

Roger Lecomte

List of Publications by Year in descending order

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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	Investigation of a Model-Based Time-Over-Threshold Technique for Phoswich Crystal Discrimination. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 393-403.	3.7	2
2	Predicting Small Lesion Detectability for a Small Animal TOF PET Scanner. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 601-608.	3.7	0
3	The ultra high sensitivity blood counter: a compact, MRI-compatible, radioactivity counter for pharmacokinetic studies in μ L volumes. Biomedical Physics and Engineering Express, 2022, , .	1.2	0
4	Estimation of the Internal Dose Imparted by ^{18}F -Fluorodeoxyglucose to Tissues by Using Fricke Dosimetry in a Phantom and Positron Emission Tomography. Frontiers in Nuclear Medicine, 2022, 2, .	1.2	1
5	Estrogenic impregnation alters pain expression: analysis through functional neuropeptidomics in a surgical rat model of osteoarthritis. Naunyn-Schmiedeberg's Archives of Pharmacology, 2022, 395, 703-715.	3.0	4
6	Monte Carlo simulations of energy, time and spatial evolution of primary electrons generated by ^{511}keV photons in various scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1030, 166449.	1.6	6
7	Novel carbon nanotube-composite for electromagnetic shielding of radiation detectors: A step toward fully integrated positron emission tomography and magnetic resonance imaging systems. Microelectronic Engineering, 2022, 262, 111838.	2.4	1
8	TOF Benefits and Trade-offs on Image Contrast-to-Noise Ratio Performance for a Small Animal PET Scanner. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 687-693.	3.7	5
9	Performance evaluation of the mouse version of the LabPET II PET scanner. Physics in Medicine and Biology, 2021, 66, 065019.	3.0	7
10	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
11	Simplified size adjusted dose reference levels for adult CT examinations: A regional study. European Journal of Radiology, 2021, 142, 109861.	2.6	8
12	Improvement of Spatial Resolution With Iterative PET Reconstruction Using Ultrafast TOF. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 729-737.	3.7	7
13	Performance investigation of LabPET II detector technology in an MRI-like environment. Physics in Medicine and Biology, 2020, 65, 035001.	3.0	3
14	A thermal model of the LabPET II ASIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 953, 163142.	1.6	1
15	Cross-Species Physiological Assessment of Brain Estrogen Receptor Expression Using ^{18}F -FES and ^{18}F -4FMFES PET Imaging. Molecular Imaging and Biology, 2020, 22, 1403-1413.	2.6	5
16	Thermal management proposal for a low-profile positron emission tomography fully pixelated front-end for submillimetric resolution MRI compatible insert dedicated to small animals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 966, 163848.	1.6	1
17	Dual-threshold Time-over-Threshold nonlinearity correction for PET detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 971, 164100.	1.6	5
18	Cross-validation of a non-invasive positron detector to measure the arterial input function for pharmacokinetic modelling in dynamic positron emission tomography. Physica Medica, 2020, 76, 92-99.	0.7	5

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19	Experimental validation of a coincidence time resolution metric including depth-of-interaction bias for TOF-PET. <i>Physics in Medicine and Biology</i> , 2020, 65, 245004.	3.0	8
20	MRI-compatibility study of a PET-insert based on a low-profile detection front-end with submillimeter spatial resolution. <i>Medical Physics</i> , 2020, 47, 4396-4406.	3.0	2
21	A preclinical PET dual-tracer imaging protocol for ER and HER2 phenotyping in breast cancer xenografts. <i>EJNMMI Research</i> , 2020, 10, 69.	2.5	6
22	Annihilation Photon Acolinearity with Ultra-fast ToF-PET. , 2020, , .		1
23	Intratumoral 18F-FLT infusion in metabolic targeted radiotherapy. <i>EJNMMI Research</i> , 2019, 9, 33.	2.5	2
24	Studying the effects of metallic components of PET-insert on PET and MRI performance due to gradient switching. <i>Physics in Medicine and Biology</i> , 2019, 64, 075003.	3.0	6
25	Analytical model of DOI-induced time bias in ultra-fast scintillation detectors for TOF-PET. <i>Physics in Medicine and Biology</i> , 2019, 64, 065009.	3.0	20
26	Dichotomic effects of clinically used drugs on tumor growth, bone remodeling and pain management. <i>Scientific Reports</i> , 2019, 9, 20155.	3.3	3
27	Performance Simulation of an Ultrahigh Resolution Brain PET Scanner Using 1.2-mm Pixel Detectors. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 334-342.	3.7	20
28	Initial Evaluation of Antibody-conjugates Modified with Viral-derived Peptides for Increasing Cellular Accumulation and Improving Tumor Targeting. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	4
29	A fully automated and scalable timing probe-based method for time alignment of the LabPET II scanners. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 889, 1-6.	1.6	4
30	NLS-Cholic Acid Conjugation to IL-5R α -Specific Antibody Improves Cellular Accumulation and <i>In Vivo</i> Tumor-Targeting Properties in a Bladder Cancer Model. <i>Bioconjugate Chemistry</i> , 2018, 29, 1352-1363.	3.6	10
31	Improved Estrogen Receptor Assessment by PET Using the Novel Radiotracer ¹⁸ F-4FMFES in Estrogen Receptor-Positive Breast Cancer Patients: An Ongoing Phase II Clinical Trial. <i>Journal of Nuclear Medicine</i> , 2018, 59, 197-203.	5.0	32
32	Mouse Mast Cell Protease 4 Deletion Protects Heart Function and Survival After Permanent Myocardial Infarction. <i>Frontiers in Pharmacology</i> , 2018, 9, 868.	3.5	12
33	Using Docker, an Industry Standard Technology to Run GATE Simulation on Multiple Platforms. , 2018, , .		0
34	Interscapular brown adipose tissue denervation does not promote the oxidative activity of inguinal white adipose tissue in male mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E815-E824.	3.5	17
35	Simulation of scintillation light output in LYSO scintillators through a full factorial design. <i>Physics in Medicine and Biology</i> , 2017, 62, 669-683.	3.0	9
36	Impact of dianionic and dicationic linkers on tumor uptake and biodistribution of [⁶⁴ Cu]Cu/NOTA peptide-based gastrin-releasing peptide receptors antagonists. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2017, 60, 200-212.	1.0	6

