

# Hilde Tc Bosmans

## List of Publications by Citations

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229  
papers

4,419  
citations

37  
h-index

58  
g-index

247  
ext. papers

5,036  
ext. citations

3.5  
avg, IF

5.07  
L-index

#	Paper	IF	Citations
229	Effective dose range for dental cone beam computed tomography scanners. <i>European Journal of Radiology</i> , <b>2012</b> , 81, 267-71	4.7	404
228	Remote myocardial dysfunction after acute anterior myocardial infarction: impact of left ventricular shape on regional function: a magnetic resonance myocardial tagging study. <i>Journal of the American College of Cardiology</i> , <b>2000</b> , 35, 1525-34	15.1	141
227	Effect of vascular targeting agent in rat tumor model: dynamic contrast-enhanced versus diffusion-weighted MR imaging. <i>Radiology</i> , <b>2005</b> , 237, 492-9	20.5	137
226	Diffusion-weighted MR imaging in monitoring the effect of a vascular targeting agent on rhabdomyosarcoma in rats. <i>Radiology</i> , <b>2005</b> , 234, 756-64	20.5	132
225	Quantification of metal artifacts on cone beam computed tomography images. <i>Clinical Oral Implants Research</i> , <b>2013</b> , 24 Suppl A100, 94-9	4.8	131
224	Modern dental imaging: a review of the current technology and clinical applications in dental practice. <i>European Radiology</i> , <b>2010</b> , 20, 2637-55	8	117
223	Functional recovery of subepicardial myocardial tissue in transmural myocardial infarction after successful reperfusion: an important contribution to the improvement of regional and global left ventricular function. <i>Circulation</i> , <b>1999</b> , 99, 36-43	16.7	116
222	Radiofrequency ablation for eradication of pulmonary tumor in rabbits. <i>Journal of Surgical Research</i> , <b>2001</b> , 99, 265-71	2.5	108
221	Variability of dental cone beam CT grey values for density estimations. <i>British Journal of Radiology</i> , <b>2013</b> , 86, 20120135	3.4	89
220	A pragmatic approach to determine the optimal kVp in cone beam CT: balancing contrast-to-noise ratio and radiation dose. <i>Dentomaxillofacial Radiology</i> , <b>2014</b> , 43, 20140059	3.9	75
219	Comparison of spatial and contrast resolution for cone-beam computed tomography scanners. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , <b>2012</b> , 114, 127-35	2	75
218	Noninvasive measurements of infarct size after thrombolysis with a necrosis-avid MRI contrast agent. <i>Circulation</i> , <b>1999</b> , 99, 690-6	16.7	72
217	Evaluation of a radiation protection cabin for invasive electrophysiological procedures. <i>European Heart Journal</i> , <b>2007</b> , 28, 183-9	9.5	64
216	Contrast-enhanced MRA of the brain. <i>Journal of Computer Assisted Tomography</i> , <b>1992</b> , 16, 25-9	2.2	63
215	Diffusion-weighted magnetic resonance imaging allows noninvasive in vivo monitoring of the effects of combretastatin a-4 phosphate after repeated administration. <i>Neoplasia</i> , <b>2005</b> , 7, 779-87	6.4	62
214	Effective radiation dose and eye lens dose in dental cone beam CT: effect of field of view and angle of rotation. <i>British Journal of Radiology</i> , <b>2014</b> , 87, 20130654	3.4	58
213	Development and applicability of a quality control phantom for dental cone-beam CT. <i>Journal of Applied Clinical Medical Physics</i> , <b>2011</b> , 12, 3478	2.3	58

