

Peter Homolka

List of Publications by Year in descending order

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63
papers

1,331
citations

394421

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docs citations

68
times ranked

1340
citing authors

#	ARTICLE	IF	CITATIONS
1	Developing and Implementing an Imaging Optimization Study in Pediatric Nuclear Medicine: Experience and Recommendations from an IAEA-Coordinated Research Project. <i>Journal of Nuclear Medicine</i> , 2021, 62, 570-576.	5.0	4
2	Developing and implementing a multi-modality imaging optimization study in paediatric radiology: Experience and recommendations from an IAEA coordinated research project. <i>Physica Medica</i> , 2021, 82, 255-265.	0.7	2
3	Classification of X-Ray Attenuation Properties of Additive Manufacturing and 3D Printing Materials Using Computed Tomography From 70 to 140ÅkVp. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 763960.	4.1	14
4	Performance of semiconductor dosimeters with a range of radiation qualities used for mammography: A calibration laboratory study. <i>Medical Physics</i> , 2020, 47, 1372-1378.	3.0	4
5	Diagnostic Reference Levels for computed tomography in Austria: A 2018 nationwide survey on adult patients. <i>European Journal of Radiology</i> , 2020, 125, 108863.	2.6	9
6	An anthropomorphic phantom representing a prematurely born neonate for digital x-ray imaging using 3D printing: Proof of concept and comparison of image quality from different systems. <i>Scientific Reports</i> , 2019, 9, 14357.	3.3	22
7	Comparison of a personalized breast dosimetry method with standard dosimetry protocols. <i>Scientific Reports</i> , 2019, 9, 5866.	3.3	7
8	Diagnostic Reference Levels for conventional radiography and fluoroscopy in Austria: Results and updated National Diagnostic Reference Levels derived from a nationwide survey. <i>European Journal of Radiology</i> , 2019, 113, 135-139.	2.6	11
9	Automated tube voltage selection in pediatric non-contrast chest CT. <i>PLoS ONE</i> , 2018, 13, e0204794.	2.5	3
10	Equivalent thicknesses of beam hardening filters consisting of aluminium, copper, Al/Cu and Al/Gold combinations and plumbiferous acrylic for 40 to 150 kVp diagnostic spectra. <i>Journal of Radiological Protection</i> , 2018, 38, 1269-1283.	1.1	5
11	Design of a head phantom produced on a 3D rapid prototyping printer and comparison with a RANDO and 3M lucite head phantom in eye dosimetry applications. <i>Physics in Medicine and Biology</i> , 2017, 62, 3158-3174.	3.0	18
12	Application of BI-RADS Descriptors in Contrast-Enhanced Dual-Energy Mammography: Comparison with MRI. <i>Breast Care</i> , 2017, 12, 212-216.	1.4	37
13	Conversion factors between human and automatic readouts of CDMAM phantom images of CR mammography systems. <i>Physics in Medicine and Biology</i> , 2016, 61, N514-N521.	3.0	4
14	Spectrum optimization for computed radiography mammography systems. <i>Physica Medica</i> , 2016, 32, 1034-1039.	0.7	1
15	New conversion factors between human and automatic readouts of the CDMAM phantom for CR systems. , 2016, , .		0
16	Contrast-enhanced dual energy mammography with a novel anode/filter combination and artifact reduction: a feasibility study. <i>European Radiology</i> , 2016, 26, 1575-1581.	4.5	19
17	Dose and image quality measurements for contrast-enhanced dual energy mammography systems. , 2015, , .		2
18	On the dose sensitivity of a new CDMAM phantom. <i>Physics in Medicine and Biology</i> , 2015, 60, N177-N185.	3.0	6

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19	Effect of staff training on radiation dose in pediatric CT. European Journal of Radiology, 2015, 84, 1574-1578.	2.6	18
20	Spectrum optimization for computed radiography systems. , 2014, , .		0
21	A Protocol for Quality Control Testing for Contrast-Enhanced Dual Energy Mammography Systems. Lecture Notes in Computer Science, 2014, , 407-414.	1.3	3
22	A quantitative comparison of data evaluation methods to derive diagnostic reference levels for CT from a dosimetric survey: Correlation analysis compared to simple evaluation strategies. Physica Medica, 2013, 29, 470-477.	0.7	8
23	Dose sensitivity of three phantoms used for quality assurance in digital mammography. Physics in Medicine and Biology, 2013, 58, N13-N23.	3.0	11
24	Development and production of a prototype iodine contrast phantom for CEDEM. Physics in Medicine and Biology, 2013, 58, N25-N35.	3.0	11
25	Dose sensitivity of three methods of image quality assessment in digital mammography. Proceedings of SPIE, 2012, , .	0.8	0
26	Dose modulated retrospective ECG-gated versus non-gated 64-row CT angiography of the aorta at the same radiation dose: Comparison of motion artifacts, diagnostic confidence and signal-to-noise-ratios. European Journal of Radiology, 2012, 81, e585-e590.	2.6	34
27	Musculoskeletal imaging with a prototype photon-counting detector. European Radiology, 2012, 22, 205-210.	4.5	0
28	Factors for conversion between human and automatic read-outs of CDMAM images. Medical Physics, 2011, 38, 5090-5093.	3.0	10
29	Feasibility of Dose Reduction Using Needle-Structured Image Plates Versus Powder-Structured Plates for Computed Radiography of the Knee. American Journal of Roentgenology, 2011, 197, W318-W323.	2.2	5
30	Factors for conversion between human and automatic read-outs of CDMAM images. Proceedings of SPIE, 2011, , .	0.8	1
31	Diagnostic reference levels in pediatric radiology in Austria. European Radiology, 2010, 20, 1572-1579.	4.5	39
32	Coronary artery stent imaging with 128-slice dual-source CT using high-pitch spiral acquisition in a cardiac phantom: comparison with the sequential and low-pitch spiral mode. European Radiology, 2010, 20, 2084-2091.	4.5	28
33	IMAGE QUALITY AND STABILITY OF IMAGE GUIDED RADIOTHERAPY (IGRT) DEVICES: AN INTERCOMPARISON STUDY. Radiotherapy and Oncology, 2009, 92, S130.	0.6	0
34	Image quality and stability of image-guided radiotherapy (IGRT) devices: A comparative study. Radiotherapy and Oncology, 2009, 93, 1-7.	0.6	70
35	High-resolution CT of transplanted teeth: imaging technique and measurement accuracy. European Radiology, 2008, 18, 2975-2980.	4.5	5
36	In vitro imaging of coronary artery stents: Are there differences between 16- and 64-slice CT scanners?. European Journal of Radiology, 2008, 68, 465-470.	2.6	8

