Roger Lecomte

List of Publications by Year in descending order

322 papers	6,880 citations	71102 41 h-index	106344 65 g-index
326 all docs	326 docs citations	326 times ranked	5105 citing authors

#	Article	IF	Citations
1	Initial results from the Sherbrooke avalanche photodiode positron tomograph. IEEE Transactions on Nuclear Science, 1996, 43, 1952-1957.	2.0	233
2	NEMA NU 4-2008 Comparison of Preclinical PET Imaging Systems. Journal of Nuclear Medicine, 2012, 53, 1300-1309.	5.0	191
3	In vivo measurement of energy substrate contribution to coldâ€induced brown adipose tissue thermogenesis. FASEB Journal, 2015, 29, 2046-2058.	0.5	183
4	Properties of LYSO and recent LSO scintillators for phoswich PET detectors. IEEE Transactions on Nuclear Science, 2004, 51, 789-795.	2.0	173
5	Respiratory gating for 3-dimensional PET of the thorax: feasibility and initial results. Journal of Nuclear Medicine, 2004, 45, 214-9.	5.0	143
6	Performance Evaluation of the LabPET APD-Based Digital PET Scanner. IEEE Transactions on Nuclear Science, 2009, 56, 10-16.	2.0	134
7	Investigation of depth-of-interaction by pulse shape discrimination in multicrystal detectors read out by avalanche photodiodes. IEEE Transactions on Nuclear Science, 1999, 46, 462-467.	2.0	123
8	Detector response models for statistical iterative image reconstruction in high resolution PET. IEEE Transactions on Nuclear Science, 2000, 47, 1168-1175.	2.0	111
9	RatCAP: miniaturized head-mounted PET for conscious rodent brain imaging. IEEE Transactions on Nuclear Science, 2004, 51, 2718-2722.	2.0	104
10	Novel detector technology for clinical PET. European Journal of Nuclear Medicine and Molecular Imaging, 2009, 36, 69-85.	6.4	104
11	Design and engineering aspects of a high resolution positron tomograph for small animal imaging. IEEE Transactions on Nuclear Science, 1994, 41, 1446-1452.	2.0	100
12	The Hardware and Signal Processing Architecture of LabPETâ„¢, a Small Animal APD-Based Digital PET Scanner. IEEE Transactions on Nuclear Science, 2009, 56, 3-9.	2.0	100
13	A novel APD-based detector module for multi-modality PET/SPECT/CT scanners. IEEE Transactions on Nuclear Science, 1999, 46, 479-484.	2.0	98
14	Small-Animal PET: What Is It, and Why Do We Need It?. Journal of Nuclear Medicine Technology, 2012, 40, 157-165.	0.8	94
15	Metabolic activity of brown, â€œbeige,â€•and white adipose tissues in response to chronic adrenergic stimulation in male mice. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E260-E268.	3.5	92
16	Vascular-targeted photodynamic therapy with BF2-chelated Tetraaryl-Azadipyrromethene agents: a multi-modality molecular imaging approach to therapeutic assessment. British Journal of Cancer, 2009, 101, 1565-1573.	6.4	86
17	Image-derived input function in dynamic human PET/CT: methodology and validation with 11C-acetate and 18F-fluorothioheptadecanoic acid in muscle and 18F-fluorodeoxyglucose in brain. European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 1539-1550.	6.4	86
18	Abnormal in vivo myocardial energy substrate uptake in diet-induced type 2 diabetic cardiomyopathy in rats. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E1049-E1057.	3.5	82

#	Article	IF	Citations
19	Endotoxin-induced heart dysfunction in rats: Assessment of myocardial perfusion and permeability and the role of fluid resuscitation*. Critical Care Medicine, 2006, 34, 127-133.	0.9	81
20	Geometry Study of a High Resolution PET Detection System Using Small Detectors. IEEE Transactions on Nuclear Science, 1984, 31, 556-561.	2.0	78
21	PET imaging of apoptosis with 64Cu-labeled streptavidin following pretargeting of phosphatidylserine with biotinylated annexin-V. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 247-258.	6.4	78
22	Design of a high resolution positron emission tomograph using solid state scintillation detectors. IEEE Transactions on Nuclear Science, 1988, 35, 685-690.	2.0	72