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37	Loss of UCP2 impairs cold-induced non-shivering thermogenesis by promoting a shift toward glucose utilization in brown adipose tissue. <i>Biochimie</i> , 2017, 134, 118-126.	2.6	34
38	Targeting IL-5R α with antibody-conjugates reveals a strategy for imaging and therapy for invasive bladder cancer. <i>Oncolmunology</i> , 2017, 6, e1331195.	4.6	17
39	Reflectivity quenching of ESR multilayer polymer film reflector in optically bonded scintillator arrays. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 851, 62-67.	1.6	21
40	Scintillation and Spectroscopic Characteristics of 90%Lu LGSO With Variable Decay Times. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2017, 1, 23-29.	3.7	5
41	The loss of P2X7 receptor expression leads to increase intestinal glucose transit and hepatic steatosis. <i>Scientific Reports</i> , 2017, 7, 12917.	3.3	19
42	Thermal cooling system development for LabPET II scanners by forced convection flow. , 2017, , .		9
43	Clinical Trial with Sodium ^{99m} Tc-Pertechnetate Produced by a Medium-Energy Cyclotron: Biodistribution and Safety Assessment in Patients with Abnormal Thyroid Function. <i>Journal of Nuclear Medicine</i> , 2017, 58, 791-798.	5.0	12
44	A Novel Positron Emission Tomography (PET) Approach to Monitor Cardiac Metabolic Pathway Remodeling in Response to Sunitinib Malate. <i>PLoS ONE</i> , 2017, 12, e0169964.	2.5	26
45	Firmware architecture of the data acquisition system for the LabPET II mouse scanner. , 2016, , .		5
46	Comparison of two motion compensation models: Adding ordered subset into the mix. , 2016, , .		0
47	Preliminary results of an embedded timing probe for calibrating PET scanner. , 2016, , .		0
48	Revisiting motion compensation models in PET image reconstruction. , 2016, , .		2
49	Impacts of Intelligent Automated Quality Control on a Small Animal APD-Based Digital PET Scanner. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 2550-2557.	2.0	1
50	Postprandial fatty acid uptake and adipocyte remodeling in angiotensin type 2 receptor-deficient mice fed a high-fat/high-fructose diet. <i>Adipocyte</i> , 2016, 5, 43-52.	2.8	7
51	Real-Time Microfluidic Blood-Counting System for PET and SPECT Preclinical Pharmacokinetic Studies. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1460-1466.	5.0	18
52	mTORC1 is Required for Brown Adipose Tissue Recruitment and Metabolic Adaptation to Cold. <i>Scientific Reports</i> , 2016, 6, 37223.	3.3	64
53	Metabolic activity of brown, beige, and white adipose tissues in response to chronic adrenergic stimulation in male mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E260-E268.	3.5	92
54	Poster - 01: LabPET II Pixelated APD-Based PET Scanner for High-Resolution Preclinical Imaging. <i>Medical Physics</i> , 2016, 43, 4935-4935.	3.0	2

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55	System architecture of a fully combined PET/CT scanner using LabPET [®] electronics with an upgraded analog front-end optimized for PET and CT counting mode operation. , 2015, , .		1
56	Performance characterization of a dual-threshold time-over-threshold APD-based detector front-end module for PET imaging. , 2015, , .		4
57	Multipinhole SPECT helical scan parameters and imaging volume. Medical Physics, 2015, 42, 6599-6609.	3.0	0
58	Optimization of Single Photon Avalanche Diode array detectors with a custom simulator. , 2015, , .		4
59	Initial results for automatic calibration of the LabPET II front-end detector module. , 2015, , .		1
60	Simulation of signal losses in highly pixelated scintillator arrays read out by discrete photodetectors. , 2015, , .		2
61	Initial results of applying automatic channel fault detection and diagnosis on small animal APD-based digital PET scanners. , 2015, , .		0
62	Transcriptional Changes Associated with Long-Term Left Ventricle Volume Overload in Rats: Impact on Enzymes Related to Myocardial Energy Metabolism. BioMed Research International, 2015, 2015, 1-15.	1.9	9
63	<i>In vivo</i> measurement of energy substrate contribution to cold-induced brown adipose tissue thermogenesis. FASEB Journal, 2015, 29, 2046-2058.	0.5	183
64	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
65	Improved LabPET Detectors Using ${}^m\text{Lu}_{1.8}{}^m\text{Gd}_{0.2}{}^m\text{SiO}_5$ (LGSO) Scintillator Blocks. IEEE Transactions on Nuclear Science, 2015, 62, 36-41.	2.0	5
66	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
67	Automatic Channel Fault Detection and Diagnosis System for a Small Animal APD-Based Digital PET Scanner. IEEE Transactions on Nuclear Science, 2015, 62, 1070-1076.	2.0	3
68	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
69	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
70	[¹⁸ F]-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
71	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
72	A real-time follow-up of photodynamic therapy during PET imaging. Photodiagnosis and Photodynamic Therapy, 2015, 12, 428-435.	2.6	3

