

# Norbert J Pelc

## List of Publications by Year in Descending Order

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**Version:** 2024-04-29

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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.

51  
papers

1,923  
citations

17  
h-index

43  
g-index

52  
ext. papers

2,327  
ext. citations

5  
avg, IF

4.94  
L-index

#	Paper	IF	Citations
51	How CT happened: the early development of medical computed tomography. <i>Journal of Medical Imaging</i> , <b>2021</b> , 8, 052110	2.6	1
50	Special Section Guest Editorial: Computed tomography (CT) at 50 years. <i>Journal of Medical Imaging</i> , <b>2021</b> , 8, 052101	2.6	0
49	A dynamic simulation framework for CT perfusion in stroke assessment built from first principles. <i>Medical Physics</i> , <b>2021</b> , 48, 3500-3510	4.4	
48	Acoustic Attenuation: Multifrequency Measurement and Relationship to CT and MR Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 1532-1545	3.2	2
47	Findings of the AAPM Ad Hoc committee on magnetic resonance imaging in radiation therapy: Unmet needs, opportunities, and recommendations. <i>Medical Physics</i> , <b>2021</b> , 48, 4523-4531	4.4	3
46	Spectral Photon Counting CT: Imaging Algorithms and Performance Assessment.. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2021</b> , 5, 453-464	4.2	5
45	Detective quantum efficiency of photon-counting CdTe and Si detectors for computed tomography: a simulation study. <i>Journal of Medical Imaging</i> , <b>2020</b> , 7, 043501	2.6	5
44	Detective efficiency of photon counting detectors with spectral degradation and crosstalk. <i>Medical Physics</i> , <b>2020</b> , 47, 27-36	4.4	7
43	Accurate Image Domain Noise Insertion in CT Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 1906-1916	11.7	5
42	Simulation model for evaluating energy-resolving photon-counting CT detectors based on generalized linear-systems framework <b>2019</b> ,		2
41	Implementation of a piecewise-linear dynamic attenuator. <i>Journal of Medical Imaging</i> , <b>2019</b> , 6, 1	2.6	0
40	Fluid-filled dynamic bowtie filter: Description and comparison with other modulators. <i>Medical Physics</i> , <b>2019</b> , 46, 127-139	4.4	7
39	Spectral resolution and high-flux capability tradeoffs in CdTe detectors for clinical CT. <i>Medical Physics</i> , <b>2018</b> , 45, 1433-1443	4.4	18
38	A framework for performance characterization of energy-resolving photon-counting detectors. <i>Medical Physics</i> , <b>2018</b> , 45, 4897-4915	4.4	7
37	Photon-counting CT: Technical Principles and Clinical Prospects. <i>Radiology</i> , <b>2018</b> , 289, 293-312	20.5	240
36	Measurements of the Relationship Between CT Hounsfield Units and Acoustic Velocity and How It Changes With Photon Energy and Reconstruction Method. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 1111-1124	3.2	16
35	Effect of Spectral Degradation and Spatio-Energy Correlation in X-Ray PCD for Imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 1910-1919	11.7	5