23	Measurement of the static quadrupole moments of the first 2+ states in 76Se, 78Se, 80Se and 82Se. Nuclear Physics A, 1977, 284, 123-134.	1.5	65
24	mTORC1 is Required for Brown Adipose Tissue Recruitment and Metabolic Adaptation to Cold. Scientific Reports, 2016, 6, 37223.	3.3	64
25	Investigation of GSO, LSO and YSO scintillators using reverse avalanche photodiodes. IEEE Transactions on Nuclear Science, 1998, 45, 478-482.	2.0	60
26	Technology challenges in small animal PET imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 527, 157-165.	1.6	57
27	Standardization and Detailed Characterization of the Syngeneic Fischer/F98 Glioma Model. Canadian Journal of Neurological Sciences, 2007, 34, 296-306.	0.5	56
28	Evidence of a spherical to prolate shape transition in the germanium nuclei. Physical Review C, 1980, 22, 1530-1533.	2.9	54
29	Coulomb-excitation studies ofGe70,Ge72,Ge74, andGe76. Physical Review C, 1980, 22, 2420-2423.	2.9	51
30	A New Tool for Molecular Imaging: The Microvolumetric Â Blood Counter. Journal of Nuclear Medicine, 2007, 48, 1197-1206.	5.0	51
31	PET study of¹¹C-acetoacetate kinetics in rat brain during dietary treatments affecting ketosis. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E796-E801.	3.5	50
32	Quantitative gated PET for the assessment of left ventricular function in small animals. Journal of Nuclear Medicine, 2003, 44, 1655-61.	5.0	50
33	Quadrupole moments of the first excited states ofRu96,Ru98,Ru100,Ru102, andRu104. Physical Review C, 1980, 21, 588-594.	2.9	49
34	Behavioral, Medical Imaging and Histopathological Features of a New Rat Model of Bone Cancer Pain. PLoS ONE, 2010, 5, e13774.	2.5	49
35	Trace element analysis of freeze-dried blood serum by proton and alpha-induced X-rays. Nuclear Instruments & Methods, 1976, 134, 189-196.	1.2	48
36	Imaging performance of LabPET APD-based digital PET scanners for pre-clinical research. Physics in Medicine and Biology, 2014, 59, 661-678.	3.0	48

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37	System Architecture of the LabPET Small Animal PET Scanner. IEEE Transactions on Nuclear Science, 2008, 55, 2546-2550.	2.0	47
38	Status of BGO-avalanche photodiode detectors for spectroscopic and timing measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 278, 585-597.	1.6	46
39	EP 80317, a selective CD36 ligand, shows cardioprotective effects against post-ischaemic myocardial damage in mice. Cardiovascular Research, 2012, 96, 99-108.	3.8	46
40	Breast cancer models to study the expression of estrogen receptors with small animal PET imaging. Nuclear Medicine and Biology, 2004, 31, 761-770.	0.6	45
41	Architecture of a dual-modality, high-resolution, fully digital positron emission tomography/computed tomography (PET/CT) scanner for small animal imaging. IEEE Transactions on Nuclear Science, 2005, 52, 691-696.	2.0	45
42	Design and performance of 0.18-/spl mu/m CMOS charge preamplifiers for APD-based PET scanners. IEEE Transactions on Nuclear Science, 2004, 51, 1979-1985.	2.0	44
43	Fast point spread function computation from aperture functions in high-resolution positron emission tomography. IEEE Transactions on Medical Imaging, 1988, 7, 2-12.	8.9	43
44	The Effect of Insulin on the Intracellular Distribution of 14(R,S)-[18F]Fluoro-6-thia-heptadecanoic Acid in Rats. Molecular Imaging and Biology, 2006, 8, 237-244.	2.6	43
45	A Small Animal Positron Emission Tomography Study of the Effect of Chemotherapy and Hormonal Therapy on the Uptake of 2-Deoxy-2-[F-18]fluoro-d-glucose in Murine Models of Breast Cancer. Molecular Imaging and Biology, 2007, 9, 144-150.	2.6	43
46	Cross-validation stopping rule for ML-EM reconstruction of dynamic PET series: effect on image quality and quantitative accuracy. IEEE Transactions on Nuclear Science, 2001, 48, 883-889.	2.0	42