212	Effect of image quality on calcification detection in digital mammography. <i>Medical Physics</i> , <b>2012</b> , 39, 3202-13	4.4	56
211	Magnetic resonance imaging-histomorphologic correlation studies on paramagnetic metalloporphyrins in rat models of necrosis. <i>Investigative Radiology</i> , <b>1997</b> , 32, 770-9	10.1	56
210	Treatment of rodent liver tumor with combretastatin a4 phosphate: noninvasive therapeutic evaluation using multiparametric magnetic resonance imaging in correlation with microangiography and histology. <i>Investigative Radiology</i> , <b>2009</b> , 44, 44-53	10.1	55
209	Patient dose in interventional radiology: a European survey. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 39-45	0.9	55
208	Validation of MTF measurement for digital mammography quality control. <i>Medical Physics</i> , <b>2005</b> , 32, 1684-95	4.4	55
207	Optimization of dental CBCT exposures through mAs reduction. <i>Dentomaxillofacial Radiology</i> , <b>2015</b> , 44, 20150108	3.9	53
206	Stool tagging applied in thin-slice multidetector computed tomography colonography. <i>Journal of Computer Assisted Tomography</i> , <b>2003</b> , 27, 132-9	2.2	53
205	Evaluation of clinical image processing algorithms used in digital mammography. <i>Medical Physics</i> , <b>2009</b> , 36, 765-75	4.4	50
204	Transverse arch hypoplasia predisposes to aneurysm formation at the repair site after patch angioplasty for coarctation of the aorta. <i>Journal of the American College of Cardiology</i> , <b>1995</b> , 26, 521-7	15.1	47
203	Dose distribution for dental cone beam CT and its implication for defining a dose index. <i>Dentomaxillofacial Radiology</i> , <b>2012</b> , 41, 583-93	3.9	46
202	Experimental investigation on the choice of the tungsten/rhodium anode/filter combination for an amorphous selenium-based digital mammography system. <i>European Radiology</i> , <b>2007</b> , 17, 2368-75	8	45
201	Double-dosimetry algorithm for workers in interventional radiology. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 321-7	0.9	44
200	Estimating cancer risk from dental cone-beam CT exposures based on skin dosimetry. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 3877-91	3.8	43
199	Value of t2-weighted magnetic resonance imaging early after myocardial infarction in dogs: comparison with bis-gadolinium-mesoporphyrin enhanced T1-weighted magnetic resonance imaging and functional data from cine magnetic resonance imaging. <i>Investigative Radiology</i> , <b>2002</b> , 37, 77-85	10.1	43
198	Experimental Gd-DTPA polylysine enhanced MR angiography: sequence optimization. <i>Journal of Computer Assisted Tomography</i> , <b>1991</b> , 15, 711-5	2.2	41
197	Breath-hold contrast-enhanced three-dimensional MR angiography of the abdomen: time-resolved imaging versus single-phase imaging. <i>Radiology</i> , <b>2000</b> , 214, 149-56	20.5	40
196	Liver tumor model with implanted rhabdomyosarcoma in rats: MR imaging, microangiography, and histopathologic analysis. <i>Radiology</i> , <b>2006</b> , 239, 554-62	20.5	39
195	Radiofrequency ablation for eradication of renal tumor in a rabbit model by using a cooled-tip electrode technique. <i>Annals of Surgical Oncology</i> , <b>2001</b> , 8, 651-7	3.1	39

194	Development and validation of a modelling framework for simulating 2D-mammography and breast tomosynthesis images. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 4275-93	3.8	38
193	Three-dimensional cardiac rotational angiography: effective radiation dose and image quality implications. <i>Europace</i> , <b>2010</b> , 12, 194-201	3.9	37
192	The simulation of 3D microcalcification clusters in 2D digital mammography and breast tomosynthesis. <i>Medical Physics</i> , <b>2011</b> , 38, 6659-71	4.4	36
191	Reduction of scatter-induced image noise in cone beam computed tomography: effect of field of view size and position. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , <b>2016</b> , 121, 188-95 <sup>2</sup>		32
190	Factors influencing the accuracy of volume measurements in spiral CT: a phantom study. <i>Journal of Computer Assisted Tomography</i> , <b>1997</b> , 21, 332-8	2.2	32
189	Tumor models and specific contrast agents for small animal imaging in oncology. <i>Methods</i> , <b>2009</b> , 48, 125-38	4.6	31
188	Radiation dose survey in a paediatric cardiac catheterisation laboratory equipped with flat-panel detectors. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 91-5	0.9	30
187	Suitability of low density materials for 3D printing of physical breast phantoms. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 175020	3.8	29
186	Comparison of software and human observers in reading images of the CDMAM test object to assess digital mammography systems <b>2006</b> ,		29
185	BOLD contrast fMRI of whole rodent tumour during air or carbogen breathing using echo-planar imaging at 1.5 T. <i>European Radiology</i> , <b>2001</b> , 11, 2332-40	8	28
184	Diffusion weighted imaging in small rodents using clinical MRI scanners. <i>Methods</i> , <b>2007</b> , 43, 12-20	4.6	27
183	Two examples of indication specific radiation dose calculations in dental CBCT and Multidetector CT scanners. <i>Physica Medica</i> , <b>2017</b> , 41, 71-77	2.7	26
182	Quantification of scattered radiation in projection mammography: four practical methods compared. <i>Medical Physics</i> , <b>2012</b> , 39, 3167-80	4.4	25
181	Characterisation of noise and sharpness of images from four digital breast tomosynthesis systems for simulation of images for virtual clinical trials. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 2376-2397	3.8	24
180	Patient dose in neonatal units. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 131, 143-7	0.9	24
179	Results of a European survey on patient doses in paediatric radiology. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 204-10	0.9	24
178	The use of ECG and respiratory triggering to improve the sensitivity of oxygen-enhanced proton MRI of lung ventilation. <i>European Radiology</i> , <b>2003</b> , 13, 1260-5	8	24
177	Excess radiation and organ dose in chest and abdominal CT due to CT acquisition beyond expected anatomical boundaries. <i>European Radiology</i> , <b>2012</b> , 22, 779-88	8	21

