Simon Cherry

List of Publications by Year
in descending order

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369 papers	28,108 citations	6606 79 h-index	6643 156 g-index
373 all docs	373 docs citations	373 times ranked	17727 citing authors

#	Article	IF	Citations
1	Rapid Automated Algorithm for Aligning and Reslicing PET Images. Journal of Computer Assisted Tomography, 1992, 16, 620-633.	0.5	1,697
2	Automated Image Registration: I. General Methods and Intrasubject, Intramodality Validation. Journal of Computer Assisted Tomography, 1998, 22, 139-152.	0.5	1,528
3	MRI-PET Registration with Automated Algorithm. Journal of Computer Assisted Tomography, 1993, 17, 536-546.	0.5	1,467
4	A Critical Role for Dnmt1 and DNA Methylation in T Cell Development, Function, and Survival. Immunity, 2001, 15, 763-774.	6.6	1,124
5	Simultaneous PET-MRI: a new approach for functional and morphological imaging. Nature Medicine, 2008, 14, 459-465.	15.2	1,008
6	High-resolution 3D Bayesian image reconstruction using the microPET small-animal scanner. Physics in Medicine and Biology, 1998, 43, 1001-1013.	1.6	580
7	MicroPET: a high resolution PET scanner for imaging small animals. IEEE Transactions on Nuclear Science, 1997, 44, 1161-1166.	1.2	557
8	Total-Body PET: Maximizing Sensitivity to Create New Opportunities for Clinical Research and Patient Care. Journal of Nuclear Medicine, 2018, 59, 3-12.	2.8	474
9	First Human Imaging Studies with the EXPLORER Total-Body PET Scanner*. Journal of Nuclear Medicine, 2019, 60, 299-303.	2.8	453
10	Imaging adenoviral-directed reporter gene expression in living animals with positron emission tomography. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 2333-2338.	3.3	444
11	Optical imaging of Cerenkov light generation from positron-emitting radiotracers. Physics in Medicine and Biology, 2009, 54, N355-N365.	1.6	365
12	Repetitive, non-invasive imaging of the dopamine D2 receptor as a reporter gene in living animals. Gene Therapy, 1999, 6, 785-791.	2.3	356
13	Simultaneous PET and MR imaging. Physics in Medicine and Biology, 1997, 42, 1965-1970.	1.6	346
14	A smart and versatile theranostic nanomedicine platform based on nanoporphyrin. Nature Communications, 2014, 5, 4712.	5.8	345
15	In vivomolecular and genomic imaging: new challenges for imaging physics. Physics in Medicine and Biology, 2004, 49, R13-R48.	1.6	327
16	Imaging Transgene Expression with Radionuclide Imaging Technologies. Neoplasia, 2000, 2, 118-138.	2.3	317
17	Simultaneous in vivo positron emission tomography and magnetic resonance imaging. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3705-3710.	3.3	301
18	Performance evaluation of the microPET P4: a PET system dedicated to animal imaging. Physics in Medicine and Biology, 2001, 46, 1845-1862.	1.6	281

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19	Simple charge division readouts for imaging scintillator arrays using a multi-channel PMT. IEEE Transactions on Nuclear Science, 1996, 43, 1634-1641.	1.2	272
20	Hyperspectral and multispectral bioluminescence optical tomography for small animal imaging. Physics in Medicine and Biology, 2005, 50, 5421-5441.	1.6	266
21	Performance test of an LSO-APD detector in a 7-T MRI scanner for simultaneous PET/MRI. Journal of Nuclear Medicine, 2006, 47, 639-47.	2.8	257
22	Cardiac Myocyte-Specific Excision of the Î21 Integrin Gene Results in Myocardial Fibrosis and Cardiac Failure. Circulation Research, 2002, 90, 458-464.	2.0	256
23	Retroviral Expression in Embryonic Stem Cells and Hematopoietic Stem Cells. Molecular and Cellular Biology, 2000, 20, 7419-7426.	1.1	255
24	MicroPET II: design, development and initial performance of an improved microPET scanner for small-animal imaging. Physics in Medicine and Biology, 2003, 48, 1519-1537.	1.6	249
25	Simultaneous acquisition of multislice PET and MR images: initial results with a MR-compatible PET scanner. Journal of Nuclear Medicine, 2006, 47, 1968-76.	2.8	245
