Timothy P Szczykutowicz

List of Publications by Year
in descending order

42	579	687220 13	642610 23
papers	citations	h-index	g-index

43	43	43	567
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dual energy CT using slow kVp switching acquisition and prior image constrained compressed sensing. Physics in Medicine and Biology, 2010, 55, 6411-6429.	1.6	89
2	Design of a digital beam attenuation system for computed tomography: Part I. System design and simulation framework. Medical Physics, 2013, 40, 021905.	1.6	50
3	Variation in CT Number and Image Noise Uniformity According to Patient Positioning in MDCT. American Journal of Roentgenology, 2017, 208, 1064-1072.	1.0	42
4	Design of a digital beam attenuation system for computed tomography. Part II. Performance study and initial results. Medical Physics, 2013, 40, 021906.	1.6	37
5	Evaluation of <scp>AAPM</scp> Reports 204 and 220: Estimation of effective diameter, waterâ€equivalent diameter, and ellipticity ratios for chest, abdomen, pelvis, and head <scp>CT</scp> scans. Journal of Applied Clinical Medical Physics, 2018, 19, 228-238.	0.8	36
6	A method to extract image noise level from patient images in CT. Medical Physics, 2017, 44, 2173-2184.	1.6	29
7	Hi-Res scan mode in clinical MDCT systems: Experimental assessment of spatial resolution performance. Medical Physics, 2016, 43, 2399-2409.	1.6	25
8	Protocol Optimization Considerations for Implementing Deep Learning CT Reconstruction. American Journal of Roentgenology, 2021, 216, 1668-1677.	1.0	23
9	CT protocol management: simplifying the process by using a master protocol concept. Journal of Applied Clinical Medical Physics, 2015, 16, 228-243.	0.8	19
10	CT is still not a lowâ€dose imaging modality. Medical Physics, 2020, 47, 293-296.	1.6	18
11	Compliance with AAPM Practice Guideline 1.a: CT Protocol Management and Review â€" from the perspective of a university hospital. Journal of Applied Clinical Medical Physics, 2015, 16, 443-457.	0.8	17
12	Flat-Panel CT for Cochlear Implant Electrode Imaging. Otology and Neurotology, 2016, 37, 1646-1653.	0.7	16
13	Comparison of Strategies to Conserve Iodinated Intravascular Contrast Media for Computed Tomography During a Shortage. JAMA - Journal of the American Medical Association, 2022, 328, 476.	3.8	15
14	Prior Image Constrained Compressed Sensing (PICCS) and Applications in X-ray Computed Tomography. Current Medical Imaging, 2010, 6, 119-134.	0.4	14
15	Realization of fluence field modulated CT on a clinical TomoTherapy megavoltage CT system. Physics in Medicine and Biology, 2015, 60, 7245-7257.	1.6	11
16	Radiation Dose for Multiregion CT Protocols: Challenges and Limitations. American Journal of Roentgenology, 2019, 213, 1100-1106.	1.0	11
17	The Correct Selection of Pitch for Optimal CT Scanning: Avoiding Common Misconceptions. Journal of the American College of Radiology, 2015, 12, 423-424.	0.9	10
18	Improvement in CT image resolution due to the use of focal spot deflection and increased sampling. Journal of Applied Clinical Medical Physics, 2016, 17, 452-466.	0.8	10

#	Article	IF	Citations
19	A Wiki-Based Solution to Managing Your Institutionâ€™s Imaging Protocols. Journal of the American College of Radiology, 2016, 13, 822-824.	0.9	10
20	Technical Note: Modelâ€based magnification/minification correction of patient size surrogates extracted from CT localizers. Medical Physics, 2019, 46, 165-172.	1.6	10
21	On the Same Pageâ€"Physicist and Radiologist Perspectives on Protocol Management and Review. Journal of the American College of Radiology, 2015, 12, 808-814.	0.9	9
22	Ultraâ€"Low Radiation Dose CT Fluoroscopy for Percutaneous Interventions: A Porcine Feasibility Study. Radiology, 2019, 291, 241-249.	3.6	9
23	Tracking Patterns of Nonadherence to Prescribed CT Protocol Parameters. Journal of the American College of Radiology, 2017, 14, 224-230.	0.9	8
24	Two-dimensional dynamic fluid bowtie attenuators. Journal of Medical Imaging, 2016, 3, 013502.	0.8	6
25	Modified ideal observer model (MIOM) for highâ€contrast and highâ€spatial resolution CT imaging tasks. Medical Physics, 2017, 44, 4496-4505.	1.6	6
26	A Metric for Quantification of Iodine Contrast Enhancement (Q-ICE) in Computed Tomography. Journal of Computer Assisted Tomography, 2021, 45, 870-876.	0.5	6
27	Hallway Conversations in Physics. American Journal of Roentgenology, 2017, 208, W193-W194.	1.0	5
28	Applying a New CT Quality Metric in Radiology: How CT Pulmonary Angiography Repeat Rates Compare Across Institutions. Journal of the American College of Radiology, 2021, 18, 962-968.	0.9	5
29	Volume of interest CT implemented with a dynamic bowtie filter. Proceedings of SPIE, 2013, , .	0.8	4
30	The Current State of CT Dose Management Across Radiology: Well Intentioned but Not Universally Well Executed. American Journal of Roentgenology, 2018, 211, 405-408.	1.0	4
31	Creation of an atlas of filter positions for fluence field modulated CT. Medical Physics, 2015, 42, 1779-1786.	1.6	3
32	Objective Evaluation of CT Time Efficiency in Acute Stroke Response. Journal of the American College of Radiology, 2018, 15, 876-880.	0.9	3
33	A General Framework for Monitoring Image Acquisition Workflow in the Radiology Environment: Timeliness for Acute Stroke CT Imaging. Journal of Digital Imaging, 2018, 31, 201-209.	1.6	3
34	A Multiinstitutional Study on Wasted CT Scans for Over 60,000 Patients. American Journal of Roentgenology, 2020, 215, 1123-1129.	1.0	3
35	Effect of contrast agent administration on water equivalent diameter in CT. Medical Physics, 2021, 48, 1117-1124.	1.6	3
36	CT Fluoroscopy for Image-Guided Procedures: Physician Radiation Dose During Full-Rotation and Partial-Angle CT Scanning. Journal of Vascular and Interventional Radiology, 2021, 32, 439-446.	0.2	3

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37	Technical Note: Confirming the prescribed angle of CT localizer radiographs and câ€arm projection acquisitions. Medical Physics, 2016, 43, 865-869.	1.6	2
38	Sub pixel resolution using spectral-spatial encoding in x-ray imaging. PLoS ONE, 2021, 16, e0258481.	1.1	2
39	A Wiki Based CT Protocol Management System. Radiology Management, 2015, 37, 25-9; quiz 30-1.	0.0	2
40	Invited Commentary: Wading into Vendor-specific Solutions for Artifact Mitigation in Dual-Energy CT. Radiographics, 2021, 41, E15-E17.	1.4	1
41	Reply to â€œCT Dose Management: Our Experience in Implementing a Program With an Education-Focused Approachâ€. American Journal of Roentgenology, 2019, 212, W112-W112.	1.0	0
42	Invited Commentary on â€œAdvanced CT Techniques for Decreasing Radiation Dose, Reducing Sedation Requirements, and Optimizing Image Quality in Childrenâ€. Radiographics, 2019, 39, 727-728.	1.4	0