

# Craig S Levin

## List of Publications by Year in descending order

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176  
papers

3,364  
citations

172207

29  
h-index

161609

54  
g-index

176  
all docs

176  
docs citations

176  
times ranked

2510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Calculation of positron range and its effect on the fundamental limit of positron emission tomography system spatial resolution. <i>Physics in Medicine and Biology</i> , 1999, 44, 781-799.	1.6	462
2	NEMA NU 2-2012 performance studies for the SiPM-based ToF-PET component of the GE SIGNA PET/MR system. <i>Medical Physics</i> , 2016, 43, 2334-2343.	1.6	207
3	Studies of a Next-Generation Silicon-Photomultiplier-Based Time-of-Flight PET/CT System. <i>Journal of Nuclear Medicine</i> , 2017, 58, 1511-1518.	2.8	187
4	Design Features and Mutual Compatibility Studies of the Time-of-Flight PET Capable GE SIGNA PET/MR System. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1907-1914.	5.4	156
5	First Performance Results of Ce:GAGG Scintillation Crystals With Silicon Photomultipliers. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 988-992.	1.2	101
6	Primer on molecular imaging technology. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2005, 32, S325-S345.	3.3	100
7	Advances in coincidence time resolution for PET. <i>Physics in Medicine and Biology</i> , 2016, 61, 2255-2264.	1.6	88
8	Current Trends in Preclinical PET System Design. <i>PET Clinics</i> , 2007, 2, 125-160.	1.5	76
9	Fully 3D list-mode time-of-flight PET image reconstruction on GPUs using CUDA. <i>Medical Physics</i> , 2011, 38, 6775-6786.	1.6	75
10	Improved single photon time resolution for analog SiPMs with front end readout that reduces influence of electronic noise. <i>Physics in Medicine and Biology</i> , 2018, 63, 185022.	1.6	75
11	Study of the performance of a novel 1mm resolution dual-panel PET camera design dedicated to breast cancer imaging using Monte Carlo simulation. <i>Medical Physics</i> , 2007, 34, 689-702.	1.6	68
12	New Imaging Technologies to Enhance the Molecular Sensitivity of Positron Emission Tomography. <i>Proceedings of the IEEE</i> , 2008, 96, 439-467.	16.4	68
13	Technical Note: Characterization of custom 3D printed multimodality imaging phantoms. <i>Medical Physics</i> , 2015, 42, 5913-5918.	1.6	60
14	Analog signal multiplexing for PSAPD-based PET detectors: simulation and experimental validation. <i>Physics in Medicine and Biology</i> , 2010, 55, 7149-7174.	1.6	57
15	Evaluation of a clinical TOF-PET detector design that achieves $\approx 1/2$ 100 ps coincidence time resolution. <i>Physics in Medicine and Biology</i> , 2018, 63, 115011.	1.6	55
16	Evolution of PET Detectors and Event Positioning Algorithms Using Monolithic Scintillation Crystals. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 282-305.	2.7	50
17	Design study of a high-resolution breast-dedicated PET system built from cadmium zinc telluride detectors. <i>Physics in Medicine and Biology</i> , 2010, 55, 2761-2788.	1.6	48
18	Promising New Photon Detection Concepts for High-Resolution Clinical and Preclinical PET. <i>Journal of Nuclear Medicine</i> , 2012, 53, 167-170.	2.8	44