176	Effective detective quantum efficiency for two mammography systems: measurement and comparison against established metrics. <i>Medical Physics</i> , <b>2013</b> , 40, 101916	4.4	21
175	The SENTINEL project. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 3-5	0.9	21
174	Development and validation of a simulation procedure to study the visibility of micro calcifications in digital mammograms. <i>Medical Physics</i> , <b>2003</b> , 30, 2234-40	4.4	21
173	State of the Art: Eye-Tracking Studies in Medical Imaging. <i>IEEE Access</i> , <b>2018</b> , 6, 37023-37034	3.5	20
172	The growing concern of radiation dose in paediatric dental and maxillofacial CBCT: an easy guide for daily practice. <i>European Radiology</i> , <b>2019</b> , 29, 7009-7018	8	20
171	The effect of image processing on the detection of cancers in digital mammography. <i>American Journal of Roentgenology</i> , <b>2014</b> , 203, 387-93	5.4	20
170	Dynamic contrast-enhanced and diffusion-weighted MRI for early detection of tumoral changes in single-dose and fractionated radiotherapy: evaluation in a rat rhabdomyosarcoma model. <i>European Radiology</i> , <b>2009</b> , 19, 2663-71	8	20
169	Calculation of organ doses in x-ray examinations of premature babies. <i>Medical Physics</i> , <b>2008</b> , 35, 556-68	4.4	20
168	Spatial and contrast resolution of ultralow dose dentomaxillofacial CT imaging using iterative reconstruction technology. <i>Dentomaxillofacial Radiology</i> , <b>2017</b> , 46, 20160452	3.9	19
167	Tailoring automatic exposure control toward constant detectability in digital mammography. <i>Medical Physics</i> , <b>2015</b> , 42, 3834-47	4.4	19
166	Diagnostic reference levels in angiography and interventional radiology: a Belgian multi-centre study. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 50-5	0.9	19
165	Prospective comparison of hydrogel-coated microcoils versus fibered platinum microcoils in the prophylactic embolization of the gastroduodenal artery before yttrium-90 radioembolization. <i>Journal of Vascular and Interventional Radiology</i> , <b>2013</b> , 24, 797-803; quiz 804	2.4	18
164	Clinical validation of high-resolution fast spin-echo MR colonography after colon distention with air. <i>Journal of Magnetic Resonance Imaging</i> , <b>2005</b> , 22, 400-5	5.6	18
163	Determination of size-specific exposure settings in dental cone-beam CT. <i>European Radiology</i> , <b>2017</b> , 27, 279-285	8	17
162	EFOMP policy statement 16: The role and competences of medical physicists and medical physics experts under 2013/59/EURATOM. <i>Physica Medica</i> , <b>2018</b> , 48, 162-168	2.7	17
161	Does digital mammography in a decentralized breast cancer screening program lead to screening performance parameters comparable with film-screen mammography?. <i>European Radiology</i> , <b>2010</b> , 20, 2307-14	8	17
160	Evaluation of software for reading images of the CDMAM test object to assess digital mammography systems <b>2008</b> ,		17
159	Localization and determination of infarct size by Gd-Mesoporphyrin enhanced MRI in dogs. <i>International Journal of Cardiovascular Imaging</i> , <b>1997</b> , 13, 499-507		16

