

Simon Cherry

List of Publications by Year in descending order

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Version: 2024-02-01

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	Time Resolution Studies of Thallium Based Cherenkov Semiconductors. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	9
2	Total-body PET/CT â€œ First Clinical Experiences and Future Perspectives. <i>Seminars in Nuclear Medicine</i> , 2022, 52, 330-339.	2.5	14
3	Engineering the gain and bandwidth in avalanche photodetectors. <i>Optics Express</i> , 2022, 30, 16873.	1.7	3
4	Study of Čerenkov Light Emission in the Semiconductors TlBr and TlCl for TOF-PET. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 630-637.	2.7	25
5	Total-Body Quantitative Parametric Imaging of Early Kinetics of ¹⁸ F-FDG. <i>Journal of Nuclear Medicine</i> , 2021, 62, 738-744.	2.8	50
6	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. <i>Journal of Nuclear Medicine</i> , 2021, 62, 861-870.	2.8	178
7	Scanner Design Considerations for Long Axial Field-of-View PET Systems. <i>PET Clinics</i> , 2021, 16, 25-39.	1.5	10
8	Phase 1 Trial of MLN0128 (Sapanisertib) and CB-839 HCl (Telaglenastat) in Patients With Advanced NSCLC (NCI 10327): Rationale and Study Design. <i>Clinical Lung Cancer</i> , 2021, 22, 67-70.	1.1	33
9	Energy and electron drift time measurements in a pixel CCI TlBr detector with 1.3 MeV prompt-gammas. <i>Physics in Medicine and Biology</i> , 2021, 66, 044001.	1.6	7
10	Quantitative PET in the 2020s: a roadmap. <i>Physics in Medicine and Biology</i> , 2021, 66, 06RM01.	1.6	36
11	Lead-free MCP to improve coincidence time resolution and reduce MCP direct interactions. <i>Physics in Medicine and Biology</i> , 2021, 66, 064006.	1.6	13
12	H ² RSPET: a 0.5 mm resolution high-sensitivity small-animal PET scanner, a simulation study. <i>Physics in Medicine and Biology</i> , 2021, 66, 065016.	1.6	12
13	Tomographic imaging with Compton PET modules: ideal case and first implementation. <i>Journal of Instrumentation</i> , 2021, 16, T04007.	0.5	2
14	Avalanche photodetectors with photon trapping structures for biomedical imaging applications. <i>Optics Express</i> , 2021, 29, 19024.	1.7	25
15	A high resolution and high detection efficiency depth-encoding detector for brain positron emission tomography based on a 0.75 mm pitch scintillator array. <i>Journal of Instrumentation</i> , 2021, 16, P05015.	0.5	2
16	New PET technologies â€œ embracing progress and pushing the limits. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 2711-2726.	3.3	35
17	Quantitative accuracy in total-body imaging using the uEXPLORER PET/CT scanner. <i>Physics in Medicine and Biology</i> , 2021, 66, 205008.	1.6	21
18	Total-Body PET Kinetic Modeling and Potential Opportunities Using Deep Learning. <i>PET Clinics</i> , 2021, 16, 613-625.	1.5	28