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73	Optimization of the reference region method for dual pharmacokinetic modeling using ^{67}Ga -DTPA/MRI and ^{18}F -FDG/PET. Magnetic Resonance in Medicine, 2015, 73, 740-748.	3.0	7
74	Keynote speakers: The challenges of pattern recognition for speech signals. , 2014, , .		0
75	Automatic channel fault detection and diagnosis system for a small animal APD-based digital PET scanner. , 2014, , .		1
76	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
77	A Longitudinal Low Dose ^{125}I -CT Analysis of Bone Healing in Mice: A Pilot Study. Advances in Orthopedics, 2014, 2014, 1-9.	1.0	2
78	Arterial input function sampling without surgery in rats for positron emission tomography molecular imaging. Nuclear Medicine Communications, 2014, 35, 666-676.	1.1	4
79	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
80	Deciphering PDT-induced inflammatory responses using real-time FDG-PET in a mouse tumour model. Photochemical and Photobiological Sciences, 2014, 13, 1434-1443.	2.9	3
81	^{11}C -Acetoacetate PET imaging: a potential early marker for cardiac heart failure. Nuclear Medicine and Biology, 2014, 41, 863-870.	0.6	22
82	Automatic Channel Fault Detection on a Small Animal APD-Based Digital PET Scanner. IEEE Transactions on Nuclear Science, 2014, 61, 2494-2502.	2.0	6
83	Modeling of Single Photon Avalanche Diode Array Detectors for PET Applications. IEEE Transactions on Nuclear Science, 2014, 61, 14-22.	2.0	23
84	Scintillation characteristics of 90%Lu LGSO with different decay times. , 2014, , .		4
85	Effect of inter-crystal scatter events on coincidence detection in LabPET scanners. , 2014, , .		0
86	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
87	Initial Evaluation of LabPET/SPECT Dual Modality Animal Imaging System. IEEE Transactions on Nuclear Science, 2013, 60, 76-81.	2.0	12
88	Assessment of the Novel Estrogen Receptor PET Tracer 4-Fluoro-11 β -methoxy-16 α -[^{18}F]fluoroestradiol (4FMFES) by PET Imaging in a Breast Cancer Murine Model. Molecular Imaging and Biology, 2013, 15, 625-632.	2.6	18
89	^{68}Ga /DOTA- and ^{64}Cu /NOTA-Phthalocyanine Conjugates as Fluorescent/PET Bimodal Imaging Probes. Bioconjugate Chemistry, 2013, 24, 1624-1633.	3.6	40
90	Conversion of arterial input functions for dual pharmacokinetic modeling using ^{67}Ga -DTPA/MRI and ^{18}F -FDG/PET. Magnetic Resonance in Medicine, 2013, 69, 781-792.	3.0	33

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91	In situ positron emission tomography monitoring of endothelial cells embedded in perfused fibrin gels. <i>Process Biochemistry</i> , 2013, 48, 1645-1650.	3.7	0
92	Mammary Cancer Bone Metastasis Follow-up Using Multimodal Small-Animal MR and PET Imaging. <i>Journal of Nuclear Medicine</i> , 2013, 54, 944-952.	5.0	13
93	Ultra-high sensitivity detection of bimodal probes at ultra-low noise for combined fluorescence and positron emission tomography imaging. , 2013, , .		1
94	Angiotensin II-Converted Enzyme Inhibition Improves Survival, Ventricular Remodeling, and Myocardial Energetics in Experimental Aortic Regurgitation. <i>Circulation: Heart Failure</i> , 2013, 6, 1021-1028.	3.9	20
95	PET-based geometrical calibration of a pinhole SPECT add-on for an animal PET scanner. <i>Physics in Medicine and Biology</i> , 2013, 58, 2011-2025.	3.0	2
96	Comment on "Temperature dependence of APD-based PET scanners" [Med. Phys. 40(9) 092506 (13pp.) (2013)]. <i>Medical Physics</i> , 2013, 41, 017101.	3.0	2
97	Energy window optimization of PET detectors for SPECT imaging. , 2013, , .		0
98	Preliminary results of an automatic channel fault detection system on a small animal APD-based digital PET scanner. , 2013, , .		0
99	A Dual Tracer PET-MRI Protocol for the Quantitative Measure of Regional Brain Energy Substrates Uptake in the Rat. <i>Journal of Visualized Experiments</i> , 2013, , 50761.	0.3	1
100	Fully 3D iterative CT reconstruction using polar coordinates. <i>Medical Physics</i> , 2013, 40, 111904.	3.0	13
101	Toward truly combined PET/CT imaging using PET detectors and photon counting CT with iterative reconstruction implementing physical detector response. <i>Medical Physics</i> , 2012, 39, 5697-5707.	3.0	6
102	Polyenergetic CT sinogram generator. , 2012, , .		0
103	Design of a real-time FPGA-based DAQ architecture for the LabPET II, an APD-based scanner dedicated to small animal PET imaging. , 2012, , .		4
104	Slit-slat collimator geometrical calibration for a PET/SPECT dual modality animal scanner. , 2012, , .		1
105	NEMA NU 4-2008 Comparison of Preclinical PET Imaging Systems. <i>Journal of Nuclear Medicine</i> , 2012, 53, 1300-1309.	5.0	191
106	Small-Animal PET: What Is It, and Why Do We Need It?. <i>Journal of Nuclear Medicine Technology</i> , 2012, 40, 157-165.	0.8	94
107	Parameter optimization and effective imaging volume determination of helical scan for a pinhole animal SPECT. , 2012, , .		0
108	Evaluation of easily implementable inter-crystal scatter recovery schemes in high-resolution PET imaging. , 2012, , .		6