26	Fast gradient-based methods for Bayesian reconstruction of transmission and emission PET images. IEEE Transactions on Medical Imaging, 1994, 13, 687-701.	5.4	243
27	Use of Positron Emission Tomography in Animal Research. ILAR Journal, 2001, 42, 219-232.	1.8	230
28	Quantification of target gene expression by imaging reporter gene expression in living animals. Nature Medicine, 2000, 6, 933-937.	15.2	219
29	Imaging of adenoviral-directed herpes simplex virus type 1 thymidine kinase reporter gene expression in mice with radiolabeled ganciclovir. Journal of Nuclear Medicine, 1998, 39, 2003-11.	2.8	213
30	Combining anatomy and function: the path to true image fusion. European Radiology, 2001, 11, 1968-1974.	2.3	210
31	Bayesian reconstruction of PET images: methodology and performance analysis. Physics in Medicine and Biology, 1996, 41, 1777-1807.	1.6	209
32	Performance evaluation of microPET: a high-resolution lutetium oxyorthosilicate PET scanner for animal imaging. Journal of Nuclear Medicine, 1999, 40, 1164-75.	2.8	205
33	Multimodality Imaging: Beyond PET/CT and SPECT/CT. Seminars in Nuclear Medicine, 2009, 39, 348-353.	2.5	199
34	Application of Silicon Photomultipliers to Positron Emission Tomography. Annals of Biomedical Engineering, 2011, 39, 1358-1377.	1.3	197
35	MULTIMODALITY IN VIVO IMAGING SYSTEMS: Twice the Power or Double the Trouble?. Annual Review of Biomedical Engineering, 2006, 8, 35-62.	5.7	187
36	In vivo imaging of neuronal activation and plasticity in the rat brain by high resolution positron emission tomography (microPET). Nature Biotechnology, 2000, 18, 655-660.	9.4	183

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37	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.	2.8	178
38	Total-body imaging: Transforming the role of positron emission tomography. Science Translational Medicine, 2017, 9, .	5.8	175
39	Development of a PET detector system compatible with MRI/NMR systems. IEEE Transactions on Nuclear Science, 1997, 44, 1167-1171.	1.2	174
40	Small-Animal X-ray Dose from Micro-CT. Molecular Imaging, 2004, 3, 149-158.	0.7	168
41	PET/MR Images Acquired with a Compact MR-compatible PET Detector in a 7-T Magnet. Radiology, 2007, 244, 807-814.	3.6	165
42	3D PET using a Conventional Multislice Tomograph without Septa. Journal of Computer Assisted Tomography, 1991, 15, 655-668.	0.5	160
43	Cerenkov luminescence tomography for small-animal imaging. Optics Letters, 2010, 35, 1109.	1.7	154
44	In vivo Cerenkov luminescence imaging: a new tool for molecular imaging. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4605-4619.	1.6	145
45	Depth of interaction resolution measurements for a high resolution PET detector using position sensitive avalanche photodiodes. Physics in Medicine and Biology, 2006, 51, 2131-2142.	1.6	142
46	Depth of interaction calibration for PET detectors with dual-ended readout by PSAPDs. Physics in Medicine and Biology, 2009, 54, 433-445.	1.6	142
47	Quantitative Assessment of Longitudinal Metabolic Changes In Vivo after Traumatic Brain Injury in the Adult Rat using FDG-MicroPET. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1492-1501.	2.4	140
48	NaGdF₄:Eu³⁺ Nanoparticles for Enhanced X-ray Excited Optical Imaging. Chemistry of Materials, 2014, 26, 1881-1888.	3.2	138
49	Optimization and performance evaluation of the microPET II scanner forin vivosmall-animal imaging. Physics in Medicine and Biology, 2004, 49, 2527-2545.	1.6	135
50	The 2006 Henry N. Wagner Lecture: Of mice and men (and positrons)--advances in PET imaging technology. Journal of Nuclear Medicine, 2006, 47, 1735-45.	2.8	132
51	Fully 3D Bayesian image reconstruction for the ECAT EXACT HR+. IEEE Transactions on Nuclear Science, 1998, 45, 1096-1103.	1.2	131
52	Total-Body Dynamic Reconstruction and Parametric Imaging on the uEXPLORER. Journal of Nuclear Medicine, 2020, 61, 285-291.	2.8	129
53	High-resolution PET detector design: modelling components of intrinsic spatial resolution. Physics in Medicine and Biology, 2005, 50, 179-195.	1.6	127