47	Quantitative myocardial perfusion and coronary reserve in rats with 13N-ammonia and small animal PET: impact of anesthesia and pharmacologic stress agents. Journal of Nuclear Medicine, 2004, 45, 1924-30.	5.0	42
48	High resolution positron emission tomography with a prototype camera based on solid state scintillation detectors. IEEE Transactions on Nuclear Science, 1990, 37, 805-811.	2.0	41
49	Radiation detection measurements with a new â€œBuried Junctionâ€•silicon avalanche photodiode. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 423, 92-102.	1.6	41
50	The ketogenic diet increases brain glucose and ketone uptake in aged rats: A dual tracer PET and volumetric MRI study. Brain Research, 2012, 1488, 14-23.	2.2	41
51	Effect of geometrical modifications and crystal defects on light collection in ideal rectangular parallelepipedic BGO scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 294, 355-364.	1.6	40
52	Front-end electronics for the RatCAP mobile animal PET scanner. IEEE Transactions on Nuclear Science, 2004, 51, 1318-1323.	2.0	40
53	⁶⁸Ga/DOTA- and ⁶⁴Cu/NOTA-Phthalocyanine Conjugates as Fluorescent/PET Bimodal Imaging Probes. Bioconjugate Chemistry, 2013, 24, 1624-1633.	3.6	40
54	Scintillation light emission studies of LSO scintillators. IEEE Transactions on Nuclear Science, 1999, 46, 1925-1928.	2.0	39

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55	Mild experimental ketosis increases brain uptake of¹¹C-acetoacetate and¹⁸F-fluorodeoxyglucose: a dual-tracer PET imaging study in rats. Nutritional Neuroscience, 2011, 14, 51-58.	3.1	37
56	Automatic data acquisition and on-line analysis of trace element concentration in serum samples. Nuclear Instruments & Methods, 1978, 150, 289-299.	1.2	36
57	Real time digital signal processing implementation for an APD-based PET scanner with phoswich detectors. IEEE Transactions on Nuclear Science, 2006, 53, 784-788.	2.0	36
58	Scintillation Detection with Large-Area Reach-Through Avalanche Photodiodes. IEEE Transactions on Nuclear Science, 1984, 31, 417-423.	2.0	35
59	Loss of UCP2 impairs cold-induced non-shivering thermogenesis by promoting a shift toward glucose utilization in brown adipose tissue. Biochimie, 2017, 134, 118-126.	2.6	34
60	Performance Characteristics of BGO-Silicon Avalanche Photodiode Detectors for PET. IEEE Transactions on Nuclear Science, 1985, 32, 482-486.	2.0	33
61	Conversion of arterial input functions for dual pharmacokinetic modeling using Gdâ€DTPA/MRI and ¹⁸Fâ€FDG/PET. Magnetic Resonance in Medicine, 2013, 69, 781-792.	3.0	33
62	Measurement of the static quadrupole moments of the first2+states inMo94,Mo96,Mo98, andMo100. Physical Review C, 1976, 14, 835-841.	2.9	32
63	Theoretical modelling of light transport in rectangular parallelepipedic scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 292, 685-692.	1.6	32
64	Recent results in scintillation detection with silicon avalanche photodiodes. IEEE Transactions on Nuclear Science, 1990, 37, 209-214.	2.0	32
65	Novel Radiolabeled Peptides for Breast and Prostate Tumor PET Imaging: ⁶⁴Cu/and ⁶⁸Ga/NOTA-PEG-[<scp>d</scp>-Tyr⁶,Î²Ala¹¹,Thi¹³,Nle¹⁴]BBN(6â€¦ Bioconjugate Chemistry, 2012, 23, 1687-1693.	3.6	32
66	LabPET II, an APD-based Detector Module with PET and Counting CT Imaging Capabilities. IEEE Transactions on Nuclear Science, 2015, 62, 756-765.	2.0	32
67	Improved Estrogen Receptor Assessment by PET Using the Novel Radiotracer ¹⁸F-4FMFES in Estrogen Receptorâ€“Positive Breast Cancer Patients: An Ongoing Phase II Clinical Trial. Journal of Nuclear Medicine, 2018, 59, 197-203.	5.0	32
68	Development of a 64-channel APD detector module with individual pixel readout for submillimetre spatial resolution in PET. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 20-23.	1.6	29
