

Hongdi Li

List of Publications by Year in descending order

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81
papers

1,530
citations

471509

17
h-index

345221

36
g-index

81
all docs

81
docs citations

81
times ranked

1050
citing authors

#	ARTICLE	IF	CITATIONS
1	First Human Imaging Studies with the EXPLORER Total-Body PET Scanner*. Journal of Nuclear Medicine, 2019, 60, 299-303.	5.0	453
2	Performance Evaluation of the uEXPLORER Total-Body PET/CT Scanner Based on NEMA NU 2-2018 with Additional Tests to Characterize PET Scanners with a Long Axial Field of View. Journal of Nuclear Medicine, 2021, 62, 861-870.	5.0	178
3	Total-Body Dynamic Reconstruction and Parametric Imaging on the uEXPLORER. Journal of Nuclear Medicine, 2020, 61, 285-291.	5.0	129
4	Total-Body Quantitative Parametric Imaging of Early Kinetics of ¹⁸ F-FDG. Journal of Nuclear Medicine, 2021, 62, 738-744.	5.0	50
5	The Engineering and Initial Results of a Transformable Low-cost High-Resolution PET Camera. IEEE Transactions on Nuclear Science, 2007, 54, 1583-1588.	2.0	39
6	High-Resolution L(Y)SO Detectors Using PMT-Quadrant-Sharing for Human and Animal PET Cameras. IEEE Transactions on Nuclear Science, 2008, 55, 862-869.	2.0	38
7	A pentagon photomultiplier-quadrant-sharing BGO detector for a rodent research PET (RRPET). IEEE Transactions on Nuclear Science, 2005, 52, 210-216.	2.0	37
8	Whole-Body Parametric Imaging of ¹⁸ F-FDG PET Using uEXPLORER with Reduced Scanning Time. Journal of Nuclear Medicine, 2022, 63, 622-628.	5.0	33
9	A high count rate position decoding and energy measuring method for nuclear cameras using Anger logic detectors. IEEE Transactions on Nuclear Science, 1998, 45, 1122-1127.	2.0	32
10	A new pileup-prevention front-end electronic design for high-resolution PET and gamma cameras. IEEE Transactions on Nuclear Science, 2002, 49, 2051-2056.	2.0	29
11	An efficient detector production method for position-sensitive scintillation detector arrays with 98% detector packing fraction. IEEE Transactions on Nuclear Science, 2003, 50, 1469-1476.	2.0	29
12	The design of a high-resolution transformable wholebody PET camera. IEEE Transactions on Nuclear Science, 2002, 49, 2079-2084.	2.0	28
13	Engineering and Performance (NEMA and Animal) of a Lower-Cost Higher-Resolution Animal PET/CT Scanner Using Photomultiplier-Quadrant-Sharing Detectors. Journal of Nuclear Medicine, 2012, 53, 1786-1793.	5.0	26
14	Evaluation of the effect of filter apodization for volume PET imaging using the 3-D RP algorithm. IEEE Transactions on Nuclear Science, 2003, 50, 3-8.	2.0	25
15	Self-Gating: An Adaptive Center-of-Mass Approach for Respiratory Gating in PET. IEEE Transactions on Medical Imaging, 2018, 37, 1140-1148.	8.9	25
16	Signal characteristics of individual crystals in high resolution BGO detector designs using PMT-quadrant sharing. IEEE Transactions on Nuclear Science, 2003, 50, 355-361.	2.0	24
17	A New Statistics-Based Online Baseline Restorer for a High Count-Rate Fully Digital System. IEEE Transactions on Nuclear Science, 2010, 57, 550-555.	2.0	23
18	Breast cancer imaging studies with a variable field of view PET camera. IEEE Transactions on Nuclear Science, 2000, 47, 1080-1084.	2.0	22

