

Taly Gilat Schmidt

List of Publications by Year in descending order

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51
papers

824
citations

623188

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28
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52
all docs

52
docs citations

52
times ranked

704
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal image-based weighting for energy-resolved CT. Medical Physics, 2009, 36, 3018-3027.	1.6	171
2	An algorithm for constrained one-step inversion of spectral CT data. Physics in Medicine and Biology, 2016, 61, 3784-3818.	1.6	118
3	An inverse-geometry volumetric CT system with a large-area scanned source: A feasibility study. Medical Physics, 2004, 31, 2623-2627.	1.6	68
4	CT energy weighting in the presence of scatter and limited energy resolution. Medical Physics, 2010, 37, 1056-1067.	1.6	56
5	A prototype table-top inverse-geometry volumetric CT system. Medical Physics, 2006, 33, 1867-1878.	1.6	45
6	A Spectral CT Method to Directly Estimate Basis Material Maps From Experimental Photon-Counting Data. IEEE Transactions on Medical Imaging, 2017, 36, 1808-1819.	5.4	41
7	Experimental comparison of empirical material decomposition methods for spectral CT. Physics in Medicine and Biology, 2015, 60, 3175-3191.	1.6	39
8	Technical Note: Phantom study to evaluate the dose and image quality effects of a computed tomography organ-based tube current modulation technique. Medical Physics, 2015, 42, 6572-6578.	1.6	28
9	Biplane fluoroscopy for hindfoot motion analysis during gait: A model-based evaluation. Medical Engineering and Physics, 2017, 43, 118-123.	0.8	22
10	Estimating the spectrum in computed tomography via Kullback-Leibler divergence constrained optimization. Medical Physics, 2019, 46, 81-92.	1.6	22
11	Simulated scatter performance of an inverse-geometry dedicated breast CT system. Medical Physics, 2009, 36, 788-796.	1.6	18
12	A three-dimensional reconstruction algorithm for an inverse-geometry volumetric CT system. Medical Physics, 2005, 32, 3234-3245.	1.6	17
13	The effects of extending the spectral information acquired by a photon-counting detector for spectral CT. Physics in Medicine and Biology, 2015, 60, 1583-1600.	1.6	17
14	Quantifying the tibiofemoral joint space using x-ray tomosynthesis. Medical Physics, 2011, 38, 6672-6682.	1.6	16
15	Region-of-interest material decomposition from truncated energy-resolved CT. Medical Physics, 2011, 38, 5657-5666.	1.6	14
16	Experimental investigation of neural network estimator and transfer learning techniques for edge spectral CT imaging. Medical Physics, 2020, 47, 541-551.	1.6	12
17	A fast, linear Boltzmann transport equation solver for computed tomography dose calculation (Acuros CTD). Medical Physics, 2019, 46, 925-933.	1.6	11
18	Addressing CT metal artifacts using photon-counting detectors and one-step spectral CT image reconstruction. Medical Physics, 2022, 49, 3021-3040.	1.6	11