69	[11C]Acetate restâ€“stress protocol to assess myocardial perfusion and oxygen consumption reserve in a model of congestive heart failure in rats. Nuclear Medicine and Biology, 2012, 39, 287-294.	0.6	29
70	Design of a Real-Time FPGA-Based Data Acquisition Architecture for the LabPET II: An APD-Based Scanner Dedicated to Small Animal PET Imaging. IEEE Transactions on Nuclear Science, 2013, 60, 3633-3638.	2.0	29
71	Energy dependence of scatter components in multispectral PET imaging. IEEE Transactions on Medical Imaging, 1995, 14, 138-145.	8.9	28
72	Effect of detector weighting functions on the point spread function of high-resolution PET tomographs: a simulation study. IEEE Transactions on Medical Imaging, 1992, 11, 379-385.	8.9	27

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73	Real Time Implementation of a Wiener Filter Based Crystal Identification Algorithm. IEEE Transactions on Nuclear Science, 2008, 55, 925-929.	2.0	27
74	Crystal Identification Based on Recursive-Least-Squares and Least-Mean-Squares Auto-Regressive Models for Small Animal Pet. IEEE Transactions on Nuclear Science, 2008, 55, 2450-2454.	2.0	27
75	Comparative study of 64Cu/NOTA-[D-Tyr6,Î²Ala11,Thi13,Nle14]BBN(6-14) monomer and dimers for prostate cancer PET imaging. EJNMMI Research, 2012, 2, 8.	2.5	27
76	Study of the resolution performance of an array of discrete detectors with independent readouts for positron emission tomography. IEEE Transactions on Medical Imaging, 1991, 10, 347-357.	8.9	26
77	Fast PET image reconstruction based on SVD decomposition of the system matrix. IEEE Transactions on Nuclear Science, 2001, 48, 761-767.	2.0	26
78	Performance analysis of phoswich/APD detectors and low-noise CMOS preamplifiers for high-resolution PET systems. IEEE Transactions on Nuclear Science, 2001, 48, 650-655.	2.0	26
79	Real Time Coincidence Detection Engine for High Count Rate Timestamp Based PET. IEEE Transactions on Nuclear Science, 2010, 57, 117-124.	2.0	26
80	Passivation of KMPR microfluidic channels with bovine serum albumin (BSA) for improved hemocompatibility characterized with metal-clad waveguides. Sensors and Actuators B: Chemical, 2012, 173, 447-454.	7.8	26
81	Metal chelate grafting at the surface of mesoporous silica nanoparticles (MSNs): physico-chemical and biomedical imaging assessment. Journal of Materials Chemistry B, 2015, 3, 748-758.	5.8	26
82	A Novel Positron Emission Tomography (PET) Approach to Monitor Cardiac Metabolic Pathway Remodeling in Response to Sunitinib Malate. PLoS ONE, 2017, 12, e0169964.	2.5	26
83	Object and detector scatter-function dependence on energy and position in high resolution PET. IEEE Transactions on Nuclear Science, 1995, 42, 1162-1167.	2.0	25
84	Real-Time Coincidence Detection System for Digital High Resolution APD-based Animal PET Scanner. , 0, , .		25
85	CT acquisition using PET detectors and electronics. IEEE Transactions on Nuclear Science, 2005, 52, 634-637.	2.0	25
86	Investigation of the LabPETâ„¢ detector and electronics for photon-counting CT imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 114-117.	1.6	25
87	Timing Improvement by Low-Pass Filtering and Linear Interpolation for the LabPET Scanner. IEEE Transactions on Nuclear Science, 2008, 55, 34-39.	2.0	25
88	Mono- and tri-cationic porphyrin-monoclonal antibody conjugates: photodynamic activity and mechanism of action. Immunology, 2011, 132, 256-265.	4.4	25
89	Sensitivity Increase Through a Neural Network Method for LOR Recovery of ICS Triple Coincidences in High-Resolution Pixelated- Detectors PET Scanners. IEEE Transactions on Nuclear Science, 2015, 62, 82-94.	2.0	25
90	Dynamic imaging of transient metabolic processes by small-animal PET for the evaluation of photosensitizers in photodynamic therapy of cancer. Journal of Nuclear Medicine, 2006, 47, 1119-26.	5.0	25