#	ARTICLE	IF	CITATIONS
19	PET resolution and image quality optimization study for different detector block geometries and DOI designs. , 2007, , .		19
20	A modular low dead-time coincidence system for high-resolution PET cameras. IEEE Transactions on Nuclear Science, 2003, 50, 1386-1391.	2.0	18
21	Monte Carlo Simulation Study on the Time Resolution of a PMT-Quadrant-Sharing LSO Detector Block for Time-of-Flight PET. IEEE Transactions on Nuclear Science, 2009, 56, 2614-2620.	2.0	17
22	Potential and Most Relevant Applications of Total Body PET/CT Imaging. Clinical Nuclear Medicine, 2022, 47, 43-55.	1.3	15
23	A Lower-Cost High-Resolution LYSO Detector Development for Positron Emission Mammography (PEM). IEEE Transactions on Nuclear Science, 2009, 56, 2621-2627.	2.0	14
24	A Real Time Coincidence System for High Count-Rate TOF or Non-TOF PET Cameras Using Hybrid Method Combining AND-Logic and Time-Mark Technology. IEEE Transactions on Nuclear Science, 2010, 57, 708-714.	2.0	14
25	A high speed position-decoding electronics for BGO block detectors in PET. IEEE Transactions on Nuclear Science, 2000, 47, 1006-1010.	2.0	12
26	Septa design study for volumetric imaging in positron emission tomography. IEEE Transactions on Nuclear Science, 2002, 49, 2097-2102.	2.0	12
27	GATE Monte Carlo Simulation of a High-Sensitivity and High-Resolution LSO-Based Small Animal PET Camera. IEEE Transactions on Nuclear Science, 2007, 54, 1568-1573.	2.0	12
28	A programmable high-resolution ultra-fast delay generator. IEEE Transactions on Nuclear Science, 2003, 50, 1487-1490.	2.0	11
29	Ultra-High Resolution LYSO PQS-SSS Heptahedron Blocks for Low-Cost MuPET. IEEE Transactions on Nuclear Science, 2011, 58, 626-633.	2.0	11
30	Brain lesion detectability studies with a high resolution PET operating in no-septa and partial-septa configurations. IEEE Transactions on Nuclear Science, 2003, 50, 1364-1369.	2.0	10
31	High resolution GSO block detectors using PMT-quadrant-sharing design for small animal PET. IEEE Transactions on Nuclear Science, 2006, 53, 40-43.	2.0	10
32	A High-Resolution Time-of-Flight Clinical PET Detection System Using a Gapless PMT-Quadrant-Sharing Method. IEEE Transactions on Nuclear Science, 2015, 62, 2067-2074.	2.0	10
33	An Accurate Timing Alignment Method With Time-to-Digital Converter Linearity Calibration for High-Resolution TOF PET. IEEE Transactions on Nuclear Science, 2015, 62, 799-804.	2.0	10
34	The System Design, Engineering Architecture, and Preliminary Results of a Lower-Cost High-Sensitivity High-Resolution Positron Emission Mammography Camera. IEEE Transactions on Nuclear Science, 2010, 57, 104-110.	2.0	9
35	Gantry design with accurate crystal positioning for a high-resolution transformable PET camera. IEEE Transactions on Nuclear Science, 2005, 52, 119-124.	2.0	8
36	New 9\$,imes,\$9 and 10\$,imes,\$10 BGO Block Detector for Human PET Using PMT Quadrant Sharing Design. IEEE Transactions on Nuclear Science, 2008, 55, 457-462.	2.0	8

#	ARTICLE	IF	CITATIONS
37	Timing Performance Evaluation of PMT-Quadrant-Sharing LYSO Detectors for Time-of-Flight PET. IEEE Transactions on Nuclear Science, 2011, 58, 2155-2160.	2.0	8
38	A Breast Phantom Lesion Study With the High Resolution Transformable HOTPET Camera. IEEE Transactions on Nuclear Science, 2010, 57, 2504-2509.	2.0	7
39	An evaluation of the effect of filtering in 3-D OSEM reconstruction by using data from a high-resolution PET scanner. IEEE Transactions on Nuclear Science, 2002, 49, 2381-2386.	2.0	6
40	Performance characteristics of a high resolution oncologic transformable PET in brain/breast and whole-body modes. , 2007, , .		6
41	High-definition positron emission tomography using restored sinograms. , 2008, , .		6
42	Inexpensive position sensitive detector block for dedicated PET cameras using 40-mm diameter PMT in quadrant sharing configuration. IEEE Transactions on Nuclear Science, 2003, 50, 367-372.	2.0	5
43	A HOTLink/networked PC data acquisition and image reconstruction system for a high-resolution whole-body PET with respiratory or ECG-gated performance. IEEE Transactions on Nuclear Science, 2003, 50, 393-397.	2.0	5
44	An instantaneous photomultiplier tube gain-tuning method for PET or gamma camera detectors using an LED network. IEEE Transactions on Nuclear Science, 2005, 52, 1295-1299.	2.0	5
45	An iterative energy-centroid method for recalibration of PMT gain in PET or gamma camera. IEEE Transactions on Nuclear Science, 2002, 49, 2047-2050.	2.0	4
46	Ultrahigh-Resolution L(Y)SO Detectors Using PMT-Quadrant-Sharing for Human & Animal PET Cameras. , 2006, , .		4
47	Design study of a lower-cost ultrahigh-resolution high-sensitivity PET for neuroimaging. , 2009, , .		4
48	Effect of photomultiplier gain-drift and radiation exposure on 2D-map decoding of detector arrays used in positron emission tomography. , 0, , .		3
49	A comparison of four-image reconstruction algorithms for 3-D PET imaging of MDAPET camera using phantom data. IEEE Transactions on Nuclear Science, 2004, 51, 2563-2569.	2.0	3
50	An evaluation of missing data compensation methods for a PET camera by comparing to no-gap data. , 2008, , .		3
51	The system design, engineering architecture and preliminary results of a lower-cost high-sensitivity high-resolution Positron Emission Mammography camera. , 2008, , .		2
52	A low-cost coincidence system with capability of multiples coincidence for high count-rate TOF or non-TOF PET cameras using hybrid method combining AND-logic and Time-mark technology. , 2009, , .		2
53	Principles of Positron Emission Tomography Imaging. , 2013, , 3-27.		2
54	Design and development of a gapless ring with modular PMT-quadrant-sharing detector (PQS) for a time-of-flight PET camera. , 2013, , .		2