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19	Prototype positron emission tomography insert with electro-optical signal transmission for simultaneous operation with MRI. <i>Physics in Medicine and Biology</i> , 2015, 60, 3459-3478.	1.6	44
20	A Comparison Between a Time Domain and Continuous Wave Small Animal Optical Imaging System. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 58-63.	5.4	42
21	A new dual threshold time-over-threshold circuit for fast timing in PET. <i>Physics in Medicine and Biology</i> , 2014, 59, 3421-3430.	1.6	41
22	Electronics method to advance the coincidence time resolution with bismuth germanate. <i>Physics in Medicine and Biology</i> , 2019, 64, 175016.	1.6	41
23	Clinical evaluation of a novel intraoperative handheld gamma camera for sentinel lymph node biopsy. <i>Physica Medica</i> , 2014, 30, 340-345.	0.4	40
24	Impact of high energy resolution detectors on the performance of a PET system dedicated to breast cancer imaging. <i>Physica Medica</i> , 2006, 21, 28-34.	0.4	37
25	Simultaneous PET/MR imaging with a radio frequency penetrable PET insert. <i>Medical Physics</i> , 2017, 44, 112-120.	1.6	37
26	New PET technologies “embracing progress and pushing the limits. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 2711-2726.	3.3	35
27	Breast-Dedicated Radionuclide Imaging Systems. <i>Journal of Nuclear Medicine</i> , 2016, 57, 40S-45S.	2.8	34
28	Low eddy current RF shielding enclosure designs for 3T MR applications. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1745-1752.	1.9	31
29	Novel Electro-Optical Coupling Technique for Magnetic Resonance-Compatible Positron Emission Tomography Detectors. <i>Molecular Imaging</i> , 2009, 8, 7290.2009.00012.	0.7	30
30	Fast Timing Silicon Photomultipliers for Scintillation Detectors. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1309-1312.	1.3	30
31	Side readout of long scintillation crystal elements with digital SiPM for TOF-DOI PET. <i>Medical Physics</i> , 2014, 41, 122501.	1.6	30
32	Detector design issues for compact nuclear emission cameras dedicated to breast imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 497, 60-74.	0.7	29
33	Fast List-Mode Reconstruction for Time-of-Flight PET Using Graphics Hardware. <i>IEEE Transactions on Nuclear Science</i> , 2011, 58, 105-109.	1.2	28
34	Characterization of a sub-assembly of 3D position sensitive cadmium zinc telluride detectors and electronics from a sub-millimeter resolution PET system. <i>Physics in Medicine and Biology</i> , 2016, 61, 6733-6753.	1.6	27
35	Improvements in PET Image Quality in Time of Flight (TOF) Simultaneous PET/MRI. <i>Molecular Imaging and Biology</i> , 2016, 18, 776-781.	1.3	26
36	Positioning true coincidences that undergo inter-and intra-crystal scatter for a sub-mm resolution cadmium zinc telluride-based PET system. <i>Physics in Medicine and Biology</i> , 2018, 63, 025012.	1.6	26

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37	Pulse width modulation: A novel readout scheme for high energy photon detection. , 2008, , .		25
38	MR Performance in the Presence of a Radio Frequency-Penetrable Positron Emission Tomography (PET) Insert for Simultaneous PET/MRI. IEEE Transactions on Medical Imaging, 2018, 37, 2060-2069.	5.4	24
39	Performance Study of a Radio-Frequency Field-Penetrable PET Insert for Simultaneous PET/MRI. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 422-431.	2.7	23
40	Scalable electronic readout design for a 100 ps coincidence time resolution TOF-PET system. Physics in Medicine and Biology, 2021, 66, 085005.	1.6	22
41	GRAY: High Energy Photon Ray Tracer for PET Applications. , 2006, , .		21
42	Performance Characterization of a Miniature, High Sensitivity Gamma Ray Camera. IEEE Transactions on Nuclear Science, 2007, 54, 1492-1497.	1.2	21
43	A method to achieve spatial linearity and uniform resolution at the edges of monolithic scintillation crystal detectors. Physics in Medicine and Biology, 2014, 59, 2975-2995.	1.6	21
44	Clinical evaluation of TOF versus non-TOF on PET artifacts in simultaneous PET/MR: a dual centre experience. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 1223-1233.	3.3	20
45	Sparse Signal Recovery Methods for Multiplexing PET Detector Readout. IEEE Transactions on Medical Imaging, 2013, 32, 932-942.	5.4	19
46	Standard OSEM vs. regularized PET image reconstruction: qualitative and quantitative comparison using phantom data and various clinical radiopharmaceuticals. American Journal of Nuclear Medicine and Molecular Imaging, 2018, 8, 110-118.	1.0	19
47	Noninvasive and Highly Multiplexed Five-Color Tumor Imaging of Multicore Near-Infrared Resonant Surface-Enhanced Raman Nanoparticles <i>In Vivo</i> . ACS Nano, 2021, 15, 19956-19969.	7.3	19
48	Readout Electronics and Data Acquisition of a Positron Emission Tomography Time-of-Flight Detector Module With Waveform Digitizer. IEEE Transactions on Nuclear Science, 2013, 60, 3735-3741.	1.2	18
49	High-resolution time-of-flight PET detector with 100 ps coincidence time resolution using a side-coupled phoswich configuration. Physics in Medicine and Biology, 2021, 66, 125007.	1.6	18
50	Cross-Strip Multiplexed Electro-Optical Coupled Scintillation Detector for Integrated PET/MRI. IEEE Transactions on Nuclear Science, 2013, 60, 3198-3204.	1.2	17
51	Pseudo CT Image Synthesis and Bone Segmentation From MR Images Using Adversarial Networks With Residual Blocks for MR-Based Attenuation Correction of Brain PET Data. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 193-201.	2.7	17
52	Study of material properties important for an optical property modulation-based radiation detection method for positron emission tomography. Journal of Medical Imaging, 2017, 4, 011010.	0.8	16
53	Performance evaluation of RF coils integrated with an RF- $\mu$ penetrable PET insert for simultaneous PET/MRI. Magnetic Resonance in Medicine, 2019, 81, 1434-1446.	1.9	16
54	Study of optical reflectors for a 100ps coincidence time resolution TOF-PET detector design. Biomedical Physics and Engineering Express, 2021, 7, 065008.	0.6	15

