Aldo Badano

List of Publications by Year
in descending order

220 papers	3,060 citations	201674 27 h-index	206112 48 g-index
227 all docs	227 docs citations	227 times ranked	2086 citing authors

#	Article	IF	Citations
1	FDA fosters innovative approaches in research, resources and collaboration. Nature Machine Intelligence, 2022, 4, 97-98.	16.0	2
2	Evaluation Challenges for the Application of Extended Reality Devices in Medicine. Journal of Digital Imaging, 2022, 35, 1409-1418.	2.9	21
3	Feasibility of imaging amyloid in the brain using small-angle x-ray scattering. Biomedical Physics and Engineering Express, 2021, 7, 015008.	1.2	9
4	Color Rendering in Medical Extended-Reality Applications. Journal of Digital Imaging, 2021, 34, 16-26.	2.9	11
5	In silico imaging clinical trials: cheaper, faster, better, safer, and more scalable. Trials, 2021, 22, 64.	1.6	18
6	Quantitative assessment of color tracking and gray tracking in color displays. Color Research and Application, 2021, 46, 774-782.	1.6	0
7	Mammography and breast tomosynthesis simulator for virtual clinical trials. Computer Physics Communications, 2021, 261, 107779.	7.5	23
8	Beam orientation optimization for coherent X-ray scattering from distributed deep targets. BioMedical Engineering OnLine, 2021, 20, 92.	2.7	0
9	Feasibility of a label-free X-ray method to estimate brain amyloid load in small animals. Journal of Neuroscience Methods, 2020, 343, 108822.	2.5	2
10	Practical application of AAPM Report 270 in display quality assurance: A report of Task Group 270. Medical Physics, 2020, 47, e920-e928.	3.0	9
11	Label-free X-ray estimation of brain amyloid burden. Scientific Reports, 2020, 10, 20505.	3.3	5
12	Labelâ€free Xâ€ray technique for distinguishing 5XFAD from wildâ€type mice. Alzheimer's and Dementia, 2020, 16, e043608.	0.8	1
13	Small-angle X-ray scattering characterization of a $$eta $$-amyloid model in phantoms. BMC Research Notes, 2020, 13, 128.	1.4	4
14	Characterization of materials embedded in thick objects using spectral small-angle x-ray scattering. Journal Physics D: Applied Physics, 2020, 53, 245302.	2.8	7
15	Computational reader design and statistical performance evaluation of an in-silico imaging clinical trial comparing digital breast tomosynthesis with full-field digital mammography. Journal of Medical Imaging, 2020, 7, 1.	1.5	8
16	Identification of amyloid plaques in the brain using an x-ray photon-counting strip detector. PLoS ONE, 2020, 15, e0228720.	2.5	6
17	Reducing the Memory Requirements of High Resolution Voxel Phantoms by Means of a Binary Tree Data Structure. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 76-82.	3.7	6
18	Technical Note: In silico imaging tools from the VICTRE clinical trial. Medical Physics, 2019, 46, 3924-3928.	3.0	24