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55	The Effects of Delay on the Input Function for Early Dynamics in Total Body Parametric Imaging. , 2019, , .		2
56	Development and Validation of an Accurate Input Function from Carotid Arteries using the uEXPLORER. , 2020, , .		2
57	The Engineering and Initial Results of a Transformable Low-cost Ultra-high Resolution PET Camera. , 2006, , .		1
58	Low-cost High-resolution 3rd Generation PMT-Quadrant-Sharing BGO Block Detectors for Human and Animal PET. , 2006, , .		1
59	A GATE Monte Carlo Simulation of the Performance of a High-Sensitivity and High-Resolution LSO Based Small Animal PET Camera. , 2006, , .		1
60	Monte Carlo simulation study on the time resolution of a PMT-quadrant-sharing LSO detector block for time-of-flight PET. , 2008, , .		1
61	The engineering design and construction of an ultra-high resolution high-sensitivity preclinical PET/CT — MuPET. , 2010, , .		1
62	Comparison of Brain Phantom Lesion Imaging Capability of the Brain and Whole-Body Modes of the Transformable HOTPET Camera. IEEE Transactions on Nuclear Science, 2011, 58, 730-735.	2.0	1
63	A dual-layer TOF-DOI detector block for whole-body PET. , 2011, , .		1
64	New PMT-Quadrant-Sharing shallow block detector development for high performance TOF PET applications. , 2012, , .		1
65	A fast and accurate timing alignment method with TDC linearity calibration for a high-resolution TOF-PET. , 2013, , .		1
66	A pentagon photomultiplier-quadrant-sharing BGO detector for a rodent research PET. , 2003, , .		0
67	A simulation study on optically decoding reflecting windows for PMT quadrant sharing scintillation detector block. , 0, , .		0
68	An evaluation of the effect of partial-septa on detection of small lesions in brain phantom study using MDAPET camera. , 0, , .		0
69	Performance characteristics of four new high resolution L(Y)so detectorblocks for human PET. , 2007, , .		0
70	A comparison of breast lesion imaging capability of a whole-body PET camera and a brain/breast PET camera. , 2008, , .		0
71	A lower-cost high-resolution LYSO detector development for positron emission mammography (PEM). , 2008, , .		0
72	A first study on the timing performance of PMT-Quadrant-Sharing LYSO detector array for time-of-flight PET. , 2009, , .		0

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73	A Hoffman brain phantom lesion study with the transformable HOTPET camera. , 2009, , .		0
74	Timing alignment study of PMT-Quadrant-Sharing (PQS) detectors for time-of-flight PET. , 2010, , .		0
75	Comparison of two light reflector patterns designed for PMT-Quadrant-Sharing (PQS) Time-of-Flight PET detectors. , 2010, , .		0
76	Improvement of dead time and decoding resolution for position-sensitive detectors using a fully dynamic approach of light collection. , 2010, , .		0
77	New ultra high resolution LYSO pentagon detector blocks for lower-cost murine PET-CT (MuPET/CT). , 2010, , .		0
78	Feasibility study of the quantitative corrections for the brain input function imaging from the carotid artery images by an ultra-high resolution dedicated brain PET. , 2010, , .		0
79	System design and development of a lower-cost animal PET-CT (MuPET) with large axial solid PET ring of 1.25-mm LYSO detectors. , 2010, , .		0
80	Comparison of a GATE Monte Carlo simulation predictions to the performance of a high-resolution LYSO based dedicated animal PET camera. , 2011, , .		0
81	A comparison of resolution recovery performed in projection-space and image-space for a high resolution small animal PET scanner. , 2013, , .		0