

Timothy P Szczykutowicz

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

401
citations

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h-index

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43
ext. papers

495
ext. citations

4.7
avg, IF

4.18
L-index

#	Paper	IF	Citations
42	Dual energy CT using slow kVp switching acquisition and prior image constrained compressed sensing. <i>Physics in Medicine and Biology</i> , 2010 , 55, 6411-29	3.8	70
41	Design of a digital beam attenuation system for computed tomography: part I. System design and simulation framework. <i>Medical Physics</i> , 2013 , 40, 021905	4.4	42
40	Design of a digital beam attenuation system for computed tomography. Part II. Performance study and initial results. <i>Medical Physics</i> , 2013 , 40, 021906	4.4	30
39	Variation in CT Number and Image Noise Uniformity According to Patient Positioning in MDCT. <i>American Journal of Roentgenology</i> , 2017 , 208, 1064-1072	5.4	28
38	Evaluation of AAPM Reports 204 and 220: Estimation of effective diameter, water-equivalent diameter, and ellipticity ratios for chest, abdomen, pelvis, and head CT scans. <i>Journal of Applied Clinical Medical Physics</i> , 2018 , 19, 228-238	2.3	25
37	Hi-Res scan mode in clinical MDCT systems: Experimental assessment of spatial resolution performance. <i>Medical Physics</i> , 2016 , 43, 2399	4.4	17
36	A method to extract image noise level from patient images in CT. <i>Medical Physics</i> , 2017 , 44, 2173-2184	4.4	16
35	CT protocol management: simplifying the process by using a master protocol concept. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 228-243	2.3	16
34	Flat-Panel CT for Cochlear Implant Electrode Imaging: Comparison to Multi-Detector CT. <i>Otology and Neurotology</i> , 2016 , 37, 1646-1653	2.6	14
33	Compliance with AAPM Practice Guideline 1.a: CT Protocol Management and Review - from the perspective of a university hospital. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 5023	2.3	13
32	Prior Image Constrained Compressed Sensing (PICCS) and Applications in X-ray Computed Tomography. <i>Current Medical Imaging</i> , 2010 , 6, 119-134	1.2	13
31	CT is still not a low-dose imaging modality. <i>Medical Physics</i> , 2020 , 47, 293-296	4.4	12
30	Realization of fluence field modulated CT on a clinical TomoTherapy megavoltage CT system. <i>Physics in Medicine and Biology</i> , 2015 , 60, 7245-57	3.8	10
29	On the same page--physicist and radiologist perspectives on protocol management and review. <i>Journal of the American College of Radiology</i> , 2015 , 12, 808-14	3.5	9
28	The correct selection of pitch for optimal CT scanning: avoiding common misconceptions. <i>Journal of the American College of Radiology</i> , 2015 , 12, 423-4	3.5	8
27	Radiation Dose for Multiregion CT Protocols: Challenges and Limitations. <i>American Journal of Roentgenology</i> , 2019 , 213, 1100-1106	5.4	8
26	Tracking Patterns of Nonadherence to Prescribed CT Protocol Parameters. <i>Journal of the American College of Radiology</i> , 2017 , 14, 224-230	3.5	7

25	Improvement in CT image resolution due to the use of focal spot deflection and increased sampling. <i>Journal of Applied Clinical Medical Physics</i> , 2016 , 17, 452-466	2.3	7
24	A Wiki-Based Solution to Managing Your Institution's Imaging Protocols. <i>Journal of the American College of Radiology</i> , 2016 , 13, 822-4	3.5	7
23	Modified ideal observer model (MIOM) for high-contrast and high-spatial resolution CT imaging tasks. <i>Medical Physics</i> , 2017 , 44, 4496-4505	4.4	5
22	Two-dimensional dynamic fluid bowtie attenuators. <i>Journal of Medical Imaging</i> , 2016 , 3, 013502	2.6	5
21	Technical Note: Model-based magnification/minification correction of patient size surrogates extracted from CT localizers. <i>Medical Physics</i> , 2019 , 46, 165-172	4.4	5
20	Volume of interest CT implemented with a dynamic bowtie filter 2013 ,		4
19	Ultra-Low Radiation Dose CT Fluoroscopy for Percutaneous Interventions: A Porcine Feasibility Study. <i>Radiology</i> , 2019 , 291, 241-249	20.5	4
18	Hallway Conversations in Physics. <i>American Journal of Roentgenology</i> , 2017 , 208, W193-W194	5.4	3
17	Objective Evaluation of CT Time Efficiency in Acute Stroke Response. <i>Journal of the American College of Radiology</i> , 2018 , 15, 876-880	3.5	3
16	Creation of an atlas of filter positions for fluence field modulated CT. <i>Medical Physics</i> , 2015 , 42, 1779-86	4.4	3
15	Protocol Optimization Considerations for Implementing Deep Learning CT Reconstruction. <i>American Journal of Roentgenology</i> , 2021 , 216, 1668-1677	5.4	3
14	A General Framework for Monitoring Image Acquisition Workflow in the Radiology Environment: Timeliness for Acute Stroke CT Imaging. <i>Journal of Digital Imaging</i> , 2018 , 31, 201-209	5.3	2
13	The Current State of CT Dose Management Across Radiology: Well Intentioned but Not Universally Well Executed. <i>American Journal of Roentgenology</i> , 2018 , 211, 405-408	5.4	2
12	Effect of contrast agent administration on water equivalent diameter in CT. <i>Medical Physics</i> , 2021 , 48, 1117-1124	4.4	2
11	A Wiki Based CT Protocol Management System. <i>Radiology Management</i> , 2015 , 37, 25-9; quiz 30-1		2
10	Sub pixel resolution using spectral-spatial encoding in x-ray imaging. <i>PLoS ONE</i> , 2021 , 16, e0258481	3.7	1
9	A Multiinstitutional Study on Wasted CT Scans for Over 60,000 Patients. <i>American Journal of Roentgenology</i> , 2020 , 215, 1123-1129	5.4	1
8	Applying a New CT Quality Metric in Radiology: How CT Pulmonary Angiography Repeat Rates Compare Across Institutions. <i>Journal of the American College of Radiology</i> , 2021 , 18, 962-968	3.5	1

7	CT Fluoroscopy for Image-Guided Procedures: Physician Radiation Dose During Full-Rotation and Partial-Angle CT Scanning. <i>Journal of Vascular and Interventional Radiology</i> , 2021 , 32, 439-446	2.4	1
6	A Metric for Quantification of Iodine Contrast Enhancement (Q-ICE) in Computed Tomography. <i>Journal of Computer Assisted Tomography</i> , 2021 , 45, 870-876	2.2	1
5	Invited Commentary: Wading into Vendor-specific Solutions for Artifact Mitigation in Dual-Energy CT. <i>Radiographics</i> , 2021 , 41, E15-E17	5.4	0
4	Technical Note: Confirming the prescribed angle of CT localizer radiographs and c-arm projection acquisitions. <i>Medical Physics</i> , 2016 , 43, 865-9	4.4	0
3	Reply to "CT Dose Management: Our Experience in Implementing a Program With an Education-Focused Approach". <i>American Journal of Roentgenology</i> , 2019 , 212, W112	5.4	
2	Invited Commentary on "Advanced CT Techniques for Decreasing Radiation Dose, Reducing Sedation Requirements, and Optimizing Image Quality in Children". <i>Radiographics</i> , 2019 , 39, 727-728	5.4	
1	CT Practice Management 2020 , 167-182		