54	Fundamentals of Positron Emission Tomography and Applications in Preclinical Drug Development. Journal of Clinical Pharmacology, 2001, 41, 482-491.	1.0	126

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55	Small-Animal Preclinical Nuclear Medicine Instrumentation and Methodology. Seminars in Nuclear Medicine, 2008, 38, 209-222.	2.5	121
56	Optimal whole-body PET scanner configurations for different volumes of LSO scintillator: a simulation study. Physics in Medicine and Biology, 2012, 57, 4077-4094.	1.6	114
57	Comparison of 3-D maximum a posteriori and filtered backprojection algorithms for high-resolution animal imaging with microPET. IEEE Transactions on Medical Imaging, 2000, 19, 507-512.	5.4	113
58	Initial Characterization of a Dedicated Breast PET/CT Scanner During Human Imaging. Journal of Nuclear Medicine, 2009, 50, 1401-1408.	2.8	113
59	Towards in vivo nuclear microscopy: iodine-125 imaging in mice using micro-pinholes. European Journal of Nuclear Medicine and Molecular Imaging, 2002, 29, 933-938.	3.3	111
60	A study of artefacts in simultaneous PET and MR imaging using a prototype MR compatible PET scanner. Physics in Medicine and Biology, 1999, 44, 2015-2027.	1.6	107
61	Design and evaluation of an LSO PET detector for breast cancer imaging. Medical Physics, 2000, 27, 1535-1543.	1.6	106
62	Detector development for microPET II: a 1 Î¼l resolution PET scanner for small animal imaging. Physics in Medicine and Biology, 2001, 46, 2899-2910.	1.6	106
63	JointL¹and total variation regularization for fluorescence molecular tomography. Physics in Medicine and Biology, 2012, 57, 1459-1476.	1.6	105
64	Seeing is believing: Non-invasive, quantitative and repetitive imaging of reporter gene expression in living animals, using positron emission tomography. Journal of Neuroscience Research, 2000, 59, 699-705.	1.3	103
65	Development and evaluation of an automated atlas-based image analysis method for microPET studies of the rat brain. NeuroImage, 2003, 20, 2100-2118.	2.1	103
66	A Prototype PET Scanner with DOI-Encoding Detectors. Journal of Nuclear Medicine, 2008, 49, 1132-1140.	2.8	99
67	Quantitative image reconstruction for total-body PET imaging using the 2-meter long EXPLORER scanner. Physics in Medicine and Biology, 2017, 62, 2465-2485.	1.6	98
68	Design studies of a high resolution PET detector using APD arrays. IEEE Transactions on Nuclear Science, 2000, 47, 1051-1057.	1.2	94
69	A Prototype High-Resolution Small-Animal PET Scanner Dedicated to Mouse Brain Imaging. Journal of Nuclear Medicine, 2016, 57, 1130-1135.	2.8	94
70	Measurements of blood-brain barrier permeability in patients undergoing radiotherapy and chemotherapy for primary cerebral lymphoma. European Journal of Cancer & Clinical Oncology, 1991, 27, 1356-1361.	0.9	92
71	Neural correlates of pair-bonding in a monogamous primate. Brain Research, 2007, 1184, 245-253.	1.1	91
72	Subsecond total-body imaging using ultrasensitive positron emission tomography. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2265-2267.	3.3	91

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73	PET imaging of transgene expression. Biological Psychiatry, 2000, 48, 337-348.	0.7	89
74	Attenuation correction using count-limited transmission data in positron emission tomography. Journal of Nuclear Medicine, 1993, 34, 143-50.	2.8	89
75	Simultaneous molecular and anatomical imaging of the mousein vivo. Physics in Medicine and Biology, 2002, 47, 4315-4328.	1.6	86
76	Applications for Preclinical PET/MRI. Seminars in Nuclear Medicine, 2013, 43, 19-29.	2.5	86
77	Collection of scintillation light from small BGO crystals. IEEE Transactions on Nuclear Science, 1995, 42, 1058-1063.	1.2	85
78	Dual APD array readout of LSO crystals: optimization of crystal surface treatment. IEEE Transactions on Nuclear Science, 2002, 49, 649-654.	1.2	85
79	Innovations in Instrumentation for Positron Emission Tomography. Seminars in Nuclear Medicine, 2018, 48, 311-331.	2.5	85
