

Simon Cherry

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

333
papers

22,568
citations

71
h-index

142
g-index

373
ext. papers

25,401
ext. citations

5.1
avg. IF

6.82
L-index

#	Paper	IF	Citations
333	Engineering the gain and bandwidth in avalanche photodetectors. <i>Optics Express</i> , 2022 , 30, 16873	3.3	0
332	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,	3.8	1
331	Quantitative PET in the 2020s: a roadmap. <i>Physics in Medicine and Biology</i> , 2021 , 66, 06RM01	3.8	7
330	Lead-free MCP to improve coincidence time resolution and reduce MCP direct interactions. <i>Physics in Medicine and Biology</i> , 2021 , 66, 064006	3.8	6
329	HRSPECT: a 0.5 mm resolution high-sensitivity small-animal PET scanner, a simulation study. <i>Physics in Medicine and Biology</i> , 2021 , 66, 065016	3.8	3
328	Avalanche photodetectors with photon trapping structures for biomedical imaging applications. <i>Optics Express</i> , 2021 , 29, 19024-19033	3.3	7
327	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,	1	1
326	Study of Brekrov 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	4.2	10
325	Total-Body Quantitative Parametric Imaging of Early Kinetics of F-FDG. <i>Journal of Nuclear Medicine</i> , 2021 , 62, 738-744	8.9	9
324	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	8.9	38
323	Scanner Design Considerations for Long Axial Field-of-View PET Systems. <i>PET Clinics</i> , 2021 , 16, 25-39	2.2	2
322	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	4.9	10
321	Energy and electron drift time measurements in a pixel CCl TlBr detector with 1.3 MeV prompt-gammas. <i>Physics in Medicine and Biology</i> , 2021 , 66, 044001	3.8	2
320	Total-Body PET Kinetic Modeling and Potential Opportunities Using Deep Learning. <i>PET Clinics</i> , 2021 , 16, 613-625	2.2	4
319	Characterization of four readout circuits for an MR compatible, preclinical PET detector. <i>Physics in Medicine and Biology</i> , 2020 , 65, 125008	3.8	2
318	Hybrid PET/MRI enables high-spatial resolution, quantitative imaging of amyloid plaques in an Alzheimer® disease mouse model. <i>Scientific Reports</i> , 2020 , 10, 10379	4.9	3
317	Total-Body PET and Highly Stable Chelators Together Enable Meaningful Zr-Antibody PET Studies up to 30 Days After Injection. <i>Journal of Nuclear Medicine</i> , 2020 , 61, 453-460	8.9	30

316	Cerenkov luminescence and PET imaging of Y: capabilities and limitations in small animal applications. <i>Physics in Medicine and Biology</i> , 2020 , 65, 065006	3.8	4
315	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	11.5	40
314	A near-infrared probe for non-invasively monitoring cerebrospinal fluid flow by F-positron emitting tomography and fluorescence. <i>EJNMMI Research</i> , 2020 , 10, 37	3.6	3
313	Launching our new Roadmap articles. <i>Physics in Medicine and Biology</i> , 2020 , 65, 210301	3.8	
312	A depth-encoding PET detector for high resolution PET using 1 mm SiPMs. <i>Physics in Medicine and Biology</i> , 2020 , 65, 165011	3.8	3
311	The reduction of Lu background in Lu-based PET scanners using optimized classification. <i>Physics in Medicine and Biology</i> , 2020 , 65, 175016	3.8	1
310	Performance comparison of dual-ended readout depth-encoding PET detectors based on BGO and LYSO crystals. <i>Physics in Medicine and Biology</i> , 2020 ,	3.8	8
309	Machine Learning in PET: From Photon Detection to Quantitative Image Reconstruction. <i>Proceedings of the IEEE</i> , 2020 , 108, 51-68	14.3	38
308	Total-Body Dynamic Reconstruction and Parametric Imaging on the uEXPLORER. <i>Journal of Nuclear Medicine</i> , 2020 , 61, 285-291	8.9	59
307	Preliminary evidence of increased striatal dopamine in a nonhuman primate model of maternal immune activation. <i>Translational Psychiatry</i> , 2019 , 9, 135	8.6	19
306	Compton PET: a layered structure PET detector with high performance. <i>Physics in Medicine and Biology</i> , 2019 , 64, 10LT01	3.8	17
305	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	3.8	11
304	Cerenkov light transport in scintillation crystals explained: realistic simulation with GATE. <i>Biomedical Physics and Engineering Express</i> , 2019 , 5,	1.5	11
303	2019: an update from the Editor-in-Chief. <i>Physics in Medicine and Biology</i> , 2019 , 64, 080301	3.8	
302	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	3.8	16
301	First Human Imaging Studies with the EXPLORER Total-Body PET Scanner. <i>Journal of Nuclear Medicine</i> , 2019 , 60, 299-303	8.9	232
300	Real-time whole-plant dynamics of heavy metal transport in and by gamma-ray imaging. <i>Plant Direct</i> , 2019 , 3, e00131	3.3	8
299	First Cerenkov charge-induction (CCI) TlBr detector for TOF-PET and proton range verification. <i>Physics in Medicine and Biology</i> , 2019 , 64, 175001	3.8	13