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91	Shape coexistence and shape transitions in the even-AGe nuclei. Physical Review C, 1982, 25, 2812-2814.	2.9	24
92	A microvolumetric blood counter/sampler for metabolic PET studies in small animals. IEEE Transactions on Nuclear Science, 1998, 45, 2195-2199.	2.0	24
93	The Architecture of LabTEP, a Small Animal APD-Based Digital PET Scanner. , 0, , .		24
94	Assessment of Cancer-Associated Biomarkers by Positron Emission Tomography: Advances and Challenges. Disease Markers, 2002, 18, 211-247.	1.3	23
95	Performance evaluation of the LabPET™ APD-based digital PET scanner. , 2007, , .		23
96	[11C] Acetoacetate Utilization by Breast and Prostate Tumors: a PET and Biodistribution Study in Mice. Molecular Imaging and Biology, 2008, 10, 217-223.	2.6	23
97	Time Determination of BGO-APD Detectors by Digital Signal Processing for Positron Emission Tomography. IEEE Transactions on Nuclear Science, 2009, 56, 2600-2606.	2.0	23
98	Modeling of Single Photon Avalanche Diode Array Detectors for PET Applications. IEEE Transactions on Nuclear Science, 2014, 61, 14-22.	2.0	23
99	The RatCAP Front-End ASIC. IEEE Transactions on Nuclear Science, 2008, 55, 2727-2735.	2.0	22
100	[11C]-Acetoacetate PET imaging: a potential early marker for cardiac heart failure. Nuclear Medicine and Biology, 2014, 41, 863-870.	0.6	22
101	Ultra-Low Noise Charge Sensitive Preamplifier for Scintillation Detection with Avalanche Photodiodes in PET Applications. IEEE Transactions on Nuclear Science, 1987, 34, 91-96.	2.0	21
102	Cardiac studies in rats with /sup 11/C-acetate and PET: a comparison with /sup 13/N-ammonia. IEEE Transactions on Nuclear Science, 2002, 49, 2322-2327.	2.0	21
103	Initial studies using the RatCAP conscious animal PET tomograph. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 14-17.	1.6	21
104	Radioisotopic Purity of Sodium Pertechnetate ^{99m}Tc Produced with a Medium-Energy Cyclotron: Implications for Internal Radiation Dose, Image Quality, and Release Specifications. Journal of Nuclear Medicine, 2015, 56, 1600-1608.	5.0	21
105	Reflectivity quenching of ESR multilayer polymer film reflector in optically bonded scintillator arrays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 851, 62-67.	1.6	21
106	A PET camera simulator with multispectral data acquisition capabilities. IEEE Transactions on Nuclear Science, 1993, 40, 1067-1074.	2.0	20
107	Mechanism of Reduced Myocardial Glucose Utilization During Acute Hypertriglyceridemia in Rats. Molecular Imaging and Biology, 2009, 11, 6-14.	2.6	20
108	PET imaging using 64Cu-labeled sulfophthalocyanines: Synthesis and biodistribution. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 7470-7473.	2.2	20

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109	Angiotensin IIâ€“Converting Enzyme Inhibition Improves Survival, Ventricular Remodeling, and Myocardial Energetics in Experimental Aortic Regurgitation. Circulation: Heart Failure, 2013, 6, 1021-1028.	3.9	20
110	Analytical model of DOI-induced time bias in ultra-fast scintillation detectors for TOF-PET. Physics in Medicine and Biology, 2019, 64, 065009.	3.0	20
111	Performance Simulation of an Ultrahigh Resolution Brain PET Scanner Using 1.2-mm Pixel Detectors. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 334-342.	3.7	20
112	[18F]-fluorodeoxyglucose positron emission tomography of the cat brain: A feasibility study to investigate osteoarthritis-associated pain. Veterinary Journal, 2015, 204, 299-303.	1.7	19
113	The loss of P2X7 receptor expression leads to increase intestinal glucose transit and hepatic steatosis. Scientific Reports, 2017, 7, 12917.	3.3	19
114	Characteristics of Lu$_{1.8}$Gd$_{0.2}$SiO$_{5}$:Ce (LGSO) for APD-Based PET Detector. IEEE Transactions on Nuclear Science, 2010, 57, 55-62.	2.0	18