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55	Charge collection studies of a high resolution CZT-based detector for PET. , 2008, , .		14
56	Thermal regulation of tightly packed solid-state photodetectors in a 1 mm <sup>3</sup> resolution clinical PET system. Medical Physics, 2015, 42, 305-313.	1.6	14
57	Highly multiplexed signal readout for a time-of-flight positron emission tomography detector based on silicon photomultipliers. Journal of Medical Imaging, 2017, 4, 011012.	0.8	14
58	A Method to Include Single Photon Events in Image Reconstruction for a 1 mm Resolution PET System Built with Advanced 3-D Positioning Detectors. , 2006, , .		13
59	Compressed sensing for the multiplexing of PET detectors. , 2011, , .		13
60	Performance characterization of compressed sensing positron emission tomography detectors and data acquisition system. Physics in Medicine and Biology, 2015, 60, 6407-6421.	1.6	13
61	Deep learning based methods for gamma ray interaction location estimation in monolithic scintillation crystal detectors. Physics in Medicine and Biology, 2020, 65, 115007.	1.6	13
62	Characterization of TOF-PET detectors for a second generation radiofrequency-penetrable PET insert for simultaneous PET/MRI. , 2019, , .		12
63	Cherenkov Radiation-Based Coincidence Time Resolution Measurements in BGO Scintillators. Frontiers in Physics, 2022, 10, .	1.0	12
64	Algorithms that exploit multi-interaction photon events in sub-millimeter resolution CZT detectors for PET. , 2011, , .		10
65	Signal Conditioning Technique for Position Sensitive Photodetectors to Manipulate Pixelated Crystal Identification Capabilities. IEEE Transactions on Nuclear Science, 2012, 59, 1815-1822.	1.2	10
66	Ionizing photon interactions modulate the optical properties of crystals with femtosecond scale temporal resolution. Physics in Medicine and Biology, 2021, 66, 045032.	1.6	10
67	1 mm <sup>3</sup> resolution breast-dedicated PET system. , 2008, , .		9
68	FPGA-based time-to-digital converter for time-of-flight PET detector. , 2012, , .		9
69	First acquisition of data from a prototype 3-D position sensitive CZT PET system. , 2014, , .		9
70	Performance evaluation of an advanced detector module for an RF-penetrable TOF-PET insert for simultaneous PET/MRI. , 2018, , .		9
71	Novel electro-optical coupling technique for magnetic resonance-compatible positron emission tomography detectors. Molecular Imaging, 2009, 8, 74-86.	0.7	9
72	Measurement-based spatially-varying point spread function for list-mode PET reconstruction on GPU. , 2011, , .		8