298	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	3.8	10
297	Prototype Small-Animal PET-CT Imaging System for Image-guided Radiation Therapy. <i>IEEE Access</i> , 2019 , 7, 143207-143216	3.5	2
296	Imaging Salt Uptake Dynamics in Plants Using PET. <i>Scientific Reports</i> , 2019 , 9, 18626	4.9	10
295	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	3.8	22
294	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> , 2019 , 5,	1.5	9
293	Discussions with Leaders: A Conversation between Simon Cherry and Johannes Czernin. <i>Journal of Nuclear Medicine</i> , 2019 , 60, 295-298	8.9	2
292	Towards time-of-flight PET with a semiconductor detector. <i>Physics in Medicine and Biology</i> , 2018 , 63, 04LT01	3.8	25
291	Improving Edge Crystal Identification in Flood Histograms Using Triangular Shape Crystals. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4,	1.5	3
290	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	8.9	27
289	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	3.8	31
288	Innovations in Instrumentation for Positron Emission Tomography. <i>Seminars in Nuclear Medicine</i> , 2018 , 48, 311-331	5.4	56
287	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	8.9	270
286	Theoretical investigation of ultrasound-modulated Cerenkov luminescence imaging for higher-resolution imaging in turbid media. <i>Optics Letters</i> , 2018 , 43, 3509-3512	3	3
285	Development of TlBr detectors for PET imaging. <i>Physics in Medicine and Biology</i> , 2018 , 63, 13NT04	3.8	6
284	Using convolutional neural networks to estimate time-of-flight from PET detector waveforms. <i>Physics in Medicine and Biology</i> , 2018 , 63, 02LT01	3.8	37
283	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	3.8	11
282	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	3.8	4
281	Shared-photodetector readout to improve the sensitivity of positron emission tomography. <i>Physics in Medicine and Biology</i> , 2018 , 63, 205002	3.8	1