158	Visual grading analysis of digital neonatal chest phantom X-ray images: Impact of detector type, dose and image processing on image quality. <i>European Radiology</i> , <b>2018</b> , 28, 2951-2959	8	15
157	CUSTOMISATION OF A MONTE CARLO DOSIMETRY TOOL FOR DENTAL CONE-BEAM CT SYSTEMS. <i>Radiation Protection Dosimetry</i> , <b>2016</b> , 169, 378-85	0.9	15
156	Technical and clinical breast cancer screening performance indicators for computed radiography versus direct digital radiography. <i>European Radiology</i> , <b>2013</b> , 23, 2891-8	8	15
155	The simulation of 3D mass models in 2D digital mammography and breast tomosynthesis. <i>Medical Physics</i> , <b>2014</b> , 41, 081913	4.4	15
154	Future prospects for dental cone beam CT imaging. <i>Imaging in Medicine</i> , <b>2012</b> , 4, 551-563	1	15
153	Simulation of image detectors in radiology for determination of scatter-to-primary ratios using Monte Carlo radiation transport code MCNP/MCNPX. <i>Medical Physics</i> , <b>2010</b> , 37, 2082-91	4.4	15
152	An improved method for simulating microcalcifications in digital mammograms. <i>Medical Physics</i> , <b>2008</b> , 35, 4012-8	4.4	15
151	Quantification of Al-equivalent thickness of just visible microcalcifications in full field digital mammograms. <i>Medical Physics</i> , <b>2004</b> , 31, 2165-76	4.4	15
150	Exploring multifunctional features of necrosis avid contrast agents. <i>Academic Radiology</i> , <b>2002</b> , 9 Suppl 2, S488-90	4.3	15
149	Validation of intracoronary delivery of metalloporphyrin as an in vivo "histochemical staining" for myocardial infarction with MR imaging. <i>Academic Radiology</i> , <b>1998</b> , 5 Suppl 1, S37-41; discussion S45-6	4.3	15
148	Comparison of digital breast tomosynthesis and 2D digital mammography using a hybrid performance test. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 3939-58	3.8	14
147	Establishment of trigger levels to steer the follow-up of radiation effects in patients undergoing fluoroscopically-guided interventional procedures in Belgium. <i>Physica Medica</i> , <b>2014</b> , 30, 934-40	2.7	14
146	Organ radiation dose assessment for conventional spiral tomography: a human cadaver study. <i>Clinical Oral Implants Research</i> , <b>2001</b> , 12, 85-90	4.8	14
145	Comparison of iron oxide particles (AMI 227) with a gadolinium complex (Gd-DOTA) in dynamic susceptibility contrast MR imagings (FLASH and EPI) for both phantom and rat brain at 1.5 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , <b>1999</b> , 9, 447-53	5.6	14
144	Clinical indications and radiation doses to the conceptus associated with CT imaging in pregnancy: a retrospective study. <i>European Radiology</i> , <b>2016</b> , 26, 979-85	8	13
143	Bowtie filtration for dedicated cone beam CT of the head and neck: a simulation study. <i>British Journal of Radiology</i> , <b>2013</b> , 86, 20130002	3.4	13
142	Ultralow dose dentomaxillofacial CT imaging and iterative reconstruction techniques: variability of Hounsfield units and contrast-to-noise ratio. <i>British Journal of Radiology</i> , <b>2016</b> , 89, 20151055	3.4	13
141	Evaluation of a breast software model for 2D and 3D X-ray imaging studies of the breast. <i>Physica Medica</i> , <b>2017</b> , 41, 78-86	2.7	12

140	Models of breast lesions based on three-dimensional X-ray breast images. <i>Physica Medica</i> , <b>2019</b> , 57, 80-87.	7	12
139	Development of breast lesions models database. <i>Physica Medica</i> , <b>2019</b> , 64, 293-303	2.7	12
138	Automated implant segmentation in cone-beam CT using edge detection and particle counting. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2014</b> , 9, 733-43	3.9	12
137	Physical evaluation of a needle photostimulable phosphor based CR mammography system. <i>Medical Physics</i> , <b>2012</b> , 39, 811-24	4.4	12
136	In vivo animal functional MRI: improved image quality with a body-adapted mold. <i>Journal of Magnetic Resonance Imaging</i> , <b>2002</b> , 16, 224-7	5.6	12
135	Combined T1-T2 mapping of human femoro-tibial cartilage with turbo-mixed imaging at 1.5T. <i>Journal of Magnetic Resonance Imaging</i> , <b>2005</b> , 22, 368-72	5.6	12
134	Evaluation of exposure in mammography: limitations of average glandular dose and proposal of a new quantity. <i>Radiation Protection Dosimetry</i> , <b>2015</b> , 165, 342-5	0.9	11
133	Simulation of 3D objects into breast tomosynthesis images. <i>Radiation Protection Dosimetry</i> , <b>2010</b> , 139, 108-12	0.9	11
132	Development of a Rat Computational Phantom Using Boundary Representation Method for Monte Carlo Simulation in Radiological Imaging. <i>Proceedings of the IEEE</i> , <b>2009</b> , 97, 2006-2014	14.3	11
131	Survey on performance assessment of cardiac angiography systems. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 108-11	0.9	11
130	Design of a model observer to evaluate calcification detectability in breast tomosynthesis and application to smoothing prior optimization. <i>Medical Physics</i> , <b>2016</b> , 43, 6577	4.4	11
129	Radiation Doses and Risks Associated with Mammographic Screening. <i>Current Radiology Reports</i> , <b>2013</b> , 1, 30-38	0.5	10
128	Investigation of the effect of tube motion in breast tomosynthesis: continuous or step and shoot? <b>2011</b> ,		10
127	Task-based phantom evaluation of cardiac catheterization imaging modes. <i>Physica Medica</i> , <b>2018</b> , 46, 114-123	2.7	9
126	Impact of the digitalisation of mammography on performance parameters and breast dose in the Flemish Breast Cancer Screening Programme. <i>European Radiology</i> , <b>2014</b> , 24, 1808-19	8	9
125	Comparison of visual grading and free-response ROC analyses for assessment of image-processing algorithms in digital mammography. <i>British Journal of Radiology</i> , <b>2012</b> , 85, e1233-41	3.4	9
124	Cu filtration for dose reduction in neonatal chest imaging. <i>Radiation Protection Dosimetry</i> , <b>2010</b> , 139, 281-6	0.9	9
123	Typetesting of physical characteristics of digital mammography systems for screening within the Flemish breast cancer screening programme. <i>European Journal of Radiology</i> , <b>2009</b> , 70, 539-48	4.7	9