#	Article	IF	Citations
19	Assessing color performance of wholeâ€slide imaging scanners for digital pathology. Color Research and Application, 2019, 44, 322-334.	1.6	17
20	Reducing overfitting of a deep learning breast mass detection algorithm in mammography using synthetic images. , 2019, , .		6
21	Transverse chromatic aberration in virtual reality head-mounted displays. Optics Express, 2019, 27, 24877.	3.4	22
22	Virtual clinical trial for task-based evaluation of a deep learning synthetic mammography algorithm. , 2019, , .		5
23	Quantitative Assessment of Color Tracking and Gray Tracking in Color Medical Displays. Color and Imaging Conference, 2019, 2019, 349-354.	0.2	1
24	Stable gelatin-based phantom materials with tunable x-ray attenuation properties and 3D printability for x-ray imaging. Physics in Medicine and Biology, 2018, 63, 09NT01.	3.0	21
25	Technical Note: On the efficiency of variance reduction techniques for Monte Carlo estimates of imaging noise. Medical Physics, 2018, 45, 629-634.	3.0	3
26	P2â€368: SAXS IMAGING OF AMYLOID AGGREGATES IN HUMANS WITHOUT CONTRAST AGENT. Alzheimer's and Dementia, 2018, 14, P834.	0.8	2
27	Evaluation of Digital Breast Tomosynthesis as Replacement of Full-Field Digital Mammography Using an In Silico Imaging Trial. JAMA Network Open, 2018, 1, e185474.	5.9	121
28	Modeling charge transport in photon-counting detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 899, 115-121.	1.6	4
29	Method for Adapting the Grayscale Standard Display Function to the Aging Eye. Journal of Digital Imaging, 2017, 30, 17-25.	2.9	1
30	Optimization of digital breast tomosynthesis (DBT) acquisition parameters for human observers: effect of reconstruction algorithms. Physics in Medicine and Biology, 2017, 62, 2598-2611.	3.0	21
31	â€œHow much realism is needed?â€•â€" the wrong question in silico imagers have been asking. Medical Physics, 2017, 44, 1607-1609.	3.0	7
32	Small-angle x-ray scattering cross-section measurements of imaging materials. Biomedical Physics and Engineering Express, 2017, 3, 025023.	1.2	1
33	Technical Note: Detective quantum efficiency simulation of aâ€Se imaging detectors using ARTEMIS. Medical Physics, 2017, 44, 4035-4039.	3.0	0
34	Modelling the transport of optical photons in scintillation detectors for diagnostic and radiotherapy imaging. Physics in Medicine and Biology, 2017, 62, R207-R235.	3.0	24
35	Structural evaluation of an amyloid fibril model using small-angle x-ray scattering. Physical Biology, 2017, 14, 046001.	1.8	15
36	Depth-of-interaction estimates in pixelated scintillator sensors using Monte Carlo techniques. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 841, 117-123.	1.6	2

#	Article	IF	Citations
37	Planar small-angle x-ray scattering imaging of phantoms and biological samples. Applied Physics Letters, 2017, 110, .	3.3	5
38	In silico imaging clinical trials for regulatory evaluation: initial considerations for VICTRE, a demonstration study. Proceedings of SPIE, 2017, , .	0.8	9
39	Small-angle X-ray scattering characteristics of mouse brain: Planar imaging measurements and tomographic imaging simulations. PLoS ONE, 2017, 12, e0186451.	2.5	3
40	Evaluating color performance of whole-slide imaging devices by multispectral-imaging of biological tissues. Proceedings of SPIE, 2017, , .	0.8	0
41	Display for Medical Imaging and DICOM Grayscale Standard Display Function Fundamentals. , 2017, , 1283-1296.		0
42	Monte Carlo X-ray transport simulation of small-angle X-ray scattering instruments using measured sample cross sections. Journal of Applied Crystallography, 2016, 49, 188-194.	4.5	9
43	Does energy non-linearity affect noise estimates from Monte Carlo simulations of X-ray imaging detectors?. , 2016, , .		0
44	DQE simulation of a-Se x-ray detectors using ARTEMIS. Proceedings of SPIE, 2016, , .	0.8	1
45	Technical Note: Gray tracking in medical color displays-A report of Task Group 196. Medical Physics, 2016, 43, 4017-4022.	3.0	4
46	Method to study sample object size limit of small-angle x-ray scattering computed tomography. Proceedings of SPIE, 2016, , .	0.8	1
47	Alzheimer's disease imaging biomarkers using small-angle x-ray scattering. Proceedings of SPIE, 2016, , .	0.8	1
48	Theoretical and Monte Carlo optimization of a stacked three-layer flat-panel x-ray imager for applications in multi-spectral diagnostic medical imaging. Proceedings of SPIE, 2016, 9783, .	0.8	4
49	WE-DE-207B-07: Hotelling Templates Without Additional Training Data for Breast Tomosynthesis Observer Models. Medical Physics, 2016, 43, 3818-3819.	3.0	0
50	Small-angle X-ray scattering method to characterize molecular interactions: Proof of concept. Scientific Reports, 2015, 5, 12085.	3.3	33
51	Effect of color visualization and display hardware on the visual assessment of pseudocolor medical images. Medical Physics, 2015, 42, 2942-2954.	3.0	9
52	Light output measurements and computational models of microcolumnar CsI scintillators for xâ€ray imaging. Medical Physics, 2015, 42, 600-605.	3.0	19
53	Consistency and Standardization of Color in Medical Imaging: a Consensus Report. Journal of Digital Imaging, 2015, 28, 41-52.	2.9	78
54	Monte Carlo reference data sets for imaging research: Executive summary of the report of AAPM Research Committee Task Group 195. Medical Physics, 2015, 42, 5679-5691.	3.0	76

