

# Norbert J Pelc

## List of Publications by Year in descending order

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52  
papers

2,733  
citations

361413

20  
h-index

233421

45  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2727  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectral Photon Counting CT: Imaging Algorithms and Performance Assessment. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 453-464.	3.7	15
2	A dynamic simulation framework for CT perfusion in stroke assessment built from first principles. Medical Physics, 2021, 48, 3500-3510.	3.0	0
3	Acoustic Attenuation: Multifrequency Measurement and Relationship to CT and MR Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1532-1545.	3.0	11
4	Findings of the AAPM Ad Hoc committee on magnetic resonance imaging in radiation therapy: Unmet needs, opportunities, and recommendations. Medical Physics, 2021, 48, 4523-4531.	3.0	9
5	How CT happened: the early development of medical computed tomography. Journal of Medical Imaging, 2021, 8, 052110.	1.5	12
6	Special Section Guest Editorial: Computed tomography (CT) at 50 years. Journal of Medical Imaging, 2021, 8, 052101.	1.5	1
7	Detective efficiency of photon counting detectors with spectral degradation and crosstalk. Medical Physics, 2020, 47, 27-36.	3.0	9
8	Accurate Image Domain Noise Insertion in CT Images. IEEE Transactions on Medical Imaging, 2020, 39, 1906-1916.	8.9	18
9	Detective quantum efficiency of photon-counting CdTe and Si detectors for computed tomography: a simulation study. Journal of Medical Imaging, 2020, 7, 1.	1.5	22
10	Fluid-filled dynamic bowtie filter: Description and comparison with other modulators. Medical Physics, 2019, 46, 127-139.	3.0	9
11	Simulation model for evaluating energy-resolving photon-counting CT detectors based on generalized linear-systems framework. , 2019, , .		2
12	Implementation of a piecewise-linear dynamic attenuator. Journal of Medical Imaging, 2019, 6, 1.	1.5	1
13	Spectral resolution and high-flux capability tradeoffs in CdTe detectors for clinical CT. Medical Physics, 2018, 45, 1433-1443.	3.0	26
14	A framework for performance characterization of energy-resolving photon-counting detectors. Medical Physics, 2018, 45, 4897-4915.	3.0	12
15	Photon-counting CT: Technical Principles and Clinical Prospects. Radiology, 2018, 289, 293-312.	7.3	645
16	Measurements of the Relationship Between CT Hounsfield Units and Acoustic Velocity and How It Changes With Photon Energy and Reconstruction Method. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1111-1124.	3.0	37
17	Effect of Spectral Degradation and Spatio-Energy Correlation in X-Ray PCD for Imaging. IEEE Transactions on Medical Imaging, 2018, 37, 1910-1919.	8.9	7
18	Segmented targeted least squares estimator for material decomposition in multibin photon-counting detectors. Journal of Medical Imaging, 2017, 4, 023503.	1.5	11