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37	Adapted preparation technique for screw-type implants: explorative in vitro pilot study in a porcine bone model. <i>Clinical Oral Implants Research</i> , 2007, 18, 103-107.	4.5	30
38	Rigid 2D/3D slice-to-volume registration and its application on fluoroscopic CT images. <i>Medical Physics</i> , 2006, 34, 246-255.	3.0	40
39	Wobbled splatting—a fast perspective volume rendering method for simulation of x-ray images from CT. <i>Physics in Medicine and Biology</i> , 2005, 50, N73-N84.	3.0	59
40	Fast DRR Generation for 2D/3D Registration. <i>Lecture Notes in Computer Science</i> , 2005, 8, 960-967.	1.3	11
41	CT Density Measurements for Characterization of Adrenal Tumors Ex Vivo: Variability Among Three CT Scanners. <i>American Journal of Roentgenology</i> , 2004, 182, 671-675.	2.2	39
42	Correlation of insertion torques with bone mineral density from dental quantitative CT in the mandible. <i>Clinical Oral Implants Research</i> , 2003, 14, 616-620.	4.5	118
43	Impact of Ambient Light and Window Settings on the Detectability of Catheters on Soft-Copy Display of Chest Radiographs at Bedside. <i>American Journal of Roentgenology</i> , 2003, 181, 1415-1421.	2.2	26
44	Bone Mineral Density Measurement with Dental Quantitative CT Prior to Dental Implant Placement in Cadaver Mandibles: Pilot Study. <i>Radiology</i> , 2002, 224, 247-252.	7.3	95
45	A head-mounted operating binocular for augmented reality visualization in medicine - design and initial evaluation. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 991-997.	8.9	149
46	Production of phantom materials using polymer powder sintering under vacuum. <i>Physics in Medicine and Biology</i> , 2002, 47, N47-N52.	3.0	16
47	Temperature dependence of HU values for various water equivalent phantom materials. <i>Physics in Medicine and Biology</i> , 2002, 47, 2917-2923.	3.0	25
48	Optimization of the composition of phantom materials for computed tomography. <i>Physics in Medicine and Biology</i> , 2002, 47, 2907-2916.	3.0	19
49	<title>Calibration of projection parameters in the variscope AR, a head-mounted display for augmented-reality visualization in image-guided therapy</title>. , 2001, , .		9
50	Local calibrated bone mineral density in the mandible presented using a color coding scheme. <i>Medical Engineering and Physics</i> , 2001, 23, 673-677.	1.7	11
51	In-vitro assessment of a registration protocol for image guided implant dentistry. <i>Clinical Oral Implants Research</i> , 2001, 12, 69-78.	4.5	86
52	A modular software system for computer-aided surgery and its first application in oral implantology. <i>IEEE Transactions on Medical Imaging</i> , 2000, 19, 616-620.	8.9	54
53	Corneal Lathing Using the Excimer Laser and a Computer-controlled Positioning System. <i>Journal of Refractive Surgery</i> , 2000, 16, 23-31.	2.3	7
54	Phase structure and graviton propagators in lattice formulations of four-dimensional quantum gravity. <i>Classical and Quantum Gravity</i> , 1999, 16, 1163-1173.	4.0	10

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55	Laser shaping of corneal transplants in vitro: area ablation with small overlapping laser spots produced by a pulsed scanning laser beam using an optimizing ablation algorithm. Physics in Medicine and Biology, 1999, 44, 1169-1180.	3.0	5
56	HERSTELLUNG VON HOCHPRÄZISEN HORNHAUTTRANSPLANTATEN MIT DEM EXCIMER LASER. Biomedizinische Technik, 1998, 43, 189-191.	0.8	0
57	Development and clinical application of excimer laser corneal shaping. , 1998, 3246, 144.		0
58	Correlation functions in lattice formulations of quantum gravity. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 735-738.	0.4	6
59	A spin approach to four dimensional quantum gravity. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 769-772.	0.4	2
60	The phase structure of pure Regge gravity. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 625-628.	0.4	5
61	Quantum gravity and spin systems. Nuclear Physics, Section B, Proceedings Supplements, 1995, 42, 710-712.	0.4	7
62	Matrix effects of secondary neutrals: Laser postionization investigations of particles sputtered from clean and oxidized metals. Physical Review B, 1995, 51, 4665-4667.	3.2	6
63	Current status of the Varioscope AR, a head-mounted operating microscope for computer-aided surgery. , 0, , .		4