#	Article	IF	Citations
55	Computational observers and visualization methods for stereoscopic medical imaging. Optics Express, 2014, 22, 22246.	3.4	4
56	Analytic variance estimates of Swank and Fano factors. Medical Physics, 2014, 41, 072102.	3.0	3
57	Sharpness and noise characteristics of a halfâ€mirror stereoscopic display. Journal of the Society for Information Display, 2014, 22, 170-176.	2.1	2
58	Characterizing the reflectivity of handheld display devices. Medical Physics, 2014, 41, 081909.	3.0	0
59	Effect of Veiling Glare on Detectability in High-Dynamic-Range Medical Images. Journal of Display Technology, 2014, 10, 420-428.	1.2	6
60	The Effect of Ambient Illumination on Handheld Display Image Quality. Journal of Digital Imaging, 2014, 27, 12-18.	2.9	18
61	Characterization of crosstalk in stereoscopic display devices. Journal of the Society for Information Display, 2014, 22, 613-622.	2.1	2
62	Web-based, GPU-accelerated, Monte Carlo simulation and visualization of indirect radiation imaging detector performance. Medical Physics, 2014, 41, 121907.	3.0	1
63	Monte Carlo Modeling of the DQE of a-Se X-Ray Detectors for Breast Imaging. Lecture Notes in Computer Science, 2014, , 387-393.	1.3	0
64	Assessing color reproducibility of whole-slide imaging scanners. Proceedings of SPIE, 2013, , .	0.8	7
65	Uncertainty of Monte Carlo variance estimates: application to the simulation of x-ray imaging detectors. Proceedings of SPIE, 2013, , .	0.8	1
66	A compendium of publicly available Monte Carlo transport codes (including new tools) for the simulation of radiation imaging detectors. , 2013, , .		0
67	GOTHIC. , 2013, , .		1
68	Spatial resolution and noise in organic light-emitting diode displays for medical imaging applications. Optics Express, 2013, 21, 28111.	3.4	6
69	A real-time radiation dose monitoring system for patients and staff during interventional fluoroscopy using a GPU-accelerated Monte Carlo simulator and an automatic 3D localization system based on a depth camera. Proceedings of SPIE, 2013, , .	0.8	9
70	Effect of burst and recombination models for Monte Carlo transport of interacting carriers in a-Se x-ray detectors on Swank noise. Medical Physics, 2013, 41, 011904.	3.0	4
71	30.3: Comparison of On-Screen Display-based and ICC Profile-based Calibration for OLED Displays. Digest of Technical Papers SID International Symposium, 2013, 44, 376-379.	0.3	1
72	33.2: Spatial Resolution Characteristics of Organic Lightâ€emitting Diode Displays: A comparative Analysis of MTF for Handheld and Workstation Formats. Digest of Technical Papers SID International Symposium, 2013, 44, 419-422.	0.3	6