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109	EP 80317, a selective CD36 ligand, shows cardioprotective effects against post-ischæmic myocardial damage in mice. <i>Cardiovascular Research</i> , 2012, 96, 99-108.	3.8	46
110	Predicting efficacy of photodynamic therapy by real-time FDG-PET in a mouse tumour model. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 364-370.	2.9	12
111	A fully integrated pulse charge generator embedded in a 64-channel readout ASIC dedicated to a PET/CT detector module. , 2012, , .		5
112	The Effect of Photon Statistics and Pulse Shaping on the Performance of the Wiener Filter Crystal Identification Algorithm Applied to LabPET Phoswich Detectors. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 513-519.	2.0	1
113	[¹⁸ F]-fluoroestradiol quantitative PET imaging to differentiate ER+ and ER±-knockdown breast tumors in mice. <i>Nuclear Medicine and Biology</i> , 2012, 39, 57-64.	0.6	17
114	[¹¹ C]Acetate restâ€“stress protocol to assess myocardial perfusion and oxygen consumption reserve in a model of congestive heart failure in rats. <i>Nuclear Medicine and Biology</i> , 2012, 39, 287-294.	0.6	29
115	Positron emission tomography detection of human endothelial cell and fibroblast monolayers: effect of pretreatment and cell density on 18FDG uptake. <i>Vascular Cell</i> , 2012, 4, 5.	0.2	11
116	The ketogenic diet increases brain glucose and ketone uptake in aged rats: A dual tracer PET and volumetric MRI study. <i>Brain Research</i> , 2012, 1488, 14-23.	2.2	41
117	Passivation of KMPR microfluidic channels with bovine serum albumin (BSA) for improved hemocompatibility characterized with metal-clad waveguides. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 447-454.	7.8	26
118	Quantitative hormone therapy follow-up in an ER+/ER±KD mouse tumor model using FDG and [¹¹ C]-methionine PET imaging. <i>EJNMMI Research</i> , 2012, 2, 61.	2.5	8
119	Blood compatible microfluidic system for pharmacokinetic studies in small animals. <i>Lab on A Chip</i> , 2012, 12, 4683.	6.0	13
120	N-3 fatty acids, neuronal activity and energy metabolism in the brain. <i>Oleagineux Corps Gras Lipides</i> , 2012, 19, 238-244.	0.2	2
121	Novel Radiolabeled Peptides for Breast and Prostate Tumor PET Imaging: ⁶⁴ Cu and ⁶⁸ Ga/NOTA-PEG-[⁶ Tyr, ¹¹ Ala, ¹³ Thi, ¹⁴ Nle, ¹⁴ Bbn(6-14)] Bioconjugate Chemistry, 2012, 23, 1687-1693.		
122	Comparative study of ⁶⁴ Cu/NOTA-[D-Tyr ⁶ , ¹¹ Ala ¹¹ , Thi ¹³ , Nle ¹⁴]BBN(6-14) monomer and dimers for prostate cancer PET imaging. <i>EJNMMI Research</i> , 2012, 2, 8.	2.5	27
123	Optimization and Calibration of Slat Position for a SPECT With Slit-Slat Collimator and Pixelated Detector Crystals. <i>IEEE Transactions on Nuclear Science</i> , 2011, 58, 2234-2243.	2.0	8
124	Embedded real time digital signal processing unit for a 64-channel PET detector module. , 2011, , .		12
125	Modeling of single photon avalanche diode array detectors for PET applications. , 2011, , .		3
126	LabPET II, an APD-based PET detector module with counting CT imaging capability. , 2011, , .		12

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127	Mono- and tri-cationic porphyrin-monoclonal antibody conjugates: photodynamic activity and mechanism of action. <i>Immunology</i> , 2011, 132, 256-265.	4.4	25
128	High efficiency microfluidic beta detector for pharmacokinetic studies in small animals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 652, 735-738.	1.6	8
129	PET imaging using ^{64}Cu -labeled sulfophthalocyanines: Synthesis and biodistribution. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 7470-7473.	2.2	20
130	Cylindrical and spherical ray-tracing for CT iterative reconstruction. , 2011, , .		2
131	Imaging performance of a PET/SPECT dual modality animal system. , 2011, , .		2
132	Slit-slat collimator geometrical calibration for a PET/SPECT dual modality animal scanner. , 2011, , .		3
133	An investigation of $\text{Lu}^{1.8}\text{Gd}_{0.2}\text{SiO}_5\text{:Ce}$ (LGSO) phoswich crystal identification by digital methods. , 2011, , .		0
134	Mild experimental ketosis increases brain uptake of ^{11}C -acetoacetate and ^{18}F -fluorodeoxyglucose: a dual-tracer PET imaging study in rats. <i>Nutritional Neuroscience</i> , 2011, 14, 51-58.	3.1	37
135	Image-derived input function in dynamic human PET/CT: methodology and validation with ^{11}C -acetate and ^{18}F -fluorothioheptadecanoic acid in muscle and ^{18}F -fluorodeoxyglucose in brain. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2010, 37, 1539-1550.	6.4	86
136	Behavioral, Medical Imaging and Histopathological Features of a New Rat Model of Bone Cancer Pain. <i>PLoS ONE</i> , 2010, 5, e13774.	2.5	49
137	Abnormal in vivo myocardial energy substrate uptake in diet-induced type 2 diabetic cardiomyopathy in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E1049-E1057.	3.5	82
138	Correction of partial volume effect in the projections in PET studies. , 2010, , .		1
139	Results from neural networks for recovery of PET triple coincidences. , 2010, , .		2
140	Derivation of the system matrix for an animal SPECT scanner with rotational collimator and stationary ring detector. , 2010, , .		8
141	Digital Identification of Fast Scintillators in Phoswich APD-Based Detectors. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 1435-1440.	2.0	7
142	Calibration process for improving Crystal Identification rate in the LabPET \times 2122; phoswich detectors. , 2010, , .		1
143	New UV-enhanced, ultra-low noise silicon avalanche photodiode for radiation detection and medical imaging. , 2010, , .		4
144	Improved LabPET detectors using $\text{Lu}^{1.8}\text{Gd}_{0.2}\text{SiO}_5\text{:Ce}$ (LGSO) scintillator blocks. , 2010, , .		0