122	Results of a European dose survey for mammography. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 199-203.	9	9
121	Clinical image quality criteria for full field digital mammography: a first practical application. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 265-70	0.9	9
120	Current status of digital mammography for screening and diagnosis of breast cancer. <i>Current Opinion in Oncology</i> , <b>2006</b> , 18, 547-54	4.2	9
119	The use of magnetic resonance angiography in stereotactic neurosurgery. <i>Journal of Neurosurgery</i> , <b>1995</b> , 82, 982-7	3.2	9
118	Validation of an image simulation technique for two computed radiography systems: an application to neonatal imaging. <i>Medical Physics</i> , <b>2010</b> , 37, 2092-100	4.4	8
117	Optimization of dose and image quality of paediatric cardiac catheterization procedure. <i>Physica Medica</i> , <b>2015</b> , 31, 659-68	2.7	7
116	2D versus 3D roadmap for uterine artery catheterization: impact on several angiographic parameters. <i>Acta Radiologica</i> , <b>2014</b> , 55, 62-70	2	7
115	Correlation of free-response and receiver-operating-characteristic area-under-the-curve estimates: results from independently conducted FROCROC studies in mammography. <i>Medical Physics</i> , <b>2012</b> , 39, 5917-29	4.4	7
114	Contrast-enhanced MR angiography. <i>Der Radiologe</i> , <b>1996</b> , 36, 115-23	1.5	7
113	Left ventricular radial tagging acquisition using gradient-recalled-echo techniques: sequence optimization. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>1996</b> , 4, 123-33	2.8	7
112	Power Spectrum Analysis of an Anthropomorphic Breast Phantom Compared to Patient Data in 2D Digital Mammography and Breast Tomosynthesis. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 423-429	0.9	7
111	Artificial intelligence for detection of periapical lesions on intraoral radiographs: Comparison between convolutional neural networks and human observers. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , <b>2021</b> , 131, 610-616	2	7
110	Evaluation of automated CDMAM readings for non-standard CDMAM imaging conditions: grid-less acquisitions and scatter correction. <i>Radiation Protection Dosimetry</i> , <b>2015</b> , 165, 350-3	0.9	6
109	The European Federation of Organisations for Medical Physics Policy Statement No 14: the role of the Medical Physicist in the management of safety within the magnetic resonance imaging environment: EFOMP recommendations. <i>Physica Medica</i> , <b>2013</b> , 29, 122-5	2.7	6
108	Development of a paediatric head voxel model database for dosimetric applications. <i>British Journal of Radiology</i> , <b>2017</b> , 90, 20170051	3.4	6
107	Performance comparison of breast imaging modalities using a 4AFC human observer study <b>2015</b> ,		6
106	Implementing the complete beam hardening effect of the bowtie filter versus scaling beam intensities: effects on dosimetric applications in computed tomography. <i>Journal of Medical Imaging</i> , <b>2014</b> , 1, 033507	2.6	6
105	European survey of dental X-ray equipment. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 284-7	0.9	6



104	Contrast visibility of simulated microcalcifications in full field mammography systems <b>2003</b> ,		6
103	Practical method for detected quantum efficiency (DQE) assessment of digital mammography systems in the radiological environment <b>2002</b> , 4682, 645		6
102	Design and Evaluation of a Phantom with Structured Background for Digital Mammography and Breast Tomosynthesis. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 642-649	0.9	6
101	Systematic approach to a channelized Hotelling model observer implementation for a physical phantom containing mass-like lesions: Application to digital breast tomosynthesis. <i>Physica Medica</i> , <b>2019</b> , 58, 8-20	2.7	6
100	Impact of compressed breast thickness and dose on lesion detectability in digital mammography: FROC study with simulated lesions in real mammograms. <i>Medical Physics</i> , <b>2016</b> , 43, 5104	4.4	6
99	Comparing different methods for estimating radiation dose to the conceptus. <i>European Radiology</i> , <b>2017</b> , 27, 851-858	8	5
98	A four-alternative forced choice (4AFC) software for observer performance evaluation in radiology <b>2016</b> ,		5
97	EUTEMPE-RX, an EC supported FP7 project for the training and education of medical physics experts in radiology. <i>Radiation Protection Dosimetry</i> , <b>2015</b> , 165, 518-22	0.9	5
96	A comprehensive in vitro study of image accuracy and quality for periodontal diagnosis. Part 1: the influence of X-ray generator on periodontal measurements using conventional and digital receptors. <i>Clinical Oral Investigations</i> , <b>2011</b> , 15, 537-49	4.2	5
95	A comprehensive in vitro study of image accuracy and quality for periodontal diagnosis. Part 2: the influence of intra-oral image receptor on periodontal measurements. <i>Clinical Oral Investigations</i> , <b>2011</b> , 15, 551-62	4.2	5
94	Effective detective quantum efficiency (eDQE) and effective noise equivalent quanta (eNEQ) for system optimization purposes in digital mammography <b>2012</b> ,		5
93	Preliminary experience with a new double-echo half-Fourier single-shot turbo spin echo acquisition in the characterization of liver lesions. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>1997</b> , 5, 79-84	2.8	5
92	Preliminary validation of a new variable pattern for daily quality assurance of medical image display devices. <i>Medical Physics</i> , <b>2007</b> , 34, 2744-58	4.4	5
91	T2 quantifications of lungs in the fetal lamb with experimentally-induced congenital diaphragmatic hernia. <i>Fetal Diagnosis and Therapy</i> , <b>2007</b> , 22, 143-8	2.4	5
90	One Year of Experience with Remote Quality Assurance of Digital Mammography Systems in the Flemish Breast Cancer Screening Program. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 703-710	0.9	5
89	A new imaging technology to reduce the radiation dose during uterine fibroid embolization. <i>Acta Radiologica</i> , <b>2018</b> , 59, 1446-1450	2	4
88	Two-step validation of a Monte Carlo dosimetry framework for general radiology. <i>Physica Medica</i> , <b>2018</b> , 53, 72-79	2.7	4
87	Comparison of signal to noise ratios from spatial and frequency domain formulations of nonprewhitening model observers in digital mammography. <i>Medical Physics</i> , <b>2012</b> , 39, 5652-63	4.4	4