#	Article	IF	Citations
73	Spatial resolution characteristics of a-Se imaging detectors using Monte Carlo methods with detailed spatiotemporal transport of x-rays, electrons, and electron-hole pairs under applied bias. , 2013, , .		0
74	Validation of columnar CsI xâ€ray detector responses obtained with hybrid<scp>MANTIS</scp>, a CPUâ€GPU Monte Carlo code for coupled xâ€ray, electron, and optical transport. Medical Physics, 2013, 40, 031907.	3.0	11
75	Image Quality Characteristics of Handheld Display Devices for Medical Imaging. PLoS ONE, 2013, 8, e79243.	2.5	18
76	Tablets and Other Handheld Display Devices for Medical Imaging: An Imageâ€Quality Perspective. Information Display, 2013, 29, 24-28.	0.2	1
77	Volumetric detection tasks with varying complexity: human observer performance. , 2012, , .		5
78	Predicting Perceived Image Quality: A Critique of Lin and Kuo (2011). Perceptual and Motor Skills, 2012, 114, 236-238.	1.3	2
79	Spatio-temporal Monte Carlo modeling of a-Se detectors for breast imaging: energy-weighted Swank noise and detective quantum efficiency. Proceedings of SPIE, 2012, , .	0.8	0
80	Impact of solid-state lighting on observer performance of color discrimination. , 2012, , .		0
81	A GPU-optimized binary space partition structure to accelerate the Monte Carlo simulation of CT projections of voxelized patient models with metal implants. , 2012, , .		2
82	Computational observer approach for the assessment of stereoscopic visualizations for 3D medical images. Proceedings of SPIE, 2012, , .	0.8	3
83	Reader behavior in a detection task using single- and multislice image datasets. , 2012, , .		0
84	An image-dependent model of veiling glare effects on detection performance in large-luminance-range displays. , 2012, , .		3
85	Visual methods for determining ambient illumination conditions when viewing medical images in mobile display devices. Journal of the Society for Information Display, 2012, 20, 124-132.	2.1	8
86	Does Veiling Glare in the Human Eye Hinder Detection in High-Dynamic-Range Displays?. Journal of Display Technology, 2012, 8, 273-282.	1.2	6
87	60.2: Minimizing Veiling Glare in the High-Luminance-Range Visualization of Medical Images. Digest of Technical Papers SID International Symposium, 2012, 43, 816-819.	0.3	0
88	hybrid$scriptsize{mathrm{MANTIS}}$: a CPUâ€"GPU Monte Carlo method for modeling indirect x-ray detectors with columnar scintillators. Physics in Medicine and Biology, 2012, 57, 2357-2372.	3.0	15
89	Monte Carlo Simulation of a-Se X-ray Detectors for Breast Imaging: Effect of Nearest-Neighbor Recombination Algorithm on Swank Noise. Lecture Notes in Computer Science, 2012, , 575-582.	1.3	2
90	Characterization of Spatial Luminance Noise in Stereoscopic Displays for Breast Imaging. Lecture Notes in Computer Science, 2012, , 220-227.	1.3	0

#	Article	IF	Citations
91	24.2: Estimating the Perceptual Limits of Mobile Displays. Digest of Technical Papers SID International Symposium, 2011, 42, 305-308.	0.3	1
92	Channelized Hotelling observers for the assessment of volumetric imaging data sets. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1145.	1.5	84
93	Part 1: Emerging Topics in Medical Displays. Information Display, 2011, 27, 24-26.	0.2	0
94	Part 2: Pre-Clinical Assessment of Medical Displays for Regulatory Evaluation. Information Display, 2011, 27, 28-31.	0.2	0
95	Fast Simulation of Radiographic Images Using a Monte Carlo X-Ray Transport Algorithm Implemented in CUDA. , 2011, , 813-829.		3
96	Oblique incidence effects in direct xâ€ray detectors: A firstâ€order approximation using a physicsâ€based analytical model. Medical Physics, 2011, 38, 2095-2098.	3.0	22
97	Spatiotemporal Monte Carlo transport methods in x-ray semiconductor detectors: Application to pulse-height spectroscopy in a-Se. Medical Physics, 2011, 39, 308-319.	3.0	19
98	70.2: Virtual Display: A Platform for Evaluating Display Color Calibration Kits. Digest of Technical Papers SID International Symposium, 2011, 42, 1030-1033.	0.3	4
99	31.3: Experimental Methodology to Measure the Veiling Glare Limit for Detection Tasks in High-Dynamic-Range Displays. Digest of Technical Papers SID International Symposium, 2011, 42, 416-419.	0.3	0
100	P-40: Suite Mobile: A Lab for Studying Mobile Displays in Motion. Digest of Technical Papers SID International Symposium, 2011, 42, 1245-1248.	0.3	0
101	Development and characterization of a dynamic lesion phantom for the quantitative evaluation of dynamic contrast-enhanced MRI. Medical Physics, 2011, 38, 5601-5611.	3.0	13
102	An anthropomorphic phantom for quantitative evaluation of breast MRI. Medical Physics, 2011, 38, 743-753.	3.0	35
103	In silico imaging: Definition, possibilities and challenges. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S276-S280.	1.6	6
104	X-ray properties of an anthropomorphic breast phantom for MRI and x-ray imaging. Physics in Medicine and Biology, 2011, 56, 3513-3533.	3.0	23
105	Recombination models for spatio-temporal Monte Carlo transport of interacting carriers in semiconductors. Applied Physics Letters, 2011, 98, 242111.	3.3	7
106	Channelized Hotelling observers for signal detection in stack-mode reading of volumetric images on medical displays with slow response time. , 2011, , .		0
107	Observer variability in the interpretation of HER2/neu immunohistochemical expression with unaided and computer-aided digital microscopy. Archives of Pathology and Laboratory Medicine, 2011, 135, 233-42.	2.5	46
108	10.1063/1.3599602.1. , 2011, , .		1

