Christian Fedon

List of Publications by Year
in descending order

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25 papers	454 citations	686830 13 h-index	752256 20 g-index
25 all docs	25 docs citations	25 times ranked	301 citing authors

#	Article	IF	Citations
1	Towards breast tomography with synchrotron radiation at Elettra: first images. Physics in Medicine and Biology, 2016, 61, 1634-1649.	1.6	74
2	Imaging performance of phase-contrast breast computed tomography with synchrotron radiation and a CdTe photon-counting detector. Physica Medica, 2016, 32, 681-690.	0.4	51
3	GEANT4 for breast dosimetry: parameters optimization study. Physics in Medicine and Biology, 2015, 60, N311-N323.	1.6	47
4	Advancements towards the implementation of clinical phase-contrast breast computed tomography at Elettra. Journal of Synchrotron Radiation, 2019, 26, 1343-1353.	1.0	47
5	Glandular dose in breast computed tomography with synchrotron radiation. Physics in Medicine and Biology, 2016, 61, 569-587.	1.6	45
6	Imaging study of a phase-sensitive breast-CT system in continuous acquisition mode. Journal of Instrumentation, 2017, 12, C01016-C01016.	0.5	24
7	Image quality comparison between a phase-contrast synchrotron radiation breast CT and a clinical breast CT: a phantom based study. Scientific Reports, 2019, 9, 17778.	1.6	24
8	Deep learning reconstruction of digital breast tomosynthesis images for accurate breast density and patient-specific radiation dose estimation. Medical Image Analysis, 2021, 71, 102061.	7.0	19
9	Dose and diagnostic performance comparison between phase-contrast mammography with synchrotron radiation and digital mammography: a clinical study report. Journal of Medical Imaging, 2018, 5, 1.	0.8	18
10	Patientâ€derived heterogeneous breast phantoms for advanced dosimetry in mammography and tomosynthesis. Medical Physics, 2022, 49, 5423-5438.	1.6	15
11	Internal breast dosimetry in mammography: Experimental methods and Monte Carlo validation with a monoenergetic xâ€ray beam. Medical Physics, 2018, 45, 1724-1737.	1.6	14
12	Internal breast dosimetry in mammography: Monte Carlo validation in homogeneous and anthropomorphic breast phantoms with a clinical mammography system. Medical Physics, 2018, 45, 3950-3961.	1.6	13
13	Fibroglandular tissue distribution in the breast during mammography and tomosynthesis based on breast CT data: A patientâ€based characterization of the breast parenchyma. Medical Physics, 2021, 48, 1436-1447.	1.6	13
14	Development of 3D patient-based super-resolution digital breast phantoms using machine learning. Physics in Medicine and Biology, 2018, 63, 225017.	1.6	11
15	Towards 4D dedicated breast CT perfusion imaging of cancer: development and validation of computer simulated images. Physics in Medicine and Biology, 2019, 64, 245004.	1.6	9
16	Use of XR-QA2 radiochromic films for quantitative imaging of a synchrotron radiation beam. Journal of Instrumentation, 2015, 10, C05002-C05002.	0.5	6
17	Monte Carlo study on optimal breast voxel resolution for dosimetry estimates in digital breast tomosynthesis. Physics in Medicine and Biology, 2019, 64, 015003.	1.6	6
18	A Framework for Iterative Reconstruction in Phase-Contrast Computed Tomography Dedicated to the Breast. IEEE Transactions on Radiation and Plasma Medical Sciences, 2017, 1, 505-510.	2.7	5

#	Article	IF	Citations
19	Radiochromic film dosimetry in synchrotron radiation breast computed tomography: a phantom study. Journal of Synchrotron Radiation, 2020, 27, 762-771.	1.0	5
20	Energy response of GR-200A thermoluminescence dosemeters to⁶⁰Co and to monoenergetic synchrotron radiation in the energy range 28â€“40 keV. Radiation Protection Dosimetry, 2016, 168, 40-45.	0.4	3
21	Quantitative evaluation of breast CT reconstruction by means of figures of merit based on similarity metrics. , 2017, , .		2
22	Dose reduction in breast CT by spectrum switching. , 2018, , .		2
23	Automatic estimation of glandular tissue loss due to limited reconstruction voxel size in tomographic images of the breast. , 2018, , .		1
24	Digital mammography with synchrotron radiation: characterization of a novel computed radiography system. Journal of Physics: Conference Series, 2015, 637, 012028.	0.3	0
25	Erratum of: â€˜Glandular dose in breast computed tomography with synchrotron radiationâ€™. Physics in Medicine and Biology, 2016, 61, 2970-2971.	1.6	0