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19	Ultrafast timing enables reconstruction-free positron emission imaging. <i>Nature Photonics</i> , 2021, 15, 914-918.	15.6	49
20	Performance evaluation of dual-ended readout PET detectors based on BGO arrays with different reflector arrangements. <i>Physics in Medicine and Biology</i> , 2021, 66, 215001.	1.6	5
21	Machine Learning in PET: From Photon Detection to Quantitative Image Reconstruction. <i>Proceedings of the IEEE</i> , 2020, 108, 51-68.	16.4	72
22	Total-Body Dynamic Reconstruction and Parametric Imaging on the uEXPLORER. <i>Journal of Nuclear Medicine</i> , 2020, 61, 285-291.	2.8	129
23	Characterization of four readout circuits for an MR compatible, preclinical PET detector. <i>Physics in Medicine and Biology</i> , 2020, 65, 125008.	1.6	3
24	Hybrid PET/MRI enables high-spatial resolution, quantitative imaging of amyloid plaques in an Alzheimer's disease mouse model. <i>Scientific Reports</i> , 2020, 10, 10379.	1.6	15
25	Total-Body PET and Highly Stable Chelators Together Enable Meaningful ⁸⁹ Zr-Antibody PET Studies up to 30 Days After Injection. <i>Journal of Nuclear Medicine</i> , 2020, 61, 453-460.	2.8	66
26	Cerenkov luminescence and PET imaging of ⁹⁰ Y: capabilities and limitations in small animal applications. <i>Physics in Medicine and Biology</i> , 2020, 65, 065006.	1.6	8
27	Subsecond total-body imaging using ultrasensitive positron emission tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2265-2267.	3.3	91
28	A depth-encoding PET detector for high resolution PET using 1 mm SiPMs. <i>Physics in Medicine and Biology</i> , 2020, 65, 165011.	1.6	7
29	The reduction of ¹⁷⁶ Lu background in Lu-based PET scanners using optimized classification. <i>Physics in Medicine and Biology</i> , 2020, 65, 175016.	1.6	1
30	Performance comparison of dual-ended readout depth-encoding PET detectors based on BGO and LYSO crystals. <i>Physics in Medicine and Biology</i> , 2020, 65, 235030.	1.6	21
31	Farewell from the outgoing Editor-in-Chief. <i>Physics in Medicine and Biology</i> , 2020, 65, 240301.	1.6	0
32	A near-infrared probe for non-invasively monitoring cerebrospinal fluid flow by ¹⁸ F-positron emitting tomography and fluorescence. <i>EJNMMI Research</i> , 2020, 10, 37.	1.1	4
33	Launching our new Roadmap articles. <i>Physics in Medicine and Biology</i> , 2020, 65, 210301.	1.6	0
34	Development and Validation of an Accurate Input Function from Carotid Arteries using the uEXPLORER. , 2020, , .		2
35	A Fast Local Gating Method for TOF-PET. , 2020, , .		0
36	Real-time whole-plant dynamics of heavy metal transport in <i>Arabidopsis halleri</i> and <i>Arabidopsis thaliana</i> by gamma-ray imaging. <i>Plant Direct</i> , 2019, 3, e00131.	0.8	10

