for medical imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 466, 79-86.	0.7	9
41	Signal-to-Noise Gain at Variable Randoms Ratio in TOF PET. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 1948-1957.	1.2	9
42	Synchrotron radiation external beam rotational radiotherapy of breast cancer: proof of principle. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 857-868.	1.0	9
43	Monte Carlo Evaluation of Normalized Glandular Dose Coefficients in Mammography. <i>Lecture Notes in Computer Science</i> , 2016, , 190-196.	1.0	9
44	Virtual Clinical Trials in 2D and 3D X-ray Breast Imaging and Dosimetry: Comparison of CPU-Based and GPU-Based Monte Carlo Codes. <i>Cancers</i> , 2022, 14, 1027.	1.7	9
45	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.	0.4	9
46	Investigation on semi-insulating GaAs detectors using laser-induced current pulses. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 458, 158-163.	0.7	8
47	Distribution of Absorbed Dose in Cone-Beam Breast Computed Tomography: A Phantom Study With Radiochromic Films. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 2220-2229.	1.2	8
48	Survival fraction and phenotype alterations of <i>Xenopus laevis</i> embryos at 3Â Gy, 150Â kV X-ray irradiation. <i>Biochemical and Biophysical Research Communications</i> , 2016, 480, 580-585.	1.0	8
49	The Napoli-Varna-Davis project for virtual clinical trials in X-ray breast imaging. , 2019, , .		8
50	Normalized glandular dose coefficients for digital breast tomosynthesis systems with a homogeneous breast model. <i>Physics in Medicine and Biology</i> , 2021, 66, 065024.	1.6	8
51	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.	0.4	8
52	Amount of Surgery in Congenital Nystagmus. <i>Ophthalmologica</i> , 1989, 198, 145-151.	1.0	6
53	Manufacturing of physical breast phantoms with 3D printing technology for X-ray breast imaging. , 2019, , .		6
54	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.	2.7	6

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55	Virtual clinical trials in 3D and 2D breast imaging with digital phantoms derived from clinical breast CT scans. , 2020, , .		6
56	Advanced Monte Carlo application for in-silico clinical trials in x-ray breast imaging. , 2020, , .		6
57	Nonlinear scattering in a polymeric blend. Optics Communications, 1994, 112, 169-174.	1.0	5
58	Noise and interpixel dead space studies of GaAs pixellated detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 458, 164-168.	0.7	5
59	Response of semi-insulating GaAs detectors to near-infrared picosecond light pulses. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 466, 105-114.	0.7	5
60	<title>Digital system based on a bichromatic x-ray source and a single-photon counting device: a single-exposure dual-energy mammography approach</title>. , 2002, , .		5
61	A digital autoradiography system based on the Medipix2 chip: images of 3H and 14C microscales. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 404-405.	0.7	5
62	Early detection of tumor masses by in vivo hematoporphyrin-mediated fluorescence imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 392-395.	0.7	5
63	High Resolution ^{125}I Pinhole SPECT Imaging of the Mouse Thyroid With the MediSPECT Small Animal CdTe Scanner. IEEE Transactions on Nuclear Science, 2010, 57, 1029-1037.	1.2	5
64	Radiomics software for breast imaging optimization and simulation studies. Physica Medica, 2021, 89, 114-128.	0.4	5
65	Solid-State Detectors for Small-Animal Imaging. , 2014, , 23-82.		5
66	Contrast Detail Phantoms for X-ray Phase-Contrast Mammography and Tomography. Lecture Notes in Computer Science, 2016, , 611-617.	1.0	5
67	Image Quality and Radiation Dose in Propagation Based Phase Contrast Mammography with a Microfocus X-ray Tube: A Phantom Study. Lecture Notes in Computer Science, 2016, , 618-624.	1.0	5
68	Radiochromic film dosimetry in synchrotron radiation breast computed tomography: a phantom study. Journal of Synchrotron Radiation, 2020, 27, 762-771.	1.0	5
69	Response of semi-insulating GaAs detectors to low energy protons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 466, 155-161.	0.7	4
70	Evaluation of Dose Homogeneity in Cone-Beam Breast Computed Tomography. Radiation Protection Dosimetry, 2017, 175, 473-481.	0.4	4
71	Evaluation of the BreastSimulator Software Platform for Breast Tomography: Preliminary Results. Lecture Notes in Computer Science, 2016, , 145-151.	1.0	4
72	On the Variations of the Time Constant of the Slow-Phase Eye Movements Produced by Surgical Therapy of Congenital Nystagmus: A Preliminary Report. Ophthalmic Research, 1989, 21, 345-351.	1.0	3

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73	Multimodal system for in vivo tumor imaging in mice. , 2006, , .		3
74	Measurement of the MTF of a Cone-Beam Breast Computed Tomography laboratory scanner. , 2009, , .		3
75	Performance of the mediPROBE compact gamma camera for coded aperture imaging. , 2016, , .		3
76	Detection of x rays with a fiber-optic interferometric sensor. Applied Optics, 1993, 32, 1229.	2.1	2
77	In-line phase contrast tomography of the breast with a dedicated micro-CT scanner. , 2016, , .		2
78	[OA192] Kilovoltage rotational radiotherapy with the marix/brixis source for partial breast irradiation. Physica Medica, 2018, 52, 74.	0.4	2
79	CHARACTERIZATION OF A SMALL FOV PORTABLE GC: MediPROBE. Radiation Protection Dosimetry, 2019, 183, 290-296.	0.4	2
80	Mammography dose estimates do not reflect any specific patient's breast dose. European Journal of Radiology, 2020, 131, 109216.	1.2	2
81	High resolution ¹²⁵ pinhole SPECT imaging of the mouse thyroid with the MediSPECT small animal CdTe scanner. , 2008, , .		1
82	Evaluation of scattering in cone-beam breast computed tomography: A Monte Carlo and experimental phantom study. , 2009, , .		1
83	New Editor-in-Chief. Physica Medica, 2013, 29, 1-2.	0.4	1
84	The scientific publications of AIFM members in 2015â€“2019: A survey of the FutuRuS working group. Physica Medica, 2021, 88, 111-116.	0.4	1
85	<title>Quasi-cw tissue transillumination at 1064 nm</title>. , 1997, 2979, 688.		0
86	Optimization of the acquisition parameters for a SPET system dedicated to breast imaging. , 2006, , .		0
87	X-ray cone-beam breast computed tomography: Phantoms studies on microcalcifications Visibility. , 2009, , .		0
88	Distribution of absorbed dose in cone-beam breast computed tomography: A phantom study with radiochromic films. , 2009, , .		0
89	Volume dose distribution in digital breast tomosynthesis: A phantom study. , 2016, , .		0
90	[P194] Breast cancer radiosurgery with a synchrotron radiation beam. Physica Medica, 2018, 52, 156.	0.4	0