86	Image quality assessment using the CD-DISC phantom for vascular radiology and vascular surgery. <i>European Journal of Radiology</i> , <b>2008</b> , 67, 348-356	4.7	4
85	Teaching syllabus for radiological aspects of breast cancer screening with digital mammography. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 191-4	0.9	4
84	A quantitative method for evaluating the detectability of lesions in digital mammography. <i>Radiation Protection Dosimetry</i> , <b>2008</b> , 129, 214-8	0.9	4
83	Use of MTF calculation in global and local resolution assessment in digital mammography <b>2003</b> ,		4
82	Axial vs sagittal T2-weighted brain MR images in the evaluation of multiple sclerosis. <i>Journal of Computer Assisted Tomography</i> , <b>1991</b> , 15, 359-64	2.2	4
81	Characterization and validation of the thorax phantom Lungman for dose assessment in chest radiography optimization studies. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 013504	2.6	4
80	Anthropomorphic Physical Breast Phantom Based on Patient Breast CT Data: Preliminary Results. <i>IFMBE Proceedings</i> , <b>2020</b> , 367-374	0.2	4
79	Do we need 3D tube current modulation information for accurate organ dosimetry in chest CT? Protocols dose comparisons. <i>European Radiology</i> , <b>2017</b> , 27, 4490-4497	8	3
78	Effective dose and organ doses estimation taking tube current modulation into account with a commercial software package. <i>European Radiology</i> , <b>2015</b> , 25, 1919-25	8	3
77	Breast tomosynthesis using the multiple projection algorithm adapted for stationary detectors. <i>Journal of X-Ray Science and Technology</i> , <b>2016</b> , 24, 23-41	2.1	3
76	Real space channelization for generic DBT system image quality evaluation with channelized Hotelling observer <b>2017</b> ,		3
75	Virtual clinical trials using inserted pathology in clinical images: investigation of assumptions for local glandularity and noise <b>2015</b> ,		3
74	A model-based volume restoration approach for Monte Carlo scatter correction in image reconstruction of cone beam CT with limited field of view <b>2013</b> ,		3
73	The use of detectability indices as a means of automatic exposure control for a digital mammography system <b>2011</b> ,		3
72	Practical MTF calculation in digital mammography: a multicenter study <b>2004</b> ,		3
71	Verification of the accuracy of a hybrid breast imaging simulation framework for virtual clinical trial applications. <i>Journal of Medical Imaging</i> , <b>2020</b> , 7, 042804	2.6	3
70	Comparison of SNDR, NPWE Model and Human Observer Results for Spherical Densities and Microcalcifications in Real Patient Backgrounds for 2D Digital Mammography and Breast Tomosynthesis. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 134-141	0.9	3
69	Technical Evaluation of a Digital Breast Tomosynthesis System. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 350-356	0.9	3