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37	First Cerenkov charge-induction (CCI) TlBr detector for TOF-PET and proton range verification. <i>Physics in Medicine and Biology</i> , 2019, 64, 175001.	1.6	23
38	Design and evaluation of gapless curved scintillator arrays for simultaneous high-resolution and high-sensitivity brain PET. <i>Physics in Medicine and Biology</i> , 2019, 64, 235004.	1.6	15
39	Prototype Small-Animal PET-CT Imaging System for Image-Guided Radiation Therapy. <i>IEEE Access</i> , 2019, 7, 143207-143216.	2.6	9
40	Preliminary evidence of increased striatal dopamine in a nonhuman primate model of maternal immune activation. <i>Translational Psychiatry</i> , 2019, 9, 135.	2.4	32
41	Compton PET: a layered structure PET detector with high performance. <i>Physics in Medicine and Biology</i> , 2019, 64, 10LT01.	1.6	35
42	Performance comparison of depth-encoding detectors based on dual-ended readout and different SiPMs for high-resolution PET applications. <i>Physics in Medicine and Biology</i> , 2019, 64, 15NT03.	1.6	24
43	Cerenkov light transport in scintillation crystals explained: realistic simulation with GATE. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 035033.	0.6	22
44	2019: an update from the Editor-in-Chief. <i>Physics in Medicine and Biology</i> , 2019, 64, 080301.	1.6	0
45	Dual-ended readout of bismuth germanate to improve timing resolution in time-of-flight PET. <i>Physics in Medicine and Biology</i> , 2019, 64, 105007.	1.6	31
46	First Human Imaging Studies with the EXPLORER Total-Body PET Scanner*. <i>Journal of Nuclear Medicine</i> , 2019, 60, 299-303.	2.8	453
47	Motion-Adaptive Gantry Development for Open-Field Mouse PET. , 2019, , ,		1
48	The Effects of Delay on the Input Function for Early Dynamics in Total Body Parametric Imaging. , 2019, , .		2
49	Imaging Salt Uptake Dynamics in Plants Using PET. <i>Scientific Reports</i> , 2019, 9, 18626.	1.6	17
50	Mini EXPLORER II: a prototype high-sensitivity PET/CT scanner for companion animal whole body and human brain scanning. <i>Physics in Medicine and Biology</i> , 2019, 64, 075004.	1.6	33
51	Discussions with Leaders: A Conversation between Simon Cherry and Johannes Czernin. <i>Journal of Nuclear Medicine</i> , 2019, 60, 295-298.	2.8	2
52	Towards time-of-flight PET with a semiconductor detector. <i>Physics in Medicine and Biology</i> , 2018, 63, 04LT01.	1.6	38
53	Improving edge crystal identification in flood histograms using triangular shape crystals. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 025031.	0.6	6
54	Development and Evaluation of mini-EXPLORER: A Long Axial Field-of-View PET Scanner for Nonhuman Primate Imaging. <i>Journal of Nuclear Medicine</i> , 2018, 59, 993-998.	2.8	38

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55	Performance of a high-resolution depth-encoding PET detector module using linearly-graded SiPM arrays. <i>Physics in Medicine and Biology</i> , 2018, 63, 035035.	1.6	38
56	Innovations in Instrumentation for Positron Emission Tomography. <i>Seminars in Nuclear Medicine</i> , 2018, 48, 311-331.	2.5	85
57	Total-Body PET: Maximizing Sensitivity to Create New Opportunities for Clinical Research and Patient Care. <i>Journal of Nuclear Medicine</i> , 2018, 59, 3-12.	2.8	474
58	Using convolutional neural networks to estimate time-of-flight from PET detector waveforms. <i>Physics in Medicine and Biology</i> , 2018, 63, 02LT01.	1.6	60
59	A depth-of-interaction encoding PET detector module with dual-ended readout using large-area silicon photomultiplier arrays. <i>Physics in Medicine and Biology</i> , 2018, 63, 245019.	1.6	15
60	Optimization of a depth of interaction encoding PET block detector for a PET/MRI insert. <i>Physics in Medicine and Biology</i> , 2018, 63, 235031.	1.6	5
61	Compton PET: a simulation study for a PET module with novel geometry and machine learning for position decoding. <i>Biomedical Physics and Engineering Express</i> , 2018, 5, 015018.	0.6	24
62	Shared-photodetector readout to improve the sensitivity of positron emission tomography. <i>Physics in Medicine and Biology</i> , 2018, 63, 205002.	1.6	4
63	Performance assessment of a software-based coincidence processor for the EXPLORER total-body PET scanner. <i>Physics in Medicine and Biology</i> , 2018, 63, 18NT01.	1.6	13
64	Theoretical study of the benefit of long axial field-of-view PET on region of interest quantification. <i>Physics in Medicine and Biology</i> , 2018, 63, 135010.	1.6	17
65	Theoretical investigation of ultrasound-modulated Cerenkov luminescence imaging for higher-resolution imaging in turbid media. <i>Optics Letters</i> , 2018, 43, 3509.	1.7	3
66	Development of TlBr detectors for PET imaging. <i>Physics in Medicine and Biology</i> , 2018, 63, 13NT04.	1.6	11
67	Pair bond formation leads to a sustained increase in global cerebral glucose metabolism in monogamous male titi monkeys (<i>Callicebus cupreus</i>). <i>Neuroscience</i> , 2017, 348, 302-312.	1.1	23
68	Quantitative image reconstruction for total-body PET imaging using the 2-meter long EXPLORER scanner. <i>Physics in Medicine and Biology</i> , 2017, 62, 2465-2485.	1.6	98
69	An integrated model of scintillator-reflector properties for advanced simulations of optical transport. <i>Physics in Medicine and Biology</i> , 2017, 62, 4811-4830.	1.6	48
70	Open-field mouse brain PET: design optimisation and detector characterisation. <i>Physics in Medicine and Biology</i> , 2017, 62, 6207-6225.	1.6	15
71	Advanced optical simulation of scintillation detectors in GATE V8.0: first implementation of a reflectance model based on measured data. <i>Physics in Medicine and Biology</i> , 2017, 62, L1-L8.	1.6	39
72	Total-body imaging: Transforming the role of positron emission tomography. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	175