115	Assessment of the Novel Estrogen Receptor PET Tracer 4-Fluoro-11Î²-methoxy-16Î±-[18F]fluoroestradiol (4FMFES) by PET Imaging in a Breast Cancer Murine Model. Molecular Imaging and Biology, 2013, 15, 625-632.	2.6	18
116	Real-Time Microfluidic Blood-Counting System for PET and SPECT Preclinical Pharmacokinetic Studies. Journal of Nuclear Medicine, 2016, 57, 1460-1466.	5.0	18
117	Static quadrupole moment of the first excited state ofSe74. Physical Review C, 1978, 18, 2801-2804.	2.9	17
118	Tuning of avalanche photodiode PET camera. IEEE Transactions on Nuclear Science, 1993, 40, 1062-1066.	2.0	17
119	Cardiac PET imaging of blood flow, metabolism, and function in normal and infarcted rats. IEEE Transactions on Nuclear Science, 2004, 51, 696-704.	2.0	17
120	Digital signal processing applied to crystal identification in Positron Emission Tomography dedicated to small animals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 385-388.	1.6	17
121	[18F]-fluoroestradiol quantitative PET imaging to differentiate ER+ and ERÎ±-knockdown breast tumors in mice. Nuclear Medicine and Biology, 2012, 39, 57-64.	0.6	17
122	Targeting IL-5RÎ± with antibody-conjugates reveals a strategy for imaging and therapy for invasive bladder cancer. OncoImmunology, 2017, 6, e1331195.	4.6	17
123	Interscapular brown adipose tissue denervation does not promote the oxidative activity of inguinal white adipose tissue in male mice. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E815-E824.	3.5	17
124	Trace Elements in Wet Atmospheric Deposition: Application and Comparison of PIXE, INAA, and Graphite-Furnace AAS Techniques. International Journal of Environmental Analytical Chemistry, 1983, 15, 89-106.	3.3	16
125	Timing performance of scintillators read out by silicon avalanche photodiodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 299, 115-118.	1.6	16
126	Copper-64 labeled sulfophthalocyanines for positron emission tomography (PET) imaging in tumor-bearing rats. Journal of Porphyrins and Phthalocyanines, 2008, 12, 49-53.	0.8	16

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127	DOI estimation through signal arrival time distribution: a theoretical description including proof of concept measurements. Physics in Medicine and Biology, 2021, 66, 095015.	3.0	16
128	Total soluble and insoluble sulfur concentrations in urban snow. Environmental Science & Technology, 1983, 17, 542-546.	10.0	15
129	A Microvolumetric eta Blood Counter for Pharmacokinetic PET Studies in Small Animals. IEEE Transactions on Nuclear Science, 2007, 54, 173-180.	2.0	15
130	A handy time alignment probe for timing calibration of PET scanners. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 599, 113-117.	1.6	15
131	Assessment of ${m Lu}_{1.8}{m Gd}_{0.2}{m SiO}_{5}$ (LGSO) Scintillators With APD Readout for PET/SPECT/CT Detectors. IEEE Transactions on Nuclear Science, 2010, 57, 1512-1517.	2.0	15
132	High spin states and band structure inRh99andRh101. Physical Review C, 1982, 26, 138-148.	2.9	14
133	Medium spin states inRu99andRu101. Physical Review C, 1983, 28, 1504-1518.	2.9	14
134	High Rate Photon Counting CT Using Parallel Digital PET Electronics. IEEE Transactions on Nuclear Science, 2008, 55, 40-47.	2.0	14
135	Development and Validation of a GATE Simulation Model for the LabPET Scanner. IEEE Transactions on Nuclear Science, 2009, 56, 3672-3679.	2.0	14
136	Determination of trace pollutants in urban snow using PIXE techniques. Nuclear Instruments & Methods in Physics Research, 1982, 193, 323-329.	0.9	13
137	Analytical study of the effect of collimation on the performance of PET cameras in 3-D imaging. IEEE Transactions on Nuclear Science, 1990, 37, 823-831.	2.0	13
138	Normalization of multispectral data in positron emission tomography. Physics in Medicine and Biology, 1993, 38, 1745-1760.	3.0	13
139	Initial Performance of the RatCAP, a PET Camera for Conscious Rat Brain Imaging. , 0, , .		13