280	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	3.8	8
279	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	3.8	8
278	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	3.9	13
277	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	3.8	57
276	An integrated model of scintillator-reflector properties for advanced simulations of optical transport. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4811-4830	3.8	23
275	Open-field mouse brain PET: design optimisation and detector characterisation. <i>Physics in Medicine and Biology</i> , 2017 , 62, 6207-6225	3.8	8
274	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	3.8	24
273	Total-body imaging: Transforming the role of positron emission tomography. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	106
272	Quantitative assessment of Cerenkov luminescence for radioguided brain tumor resection surgery. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4183-4201	3.8	12
271	Effects of pair bonding on dopamine D1 receptors in monogamous male titi monkeys (<i>Callicebus cupreus</i>). <i>American Journal of Primatology</i> , 2017 , 79, 1-9	2.5	18
270	Imaging Salt Transport in Plants Using PET: A Feasibility Study 2017 ,		1
269	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	4.2	25
268	Performance Comparison of Different Readouts for Position-Sensitive Solid-State Photomultiplier Arrays. <i>Biomedical Physics and Engineering Express</i> , 2017 , 3,	1.5	3
267	Imaging, Behavior and Endocrine Analysis of "Jealousy" in a Monogamous Primate. <i>Frontiers in Ecology and Evolution</i> , 2017 , 5,	3.7	15
266	Developing a Nanoparticle-Delivered High-Efficacy Treatment for Infantile Hemangiomas Using a Mouse Hemangioendothelioma Model. <i>Plastic and Reconstructive Surgery</i> , 2016 , 138, 410-417	2.7	3
265	On the assessment of spatial resolution of PET systems with iterative image reconstruction. <i>Physics in Medicine and Biology</i> , 2016 , 61, N193-202	3.8	38
264	Activating Photodynamic Therapy in vitro with Cerenkov Radiation Generated from Yttrium-90. <i>Journal of Environmental Pathology, Toxicology and Oncology</i> , 2016 , 35, 185-92	2.1	29
263	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	3.5	23

262	Persistent neuroinflammation and cognitive impairment in a rat model of acute diisopropylfluorophosphate intoxication. <i>Journal of Neuroinflammation</i> , 2016 , 13, 267	10.1	50
261	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	11.7	6
260	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	2.6	19
259	Bismuth germanate coupled to near ultraviolet silicon photomultipliers for time-of-flight PET. <i>Physics in Medicine and Biology</i> , 2016 , 61, L38-L47	3.8	49
258	A combined time-of-flight and depth-of-interaction detector for total-body positron emission tomography. <i>Medical Physics</i> , 2016 , 43, 939-50	4.4	37
257	Characterization of Large-Area SiPM Array for PET Applications. <i>IEEE Transactions on Nuclear Science</i> , 2016 , 63, 8-16	1.7	34
256	A Prototype High-Resolution Small-Animal PET Scanner Dedicated to Mouse Brain Imaging. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 1130-5	8.9	68
255	Un-collimated single-photon imaging system for high-sensitivity small animal and plant imaging. <i>Physics in Medicine and Biology</i> , 2015 , 60, 403-20	3.8	11
254	Characterizing low fluence thresholds for in vitro photodynamic therapy. <i>Biomedical Optics Express</i> , 2015 , 6, 770-9	3.5	26
253	Optimizing light transport in scintillation crystals for time-of-flight PET: an experimental and optical Monte Carlo simulation study. <i>Biomedical Optics Express</i> , 2015 , 6, 2220-30	3.5	20
252	Infection-induced type I interferons activate CD11b on B-1 cells for subsequent lymph node accumulation. <i>Nature Communications</i> , 2015 , 6, 8991	17.4	39
251	Evaluation of linearly-graded SiPMs for high resolution small-animal PET. <i>Biomedical Physics and Engineering Express</i> , 2015 , 1, 045008	1.5	5
250	Evaluation of Matrix9 silicon photomultiplier array for small-animal PET. <i>Medical Physics</i> , 2015 , 42, 585	4.4	17
249	Simultaneous PET/MRI Imaging During Mouse Cerebral Hypoxia-ischemia. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	3
248	Cherenkov luminescence measurements with digital silicon photomultipliers: a feasibility study. <i>EJNMMI Physics</i> , 2015 , 2, 32	4.4	5
247	Design and optimization of a high-resolution PET detector module for small-animal PET based on a 12 × 2 silicon photomultiplier array. <i>Biomedical Physics and Engineering Express</i> , 2015 , 1, 045003	1.5	8
246	Computed Cerenkov luminescence yields for radionuclides used in biology and medicine. <i>Physics in Medicine and Biology</i> , 2015 , 60, 4263-80	3.8	50
245	Validation of the SimSET simulation package for modeling the Siemens Biograph mCT PET scanner. <i>Physics in Medicine and Biology</i> , 2015 , 60, N35-45	3.8	15