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73	Quantitative assessment of Cerenkov luminescence for radioguided brain tumor resection surgery. <i>Physics in Medicine and Biology</i> , 2017, 62, 4183-4201.	1.6	15
74	Effects of pair bonding on dopamine D1 receptors in monogamous male titi monkeys (<i>Callicebus</i>). <i>Journal of Neuroendocrinology</i> , 2017, 39, 1-10.	0.8	31
75	A Time-Walk Correction Method for PET Detectors Based on Leading Edge Discriminators. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2017, 1, 385-390.	2.7	33
76	Performance comparison of different readouts for position-sensitive solid-state photomultiplier arrays. <i>Biomedical Physics and Engineering Express</i> , 2017, 3, 045019.	0.6	3
77	Imaging, Behavior and Endocrine Analysis of Jealousy in a Monogamous Primate. <i>Frontiers in Ecology and Evolution</i> , 2017, 5, .	1.1	36
78	Imaging Salt Transport in Plants Using PET: A Feasibility Study. , 2017, , .		3
79	Orthogonal Strip TlBr Detectors for PET. , 2017, , .		0
80	Citations Prize 2016. <i>Physics in Medicine and Biology</i> , 2016, 61, E7-E7.	1.6	0
81	Roberts Prize for the best paper published in 2015. <i>Physics in Medicine and Biology</i> , 2016, 61, E3-E4.	1.6	0
82	Challenges to the Pair Bond: Neural and Hormonal Effects of Separation and Reunion in a Monogamous Primate. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 221.	1.0	40
83	DOI detector design and characterization for open-field mouse brain PET. , 2016, , .		0
84	Persistent neuroinflammation and cognitive impairment in a rat model of acute diisopropylfluorophosphate intoxication. <i>Journal of Neuroinflammation</i> , 2016, 13, 267.	3.1	71
85	Improving Depth, Energy and Timing Estimation in PET Detectors with Deconvolution and Maximum Likelihood Pulse Shape Discrimination. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2436-2446.	5.4	8
86	Reaching 200-ps timing resolution in a time-of-flight and depth-of-interaction positron emission tomography detector using phosphor-coated crystals and high-density silicon photomultipliers. <i>Journal of Medical Imaging</i> , 2016, 3, 043501.	0.8	23
87	Bismuth germanate coupled to near ultraviolet silicon photomultipliers for time-of-flight PET. <i>Physics in Medicine and Biology</i> , 2016, 61, L38-L47.	1.6	69
88	IPEM codes of practice and topical report series. <i>Physics in Medicine and Biology</i> , 2016, 61, E5-E6.	1.6	1
89	A combined time-of-flight and depth-of-interaction detector for total-body positron emission tomography. <i>Medical Physics</i> , 2016, 43, 939-950.	1.6	43
90	Characterization of Large-Area SiPM Array for PET Applications. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 8-16.	1.2	47