#	ARTICLE	IF	CITATIONS
19	Special Section Guest Editorial: Positron Emission Tomography: History, Current Status, and Future Prospects. <i>Journal of Medical Imaging</i> , 2017, 4, 011001.	1.5	2
20	“Conventional” CT images from spectral measurements. , 2016, , .		2
21	A limit on dose reduction possible with CT reconstruction algorithms without prior knowledge of the scan subject. <i>Medical Physics</i> , 2016, 43, 1361-1368.	3.0	12
22	Image quality comparison between single energy and dual energy CT protocols for hepatic imaging. <i>Medical Physics</i> , 2016, 43, 4877-4890.	3.0	16
23	Multisource inverse-geometry CT. Part II. X-ray source design and prototype. <i>Medical Physics</i> , 2016, 43, 4617-4627.	3.0	18
24	Improving pulse detection in multibin photon-counting detectors. <i>Journal of Medical Imaging</i> , 2016, 3, 023505.	1.5	13
25	A Dynamic Attenuator Improves Spectral Imaging With Energy-Discriminating, Photon Counting Detectors. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 729-739.	8.9	12
26	An algorithm to estimate the object support in truncated images. <i>Medical Physics</i> , 2014, 41, 071908.	3.0	6
27	Control algorithms for dynamic attenuators. <i>Medical Physics</i> , 2014, 41, 061907.	3.0	9
28	Dose reduction using a dynamic, piecewise-linear attenuator. <i>Medical Physics</i> , 2014, 41, 021910.	3.0	21
29	Utilization of in-depth photon counting detectors towards x-ray spectral imaging: The benefits from the depth information. , 2014, , .		2
30	Recent and Future Directions in CT Imaging. <i>Annals of Biomedical Engineering</i> , 2014, 42, 260-268.	2.5	84
31	Efficacy of fixed filtration for rapid kVp-switching dual energy x-ray systems. <i>Medical Physics</i> , 2014, 41, 031914.	3.0	7
32	To bin or not to bin? The effect of CT system limiting resolution on noise and detectability. <i>Physics in Medicine and Biology</i> , 2013, 58, 1433-1446.	3.0	47
33	A comparison of dual kV energy integrating and energy discriminating photon counting detectors for dual energy x-ray imaging. , 2012, , .		6
34	Sufficient Statistics as a Generalization of Binning in Spectral X-ray Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 84-93.	8.9	55
35	Fourier rebinning algorithm for inverse geometry CT. <i>Medical Physics</i> , 2008, 35, 4857-4862.	3.0	7
36	Design, Performance, and Applications of a Hybrid X-Ray/MR System for Interventional Guidance. <i>Proceedings of the IEEE</i> , 2008, 96, 468-480.	21.3	13

#	ARTICLE	IF	CITATIONS
37	Implementation of the derivative back projection - finite Hilbert inverse algorithm in projection reconstruction MRI. , 2007, , .		0
38	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.	3.0	0
39	SMASH and SENSE: Experimental and numerical comparisons. Magnetic Resonance in Medicine, 2001, 45, 1103-1111.	3.0	65
40	Alignment of a volumetric tomography system. Medical Physics, 2001, 28, 1472-1481.	3.0	22
41	Filtered backprojection for modifying the impulse response of circular tomosynthesis. Medical Physics, 2001, 28, 372-380.	3.0	64
42	A reduced field-of-view method to increase temporal resolution or reduce scan time in cine MRI. Magnetic Resonance in Medicine, 2000, 43, 549-558.	3.0	17
43	Unaliasing by Fourier-encoding the overlaps using the temporal dimension (UNFOLD), applied to cardiac imaging and fMRI. Magnetic Resonance in Medicine, 1999, 42, 813-828.	3.0	389
44	Concomitant gradient terms in phase contrast MR: Analysis and correction. Magnetic Resonance in Medicine, 1998, 39, 300-308.	3.0	461
45	Gradient characterization using a Fourier-transform technique. Magnetic Resonance in Medicine, 1998, 39, 581-587.	3.0	80
46	Angiographic Imaging with 2D RF Pulses. Magnetic Resonance in Medicine, 1997, 37, 260-267.	3.0	49
47	Artifacts and signal loss due to flow in the presence of B <sub>0</sub> inhomogeneity. Magnetic Resonance in Medicine, 1996, 35, 126-130.	3.0	26
48	Fourier tracking of myocardial motion using cine-PC data. Magnetic Resonance in Medicine, 1996, 35, 471-480.	3.0	63
49	Three-Point Phase-Contrast Velocity Measurements with Increased Velocity-to-Noise Ratio. Magnetic Resonance in Medicine, 1995, 33, 122-126.	3.0	101
50	T1-weighted signal contrast optimization by rf pulse sequences. Magnetic Resonance in Medicine, 1995, 34, 133-135.	3.0	2
51	Reconstructions of phase contrast, phased array multicoil data. Magnetic Resonance in Medicine, 1994, 32, 330-334.	3.0	135
52	Magnetic resonance velocity imaging using a fast spiral phase contrast sequence. Magnetic Resonance in Medicine, 1994, 32, 476-483.	3.0	80