244	Predicting the timing properties of phosphor-coated scintillators using Monte Carlo light transport simulation. <i>Physics in Medicine and Biology</i> , 2014 , 59, 2023-39	3.8	14
243	In vivo tracking of Th1 cells by PET reveals quantitative and temporal distribution and specific homing in lymphatic tissue. <i>Journal of Nuclear Medicine</i> , 2014 , 55, 301-7	8.9	47
242	Ultra staging to unmask the prescribing of adjuvant therapy in cancer patients: the future opportunity to image micrometastases using total-body 18F-FDG PET scanning. <i>Journal of Nuclear Medicine</i> , 2014 , 55, 696-7	8.9	14
241	A smart and versatile theranostic nanomedicine platform based on nanoporphyrin. <i>Nature Communications</i> , 2014 , 5, 4712	17.4	305
240	A Study of Position-Sensitive Solid-State Photomultiplier Signal Properties. <i>IEEE Transactions on Nuclear Science</i> , 2014 , 61, 1074-1083	1.7	7
239	Detector Performance Characterization for High Sensitivity Single-Photon Imaging. <i>IEEE Transactions on Nuclear Science</i> , 2014 , 61, 1118-1125	1.7	2
238	. <i>IEEE Transactions on Nuclear Science</i> , 2014 , 61, 67-73	1.7	12
237	NaGdF:Eu Nanoparticles for Enhanced X-ray Excited Optical Imaging. <i>Chemistry of Materials</i> , 2014 , 26, 1881-1888	9.6	116
236	Performance and limitations of positron emission tomography (PET) scanners for imaging very low activity sources. <i>Physica Medica</i> , 2014 , 30, 104-10	2.7	21
235	Evaluation of 2-[¹⁸ F]fluoroacetate kinetics in rodent models of cerebral hypoxia-ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 836-44	7.3	7
234	Effects of reflector and crystal surface on the performance of a depth-encoding PET detector with dual-ended readout. <i>Medical Physics</i> , 2014 , 41, 072503	4.4	36
233	Ultra low fluence rate photodynamic therapy: simulation of light emitted by the Cerenkov effect 2014 ,		3
232	Numerical simulation of x-ray luminescence optical tomography for small-animal imaging. <i>Journal of Biomedical Optics</i> , 2014 , 19, 046002	3.5	30
231	Timing properties of phosphor-coated polished LSO crystals. <i>Physics in Medicine and Biology</i> , 2014 , 59, N139-51	3.8	7
230	A Monte Carlo investigation of the spatial resolution performance of a small-animal PET scanner designed for mouse brain imaging studies. <i>Physica Medica</i> , 2014 , 30, 76-85	2.7	11
229	New shielding configurations for a simultaneous PET/MRI scanner at 7T. <i>Journal of Magnetic Resonance</i> , 2014 , 239, 50-6	3	21
228	Lanthanide-doped nanoparticles for hybrid x-ray/optical imaging 2013 ,		2
227	A Simple Capacitive Charge-Division Readout for Position-Sensitive Solid-State Photomultiplier Arrays. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 3188-3197	1.7	18