#	Article	IF	Citations
109	Observer Variability in the Interpretation of HER2/neu Immunohistochemical Expression With Unaided and Computer-Aided Digital Microscopy. Archives of Pathology and Laboratory Medicine, 2011, 135, 233-242.	2.5	106
110	WE-G-110-06: Introduction to the AAPM Task Group No. 195 - Monte Carlo Reference Data Sets for Imaging Research. Medical Physics, 2011, 38, 3834-3834.	3.0	0
111	Part 1: Emerging Topics in Medical Displays. Information Display, 2011, 27, 24-26.	0.2	5
112	Part 2: Pre-Clinical Assessment of Medical Displays for Regulatory Evaluation. Information Display, 2011, 27, 28-31.	0.2	0
113	P-4: A Reconfigurable Stereomicroscopic Imaging System for Digital Pathology. Digest of Technical Papers SID International Symposium, 2010, 41, 1237.	0.3	0
114	A statistical, taskâ€based evaluation method for threeâ€dimensional xâ€ray breast imaging systems using variableâ€background phantoms. Medical Physics, 2010, 37, 6253-6270.	3.0	56
115	A fast, angle-dependent, analytical model of CsI detector response for optimization of 3D x-ray breast imaging systems. Medical Physics, 2010, 37, 2593-2605.	3.0	37
116	Using channelized Hotelling observers to quantify temporal effects of medical liquid crystal displays on detection performance. Proceedings of SPIE, 2010, , .	0.8	6
117	Comparing experimental measurements of indirect x-ray detector responses with Monte Carlo predictions: figures of merit and model development. Proceedings of SPIE, 2010, , .	0.8	0
118	Task specific evaluation of clinical full field digital mammography systems using the Fourier definition of the Hotelling observer SNR. Proceedings of SPIE, 2010, , .	0.8	1
119	A gaze-contingent high-dynamic range display for medical imaging applications. , 2010, , .		7
120	Monte Carlo simulation of amorphous selenium imaging detectors. , 2010, , .		9
121	Fast cardiac CT simulation using a graphics processing unit-accelerated Monte Carlo code. , 2010, , .		6
122	MOâ€Bâ€201Câ€01: Color Monitors for Medical Workstations. Medical Physics, 2010, 37, 3337-3337.	3.0	0
123	Channelized hotelling observers for the detection of 2D signals in 3D simulated images. , 2009, , .		2
124	Monte Carlo simulation of X-ray imaging using a graphics processing unit. , 2009, , .		20
125	Accelerating Monte Carlo simulations of photon transport in a voxelized geometry using a massively parallel graphics processing unit. Medical Physics, 2009, 36, 4878-4880.	3.0	264
126	Accurate color measurement methods for medical displays. Medical Physics, 2009, 37, 74-81.	3.0	4