80	Optical fiber readout of scintillator arrays using a multi-channel PMT: a high resolution PET detector for animal imaging. IEEE Transactions on Nuclear Science, 1996, 43, 1932-1937.	1.2	84
81	Complementary emerging techniques: high-resolution PET and MRI. Current Opinion in Neurobiology, 2001, 11, 621-629.	2.0	83
82	A three-dimensional multispectral fluorescence optical tomography imaging system for small animals based on a conical mirror design. Optics Express, 2009, 17, 7571.	1.7	83
83	PET and NMR dual acquisition (PANDA): applications to isolated, perfused rat hearts. NMR in Biomedicine, 1997, 10, 138-142.	1.6	78
84	Synthesis of 8-[18F]fluoroguanine derivatives: in vivo probes for imaging gene expression with positron emission tomography. Nuclear Medicine and Biology, 2000, 27, 157-162.	0.3	78
85	A comparison of PET detector modules employing rectangular and round photomultiplier tubes. IEEE Transactions on Nuclear Science, 1995, 42, 1064-1068.	1.2	74
86	Experimental characterization and system simulations of depth of interaction PET detectors using 0.5 mm and 0.7 mm LSO arrays. Physics in Medicine and Biology, 2009, 54, 4605-4619.	1.6	74
87	Machine Learning in PET: From Photon Detection to Quantitative Image Reconstruction. Proceedings of the IEEE, 2020, 108, 51-68.	16.4	72
88	Performance measurements of a depth-encoding PET detector module based on position-sensitive avalanche photodiode read-out. Physics in Medicine and Biology, 2004, 49, 4293-4304.	1.6	71
89	Persistent neuroinflammation and cognitive impairment in a rat model of acute diisopropylfluorophosphate intoxication. Journal of Neuroinflammation, 2016, 13, 267.	3.1	71
90	Design of a small animal MR compatible PET scanner. IEEE Transactions on Nuclear Science, 1999, 46, 565-570.	1.2	70

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91	maxPET, a dedicated mammary and axillary region PET imaging system for breast cancer. IEEE Transactions on Nuclear Science, 2001, 48, 811-815.	1.2	69
92	The Integration of Positron Emission Tomography With Magnetic Resonance Imaging. Proceedings of the IEEE, 2008, 96, 416-438.	16.4	69
93	Bismuth germanate coupled to near ultraviolet silicon photomultipliers for time-of-flight PET. Physics in Medicine and Biology, 2016, 61, L38-L47.	1.6	69
94	Lutetium oxyorthosilicate block detector readout by avalanche photodiode arrays for high resolution animal PET. Physics in Medicine and Biology, 2004, 49, 4305-4319.	1.6	68
95	Deficits in Striatal Dopamine D2 Receptors and Energy Metabolism Detected by in Vivo MicroPET Imaging in a Rat Model of Huntington's Disease. Experimental Neurology, 2000, 166, 287-297.	2.0	66
96	On the assessment of spatial resolution of PET systems with iterative image reconstruction. Physics in Medicine and Biology, 2016, 61, N193-N202.	1.6	66
97	Total-Body PET and Highly Stable Chelators Together Enable Meaningful ⁸⁹Zr-Antibody PET Studies up to 30 Days After Injection. Journal of Nuclear Medicine, 2020, 61, 453-460.	2.8	66
98	Noninvasive Measurement of Myocardial Activity Concentrations and Perfusion Defect Sizes in Rats With a New Small-Animal Positron Emission Tomograph. Circulation, 2002, 106, 118-123.	1.6	65
99	Evaluation of high performance data acquisition boards for simultaneous sampling of fast signals from PET detectors. Physics in Medicine and Biology, 2005, 50, 29-44.	1.6	65
100	Computed Cerenkov luminescence yields for radionuclides used in biology and medicine. Physics in Medicine and Biology, 2015, 60, 4263-4280.	1.6	65
101	Radiofluorinated L-m-Tyrosines: New In-Vivo Probes for Central Dopamine Biochemistry. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 667-678.	2.4	64
102	A microPET/CT system forinvivosmall animal imaging. Physics in Medicine and Biology, 2007, 52, 3881-3894.	1.6	64
103	Design and development of an MR-compatible PET scanner for imaging small animals. IEEE Transactions on Nuclear Science, 2005, 52, 1376-1380.	1.2	63