68	A supplement to the European Guidelines for Quality Assurance in Breast Cancer Screening and Diagnosis. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 643-650	0.9	3
67	Translation from murine to human lung imaging using x-ray dark field radiography: A simulation study. <i>PLoS ONE</i> , <b>2018</b> , 13, e0206302	3.7	3
66	Experimental Investigation of the Necessity for Extra Flat Field Corrections in Quality Control of Digital Mammography. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 475-481	0.9	3
65	Development and application of a channelized Hotelling observer for DBT optimization on structured background test images with mass simulating targets <b>2016</b> ,		2
64	Response to Letter to the Editor: Comment on Effective dose range for dental cone beam computed tomography scanners <i>European Journal of Radiology</i> , <b>2012</b> , 81, 4221-4224	4.7	2
63	The influence of position within the breast on microcalcification detectability in continuous tube motion digital breast tomosynthesis <b>2013</b> ,		2
62	Quality assurance in CT with the Belgian protocol and the new European acceptability criteria. <i>Radiation Protection Dosimetry</i> , <b>2013</b> , 153, 197-205	0.9	2
61	Assessment of the central artifact in cone beam CT imaging with an offset geometry <b>2012</b> ,		2
60	First results with a deep learning (feed-forward CNN) approach for daily quality control in digital breast tomosynthesis <b>2018</b> ,		2
59	Equivalent breast thickness and dose sensitivity of a next iteration 3D structured breast phantom with lesion models <b>2020</b> ,		2
58	Experimental Evaluation of Physical Breast Phantoms for 2D and 3D Breast X-Ray Imaging Techniques. <i>IFMBE Proceedings</i> , <b>2021</b> , 544-552	0.2	2
57	Model and human observer reproducibility for detecting microcalcifications in digital breast tomosynthesis images <b>2018</b> ,		2
56	A European Protocol for Technical Quality Control of Breast Tomosynthesis Systems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 452-459	0.9	2
55	Quality Control in Digital Mammography. <i>Medical Radiology</i> , <b>2010</b> , 33-54	0.2	2
54	Validation of a Simulated Dose Reduction Methodology Using Digital Mammography CDMAM Images and Mastectomy Images. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 78-85	0.9	2
53	Realistic Simulation of Microcalcifications in Breast Tomosynthesis. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 235-242	0.9	2
52	Survey of chest radiography systems: Any link between contrast detail measurements and visual grading analysis?. <i>Physica Medica</i> , <b>2020</b> , 76, 62-71	2.7	2
51	Procurement, commissioning and QA of AI based solutions: An MPE's perspective on introducing AI in clinical practice. <i>Physica Medica</i> , <b>2021</b> , 83, 257-263	2.7	2

50	Grid-less imaging with antiscatter correction software in 2D mammography: the effects on image quality and MGD under a partial virtual clinical validation study <b>2016</b> ,		2
49	How does image quality affect radiologists' perceived ability for image interpretation and lesion detection in digital mammography?. <i>European Radiology</i> , <b>2021</b> , 31, 5335-5343	8	2
48	Detectability of artificial lesions in anthropomorphic virtual breast phantoms of variable glandular fraction <b>2017</b> ,		1
47	A statistical evaluation of eye-tracking data of screening mammography: Effects of expertise and experience on image reading. <i>Signal Processing: Image Communication</i> , <b>2019</b> , 78, 86-93	2.8	1
46	RADIATION PROTECTION CABIN FOR CATHETER-DIRECTED LIVER INTERVENTIONS: OPERATOR DOSE ASSESSMENT. <i>Radiation Protection Dosimetry</i> , <b>2016</b> , 170, 274-8	0.9	1
45	INDIVIDUALISED CALCULATION OF TISSUE IMPARTED ENERGY IN BREAST TOMOSYNTHESIS. <i>Radiation Protection Dosimetry</i> , <b>2016</b> , 169, 267-73	0.9	1
44	Performance evaluation of a retrofit digital detector-based mammography system. <i>Physica Medica</i> , <b>2016</b> , 32, 312-22	2.7	1
43	SIMULATING LOCAL DENSE AREAS USING PMMA TO ASSESS AUTOMATIC EXPOSURE CONTROL IN DIGITAL MAMMOGRAPHY. <i>Radiation Protection Dosimetry</i> , <b>2016</b> , 169, 143-50	0.9	1
42	A comparison of mammographic systems for different breast thicknesses using model observer detectability <b>2015</b> ,		1
41	Model observer detectability as a substitute for contrast detail analysis in routine digital mammography quality control <b>2013</b> ,		1
40	Characterisation of a breast tomosynthesis unit to simulate images <b>2013</b> ,		1
39	Development of acceptability criteria in mammography. <i>Radiation Protection Dosimetry</i> , <b>2013</b> , 153, 219-229		1
38	Two complementary model observers to evaluate reconstructions of simulated micro-calcifications in digital breast tomosynthesis <b>2013</b> ,		1
37	Accurate centroid determination for evaluating the modulation transfer function with a circular edge in CT images <b>2018</b> ,		1
36	Minimizing the scatter contribution and spatial spread due to the absorption grating G2 in grating-based phase-contrast imaging <b>2018</b> ,		1
35	Performance evaluation of a 3D structured phantom with simulated lesions on breast imaging systems <b>2018</b> ,		1
34	Model and human observer reproducibility for detection of microcalcification clusters in digital breast tomosynthesis images of three-dimensionally structured test object. <i>Journal of Medical Imaging</i> , <b>2019</b> , 6, 015503	2.6	1
33	Impact of Clinical Display Device on Detectability of Breast Masses in 2D Digital Mammography: A Virtual Clinical Study. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 676-683	0.9	1