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91	A Prototype High-Resolution Small-Animal PET Scanner Dedicated to Mouse Brain Imaging. Journal of Nuclear Medicine, 2016, 57, 1130-1135.	2.8	94
92	Activation of photodynamic therapy in vitro with Cerenkov luminescence generated from Yttrium-90 (Conference Presentation). , 2016, , .		0
93	Direct gamma-ray detection with strip TlBr detectors for nuclear medicine applications. , 2016, , .		0
94	Developing a Nanoparticle-Delivered High-Efficacy Treatment for Infantile Hemangiomas Using a Mouse Hemangioendothelioma Model. Plastic and Reconstructive Surgery, 2016, 138, 410-417.	0.7	5
95	EXPLORER: Changing the molecular imaging paradigm with total-body PET/CT (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj		
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	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
98	Evaluation of linearly-graded SiPMs for high resolution small-animal PET. Biomedical Physics and Engineering Express, 2015, 1, 045008.	0.6	7
99	Open-field mouse brain PET: Design considerations and detector development. , 2015, , .		0
100	Evaluation of Matrix9 silicon photomultiplier array for smallâ€”animal PET. Medical Physics, 2015, 42, 585-599.	1.6	21
101	Roberts Prize for the best paper published in 2014. Physics in Medicine and Biology, 2015, 60, E1-E2.	1.6	0
102	Simultaneous PET/MRI Imaging During Mouse Cerebral Hypoxia-ischemia. Journal of Visualized Experiments, 2015, , .	0.2	3
103	Cherenkov luminescence measurements with digital silicon photomultipliers: a feasibility study. EJNMMI Physics, 2015, 2, 32.	1.3	7
104	Design and optimization of a high-resolution PET detector module for small-animal PET based on a 12 Å—12 silicon photomultiplier array. Biomedical Physics and Engineering Express, 2015, 1, 045003.	0.6	10
105	Computed Cerenkov luminescence yields for radionuclides used in biology and medicine. Physics in Medicine and Biology, 2015, 60, 4263-4280.	1.6	65
106	Validation of the SimSET simulation package for modeling the Siemens Biograph mCT PET scanner. Physics in Medicine and Biology, 2015, 60, N35-N45.	1.6	22
107	Un-collimated single-photon imaging system for high-sensitivity small animal and plant imaging. Physics in Medicine and Biology, 2015, 60, 403-420.	1.6	13
108	Characterizing low fluence thresholds for in vitro photodynamic therapy. Biomedical Optics Express, 2015, 6, 770.	1.5	32

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109	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
110	Infection-induced type I interferons activate CD11b on B-1 cells for subsequent lymph node accumulation. Nature Communications, 2015, 6, 8991.	5.8	60
111	In Vivo Molecular Imaging Using Cerenkov Luminescence. , 2014, , .		0
112	Evaluation of 2-[¹⁸ F]fluoroacetate Kinetics in Rodent Models of Cerebral Hypoxia/Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 836-844.	2.4	8
113	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
114	Ultra low fluence rate photodynamic therapy: simulation of light emitted by the Cerenkov effect. Proceedings of SPIE, 2014, , .	0.8	4
115	Numerical simulation of x-ray luminescence optical tomography for small-animal imaging. Journal of Biomedical Optics, 2014, 19, 046002.	1.4	35
116	Roberts Prize for the best paper published in 2013. Physics in Medicine and Biology, 2014, 59, 5971-5972.	1.6	0
117	Timing properties of phosphor-coated polished LSO crystals. Physics in Medicine and Biology, 2014, 59, N139-N151.	1.6	7
118	A Monte Carlo investigation of the spatial resolution performance of a small-animal PET scanner designed for mouse brain imaging studies. Physica Medica, 2014, 30, 76-85.	0.4	15
119	New shielding configurations for a simultaneous PET/MRI scanner at 7T. Journal of Magnetic Resonance, 2014, 239, 50-56.	1.2	29
120	Predicting the timing properties of phosphor-coated scintillators using Monte Carlo light transport simulation. Physics in Medicine and Biology, 2014, 59, 2023-2039.	1.6	18
121	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
122	Ultra Staging to Unmask the Prescribing of Adjuvant Therapy in Cancer Patients: The Future Opportunity to Image Micrometastases Using Total-Body ¹⁸ F-FDG PET Scanning. Journal of Nuclear Medicine, 2014, 55, 696-697.	2.8	19
123	A smart and versatile theranostic nanomedicine platform based on nanoporphyrin. Nature Communications, 2014, 5, 4712.	5.8	345
124	A Study of Position-Sensitive Solid-State Photomultiplier Signal Properties. IEEE Transactions on Nuclear Science, 2014, 61, 1074-1083.	1.2	7
125	Detector Performance Characterization for High Sensitivity Single-Photon Imaging. IEEE Transactions on Nuclear Science, 2014, 61, 1118-1125.	1.2	4
126	Design Considerations for DOI-encoding PET Detectors Using Phosphor-Coated Crystals. IEEE Transactions on Nuclear Science, 2014, 61, 67-73.	1.2	13