104	Continuous depth-of-interaction encoding using phosphor-coated scintillators. Physics in Medicine and Biology, 2009, 54, 1757-1771.	1.6	62
105	X-ray luminescence optical tomography imaging: experimental studies. Optics Letters, 2013, 38, 2339.	1.7	62
106	Design features and performance of a PET system for animal research. Journal of Nuclear Medicine, 1992, 33, 595-604.	2.8	62
107	Chromatin remodeling directly activates V(D)J recombination. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 10788-10793.	3.3	61
108	Infection-induced type I interferons activate CD11b on B-1 cells for subsequent lymph node accumulation. Nature Communications, 2015, 6, 8991.	5.8	60

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109	Using convolutional neural networks to estimate time-of-flight from PET detector waveforms. Physics in Medicine and Biology, 2018, 63, 02LT01.	1.6	60
110	Improved Detection of Focal Cerebral Blood Flow Changes Using Three-Dimensional Positron Emission Tomography. Journal of Cerebral Blood Flow and Metabolism, 1993, 13, 630-638.	2.4	59
111	An improved analytical detector response function model for multilayer small-diameter PET scanners. Physics in Medicine and Biology, 2003, 48, 979-994.	1.6	57
112	Noninvasive methods for quantitating blood time-activity curves from mouse PET images obtained with fluorine-18-fluorodeoxyglucose. Journal of Nuclear Medicine, 1998, 39, 729-34.	2.8	57
113	Fetal Gene Transfer Using Lentiviral Vectors:In VivoDetection of Gene Expression by microPET and Optical Imaging in Fetal and Infant Monkeys. Human Gene Therapy, 2006, 17, 1254-1261.	1.4	56
114	The performance of a multiwire proportional chamber positron camera for clinical use. Physics in Medicine and Biology, 1989, 34, 1043-1062.	1.6	55
115	Position Sensitive APDs for Small Animal PET Imaging. IEEE Transactions on Nuclear Science, 2004, 51, 91-95.	1.2	55
116	In vivo positron-emission tomography imaging of progression and transformation in a mouse model of mammary neoplasia. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11438-11443.	3.3	55
117	A hyperspectral fluorescence system for 3Din vivooptical imaging. Physics in Medicine and Biology, 2006, 51, 2029-2043.	1.6	55
118	Simulation of light transport in scintillators based on 3D characterization of crystal surfaces. Physics in Medicine and Biology, 2013, 58, 2185-2198.	1.6	55
119	Fabrication and characterization of a 0.5-mm lutetium oxyorthosilicate detector array for high-resolution PET applications. Journal of Nuclear Medicine, 2007, 48, 115-21.	2.8	55
120	Cardiac PET imaging in mice with simultaneous cardiac and respiratory gating. Physics in Medicine and Biology, 2005, 50, 2979-2989.	1.6	54
121	Effects of scatter on model parameter estimates in 3D PET studies of the human brain. IEEE Transactions on Nuclear Science, 1995, 42, 1174-1179.	1.2	53
122	Noninvasive determination of myocardial blood flow, oxygen consumption and efficiency in normal humans by carbon-11 acetate positron emission tomography imaging. European Journal of Nuclear Medicine and Molecular Imaging, 1999, 26, 1465-1574.	3.3	53
123	Tapered LSO arrays for small animal PET. Physics in Medicine and Biology, 2011, 56, 139-153.	1.6	53
124	In Vivo Tracking of Th1 Cells by PET Reveals Quantitative and Temporal Distribution and Specific Homing in Lymphatic Tissue. Journal of Nuclear Medicine, 2014, 55, 301-307.	2.8	53
125	Effects of reflector and crystal surface on the performance of a depth-encoding PET detector with dual-ended readout. Medical Physics, 2014, 41, 072503.	1.6	51
126	Total-Body Quantitative Parametric Imaging of Early Kinetics of ¹⁸F-FDG. Journal of Nuclear Medicine, 2021, 62, 738-744.	2.8	50

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127	High-Throughput Imaging of Brain Gene Expression. Genome Research, 2002, 12, 244-254.	2.4	49