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145	Geometrical calibration for an animal PET converted SPECT. , 2010, , .		4
146	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
147	Assessment of Lu _{1.8} Gd _{0.2} SiO ₅ (LGSO) Scintillators With APD Readout for PET/SPECT/CT Detectors. IEEE Transactions on Nuclear Science, 2010, 57, 1512-1517.	2.0	15
148	Microfluidic beta and conversion electron radiation detector for preclinical pharmacokinetic studies with PET and SPECT radiotracers. , 2010, , .		2
149	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
150	ARMAX-RLS Parameter-Estimation Crystal Identification in Phoswich PET Detectors. IEEE Transactions on Nuclear Science, 2010, 57, 982-989.	2.0	6
151	Firmware Upgrade for the Data Acquisition System of the LabPET Small Animal PET Scanner. IEEE Transactions on Nuclear Science, 2010, 57, 556-560.	2.0	7
152	Real Time Coincidence Detection Engine for High Count Rate Timestamp Based PET. IEEE Transactions on Nuclear Science, 2010, 57, 117-124.	2.0	26
153	Performance evaluation of the LabPET12, a large axial FOV APD-based digital PET scanner. , 2009, , .		11
154	Monte Carlo results from neural networks as an alternative to Compton photons LOR analysis. , 2009, , .		6
155	A pulse simulator for crystal identification validation of phoswich detectors used in positron emission tomography. , 2009, 2009, 6942-5.		2
156	LabPET pulse simulator for crystal identification validation of multi-layer phoswich detectors. , 2009, , .		0
157	Fast high lutetium content scintillators as candidates for APD-based phoswich detectors with depth-of-interaction (DOI). , 2009, , .		1
158	Vascular-targeted photodynamic therapy with BF ₂ -chelated Tetraaryl-Azadipyromethene agents: a multi-modality molecular imaging approach to therapeutic assessment. British Journal of Cancer, 2009, 101, 1565-1573.	6.4	86
159	PET study of ¹¹ C-acetoacetate kinetics in rat brain during dietary treatments affecting ketosis. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E796-E801.	3.5	50
160	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
161	Mechanism of Reduced Myocardial Glucose Utilization During Acute Hypertriglyceridemia in Rats. Molecular Imaging and Biology, 2009, 11, 6-14.	2.6	20
162	Novel detector technology for clinical PET. European Journal of Nuclear Medicine and Molecular Imaging, 2009, 36, 69-85.	6.4	104

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163	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
164	LabPET inter-crystal scatter study using GATE. , 2009, , .		4
165	Development and Validation of a GATE Simulation Model for the LabPET Scanner. IEEE Transactions on Nuclear Science, 2009, 56, 3672-3679.	2.0	14
166	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
167	Investigation of Lu ^{1.8} Gd ^{0.2} SiO ⁵ :Ce (LGSO) scintillators with APD readout for medical imaging applications. , 2009, , .		0
168	Time Discrimination Techniques Using Artificial Neural Networks for Positron Emission Tomography. IEEE Transactions on Nuclear Science, 2009, 56, 588-595.	2.0	9
169	A Sub-Nanosecond Edge Detection System using embedded FPGA fabrics. , 2009, , .		1
170	Performance Evaluation of the LabPET APD-Based Digital PET Scanner. IEEE Transactions on Nuclear Science, 2009, 56, 10-16.	2.0	134
171	Reconstructed Image Resolution of the LabPET Small Animal Scanner Measured Using Simulated Partial Volume Effects. IEEE Transactions on Nuclear Science, 2009, 56, 2689-2695.	2.0	2
172	Signal Deconvolution Concept Combined With Cubic Spline Interpolation to Improve Timing With Phoswich PET Detectors. IEEE Transactions on Nuclear Science, 2009, 56, 581-587.	2.0	7
173	Firmware upgrade for the data acquisition system of the LabPET™ small animal PET scanner. , 2009, , .		0
174	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
175	A cross-correlation method for crystal identification in APD-based phoswich detectors used in small animal PET scanner. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 597, 238-241.	1.6	7
176	[¹¹ C] 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
177	System Architecture of the LabPET Small Animal PET Scanner. IEEE Transactions on Nuclear Science, 2008, 55, 2546-2550.	2.0	47
178	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
179	Real Time Implementation of a Wiener Filter Based Crystal Identification Algorithm. IEEE Transactions on Nuclear Science, 2008, 55, 925-929.	2.0	27
180	LabPET II, a novel 64-channel APD-based PET detector module with individual pixel readout achieving submillimetric spatial resolution. , 2008, , .		5

#	ARTICLE	IF	CITATIONS
181	A Fast Crystal Identification Algorithm Applied to the LabPET ² , [†] Phoswich Detectors. IEEE Transactions on Nuclear Science, 2008, 55, 1644-1651.	2.0	8
182	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
183	Wavelets-Based Crystal Identification of Phoswich Detectors for Small-Animal PET. IEEE Transactions on Nuclear Science, 2008, 55, 930-935.	2.0	10
184	Development and validation of a GATE simulation model for the LabPET scanner. , 2008, , .		0
185	The RatCAP Front-End ASIC. IEEE Transactions on Nuclear Science, 2008, 55, 2727-2735.	2.0	22
186	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
187	High Rate Photon Counting CT Using Parallel Digital PET Electronics. IEEE Transactions on Nuclear Science, 2008, 55, 40-47.	2.0	14
188	Cardiac PET image segmentation by a deformable model with a force field driven speed term. , 2008, , .		4
189	PET kinetic modeling of rat tumors simultaneously treated with photodynamic therapy: A reference tissue model. , 2008, , .		0
190	Iterative CT reconstruction using LabPET ² ; detector modules. , 2008, , .		6
191	Signal deconvolution concept combined with Cubic Spline interpolation to improve timing with phoswich pet detectors. , 2008, , .		1
192	Characteristics of Lu ^{1.8} Gd ^{0.2} SiO ₅ :Ce (LGSO) for APD-based PET detector. , 2008, , .		3
193	Rapid prototyping of integrated microfluidic devices for combined radiation detection and plasma separation. , 2008, , .		3
194	Imaging performance of the LabPET ² ; APD-based digital PET scanner. , 2008, , .		5
195	Physical characterization of the LabPET ² ; LGSO and LYSO scintillators. , 2007, , .		13
196	The RatCAP front-end ASIC. , 2007, , .		3
197	Kinetic modeling of PET data and FDG continuous infusion in rat tumors simultaneously treated with PDT. , 2007, , .		1
198	Roadmap to fully-digital PET/CT scanners. , 2007, , .		5