32	Analysis of Mammography Quality Control Results: Evidence for a Change in Test Frequency?. <i>Lecture Notes in Computer Science, 2010, 371-377</i>	0.9	1
31	Software Framework for Simulating Clusters of Microcalcifications in Digital Mammography. <i>Lecture Notes in Computer Science, 2010, 689-696</i>	0.9	1
30	Performance of Computed Radiography and Direct Digital Radiography in a Screening Setting: Effect on the Screening Indicators. <i>Lecture Notes in Computer Science, 2012, 189-196</i>	0.9	1
29	A Modelling Framework for Evaluation of 2D-Mammography and Breast Tomosynthesis Systems. <i>Lecture Notes in Computer Science, 2012, 338-345</i>	0.9	1
28	Mammography Dose Survey Using International Quality Standards. <i>Journal of Medical Imaging and Radiation Sciences, 2019, 50, 529-535</i>	1.4	1
27	Methodology to create 3D models of COVID-19 pathologies for virtual clinical trials. <i>Journal of Medical Imaging, 2021, 8, 013501</i>	2.6	1
26	[OA216] Development of breast tumours models database. <i>Physica Medica, 2018, 52, 82</i>	2.7	1
25	Radiomics software for breast imaging optimization and simulation studies. <i>Physica Medica, 2021, 89, 114-128</i>	2.7	1
24	Criteria and suspension levels in diagnostic radiology. <i>Radiation Protection Dosimetry, 2013, 153, 185-9</i>	0.9	0
23	Consistency of methods for analysing location-specific data. <i>Radiation Protection Dosimetry, 2010, 139, 52-6</i>	0.9	0
22	Constancy Checking of Digital Breast Tomosynthesis Systems. <i>Lecture Notes in Computer Science, 2010, 518-525</i>	0.9	0
21	Classification of Artifacts in Clinical Digital Mammography. <i>Medical Radiology, 2010, 55-67</i>	0.2	0
20	The Morphology of Microcalcifications in 2D Digital Mammography and Breast Tomosynthesis: Is It Different?. <i>Lecture Notes in Computer Science, 2012, 362-368</i>	0.9	0
19	On the relevance of modulation transfer function measurements in digital mammography quality control. <i>Journal of Medical Imaging, 2021, 8, 023505</i>	2.6	0
18	Validation of a candidate instrument to assess image quality in digital mammography using ROC analysis. <i>European Journal of Radiology, 2021, 139, 109686</i>	4.7	0
17	Investigation of single-shot beam quality measurements using state of the art solid-state dosimeters for routine quality assurance applications in mammography. <i>Physica Medica, 2021, 88, 242-249</i>	2.7	0
16	The impact on lesion detection via a multi-vendor study: A phantom-based comparison of digital mammography, digital breast tomosynthesis, and synthetic mammography. <i>Medical Physics, 2021, 48, 6270-6292</i>	4.4	0
15	Novel phantom for performance evaluation of contrast-enhanced 3D rotational angiography. <i>Physica Medica, 2021, 90, 91-98</i>	2.7	0

14	Getting started with protocol for quality assurance of digital mammography in the clinical centre of Montenegro. <i>Radiation Protection Dosimetry</i> , <b>2015</b> , 165, 363-8	0.9
13	Improving the Quality of Optimisation Studies Undertaken in Mammography and General Radiology Using High Level Blended Teaching. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 75-82	0.9
12	Cardiac MRI Physics <b>2005</b> , 1-31	
11	Magnetic resonance imaging of experimental tracheal transplantation. <i>Academic Radiology</i> , <b>1996</b> , 3, 154-83	0.3
10	Intracranial Vessels. <i>Medical Radiology</i> , <b>2002</b> , 183-215	0.2
9	Flow-Independent Acquisition Techniques. <i>Medical Radiology</i> , <b>2002</b> , 91-103	0.2
8	Comparative Technical Study of Two Generations of CR Plates for Digital Mammography. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 724-731	0.9
7	Classification of Artifacts in Clinical Digital Mammography. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 748-755	0.5
6	Grid-Less Imaging with Anti-scatter Correction Software in 2D Mammography: A JAFROC Study Using Simulated Lesions. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 234-242	0.9
5	Towards a Phantom for Multimodality Performance Evaluation of Breast Imaging: A 3D Structured Phantom with Simulated Lesions Tested for 2D Digital Mammography. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 243-253	0.9
4	Performance Assessment of Breast Tomosynthesis Systems: Concepts for Two Types of Phantoms. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 227-234	0.9
3	Effective Detective Quantum Efficiency (eDQE) Measured for a Digital Breast Tomosynthesis System. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 127-133	0.9
2	The Investigation of Different Factors to Optimize the Simulation of 3D Mass Models in Breast Tomosynthesis. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 528-535	0.9
1	Development and content validity evaluation of a candidate instrument to assess image quality in digital mammography: A mixed-method study. <i>European Journal of Radiology</i> , <b>2021</b> , 134, 109464	4.7