

Emilie Roncali

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

983
citations

430442

18
h-index

433756

31
g-index

35
all docs

35
docs citations

35
times ranked

795
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Silicon Photomultipliers to Positron Emission Tomography. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1358-1377.	1.3	197
2	Advanced Monte Carlo simulations of emission tomography imaging systems with GATE. <i>Physics in Medicine and Biology</i> , 2021, 66, 10TR03.	1.6	82
3	Non-Invasive In Vivo Imaging of Calcium Signaling in Mice. <i>PLoS ONE</i> , 2007, 2, e974.	1.1	81
4	Simulation of light transport in scintillators based on 3D characterization of crystal surfaces. <i>Physics in Medicine and Biology</i> , 2013, 58, 2185-2198.	1.6	55
5	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
6	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
7	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
8	Quantitative PET in the 2020s: a roadmap. <i>Physics in Medicine and Biology</i> , 2021, 66, 06RM01.	1.6	36
9	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.	1.5	34
10	New device for real-time bioluminescence imaging in moving rodents. <i>Journal of Biomedical Optics</i> , 2008, 13, 054035.	1.4	33
11	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
12	Personalized Dosimetry for Liver Cancer Y-90 Radioembolization Using Computational Fluid Dynamics and Monte Carlo Simulation. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1499-1510.	1.3	26
13	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
14	Modelling the transport of optical photons in scintillation detectors for diagnostic and radiotherapy imaging. <i>Physics in Medicine and Biology</i> , 2017, 62, R207-R235.	1.6	24
15	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
16	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
17	Cerenkov light transport in scintillation crystals explained: realistic simulation with GATE. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 035033.	0.6	22
18	Evaluation of Matrix9 silicon photomultiplier array for small-animal PET. <i>Medical Physics</i> , 2015, 42, 585-599.	1.6	21

#	ARTICLE	IF	CITATIONS
19	Predicting the timing properties of phosphor-coated scintillators using Monte Carlo light transport simulation. <i>Physics in Medicine and Biology</i> , 2014, 59, 2023-2039.	1.6	18
20	Computational Modeling of the Liver Arterial Blood Flow for Microsphere Therapy: Effect of Boundary Conditions. <i>Bioengineering</i> , 2020, 7, 64.	1.6	14
21	Multiscale Computational Fluid Dynamics Modeling for Personalized Liver Cancer Radioembolization Dosimetry. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	0.6	14
22	Design Considerations for DOI-encoding PET Detectors Using Phosphor-Coated Crystals. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 67-73.	1.2	13
23	Radioembolization Dosimetry with Total-Body ^{90}Y PET. <i>Journal of Nuclear Medicine</i> , 2022, 63, 1101-1107.	2.8	12
24	Technical Note: Standalone application to generate custom reflectance Look-Up Table for advanced optical Monte Carlo simulation in GATE/Geant4. <i>Medical Physics</i> , 2021, 48, 2800-2808.	1.6	10
25	Time Resolution Studies of Thallium Based Cherenkov Semiconductors. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	9
26	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
27	The Accuracy of Cerenkov Photons Simulation in Geant4/Gate Depends on the Parameterization of Primary Electron Propagation. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	8
28	Timing properties of phosphor-coated polished LSO crystals. <i>Physics in Medicine and Biology</i> , 2014, 59, N139-N151.	1.6	7
29	Overview of the First NRG Oncology National Cancer Institute Workshop on Dosimetry of Systemic Radiopharmaceutical Therapy. <i>Journal of Nuclear Medicine</i> , 2021, 62, 1133-1139.	2.8	5
30	Toward Individualized Voxel-Level Dosimetry for Radiopharmaceutical Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 902-904.	0.4	5
31	Optimization of scintillator reflector optical interfaces for the LUT Davis model. <i>Medical Physics</i> , 2021, 48, 4883-4899.	1.6	5
32	Realistic boundary conditions in SimVascular through inlet catheter modeling. <i>BMC Research Notes</i> , 2021, 14, 215.	0.6	4
33	Integration of polarization in the LUTDavis model for optical Monte Carlo simulation in radiation detectors. <i>Physics in Medicine and Biology</i> , 2021, 66, .	1.6	3
34	The Impact of Injection Distance to Bifurcations on Yttrium-90 Distribution in Liver Cancer Radioembolization. <i>Journal of Vascular and Interventional Radiology</i> , 2022, 33, 668-677.e1.	0.2	3
35	Estimation of Yttrium-90 Distribution in Liver Radioembolization using Computational Fluid Dynamics and Deep Neural Networks. , 2020, 2020, 4974-4977.		2