128	Periocular and Intra-Articular Injection of Canine Adipose-Derived Mesenchymal Stem Cells: An In Vivo Imaging and Migration Study. Journal of Ocular Pharmacology and Therapeutics, 2012, 28, 307-317.	0.6	49
129	Ultrafast timing enables reconstruction-free positron emission imaging. Nature Photonics, 2021, 15, 914-918.	15.6	49
130	PET characteristics of a dedicated breast PET/CT scanner prototype. Physics in Medicine and Biology, 2009, 54, 4273-4287.	1.6	48
131	An integrated model of scintillator-reflector properties for advanced simulations of optical transport. Physics in Medicine and Biology, 2017, 62, 4811-4830.	1.6	48
132	Multiplex Three-Dimensional Brain Gene Expression Mapping in a Mouse Model of Parkinson's Disease. Genome Research, 2002, 12, 868-884.	2.4	47
133	Characterization of Large-Area SiPM Array for PET Applications. IEEE Transactions on Nuclear Science, 2016, 63, 8-16.	1.2	47
134	Simultaneous PET and Multispectral 3-Dimensional Fluorescence Optical Tomography Imaging System. Journal of Nuclear Medicine, 2011, 52, 1268-1275.	2.8	46
135	Activating Photodynamic Therapy in vitro with Cerenkov Radiation Generated from Yttrium-90. Journal of Environmental Pathology, Toxicology and Oncology, 2016, 35, 185-192.	0.6	44
136	Cyclosporine, a P-glycoprotein modulator, increases [18F]MPPF uptake in rat brain and peripheral tissues: microPET and ex vivo studies. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 2256-2266.	3.3	43
137	A combined timeâ€ofâ€flight and depthâ€ofâ€interaction detector for totalâ€body positron emission tomography. Medical Physics, 2016, 43, 939-950.	1.6	43
138	The Changing Design of Positron Imaging Systems. Molecular Imaging and Biology, 1998, 1, 31-45.	0.3	42
139	Radiolabeling Rhesus Monkey CD34⁺Hematopoietic and Mesenchymal Stem Cells with⁶⁴Cu-Pyruvaldehyde-Bis(N4-Methylthiosemicarbazone) for MicroPET Imaging. Molecular Imaging, 2008, 7, 7290.2008.00001.	0.7	42
140	Evaluation of a 3D reconstruction algorithm for multi-slice PET scanners. Physics in Medicine and Biology, 1992, 37, 779-790.	1.6	41
141	Evaluation of copper(II)-pyruvaldehyde bis (N-4-methylthiosemicarbazone) for tissue blood flow measurement usina a trapped tracer model. European Journal of Nuclear Medicine and Molecular Imaging, 1994, 21, 336-341.	2.2	41
142	Three-dimensional fluorescence optical tomography in small-animal imaging using simultaneous positron-emission-tomography priors. Optics Letters, 2009, 34, 2933.	1.7	41
143	Observations regarding scatter fraction and NEC measurements for small animal PET. IEEE Transactions on Nuclear Science, 2006, 53, 127-132.	1.2	40
144	PET Performance Evaluation of an MR-Compatible PET Insert. IEEE Transactions on Nuclear Science, 2009, 56, 574-580.	1.2	40

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145	Challenges to the Pair Bond: Neural and Hormonal Effects of Separation and Reunion in a Monogamous Primate. Frontiers in Behavioral Neuroscience, 2016, 10, 221.	1.0	40
146	A comparison of x-ray detectors for mouse CT imaging. Physics in Medicine and Biology, 2004, 49, 5251-5265.	1.6	39
147	111In-LLP2A-DOTA Polyethylene Glycolâ€“Targeting Î±4Î²1 Integrin: Comparative Pharmacokinetics for Imaging and Therapy of Lymphoid Malignancies. Journal of Nuclear Medicine, 2009, 50, 625-634.	2.8	39
148	Advanced optical simulation of scintillation detectors in GATE V8.0: first implementation of a reflectance model based on measured data. Physics in Medicine and Biology, 2017, 62, L1-L8.	1.6	39
149	Towards time-of-flight PET with a semiconductor detector. Physics in Medicine and Biology, 2018, 63, 04LT01.	1.6	38
150	Development and Evaluation of mini-EXPLORER: A Long Axial Field-of-View PET Scanner for Nonhuman Primate Imaging. Journal of Nuclear Medicine, 2018, 59, 993-998.	2.8	38
151	Performance of a high-resolution depth-encoding PET detector module using linearly-graded SiPM arrays. Physics in Medicine and Biology, 2018, 63, 035035.	1.6	38
152	Methods for improving image quality in whole body PET scanning. IEEE Transactions on Nuclear Science, 1992, 39, 1079-1083.	1.2	36