#	Article	IF	Citations
127	Effect of Oblique X-ray Incidence in Flat-Panel Computed Tomography of the Breast. IEEE Transactions on Medical Imaging, 2009, 28, 696-702.	8.9	12
128	Incorporating Human Contrast Sensitivity in Model Observers for Detection Tasks. IEEE Transactions on Medical Imaging, 2009, 28, 339-347.	8.9	33
129	penMeshâ€"Monte Carlo Radiation Transport Simulation in a Triangle Mesh Geometry. IEEE Transactions on Medical Imaging, 2009, 28, 1894-1901.	8.9	40
130	Effect of slow display on detectability when browsing large image datasets. Journal of the Society for Information Display, 2009, 17, 891-896.	2.1	5
131	Experimental validation of Monte Carlo (<scp>MANTIS</scp>) simulated xâ€ray response of columnar CsI scintillator screens. Medical Physics, 2009, 36, 4944-4956.	3.0	24
132	A task-based evaluation method for x-ray breast imaging systems using variable-background phantoms. , 2009, , .		4
133	SKE/BKE task-based methodology for calculating Hotelling observer SNR in mammography. , 2009, , .		3
134	Estimating breast tomosynthesis performance in detection tasks with variable-background phantoms. Proceedings of SPIE, 2009, , .	0.8	16
135	Noise and signal detection in digital x-ray detectors using the spatial definition of SNR. , 2009, , .		5
136	Assessment of Mobile Technologies for Displaying Medical Images. Journal of Display Technology, 2008, 4, 415-423.	1.2	4
137	Assessment of display temporal response using a computational observer. Journal of the Society for Information Display, 2008, 16, 21.	2.1	1
138	Monte Carlo simulation of a realistic anatomical phantom described by triangle meshes: Application to prostate brachytherapy imaging. Radiotherapy and Oncology, 2008, 86, 99-103.	0.6	14
139	Image Browsing in Slow Medical Liquid Crystal Displays. Academic Radiology, 2008, 15, 370-382.	2.5	21
140	Feasibility study for photon counting detector for high resolution pre clinical SPECT. , 2008, , .		0
141	An efficient depth- and energy-dependent Monte Carlo model for columnar CsI detectors. , 2008, , .		2
142	Assessment of temporal display using observers. Proceedings of SPIE, 2008, , .	0.8	0
143	Characterization and simulation of linear scintillator arrays for low-energy x-ray detection. Measurement Science and Technology, 2008, 19, 115504.	2.6	2
144	Singular value description of a digital radiographic detector: Theory and measurements. Medical Physics, 2008, 35, 4744-4756.	3.0	13

#	Article	IF	Citations
145	P-244L: Late-News Poster: Noise and Resolution in a Dual-Layer LCD. Digest of Technical Papers SID International Symposium, 2008, 39, 1537.	0.3	0
146	Guest Editorial Special Issue on Medical Display. Journal of Display Technology, 2008, 4, 354-355.	1.2	3
147	73.5L: Late-News Paper: Observer Strategies for Assessment of Temporal Response â€" Effect of Technology. Digest of Technical Papers SID International Symposium, 2008, 39, 1142.	0.3	0
148	Display methods for adjustable grayscale and luminance depth. Proceedings of SPIE, 2008, , .	0.8	1
149	Characterization of the linear scintillator array signal response as a function of x-ray impact parameter. , 2007, , .		0
150		3.0	21
151	A method to estimate the point response function of digital x-ray detectors from edge measurements. , 2007, , .		5
152	Effect of slow display on stack-mode reading of volumetric image datasets using an anthropomorphic observer. , 2007, , .		0
153	Accurate color measurement methods for medical displays. , 2007, , .		1
154	Monte Carlo package for simulating radiographic images of realistic anthropomorphic phantoms described by triangle meshes. , 2007, , .		9
155	15.2:Distinguished Paper: Assessment of Temporal Blur-Reduction Methods Using a Computational Observer that Predicts Human Performance. Digest of Technical Papers SID International Symposium, 2007, 38, 967-970.	0.3	1
156	A contrast-sensitive channelized-Hotelling observer to predict human performance in a detection task using lumpy backgrounds and Gaussian signals. , 2007, , .		2
157	Validation of simulated point response of columnar phosphor screens. , 2007, , .		1
158	Monte Carlo simulated coronary angiograms of realistic anatomy and pathology models. , 2007, , .		5
159	Quantitative exploration of performance enhancements offered by active matrix x-ray imagers fabricated on plastic substrates. , 2007, , .		1
160	Efficiency of the human observer for detecting a Gaussian signal at a known location in non-Gaussian distributed lumpy backgrounds. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 911.	1.5	15
161	Characterization of mobile display systems for use in medical imaging. , 2007, , .		2
162	Anisotropic imaging performance in breast tomosynthesis. Medical Physics, 2007, 34, 4076-4091.	3.0	35