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73	Intercrystal scatter studies for a 1 mm <sup>3</sup> resolution clinical PET system prototype. <i>Physics in Medicine and Biology</i> , 2019, 64, 095024.	1.6	8
74	Accurately Positioning and Incorporating Tissue-Scattered Photons into PET Image Reconstruction. , 2006, , .		7
75	Prototype Parallel Readout System for Position Sensitive PMT Based Gamma Ray Imaging Systems. <i>IEEE Transactions on Nuclear Science</i> , 2007, 54, 60-65.	1.2	7
76	Study of a high resolution, 3-D positioning cross-strip Cadmium Zinc Telluride detector for PET. , 2008, , .		7
77	A new data path design for a PET data acquisition system: A packet based approach. , 2011, , .		7
78	PET DAQ system for compressed sensing detector modules. , 2012, , .		7
79	Front-end electronics for a 1 mm <sup>3</sup> resolution avalanche photodiode-based PET system with analog signal multiplexing. , 2008, , .		6
80	Optical network-based PET DAQ system: One fiber optical connection. , 2010, , .		6
81	An MLEM method for joint tissue activity distribution and photon attenuation map reconstruction in PET. , 2013, , .		6
82	RF-transmissive PET detector insert for simultaneous PET/MRI. , 2014, , .		6
83	MR Performance Comparison of a PET/MR System Before and After SiPM-Based Time-of-Flight PET Detector Insertion. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 2419-2423.	1.2	6
84	Geometry optimization of electrically floating PET inserts for improved RF penetration for a 3T MRI system. <i>Medical Physics</i> , 2018, 45, 4627-4641.	1.6	6
85	Robust Detector Calibration for a Novel PET System Based on Cross-Strip CZT Detectors. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 626-633.	2.7	6
86	New-generation small animal positron emission tomography system for molecular imaging. <i>Journal of Medical Imaging</i> , 2017, 4, 011008.	0.8	6
87	Application of Artificial Intelligence in PET Instrumentation. <i>PET Clinics</i> , 2022, 17, 175-182.	1.5	6
88	Novel electro-optically coupled MR-compatible PET detectors. , 2008, , .		5
89	Spatial resolution uniformity, isotropy, and the effect of depth of interaction information in a 1mm <sup>3</sup> resolution, limited-angle PET system. , 2014, , .		5
90	Investigation of Electronic Signal Processing Chains for a Prototype TOF-PET System With 100-ps Coincidence Time Resolution. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 690-696.	2.7	5

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91	A high speed fully digital data acquisition system for Positron Emission Tomography. , 2006, , .		4
92	Performance of fast timing silicon photomultipliers for scintillation detectors. , 2012, , .		4
93	Stackable electronics architecture for densely packed PET detectors. , 2014, , .		4
94	Programmable High Voltage Distribution for Photodetectors in a 1Åmm Resolution Clinical PET System. IEEE Transactions on Nuclear Science, 2015, 62, 1989-1994.	1.2	4
95	PET System Technology Designs for Achieving Simultaneous PET/MRI. , 2018, , 1-26.		4
96	Results of a Prospective Trial to Compare 68Ga-DOTA-TATE with SiPM-Based PET/CT vs. Conventional PET/CT in Patients with Neuroendocrine Tumors. Diagnostics, 2021, 11, 992.	1.3	4
97	Characterization of Two Thin Position-Sensitive Avalanche Photodiodes on a Single Flex Circuit for Use in 3-D Positioning PET Detectors. , 2006, , .		3
98	Noise analysis of LSO-PSAPD PET detector front-end multiplexing circuits. , 2007, , .		3
99	Effects of multiple photon interactions in a high resolution PET system that uses 3-D positioning detectors. , 2008, , .		3
100	Convex optimization of coincidence time resolution for high resolution PET systems. , 2008, , .		3
101	Fast and accurate 3D Compton cone projections on GPU using CUDA. , 2011, , .		3
102	Characterization of inter-detector effects in a 3-D position-sensitive dual-CZT detector modules for PET. , 2012, , .		3
103	A method to achieve spatial linearity and uniform resolution at the edges of monolithic scintillation crystal detectors for PET. , 2012, , .		3
104	Timing performance comparison of P-on-N and N-on-P silicon photomultipliers. , 2012, , .		3
105	GPU-enabled PET motion compensation using sparse and low-rank decomposition. , 2012, , .		3
106	3D printing for cost-effective, customized, reusable multi-modality imaging phantoms. , 2013, , .		3
107	GPU formulated MLEM joint estimation of emission activity and photon attenuation in Positron Emission Tomography. , 2014, , .		3
108	Time Resolution Studies for a 1-mm Resolution Clinical PET System With a Charge Sharing Readout and Leading Edge Discrimination. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 285-291.	2.7	3