#	ARTICLE	IF	CITATIONS
199	Sensitivity in PET: Neural networks as an alternative to Compton photons LOR analysis. , 2007, , .		12
200	Comparison of analytical and algebraic 2D tomographic reconstruction approaches for irregularly sampled microCT data. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2916-9.	0.5	1
201	A New Tool for Molecular Imaging: The Microvolumetric \hat{A} Blood Counter. Journal of Nuclear Medicine, 2007, 48, 1197-1206.	5.0	51
202	Accelerated iterative image reconstruction methods based on block-circulant system matrix derived from a cylindrical image representation. , 2007, , .		9
203	Biomedical Imaging: SPECT and PET. AIP Conference Proceedings, 2007, , .	0.4	5
204	Standardization and Detailed Characterization of the Syngeneic Fischer/F98 Glioma Model. Canadian Journal of Neurological Sciences, 2007, 34, 296-306.	0.5	56
205	Fast 3D image reconstruction method based on SVD decomposition of a block-circulant system matrix. , 2007, , .		1
206	ULTRA-Fast Wiener filter based crystal identification algorithm applied to the LabPET TM phoswich detectors. , 2007, , .		1
207	Fast, accurate and versatile Monte Carlo method for computing system matrix. , 2007, , .		11
208	The design and performance of the \hat{n} -generation RatCAP awake rat brain PET system. , 2007, , .		8
209	A Microvolumetric β Blood Counter for Pharmacokinetic PET Studies in Small Animals. IEEE Transactions on Nuclear Science, 2007, 54, 173-180.	2.0	15
210	Performance evaluation of the LabPET TM APD-based digital PET scanner. , 2007, , .		23
211	High Rate Photon Counting CT Using Parallel Digital PET Electronics. , 2007, , .		1
212	Timing improvement by low-pass filtering and linear interpolation for the LabPET TM scanner. , 2007, , .		3
213	Investigation of the LabPET TM 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
214	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
215	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
216	PET imaging of apoptosis with ⁶⁴ Cu-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

#	ARTICLE	IF	CITATIONS
217	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. <i>Molecular Imaging and Biology</i> , 2007, 9, 144-150.	2.6	43
218	MLEM Reconstructed Image Resolution from the LabPET Animal Scanner. , 2006, , .		3
219	Real time digital signal processing implementation for an APD-based PET scanner with phoswich detectors. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 784-788.	2.0	36
220	Kinetic Modeling of FDG uptake in rat tumors During photodynamic therapy. , 2006, , .		0
221	Performance evaluation of a dual-crystal APD-based detector modules for positron emission tomography. , 2006, 6142, 243.		8
222	Endotoxin-induced heart dysfunction in rats: Assessment of myocardial perfusion and permeability and the role of fluid resuscitation*. <i>Critical Care Medicine</i> , 2006, 34, 127-133.	0.9	81
223	Real Time Implementation of a Wiener Filter Based Crystal Identification Algorithm for Photon Counting CT Imaging. , 2006, , .		9
224	Novel CT detector based on an inorganic scintillator working in photon-counting mode. , 2006, , .		3
225	The Effect of Insulin on the Intracellular Distribution of 14(R,S)-[18F]Fluoro-6-thia-heptadecanoic Acid in Rats. <i>Molecular Imaging and Biology</i> , 2006, 8, 237-244.	2.6	43
226	List-mode image reconstruction for real-time PET imaging. <i>Journal of Visual Communication and Image Representation</i> , 2006, 17, 630-646.	2.8	3
227	Digital Coincidence Processing for the RatCAP Conscious Rat Brain PET Scanner. , 2006, , .		4
228	Performance Enhancement of the RatCAP Awake Rat Brain PET System. , 2006, , .		3
229	System Integration of the LabPET Small Animal PET Scanner. , 2006, , .		13
230	Positron Emission Tomography Imaging of Tumor Response after Photodynamic Therapy. <i>Journal of Environmental Pathology, Toxicology and Oncology</i> , 2006, 25, 239-250.	1.2	9
231	Dynamic imaging of transient metabolic processes by small-animal PET for the evaluation of photosensitizers in photodynamic therapy of cancer. <i>Journal of Nuclear Medicine</i> , 2006, 47, 1119-26.	5.0	25
232	The RatCAP conscious small animal PET tomography. , 2005, , .		5
233	Architecture of a dual-modality, high-resolution, fully digital positron emission tomography/computed tomography (PET/CT) scanner for small animal imaging. <i>IEEE Transactions on Nuclear Science</i> , 2005, 52, 691-696.	2.0	45
234	CT acquisition using PET detectors and electronics. <i>IEEE Transactions on Nuclear Science</i> , 2005, 52, 634-637.	2.0	25