#	Article	IF	Citations
163	Evaluation of high-resolution and mobile display systems for digital radiology in dark and bright environments using human and computational observers. Journal of the Society for Information Display, 2007, 15, 357.	2.1	5
164	Display considerations for quantitative radiology. Drug Discovery Today: Technologies, 2007, 4, 29-32.	4.0	0
165	Digital Mammography Image Quality: Image Display. Journal of the American College of Radiology, 2006, 3, 615-627.	1.8	32
166	Detectability Decreases With Off-Normal Viewing in Medical Liquid Crystal Displays. Academic Radiology, 2006, 13, 210-218.	2.5	11
167	Introduction: Special Section on Image Quality Assessment Methods for the Design and Optimization of Display Systems. Journal of the Society for Information Display, 2006, 14, 829.	2.1	0
168	Color measurement methods for medical displays. Journal of the Society for Information Display, 2006, 14, 979.	2.1	4
169	MANTIS: combined x-ray, electron and optical Monte Carlo simulations of indirect radiation imaging systems. Physics in Medicine and Biology, 2006, 51, 1545-1561.	3.0	70
170	Human efficiency for detecting Gaussian signals in non-Gaussian distributed lumpy backgrounds using different display characteristics and scaling methods. , 2006, , .		1
171	Temporal response measurements of medical liquid crystal displays. , 2006, 6141, 247.		1
172	9.2: Temporal and Color Measurements in Medical Displays. Digest of Technical Papers SID International Symposium, 2006, 37, 97.	0.3	0
173	Three-dimensional columnar CsI model for x-ray imaging system simulations using MANTIS: validating for noise, blur, and light output. , 2006, 6142, 296.		1
174	Visual Assessment of Angular Response in Medical Liquid Crystal Displays. Journal of Digital Imaging, 2006, 19, 240-248.	2.9	2
175	A practical method for measuring the H matrix of digital x-ray and cone beam CT imaging systems. , 2006, 6142, 652.		8
176	Precision of gray level response time measurements of medical liquid crystal display. Review of Scientific Instruments, 2006, 77, 065104.	1.3	13
177	Anisotropic imaging performance in indirect x-ray imaging detectors. Medical Physics, 2006, 33, 2698-2713.	3.0	33
178	Statistics of the scintillation output using a combined x-ray/electron/optical Monte Carlo method. , 2005, 5745, 361.		4
179	13.2: Viewing Angle Comparison of IPS and VA Medical AMLCDs. Digest of Technical Papers SID International Symposium, 2005, 36, 192.	0.3	7
180	Visual detection with non-Lambertian displays: model and human observer results. , 2005, , .		3