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109	Reduced Acquisition Time per Bed Position for PET/MRI Using <sup>68</sup> Ga-RM2 or <sup>68</sup> Ga-PSMA-11 in Patients With Prostate Cancer: A Retrospective Analysis. American Journal of Roentgenology, 2022, 218, 333-340.	1.0	3
110	PET image reconstruction with a Bayesian projector for multi-electronic collimation schemes. , 2007, , .		2
111	A method to reject random coincidences and extract true from multiple coincidences in PET using 3-D detectors. , 2008, , .		2
112	Mixture model for fast estimation of positron range. , 2010, , .		2
113	Readout design and validation for a 1 mm<sup>3</sup> resolution clinical PET system. , 2010, , .		2
114	Fully 3-D list-mode positron emission tomography image reconstruction on GPU using CUDA. , 2010, , .		2
115	Optimizing timing performance of silicon photomultiplier based scintillation detectors. , 2012, , .		2
116	Improved compressed sensing multiplexing for PET detector readout. , 2012, , .		2
117	General spatial distortion correction method for solid-state position sensitive detectors in PET. , 2013, , .		2
118	RF-Penetrable PET insert for simultaneous PET/MR imaging. EJNMMI Physics, 2014, 1, A5.	1.3	2
119	Effect of energy threshold in positioning true coincidences that undergo detector scatter for a sub-mm resolution CZT-based PET system. , 2015, , .		2
120	Optical delay encoding for fast timing and detector signal multiplexing in PET. Medical Physics, 2015, 42, 4526-4535.	1.6	2
121	Fast gamma-ray interaction-position estimation using k-d tree search. Physics in Medicine and Biology, 2019, 64, 155018.	1.6	2
122	Investigation of optical property modulation based ionizing radiation detection method for PET: two-crossed-polarizers based method. , 2019, , .		2
123	Motion Correction for Simultaneous PET/MR Brain Imaging Using a RF-Penetrable PET Insert. , 2019, , .		2
124	Automatic Generation of MR-based Attenuation Map using Conditional Generative Adversarial Network for Attenuation Correction in PET/MR. , 2020, , .		2
125	Incident Photon Direction Calculation Using Bayesian Estimation for High Energy Photon Detector Systems with 3D Positioning Capability. , 2006, , .		1
126	Effects of thermal regulation structures on the photon sensitivity and spatial resolution of a 1 mm<sup>3</sup> resolution breast-dedicated PET system. , 2008, , .		1



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127	Faster maximum-likelihood reconstruction via explicit conjugation of search directions. , 2008, , .		1
128	Can large-area avalanche photodiodes be used for a clinical PET/MRI block detector?. , 2008, , .		1
129	Molecular Imaging Instrumentation. , 2012, , 29-96.		1
130	The trend of data path structures for data acquisition systems in positron emission tomography. , 2012, , .		1
131	A pulse width modulation readout method for densely packed solid state photodetectors. , 2013, , .		1
132	Characterization of PET data acquisition system with compressed sensing detectors. , 2013, , .		1
133	A 16-channel FPGA-based time-to-digital converter for pulse width modulation circuitry for silicon photomultiplier readout. , 2013, , .		1
134	Optical encoding and multiplexing of detector signals with dual threshold time-over-threshold. , 2013, , .		1
135	Characterization of a compressed sensing PET detector and data acquisition system: Effects of multiplexing and sampling rate. , 2014, , .		1
136	Effects of out of field-of-view activity on imaging performance in a 1mm <sup>3</sup> resolution clinical PET system. , 2014, , .		1
137	Simultaneous PET/MRI images acquired with an RF-transmissive PET insert. , 2014, , .		1
138	Enhanced data analysis for improved energy resolution of a CZT-based PET system. , 2015, , .		1
139	An ordered subset expectation maximization method for joint estimation of emission activity distribution and photon attenuation map in PET. , 2015, , .		1
140	Evaluation of Zero-TE-based attenuation correction methods on PET quantification of PET/MRI head and neck lesions. , 2016, , .		1
141	Contrast recovery performance for a 1mm <sup>3</sup> resolution clinical PET system. , 2016, , .		1
142	Time-over-threshold for pulse shape discrimination in a time-of-flight/depth of interaction phoswich PET detector. , 2016, , .		1
143	Study of a Convolutional Autoencoder for Automatic Generation of MR-based Attenuation Map in PET/MR. , 2017, , .		1
144	Approaches to improving the detection sensitivity of optical modulation based radiation detection method for positron emission tomography. , 2019, , .		1