#	ARTICLE	IF	CITATIONS
235	RatCAP: miniaturized head-mounted PET for conscious rodent brain imaging. IEEE Transactions on Nuclear Science, 2004, 51, 2718-2722.	2.0	104
236	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
237	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
238	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
239	Front-end electronics for the RatCAP mobile animal PET scanner. IEEE Transactions on Nuclear Science, 2004, 51, 1318-1323.	2.0	40
240	Properties of LYSO and recent LSO scintillators for phoswich PET detectors. IEEE Transactions on Nuclear Science, 2004, 51, 789-795.	2.0	173
241	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
242	Respiratory gating for 3-dimensional PET of the thorax: feasibility and initial results. Journal of Nuclear Medicine, 2004, 45, 214-9.	5.0	143
243	Quantitative myocardial perfusion and coronary reserve in rats with ¹³ N-ammonia and small animal PET: impact of anesthesia and pharmacologic stress agents. Journal of Nuclear Medicine, 2004, 45, 1924-30.	5.0	42
244	Quantitative gated PET for the assessment of left ventricular function in small animals. Journal of Nuclear Medicine, 2003, 44, 1655-61.	5.0	50
245	Design of a fast-shaping amplifier for PET/CT APD detectors with depth-of-interaction. IEEE Transactions on Nuclear Science, 2002, 49, 2448-2454.	2.0	9
246	Cardiac studies in rats with ¹¹ C-acetate and PET: a comparison with ¹³ N-ammonia. IEEE Transactions on Nuclear Science, 2002, 49, 2322-2327.	2.0	21
247	Assessment of Cancer-Associated Biomarkers by Positron Emission Tomography: Advances and Challenges. Disease Markers, 2002, 18, 211-247.	1.3	23
248	Assessment of Quick-Stick 5870 high refractive index thermoplastic coupling compound. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 488, 670-672.	1.6	4
249	Fast PET image reconstruction based on SVD decomposition of the system matrix. IEEE Transactions on Nuclear Science, 2001, 48, 761-767.	2.0	26
250	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
251	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
252	Detector response models for statistical iterative image reconstruction in high resolution PET. IEEE Transactions on Nuclear Science, 2000, 47, 1168-1175.	2.0	111

#	ARTICLE	IF	CITATIONS
253	Study of light collection in multi-crystal detectors. IEEE Transactions on Nuclear Science, 2000, 47, 1634-1639.	2.0	10
254	Radiation detection measurements with a new "Buried Junction" 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
255	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
256	Scintillation light emission studies of LSO scintillators. IEEE Transactions on Nuclear Science, 1999, 46, 1925-1928.	2.0	39
257	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
258	Investigation of GSO, LSO and YSO scintillators using reverse avalanche photodiodes. IEEE Transactions on Nuclear Science, 1998, 45, 478-482.	2.0	60
259	A microvolumetric blood counter/sampler for metabolic PET studies in small animals. IEEE Transactions on Nuclear Science, 1998, 45, 2195-2199.	2.0	24
260	Pre-processing variance reducing techniques in multispectral positron emission tomography. Physics in Medicine and Biology, 1997, 42, 2233-2253.	3.0	1
261	Study of multispectral frame-by-frame convolution scatter correction in high resolution PET. IEEE Transactions on Nuclear Science, 1997, 44, 2489-2493.	2.0	1
262	Initial results from the Sherbrooke avalanche photodiode positron tomograph. IEEE Transactions on Nuclear Science, 1996, 43, 1952-1957.	2.0	233
263	Effects of energy space smoothing and projection space normalization on multispectral PET image quality. IEEE Transactions on Nuclear Science, 1996, 43, 1988-1994.	2.0	2
264	Energy dependence of scatter components in multispectral PET imaging. IEEE Transactions on Medical Imaging, 1995, 14, 138-145.	8.9	28
265	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
266	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
267	A stationary sampling scheme for multilayer positron tomographs. IEEE Transactions on Medical Imaging, 1993, 12, 293-298.	8.9	5
268	Normalization of multispectral data in positron emission tomography. Physics in Medicine and Biology, 1993, 38, 1745-1760.	3.0	13
269	A PET camera simulator with multispectral data acquisition capabilities. IEEE Transactions on Nuclear Science, 1993, 40, 1067-1074.	2.0	20
270	Tuning of avalanche photodiode PET camera. IEEE Transactions on Nuclear Science, 1993, 40, 1062-1066.	2.0	17

#	ARTICLE	IF	CITATIONS
271	Analytical study of performance in a 3D PET scanner. <i>Physics in Medicine and Biology</i> , 1992, 37, 623-634.	3.0	5
272	Effect of detector weighting functions on the point spread function of high-resolution PET tomographs: a simulation study. <i>IEEE Transactions on Medical Imaging</i> , 1992, 11, 379-385.	8.9	27
273	Study of the resolution performance of an array of discrete detectors with independent readouts for positron emission tomography. <i>IEEE Transactions on Medical Imaging</i> , 1991, 10, 347-357.	8.9	26
274	Theoretical modelling of light transport in rectangular parallelepipedic scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990, 292, 685-692.	1.6	32
275	Timing performance of scintillators read out by silicon avalanche photodiodes. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990, 299, 115-118.	1.6	16
276	Effect of geometrical modifications and crystal defects on light collection in ideal rectangular parallelepipedic BGO scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990, 294, 355-364.	1.6	40
277	Recent results in scintillation detection with silicon avalanche photodiodes. <i>IEEE Transactions on Nuclear Science</i> , 1990, 37, 209-214.	2.0	32
278	High resolution positron emission tomography with a prototype camera based on solid state scintillation detectors. <i>IEEE Transactions on Nuclear Science</i> , 1990, 37, 805-811.	2.0	41
279	Analytical study of the effect of collimation on the performance of PET cameras in 3-D imaging. <i>IEEE Transactions on Nuclear Science</i> , 1990, 37, 823-831.	2.0	13
280	Status of BGO-avalanche photodiode detectors for spectroscopic and timing measurements. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989, 278, 585-597.	1.6	46
281	Trapping of fluorescent light in cylindrical scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989, 278, 622-624.	1.6	6
282	Fast point spread function computation from aperture functions in high-resolution positron emission tomography. <i>IEEE Transactions on Medical Imaging</i> , 1988, 7, 2-12.	8.9	43
283	Design of a high resolution positron emission tomograph using solid state scintillation detectors. <i>IEEE Transactions on Nuclear Science</i> , 1988, 35, 685-690.	2.0	72
284	Ultra-Low Noise Charge Sensitive Preamplifier for Scintillation Detection with Avalanche Photodiodes in PET Applications. <i>IEEE Transactions on Nuclear Science</i> , 1987, 34, 91-96.	2.0	21
285	Dependence of the coincidence aperture function of narrow BGO crystals on crystal shape and light encoding schemes. <i>Physics in Medicine and Biology</i> , 1986, 31, 491-506.	3.0	7
286	Performance Characteristics of BGO-Silicon Avalanche Photodiode Detectors for PET. <i>IEEE Transactions on Nuclear Science</i> , 1985, 32, 482-486.	2.0	33
287	Geometry Study of a High Resolution PET Detection System Using Small Detectors. <i>IEEE Transactions on Nuclear Science</i> , 1984, 31, 556-561.	2.0	78
288	Scintillation Detection with Large-Area Reach-Through Avalanche Photodiodes. <i>IEEE Transactions on Nuclear Science</i> , 1984, 31, 417-423.	2.0	35