#	Article	IF	Citations
181	Combined x-ray/electron/optical Monte Carlo code based on PENELOPE and DETECT-II. , 2005, , .		4
182	Assessment of display performance for medical imaging systems: Executive summary of AAPM TG18 report. Medical Physics, 2005, 32, 1205-1225.	3.0	290
183	AAPM/RSNA Tutorial on Equipment Selection: PACS Equipment Overview. Radiographics, 2004, 24, 313-334.	3.3	62
184	An energy- and depth-dependent model for x-ray imaging. Medical Physics, 2004, 31, 3132-3149.	3.0	23
185	Goniometric and conoscopic measurements of angular display contrast for one-, three-, five-, and nine-million-pixel medical liquid crystal displays. Medical Physics, 2004, 31, 3452-3460.	3.0	14
186	Noise in flat-panel displays with subpixel structure. Medical Physics, 2004, 31, 715-723.	3.0	29
187	Lubberts effect in columnar phosphors. Medical Physics, 2004, 31, 3122-3131.	3.0	55
188	Monte Carlo simulation of a CsI-based flat-panel imager for mammography. , 2004, 5368, 411.		2
189	AAPM/RSNA Tutorial on Equipment Selection: PACS Equipment Overview. Radiographics, 2004, 24, 879-889.	3.3	41
190	Monte Carlo Modeling of the Light Transport in Polymer Light-Emitting Devices on Plastic Substrates. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 37-44.	2.9	12
191	Effect of Viewing Angle on Luminance and Contrast for a Five-Million-Pixel Monochrome Display and a Nine-Million-Pixel Color Liquid Crystal Display. Journal of Digital Imaging, 2004, 17, 264-270.	2.9	14
192	Comparison of conoscopic, telescopic, and goniometric methods for measuring angular emissions from medical liquid-crystal displays. Applied Optics, 2004, 43, 4999.	2.1	12
193	Optical blur and collection efficiency in columnar phosphors for X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 508, 467-479.	1.6	30
194	Angular dependence of the luminance and contrast in medical monochrome liquid crystal displays. Medical Physics, 2003, 30, 2602-2613.	3.0	40
195	Effect of viewing angle on visual detection in liquid crystal displays. , 2003, , .		10
196	Monte Carlo modeling of organic polymer light-emitting devices on flexible plastic substrates. , 2003, 4800, 156.		9
197	25.1: Luminance Probes for Contrast Measurements in Medical Displays. Digest of Technical Papers SID International Symposium, 2003, 34, 928.	0.3	5
198	Digital indirect-detection x-ray imagers with microlens focusing: effects of Fresnel reflections from the microlens layer. , 2003, , .		1

#	Article	IF	Citations
199	Effect on DQE of screen energy weighting in mammography. , 2003, 5030, 319.		5
200	<title>Characterization of a high-quality monochrome AM-LCD monitor for digital radiology</title>. , 2002, , .		8
201	<title>Assessment of lesion detectability of Monte Carlo modeling of digital radiography systems</title>. , 2002, , .		3
202	<title>Depth-dependent phosphor blur in indirect x-ray imaging sensors</title>. , 2002, 4682, 94.		11
203	<title>Luminance effects on display resolution and noise</title>. , 2002, 4681, 305.		12
204	Modeling the bidirectional reflectance of emissive displays. Applied Optics, 2002, 41, 3847.	2.1	5
205	Accurate small-spot luminance measurements. Displays, 2002, 23, 177-182.	3.7	13
206	<title>Characterization of crosstalk in high-resolution active matrix liquid crystal displays for medical imaging</title>. , 2001, , .		2
207	<title>Color and contrast perception in monochrome medical imaging flat-panel displays</title>. , 2001, 4324, 1.		0
208	<title>Luminance response calibration using multiple display channels</title>. , 2001, , .		1
209	Monte Carlo analysis of the spectral photon emission and extraction efficiency of organic light-emitting devices. Journal of Applied Physics, 2001, 90, 1827-1830.	2.5	35
210	Method for measuring veiling glare in high-performance display devices. Applied Optics, 2000, 39, 2059.	2.1	28
211	High-Fidelity Electronic Display of Digital Radiographs. Radiographics, 1999, 19, 1653-1669.	3.3	53
212	Image quality degradation by light scattering in display devices. Journal of Digital Imaging, 1999, 12, 50-59.	2.9	46
213	Veiling glare point-spread function of medical imaging monitors. , 1999, , .		13
214	Small Spot Contrast Measurements in High Performance Displays. Digest of Technical Papers SID International Symposium, 1999, 30, 516.	0.3	2
215	Monte Carlo Modeling of Glare in Cathode-Ray for Medical Imaging. Digest of Technical Papers SID International Symposium, 1998, 29, 495.	0.3	3
216	<title>Experimental measurements of glare in cathode-ray tubes</title>. , 1998, , .		5

#	Article	IF	Citations
217	<title>Image degradation by glare in radiologic display devices</title>. , 1997, 3031, 222.		10
218	<title>Performance of low-voltage phosphors in emissive flat panel displays for radiologic applications</title>. , 1996, 2707, 312.		2
219	Fingerprint imager based on a-Si:H active-matrix photo-diode arrays. , 0, , .		4
220	Depth-of-interaction effects in columnar phosphors for exponential X-ray absorption. , 0, , .		0