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127	NaCdF ₄ :Eu ³⁺ Nanoparticles for Enhanced X-ray Excited Optical Imaging. Chemistry of Materials, 2014, 26, 1881-1888.	3.2	138
128	Performance and limitations of positron emission tomography (PET) scanners for imaging very low activity sources. Physica Medica, 2014, 30, 104-110.	0.4	26
129	Lanthanide-doped nanoparticles for hybrid x-ray/optical imaging. Proceedings of SPIE, 2013, , .	0.8	4
130	A Simple Capacitive Charge-Division Readout for Position-Sensitive Solid-State Photomultiplier Arrays. IEEE Transactions on Nuclear Science, 2013, 60, 3188-3197.	1.2	24
131	Applications for Preclinical PET/MRI. Seminars in Nuclear Medicine, 2013, 43, 19-29.	2.5	86
132	X-ray luminescence optical tomography imaging: experimental studies. Optics Letters, 2013, 38, 2339.	1.7	62
133	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
134	A novel sensor for high throughput preclinical radiotracer imaging. Proceedings of SPIE, 2013, , .	0.8	0
135	Photons across medicine: relating optical and nuclear imaging. Biomedical Optics Express, 2013, 4, 2751.	1.5	5
136	Roberts Prize for the best paper published in 2012. Physics in Medicine and Biology, 2013, 58, .	1.6	0
137	Citations Prize 2012. Physics in Medicine and Biology, 2013, 58, .	1.6	0
138	Numerical and experimental studies of x-ray luminescence optical tomography for small animal imaging. , 2013, , .		1
139	Imaging and timing performance of 1 cm x 1 cm position-sensitive solid-state photomultiplier. Journal of Instrumentation, 2013, 8, C02033-C02033.	0.5	2
140	Radiolabeling Human Peripheral Blood Stem Cells for Positron Emission Tomography (PET) Imaging in Young Rhesus Monkeys. PLoS ONE, 2013, 8, e77148.	1.1	17
141	Joint L^1 and total variation regularization for fluorescence molecular tomography. Physics in Medicine and Biology, 2012, 57, 1459-1476.	1.6	105
142	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
143	Comparison of large-area position-sensitive solid-state photomultipliers for small animal PET. Physics in Medicine and Biology, 2012, 57, 8119-8134.	1.6	23
144	Open Access and PMB. Physics in Medicine and Biology, 2012, 57, E01.	1.6	0