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145	Investigation of Analog and Digital Signal Processing Chains for a Prototype TOF-PET System with 100 ps Coincidence Time Resolution. , 2020, , .		1
146	Scanner dependent noise properties of the Q. Clear PET image reconstruction tool. , 2015, , .		1
147	Analytic pulse height correction in dual-ended readout PET detectors. , 2010, , .		0
148	Study of readout for groups of position sensitive avalanche photodiodes used in a 1 mm <sup>3</sup> resolution clinical PET system. , 2011, , .		0
149	Energy and time characterization of Silicon Photomultiplier Detector Blocks. , 2011, , .		0
150	Signal conditioning technique for position sensitive photodetectors to manipulate pixelated crystal identification capabilities. , 2011, , .		0
151	Novel photon-counting energy-resolving ultra-fast X-ray detector. , 2013, , .		0
152	Scintillation crystal side-readout with SiPMs for improved time resolution. , 2013, , .		0
153	Analyzing the stability of 256 APDs through leakage current and temperature monitoring in a 1 mm <sup>3</sup> resolution clinical PET system. , 2013, , .		0
154	Electrical delay line multiplexing for pulsed mode radiation detectors. , 2013, , .		0
155	Analog electro-optical readout of SiPMs for compact, low power ToF PET/MRI. EJNMMI Physics, 2014, 1, A12.	1.3	0
156	Probabilistic layer identification in a multi-layer fast timing detector for time-of-flight PET using machine learning. , 2014, , .		0
157	Disjunct matrices for multiplexing PET detector signal readout. , 2014, , .		0
158	HEMT-based photon-counting energy-resolving ultra-fast x-ray detector with improved sensitivity. , 2014, , .		0
159	Calibration stability in a 1 mm <sup>3</sup> resolution, clinical PET system and its impact on real-time data processing and coincidence sorting. , 2015, , .		0
160	Investigation of RF field penetrability of a novel electrically floating PET insert for PET/MR. , 2015, , .		0
161	PET performance evaluation of a RF-penetrable PET insert for simultaneous PET/MR imaging. , 2015, , .		0
162	Hardware setting optimization for a 1mm <sup>3</sup> resolution clinical PET system. , 2016, , .		0

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163	Timing performance of two PET detector designs capable of time-of-flight and depth-of-interaction measurement: Phoswich and offset crystal layers. , 2016, , .		0
164	Characterizing CNR of super-resolution and sub-resolution PET. , 2016, , .		0
165	3-D position sensitive CZT PET system: Current status. , 2016, , .		0
166	Sensitivity and spatial resolution simulation of a PET-compton insert imaging system. , 2016, , .		0
167	GPU-based strategies for acceleration of a new MLEM algorithm for emission-based photon attenuation correction in PET. , 2016, , .		0
168	Investigation of electron multiplication effect in optical property modulation-based radiation detection method for PET. , 2016, , .		0
169	Investigation of an optical amplification technique to improve sensitivity of an optical property modulation-based radiation detection method for PET. , 2017, , .		0
170	Enhancement of Time-of-Flight PET Image Reconstruction for Long-lived Positron Emitters Using Information from a Prompt Gamma Ray. , 2017, , .		0
171	Component-Based Normalization for a 1mm <sup>3</sup> Resolution, Clinical PET system. , 2017, , .		0
172	Bias Voltage Calibrations for a 1-millimeter Resolution Clinical PET System. , 2019, , .		0
173	Search for Ionization-Induced Modulation of Light Polarization for a New Direction to Improve Time Resolution of PET. , 2019, , .		0
174	High-resolution PET detector with 100 ps coincidence time resolution using side-by-side phoswich design. , 2019, , .		0
175	Simultaneous Dual Isotope ToF-PET Imaging. , 2019, , .		0
176	Instrumentation and Methods to Combine Small-Animal PET With Other Imaging Modalities. , 2021, , 89-111.		0