226	Applications for preclinical PET/MRI. <i>Seminars in Nuclear Medicine</i> , 2013 , 43, 19-29	5.4	74
225	X-ray luminescence optical tomography imaging: experimental studies. <i>Optics Letters</i> , 2013 , 38, 2339-413		54
224	Simulation of light transport in scintillators based on 3D characterization of crystal surfaces. <i>Physics in Medicine and Biology</i> , 2013 , 58, 2185-98	3.8	37
223	Photons across medicine: relating optical and nuclear imaging. <i>Biomedical Optics Express</i> , 2013 , 4, 2751-625	3.5	4
222	Numerical and experimental studies of x-ray luminescence optical tomography for small animal imaging 2013 ,		1
221	Imaging and Timing Performance of 1cm \times 1cm Position-sensitive Solid-state Photomultiplier. <i>Journal of Instrumentation</i> , 2013 , 8, C02033	1	1
220	Radiolabeling human peripheral blood stem cells for positron emission tomography (PET) imaging in young rhesus monkeys. <i>PLoS ONE</i> , 2013 , 8, e77148	3.7	15
219	Validation of SimSET Monte Carlo simulations of the Siemens Biograph mCT PET scanner 2012 ,		1
218	Quantitative, simultaneous PET/MRI for intratumoral imaging with an MRI-compatible PET scanner. <i>Journal of Nuclear Medicine</i> , 2012 , 53, 1102-9	8.9	25
217	Pulse shape discrimination and classification methods for continuous depth of interaction encoding PET detectors. <i>Physics in Medicine and Biology</i> , 2012 , 57, 6571-85	3.8	21
216	Optimal whole-body PET scanner configurations for different volumes of LSO scintillator: a simulation study. <i>Physics in Medicine and Biology</i> , 2012 , 57, 4077-94	3.8	96
215	Establishment of clonal MIN-O transplant lines for molecular imaging via lentiviral transduction & in vitro culture. <i>PLoS ONE</i> , 2012 , 7, e39350	3.7	1
214	Radiation Detectors 2012 , 87-106		6
213	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, 1587-97	7.3	31
212	Hybrid Imaging 2012 , 345-361		
211	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	3.8	21
210	Joint L1 and total variation regularization for fluorescence molecular tomography. <i>Physics in Medicine and Biology</i> , 2012 , 57, 1459-76	3.8	82
209	Periocular and intra-articular injection of canine adipose-derived mesenchymal stem cells: an in vivo imaging and migration study. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2012 , 28, 307-17	2.6	42

208	Comparison of large-area position-sensitive solid-state photomultipliers for small animal PET. <i>Physics in Medicine and Biology</i> , 2012 , 57, 8119-34	3.8	19
207	Pharmacokinetics and biodistribution of a human monoclonal antibody to oxidized LDL in cynomolgus monkey using PET imaging. <i>PLoS ONE</i> , 2012 , 7, e45116	3.7	4
206	Tapered LSO arrays for small animal PET. <i>Physics in Medicine and Biology</i> , 2011 , 56, 139-53	3.8	43
205	Application of silicon photomultipliers to positron emission tomography. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 1358-77	4.7	160
204	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, 1479-83	6.3	10
203	Experimental assessment of resolution improvement of a zoom-in PET. <i>Physics in Medicine and Biology</i> , 2011 , 56, N165-74	3.8	20
202	Simultaneous PET and multispectral 3-dimensional fluorescence optical tomography imaging system. <i>Journal of Nuclear Medicine</i> , 2011 , 52, 1268-75	8.9	40
201	Signal and noise properties of position-sensitive avalanche photodiodes. <i>Physics in Medicine and Biology</i> , 2011 , 56, 6327-36	3.8	13
200	Statistical image reconstruction for hybrid fluorescence optical tomography and positron emission tomography 2011 ,		1
199	In vivo Cerenkov luminescence imaging: a new tool for molecular imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 4605-19	3	122
198	LYSO-SSPM based PET detector module for combined PET/MRI applications 2010 ,		1
197	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, 265-80	3.8	32
196	Cerenkov luminescence tomography for small-animal imaging. <i>Optics Letters</i> , 2010 , 35, 1109-11	3	125
195	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, N63-74	3.8	26
194	DigiWarp: a method for deformable mouse atlas warping to surface topographic data. <i>Physics in Medicine and Biology</i> , 2010 , 55, 6197-214	3.8	15
193	Comments on Cerenkov radiation allows in vivo optical imaging of positron emitting radiotracers <i>Physics in Medicine and Biology</i> , 2010 , 55, L43-4; author reply L45-9	3.8	3
192	A study of the timing properties of position-sensitive avalanche photodiodes. <i>Physics in Medicine and Biology</i> , 2009 , 54, 5155-72	3.8	16
191	Performance measurements of a SSPM-LYSO-SSPM detector module for small animal positron emission tomography 2009 ,		23