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145	Roberts Prize for the best paper published in 2011. <i>Physics in Medicine and Biology</i> , 2012, 57, .	1.6	0
146	Incoming Editor-in-Chief. <i>Physics in Medicine and Biology</i> , 2012, 57, .	1.6	1
147	Validation of SimSET Monte Carlo simulations of the Siemens Biograph mCT PET scanner. , 2012, , .		1
148	Quantitative, Simultaneous PET/MRI for Intratumoral Imaging with an MRI-Compatible PET Scanner. <i>Journal of Nuclear Medicine</i> , 2012, 53, 1102-1109.	2.8	28
149	Pulse shape discrimination and classification methods for continuous depth of interaction encoding PET detectors. <i>Physics in Medicine and Biology</i> , 2012, 57, 6571-6585.	1.6	23
150	Optimal whole-body PET scanner configurations for different volumes of LSO scintillator: a simulation study. <i>Physics in Medicine and Biology</i> , 2012, 57, 4077-4094.	1.6	114
151	Establishment of Clonal MIN-O Transplant Lines for Molecular Imaging via Lentiviral Transduction & In Vitro Culture. <i>PLoS ONE</i> , 2012, 7, e39350.	1.1	1
152	Radiation Detectors. , 2012, , 87-106.		7
153	Biodistribution and pharmacokinetics of a telodendrimer micellar paclitaxel nanoformulation in a mouse xenograft model of ovarian cancer. <i>International Journal of Nanomedicine</i> , 2012, 7, 1587.	3.3	34
154	Hybrid Imaging. , 2012, , 345-361.		1
155	Radiolabeling and In Vivo Imaging of Transplanted Renal Lineages Differentiated from Human Embryonic Stem Cells in Fetal Rhesus Monkeys. <i>Molecular Imaging and Biology</i> , 2012, 14, 197-204.	1.3	24
156	Pharmacokinetics and Biodistribution of a Human Monoclonal Antibody to Oxidized LDL in Cynomolgus Monkey Using PET Imaging. <i>PLoS ONE</i> , 2012, 7, e45116.	1.1	5
157	New Covalent Capture Probes for Imaging and Therapy, Based on a Combination of Binding Affinity and Disulfide Bond Formation. <i>Bioconjugate Chemistry</i> , 2011, 22, 1479-1483.	1.8	13
158	Tapered LSO arrays for small animal PET. <i>Physics in Medicine and Biology</i> , 2011, 56, 139-153.	1.6	53
159	Functional whole-brain imaging in behaving rodents. <i>Nature Methods</i> , 2011, 8, 301-303.	9.0	19
160	Application of Silicon Photomultipliers to Positron Emission Tomography. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1358-1377.	1.3	197
161	Experimental assessment of resolution improvement of a zoom-in PET. <i>Physics in Medicine and Biology</i> , 2011, 56, N165-N174.	1.6	25
162	Simultaneous PET and Multispectral 3-Dimensional Fluorescence Optical Tomography Imaging System. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1268-1275.	2.8	46

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163	Signal and noise properties of position-sensitive avalanche photodiodes. <i>Physics in Medicine and Biology</i> , 2011, 56, 6327-6336.	1.6	15
164	Statistical image reconstruction for hybrid fluorescence optical tomography and positron emission tomography. , 2011, , .		3
165	<i>In vivo</i> Cerenkov luminescence imaging: a new tool for molecular imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4605-4619.	1.6	145
166	Comments on "Cerenkov radiation allows in vivo optical imaging of positron emitting radiotracers"™. <i>Physics in Medicine and Biology</i> , 2010, 55, L43-L44.	1.6	4
167	Simultaneous PET and 3D Fluorescence Optical Tomography for Small Animal Imaging: In vivo Results and System Improvements. , 2010, , .		0
168	LYSO-SSPM based PET detector module for combined PET/MRI applications. , 2010, , .		1
169	Studies of the interactions of an MRI system with the shielding in a combined PET/MRI scanner. <i>Physics in Medicine and Biology</i> , 2010, 55, 265-280.	1.6	34
170	Cerenkov luminescence tomography for small-animal imaging. <i>Optics Letters</i> , 2010, 35, 1109.	1.7	154
171	Simulation study of spatial resolution and sensitivity for the tapered depth of interaction PET detectors for small animal imaging. <i>Physics in Medicine and Biology</i> , 2010, 55, N63-N74.	1.6	31
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