34	Segmented targeted least squares estimator for material decomposition in multibin photon-counting detectors. <i>Journal of Medical Imaging</i> , <b>2017</b> , 4, 023503	2.6	6
33	Special Section Guest Editorial: Positron Emission Tomography: History, Current Status, and Future Prospects. <i>Journal of Medical Imaging</i> , <b>2017</b> , 4, 011001	2.6	2
32	Improving pulse detection in multibin photon-counting detectors. <i>Journal of Medical Imaging</i> , <b>2016</b> , 3, 023505	2.6	12
31	Conventional CT images from spectral measurements <b>2016</b> ,		2
30	A limit on dose reduction possible with CT reconstruction algorithms without prior knowledge of the scan subject. <i>Medical Physics</i> , <b>2016</b> , 43, 1361-8	4.4	11
29	Image quality comparison between single energy and dual energy CT protocols for hepatic imaging. <i>Medical Physics</i> , <b>2016</b> , 43, 4877	4.4	12
28	Multisource inverse-geometry CT. Part II. X-ray source design and prototype. <i>Medical Physics</i> , <b>2016</b> , 43, 4617	4.4	12
27	A dynamic attenuator improves spectral imaging with energy-discriminating, photon counting detectors. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 729-39	11.7	10
26	Recent and future directions in CT imaging. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 260-8	4.7	61
25	Efficacy of fixed filtration for rapid kVp-switching dual energy x-ray systems. <i>Medical Physics</i> , <b>2014</b> , 41, 031914	4.4	4
24	An algorithm to estimate the object support in truncated images. <i>Medical Physics</i> , <b>2014</b> , 41, 071908	4.4	5
23	Control algorithms for dynamic attenuators. <i>Medical Physics</i> , <b>2014</b> , 41, 061907	4.4	7
22	Dose reduction using a dynamic, piecewise-linear attenuator. <i>Medical Physics</i> , <b>2014</b> , 41, 021910	4.4	17
21	Utilization of in-depth photon counting detectors towards x-ray spectral imaging: The benefits from the depth information <b>2014</b> ,		1
20	To bin or not to bin? The effect of CT system limiting resolution on noise and detectability. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 1433-46	3.8	34
19	A comparison of dual kV energy integrating and energy discriminating photon counting detectors for dual energy x-ray imaging <b>2012</b> ,		6
18	Sufficient statistics as a generalization of binning in spectral X-ray imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2011</b> , 30, 84-93	11.7	41
17	Fourier rebinning algorithm for inverse geometry CT. <i>Medical Physics</i> , <b>2008</b> , 35, 4857-62	4.4	6

16	Design, Performance, and Applications of a Hybrid X-Ray/MR System for Interventional Guidance. <i>Proceedings of the IEEE</i> , <b>2008</b> , 96, 468-480	14.3	10
15	Reply to Comment on "An inverse-geometry volumetric CT system with a large-area scanned source: A feasibility study" [Med. Phys. 32, 635 (2005)]. <i>Medical Physics</i> , <b>2005</b> , 32, 636-636	4.4	
14	SMASH and SENSE: experimental and numerical comparisons. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 1103-11	4.4	59
13	Alignment of a volumetric tomography system. <i>Medical Physics</i> , <b>2001</b> , 28, 1472-81	4.4	19
12	Filtered backprojection for modifying the impulse response of circular tomosynthesis. <i>Medical Physics</i> , <b>2001</b> , 28, 372-80	4.4	44
11	A reduced field-of-view method to increase temporal resolution or reduce scan time in cine MRI. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 43, 549-58	4.4	14
10	Unaliasing by Fourier-encoding the overlaps using the temporal dimension (UNFOLD), applied to cardiac imaging and fMRI. <i>Magnetic Resonance in Medicine</i> , <b>1999</b> , 42, 813-28	4.4	337
9	Concomitant gradient terms in phase contrast MR: analysis and correction. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 300-8	4.4	392
8	Gradient characterization using a Fourier-transform technique. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 581-7	4.4	78
7	Angiographic imaging with 2D RF pulses. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 260-7	4.4	42
6	Artifacts and signal loss due to flow in the presence of B(o) inhomogeneity. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 126-30	4.4	23
5	Fourier tracking of myocardial motion using cine-PC data. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 35, 471-80	4.4	57
4	Three-point phase-contrast velocity measurements with increased velocity-to-noise ratio. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 33, 122-6	4.4	81
3	T1-weighted signal contrast optimization by RF pulse sequences. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 133-5	4.4	2
2	Reconstructions of phase contrast, phased array multicoil data. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 330-4	4.4	121
1	Magnetic resonance velocity imaging using a fast spiral phase contrast sequence. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 476-83	4.4	72