190	111In-LLP2A-DOTA Polyethylene Glycol-Targeting $\alpha_4\beta_1$ Integrin: Comparative Pharmacokinetics for Imaging and Therapy of Lymphoid Malignancies. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 625-34	8.9	34
189	Initial characterization of a dedicated breast PET/CT scanner during human imaging. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 1401-8	8.9	90
188	A high-sensitivity small animal SPECT system. <i>Physics in Medicine and Biology</i> , 2009 , 54, 1291-305	3.8	12
187	PET characteristics of a dedicated breast PET/CT scanner prototype. <i>Physics in Medicine and Biology</i> , 2009 , 54, 4273-87	3.8	41
186	Excitation spectroscopy in multispectral optical fluorescence tomography: methodology, feasibility and computer simulation studies. <i>Physics in Medicine and Biology</i> , 2009 , 54, 4687-704	3.8	25
185	Continuous depth-of-interaction encoding using phosphor-coated scintillators. <i>Physics in Medicine and Biology</i> , 2009 , 54, 1757-71	3.8	57
184	Depth of interaction calibration for PET detectors with dual-ended readout by PSAPDs. <i>Physics in Medicine and Biology</i> , 2009 , 54, 433-45	3.8	116
183	Experimental characterization and system simulations of depth of interaction PET detectors using 0.5 mm and 0.7 mm LSO arrays. <i>Physics in Medicine and Biology</i> , 2009 , 54, 4605-19	3.8	63
182	Investigation of Depth of Interaction Encoding for a Pixelated LSO Array with a Single Multi-Channel PMT. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 2594-2599	1.7	27
181	Three-dimensional fluorescence optical tomography in small-animal imaging using simultaneous positron-emission-tomography priors. <i>Optics Letters</i> , 2009 , 34, 2933-5	3	34
180	A three-dimensional multispectral fluorescence optical tomography imaging system for small animals based on a conical mirror design. <i>Optics Express</i> , 2009 , 17, 7571-85	3.3	63
179	Spatial distortion correction and crystal identification for MRI-compatible position-sensitive avalanche photodiode-based PET scanners. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 549-556	1.7	15
178	Optical imaging of Cerenkov light generation from positron-emitting radiotracers. <i>Physics in Medicine and Biology</i> , 2009 , 54, N355-65	3.8	296
177	PET Performance Evaluation of an MR-Compatible PET Insert. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 574-580	1.7	33
176	Multimodality imaging: beyond PET/CT and SPECT/CT. <i>Seminars in Nuclear Medicine</i> , 2009 , 39, 348-53	5.4	169
175	Simultaneous PET-MRI: a new approach for functional and morphological imaging. <i>Nature Medicine</i> , 2008 , 14, 459-65	50.5	829
174	Simultaneous in vivo positron emission tomography and magnetic resonance imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 3705-10	11.5	250
173	The Integration of Positron Emission Tomography With Magnetic Resonance Imaging. <i>Proceedings of the IEEE</i> , 2008 , 96, 416-438	14.3	58

172	Small-animal preclinical nuclear medicine instrumentation and methodology. <i>Seminars in Nuclear Medicine</i> , 2008 , 38, 209-22	5.4	107
171	Effects of neonatal amygdala or hippocampus lesions on resting brain metabolism in the macaque monkey: a microPET imaging study. <i>NeuroImage</i> , 2008 , 39, 832-46	7.9	34
170	CdTe Strip Detector Characterization for High Resolution Small Animal PET. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 870-876	1.7	27
169	Spatial distortion correction and crystal identification for position-sensitive avalanche photodiode-based PET scanners 2008 ,		1
168	A Multiplexer Design for Position-Sensitive Avalanche Photodiode Detectors in a PET Scanner. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 463-468	1.7	14
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