153	Small-Animal X-ray Dose from Micro-CT. Molecular Imaging, 2004, 3, 153535002004041.	0.7	36
154	Imaging, Behavior and Endocrine Analysis of â€œJealousyâ€•in a Monogamous Primate. Frontiers in Ecology and Evolution, 2017, 5, .	1.1	36
155	Quantitative PET in the 2020s: a roadmap. Physics in Medicine and Biology, 2021, 66, 06RM01.	1.6	36
156	Effects of neonatal amygdala or hippocampus lesions on resting brain metabolism in the macaque monkey: A microPET imaging study. NeuroImage, 2008, 39, 832-846.	2.1	35
157	Numerical simulation of x-ray luminescence optical tomography for small-animal imaging. Journal of Biomedical Optics, 2014, 19, 046002.	1.4	35
158	Compton PET: a layered structure PET detector with high performance. Physics in Medicine and Biology, 2019, 64, 10LT01.	1.6	35
159	New PET technologies â€“ embracing progress and pushing the limits. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 2711-2726.	3.3	35
160	Studies of the interactions of an MRI system with the shielding in a combined PET/MRI scanner. Physics in Medicine and Biology, 2010, 55, 265-280.	1.6	34
161	Biodistribution and pharmacokinetics of a telodendrimer micellar paclitaxel nanoformulation in a mouse xenograft model of ovarian cancer. International Journal of Nanomedicine, 2012, 7, 1587.	3.3	34
162	Optimizing light transport in scintillation crystals for time-of-flight PET: an experimental and optical Monte Carlo simulation study. Biomedical Optics Express, 2015, 6, 2220.	1.5	34

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163	Development of continuous detectors for a high resolution animal PET system. IEEE Transactions on Nuclear Science, 1995, 42, 1069-1074.	1.2	33
164	Effects of Image Resolution on Autoradiographic Measurements of Posterior Cingulate Activity in PDAPP Mice: Implications for Functional Brain Imaging Studies of Transgenic Mouse Models of Alzheimer's Disease. NeuroImage, 2002, 16, 1-6.	2.1	33
165	A Time-Walk Correction Method for PET Detectors Based on Leading Edge Discriminators. IEEE Transactions on Radiation and Plasma Medical Sciences, 2017, 1, 385-390.	2.7	33
166	Mini EXPLORER II: a prototype high-sensitivity PET/CT scanner for companion animal whole body and human brain scanning. Physics in Medicine and Biology, 2019, 64, 075004.	1.6	33
167	Phase 1 Trial of MLN0128 (Sapanisertib) and CB-839 HCl (Telaglenastat) in Patients With Advanced NSCLC (NCI 10327): Rationale and Study Design. Clinical Lung Cancer, 2021, 22, 67-70.	1.1	33
168	V(D)J recombination is not activated by demethylation of the kappa locus. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8467-8472.	3.3	32
169	CdTe Strip Detector Characterization for High Resolution Small Animal PET. IEEE Transactions on Nuclear Science, 2008, 55, 870-876.	1.2	32
170	Characterizing low fluence thresholds for in vitro photodynamic therapy. Biomedical Optics Express, 2015, 6, 770.	1.5	32
171	Preliminary evidence of increased striatal dopamine in a nonhuman primate model of maternal immune activation. Translational Psychiatry, 2019, 9, 135.	2.4	32
172	Radiolabeling rhesus monkey CD34+ hematopoietic and mesenchymal stem cells with 64Cu-pyruvaldehyde-bis(N4-methylthiosemicarbazone) for microPET imaging. Molecular Imaging, 2008, 7, 1-11.	0.7	32
173	Simulation study of spatial resolution and sensitivity for the tapered depth of interaction PET detectors for small animal imaging. Physics in Medicine and Biology, 2010, 55, N63-N74.	1.6	31
174	Effects of pair bonding on dopamine D1 receptors in monogamous male titi monkeys (<i>Callicebus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	31
175	Dual-ended readout of bismuth germanate to improve timing resolution in time-of-flight PET. Physics in Medicine and Biology, 2019, 64, 105007.	1.6	31
176	Contemporaneous positron emission tomography and MR imaging at 1.5 T. Journal of Magnetic Resonance Imaging, 1999, 9, 497-500.	1.9	30
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