#	ARTICLE	IF	CITATIONS
289	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
290	Total soluble and insoluble sulfur concentrations in urban snow. Environmental Science & Technology, 1983, 17, 542-546.	10.0	15
291	Elemental contamination in vacutainer tubes used for blood collection. International Journal of Nuclear Medicine and Biology, 1983, 10, 35-36.	0.3	4
292	Medium spin states in Ru99 and Ru101. Physical Review C, 1983, 28, 1504-1518.	2.9	14
293	Level structure of Kr79 and Kr81. Physical Review C, 1983, 27, 983-1002.	2.9	11
294	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
295	Shape coexistence and shape transitions in the even-A Ge nuclei. Physical Review C, 1982, 25, 2812-2814.	2.9	24
296	Level structure of Tc97 investigated via the Mo97(p, n) reaction. Physical Review C, 1982, 26, 1451-1461.	2.9	5
297	High spin states and band structure in Tc97. Physical Review C, 1982, 26, 1462-1470.	2.9	6
298	High spin states and band structure in Rh99 and Rh101. Physical Review C, 1982, 26, 138-148.	2.9	14
299	Determination of sulphur in snow by proton induced X-ray emission (PIXE) method. Environmental Pollution Series B: Chemical and Physical, 1982, 3, 215-223.	0.7	5
300	Evaluation of trace-element sensitivities in PIXE analysis of low-temperature-ashed serum samples. The International Journal of Applied Radiation and Isotopes, 1982, 33, 121-125.	0.7	7
301	Determination of trace pollutants in urban snow using PIXE techniques. Nuclear Instruments & Methods in Physics Research, 1982, 193, 323-329.	0.9	13
302	Trace element detection by the particle induced X-ray emission process. International Journal of Nuclear Medicine and Biology, 1981, 8, 1-16.	0.3	9
303	On the use of PIXE as methodology for measuring asbestos pollution in river-water. The International Journal of Applied Radiation and Isotopes, 1981, 32, 122-125.	0.7	3
304	Asbestos pollution assessment in river water by PIXE methods. Nuclear Instruments & Methods, 1981, 181, 239-241.	1.2	7
305	Trace element analysis in rheumatoid arthritis under chrysotherapy. Nuclear Instruments & Methods, 1981, 181, 301-303.	1.2	1
306	Low-lying levels in 97Tc. Nuclear Physics A, 1980, 339, 238-252.	1.5	8

#	ARTICLE	IF	CITATIONS
307	Coulomb-excitation studies of Ge70, Ge72, Ge74, and Ge76. Physical Review C, 1980, 22, 2420-2423.	2.9	51
308	Evidence of a spherical to prolate shape transition in the germanium nuclei. Physical Review C, 1980, 22, 1530-1533.	2.9	54
309	Quadrupole moments of the first excited states of Ru96, Ru98, Ru100, Ru102, and Ru104. Physical Review C, 1980, 21, 588-594.	2.9	49
310	Static quadrupole moment of the first 2+ state in Mo98. Physical Review C, 1979, 20, 1201-1203.	2.9	8
311	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
312	Trace element contamination in blood-collecting devices. International Journal of Nuclear Medicine and Biology, 1979, 6, 207-211.	0.3	11
313	Automatic data acquisition and on-line analysis of trace element concentration in serum samples. Nuclear Instruments & Methods, 1978, 150, 289-299.	1.2	36
314	Static quadrupole moment of the first excited state of Se74. Physical Review C, 1978, 18, 2801-2804.	2.9	17
315	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
316	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
317	Measurement of the static quadrupole moments of the first 2+ states in Mo94, Mo96, Mo98, and Mo100. Physical Review C, 1976, 14, 835-841.	2.9	32
318	Initial Performance of the RatCAP, a PET Camera for Conscious Rat Brain Imaging. , 0, , .		13
319	A Microvolumetric β Blood Counter for Pharmacokinetic Pet Studies in Small Animals. , 0, , .		1
320	The Architecture of LabTEP, a Small Animal APD-Based Digital PET Scanner. , 0, , .		24
321	Real-Time Coincidence Detection System for Digital High Resolution APD-based Animal PET Scanner. , 0, , .		25
322	Crystal Identification Based on Recursive-Least-Squares and Least-Mean-Squares AutoRegressive Models for Small-Animal PET. , 0, , .		13