140	Crystal Identification Based on Recursive-Least-Squares and Least-Mean-Squares AutoRegressive Models for Small-Animal PET. , 0, , .		13
141	System Integration of the LabPET Small Animal PET Scanner. , 2006, , .		13
142	Physical characterization of the LabPET™ LGSO and LYSO scintillators. , 2007, , .		13
143	A Sub-Nanosecond Time Interval Detection System Using FPGA Embedded I/O Resources. IEEE Transactions on Nuclear Science, 2010, 57, 519-524.	2.0	13
144	Blood compatible microfluidic system for pharmacokinetic studies in small animals. Lab on A Chip, 2012, 12, 4683.	6.0	13

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145	Mammary Cancer Bone Metastasis Follow-up Using Multimodal Small-Animal MR and PET Imaging. Journal of Nuclear Medicine, 2013, 54, 944-952.	5.0	13
146	Fully 3D iterative CT reconstruction using polar coordinates. Medical Physics, 2013, 40, 111904.	3.0	13
147	Sensitivity in PET: Neural networks as an alternative to compton photons LOR analysis. , 2007, , .		12
148	Embedded real time digital signal processing unit for a 64-channel PET detector module. , 2011, , .		12
149	LabPET II, an APD-based PET detector module with counting CT imaging capability. , 2011, , .		12
150	Predicting efficacy of photodynamic therapy by real-time FDG-PET in a mouse tumour model. Photochemical and Photobiological Sciences, 2012, 11, 364-370.	2.9	12
151	Initial Evaluation of LabPET/SPECT Dual Modality Animal Imaging System. IEEE Transactions on Nuclear Science, 2013, 60, 76-81.	2.0	12
152	Clinical Trial with Sodium ^{99m}Tc-Pertechnetate Produced by a Medium-Energy Cyclotron: Biodistribution and Safety Assessment in Patients with Abnormal Thyroid Function. Journal of Nuclear Medicine, 2017, 58, 791-798.	5.0	12
153	Mouse Mast Cell Protease 4 Deletion Protects Heart Function and Survival After Permanent Myocardial Infarction. Frontiers in Pharmacology, 2018, 9, 868.	3.5	12
154	Trace element contamination in blood-collecting devices. International Journal of Nuclear Medicine and Biology, 1979, 6, 207-211.	0.3	11
155	Level structure ofKr79andKr81. Physical Review C, 1983, 27, 983-1002.	2.9	11
156	Fast, accurate and versatile Monte Carlo method for computing system matrix. , 2007, , .		11
157	Performance evaluation of the LabPET12, a large axial FOV APD-based digital PET scanner. , 2009, , .		11
158	Positron emission tomography detection of human endothelial cell and fibroblast monolayers: effect of pretreament and cell density on 18FDG uptake. Vascular Cell, 2012, 4, 5.	0.2	11
159	Endurance training or beta-blockade can partially block the energy metabolism remodeling taking place in experimental chronic left ventricle volume overload. BMC Cardiovascular Disorders, 2014, 14, 190.	1.7	11
160	On the use of the PIXE method to determine river water pollution in asbestos mining areas. The International Journal of Applied Radiation and Isotopes, 1979, 30, 261-262.	0.7	10
161	Asbestos pollution levels in river water measured by proton-induced X-ray emission (PIXE) techniques. Environmental Pollution Series B: Chemical and Physical, 1983, 5, 83-90.	0.7	10
162	Study of light collection in multi-crystal detectors. IEEE Transactions on Nuclear Science, 2000, 47, 1634-1639.	2.0	10

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163	Wavelets-Based Crystal Identification of Phoswich Detectors for Small-Animal PET. IEEE Transactions on Nuclear Science, 2008, 55, 930-935.	2.0	10
164	Real Time Artificial Neural Network FPGA Implementation for Triple Coincidences Recovery in PET. IEEE Transactions on Nuclear Science, 2015, 62, 824-831.	2.0	10
165	NLS-Cholic Acid Conjugation to IL-5RÎ±-Specific Antibody Improves Cellular Accumulation and In Vivo Tumor-Targeting Properties in a Bladder Cancer Model. Bioconjugate Chemistry, 2018, 29, 1352-1363.	3.6	10
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