#	ARTICLE	IF	CITATIONS
19	Accuracy of patient-specific organ dose estimates obtained using an automated image segmentation algorithm. <i>Journal of Medical Imaging</i> , 2016, 3, 043502.	0.8	10
20	A database for estimating organ dose for coronary angiography and brain perfusion CT scans for arbitrary spectra and angular tube current modulation. <i>Medical Physics</i> , 2012, 39, 5336-5346.	1.6	8
21	The Performance of MLEM for Dynamic Imaging From Simulated Few-View, Multi-Pinhole SPECT. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 115-123.	1.2	8
22	What is inverse-geometry CT?. <i>Journal of Cardiovascular Computed Tomography</i> , 2011, 5, 145-148.	0.7	7
23	Reducing radiation dose to the female breast during CT coronary angiography: A simulation study comparing breast shielding, angular tube current modulation, reduced kV, and partial angle protocols using an unknown-location signal-detectability metric. <i>Medical Physics</i> , 2013, 40, 081921.	1.6	7
24	Pediatric chestâ€œabdomenâ€œpelvis and abdomenâ€œpelvis CT images with expert organ contours. <i>Medical Physics</i> , 2022, 49, 3523-3528.	1.6	7
25	An empirical method for correcting the detector spectral response in energy-resolved CT. <i>Proceedings of SPIE</i> , 2012, , .	0.8	6
26	Quantifying cross-scatter contamination in biplane fluoroscopy motion analysis systems. <i>Journal of Medical Imaging</i> , 2015, 2, 043503.	0.8	5
27	Experimental study of photon-counting CT neural network material decomposition under conditions of pulse pileup. <i>Journal of Medical Imaging</i> , 2021, 8, 013502.	0.8	5
28	Technical note: Evaluation of a Vâ€œNet autosegmentation algorithm for pediatric CT scans: Performance, generalizability, and application to patientâ€œspecific CT dosimetry. <i>Medical Physics</i> , 2022, 49, 2342-2354.	1.6	5
29	Estimation of organ and effective dose due to Compton backscatter security scans. <i>Medical Physics</i> , 2012, 39, 3396-3403.	1.6	4
30	Deterministic linear Boltzmann transport equation solver for patientâ€œspecific CT dose estimation: Comparison against a Monte Carlo benchmark for realistic scanner configurations and patient models. <i>Medical Physics</i> , 2020, 47, 6470-6483.	1.6	4
31	Dedicated Breast CT: Current Status and New Directions. <i>Current Medical Imaging</i> , 2010, 6, 61-71.	0.4	4
32	<scp>CT</scp> automated exposure control using a generalized detectability index. <i>Medical Physics</i> , 2019, 46, 140-151.	1.6	3
33	Preliminary feasibility of dedicated breast CT with an inverse geometry. <i>Proceedings of SPIE</i> , 2009, , .	0.8	2
34	The effects of gantry tilt on breast dose and image noise in cardiac CT. <i>Medical Physics</i> , 2013, 40, 121905.	1.6	2
35	Future Prospects of Spectral CT: Photon Counting. , 2020, , 269-286.		2
36	Multi-pinhole dynamic SPECT imaging: simulation and system optimization. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1

#	ARTICLE	IF	CITATIONS
37	A compressed sensing algorithm for sparse-view pinhole Single Photon Emission Computed Tomography. , 2011, , .		1
38	Experimental study of two material decomposition methods using multi-bin photon counting detectors. Proceedings of SPIE, 2014, , .	0.8	1
39	Investigation of a one-step spectral CT reconstruction algorithm for direct inversion into basis material images. Proceedings of SPIE, 2015, , .	0.8	1
40	Evaluation of spectral CT data acquisition methods via non-stochastic variance maps. , 2015, , .		1
41	Comparison of quantitative k-edge empirical estimators using an energy-resolved photon-counting detector. Proceedings of SPIE, 2016, , .	0.8	1
42	Alternating Minimization Based Framework for Simultaneous Spectral Calibration and Image Reconstruction in Spectral CT. , 2018, , .		1
43	Validation of a deterministic linear Boltzmann transport equation solver for rapid CT dose computation using physical dose measurements in pediatric phantoms. Medical Physics, 2021, , .	1.6	1
44	Reply to "Comment on "An inverse-geometry volumetric CT system with a large-area scanned source: A feasibility study" [Med. Phys. 32, 635 (2005)]. Medical Physics, 2005, 32, 636-636.	1.6	0
45	Response to "Comment on "Estimation of organ and effective dose due to Compton backscatter security scans" [Med. Phys., 39, 3396 (2012)]. Medical Physics, 2012, 39, 5785-5787.	1.6	0
46	A first-order primal-dual reconstruction algorithm for few-view SPECT. , 2012, , .		0
47	Quantifying cross scatter in biplane fluoroscopy motion analysis systems. Proceedings of SPIE, 2013, , .	0.8	0
48	Effects of energy-bin acquisition methods on noise properties in photon-counting spectral CT. Proceedings of SPIE, 2014, , .	0.8	0
49	Task-based detectability comparison of exponential transformation of free-response operating characteristic (EFROC) curve and channelized Hotelling observer (CHO). Proceedings of SPIE, 2016, , .	0.8	0
50	Estimation of changing gross tumor volume from longitudinal CTs during radiation therapy delivery based on a texture analysis with classifier algorithms: a proof-of-concept study. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1189-1200.	1.1	0
51	Reduced Chest Computed Tomography Scan Length for Patients Positive for Coronavirus Disease 2019: Dose Reduction and Impact on Diagnostic Utility. Journal of Computer Assisted Tomography, 2022, Publish Ahead of Print, .	0.5	0