

# Sara Marcatili

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,151  
citations

567281

15  
h-index

434195

31  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1295  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the use and potential of the GATE Monte Carlo simulation code for radiation therapy and dosimetry applications. <i>Medical Physics</i> , 2014, 41, 064301.	3.0	332
2	Single photon timing resolution and detection efficiency of the IRST silicon photo-multipliers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 581, 461-464.	1.6	68
3	Characterization of a PET detector head based on continuous LYSO crystals and monolithic, 64-pixel silicon photomultiplier matrices. <i>Physics in Medicine and Biology</i> , 2010, 55, 7299-7315.	3.0	55
4	Development and validation of RAYDOSE: a Geant4-based application for molecular radiotherapy. <i>Physics in Medicine and Biology</i> , 2013, 58, 2491-2508.	3.0	52
5	Studies of silicon photomultipliers at cryogenic temperatures. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 628, 389-392.	1.6	50
6	Electrical Characterization of Silicon Photo-Multiplier Detectors for Optimal Front-End Design. , 2006, , .		48
7	Advantages and pitfalls of the silicon photomultiplier (SiPM) as photodetector for the next generation of PET scanners. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 617, 223-226.	1.6	40
8	Silicon Photomultipliers (SiPM) as novel photodetectors for PET. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 648, S232-S235.	1.6	38
9	Energy, Timing and Position Resolution Studies With 16-Pixel Silicon Photomultiplier Matrices for Small Animal PET. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2586-2593.	2.0	36
10	Development of the first prototypes of Silicon PhotoMultiplier (SiPM) at ITC-irst. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 572, 422-426.	1.6	33
11	Internal dosimetry with the Monte Carlo code GATE: validation using the ICRP/ICRU female reference computational model. <i>Physics in Medicine and Biology</i> , 2017, 62, 1885-1904.	3.0	27
12	Drugs That Modify Cholesterol Metabolism Alter the p38/JNK-Mediated Targeted and Nontargeted Response to Alpha and Auger Radioimmunotherapy. <i>Clinical Cancer Research</i> , 2019, 25, 4775-4790.	7.0	26
13	Novel Silicon Photomultipliers for PET Applications. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 877-881.	2.0	25
14	Model-based versus specific dosimetry in diagnostic context: Comparison of three dosimetric approaches. <i>Medical Physics</i> , 2015, 42, 1288-1296.	3.0	23
15	Preliminary results from a current mode CMOS front-end circuit for silicon photomultiplier detectors. , 2007, , .		22
16	Silicon photomultipliers and SiPM matrices as photodetectors in nuclear medicine. , 2007, , .		21
17	Energy and Timing Resolution Studies With Silicon Photomultipliers (SiPMs) and 4-Pixel SiPM Matrices for PET. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 543-548.	2.0	21
18	Silicon photomultiplier performance tests in magnetic resonance pulsed fields. , 2007, , .		18

#	ARTICLE	IF	CITATIONS
19	First results in the application of silicon photomultiplier matrices to small animal PET. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 196-199.	1.6	17
20	Ultra-fast prompt gamma detection in single proton counting regime for range monitoring in particle therapy. Physics in Medicine and Biology, 2020, 65, 245033.	3.0	17
21	Advances in position-sensitive photodetectors for PET applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 319-322.	1.6	15
22	Realistic multi-cellular dosimetry for <sup>177</sup> Lu-labelled antibodies: model and application. Physics in Medicine and Biology, 2016, 61, 6935-6952.	3.0	15
23	The therapeutic effectiveness of <sup>177</sup> Lu-lilotomab in B-cell non-Hodgkin lymphoma involves modulation of G2/M cell cycle arrest. Leukemia, 2020, 34, 1315-1328.	7.2	12
24	Monolithic 64-channel SiPM matrices for small animal PET. , 2009, , .		11
25	A large area diamond-based beam tagging hodoscope for ion therapy monitoring. EPJ Web of Conferences, 2018, 170, 09005.	0.3	11
26	Development and characterization of a modular acquisition system for a 4D PET block detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 494-498.	1.6	10
27	A Study of the Radiation Tolerance of CVD Diamond to 70 MeV Protons, Fast Neutrons and 200 MeV Pions. Sensors, 2020, 20, 6648.	3.8	10
28	A time-of-flight-based reconstruction for real-time prompt-gamma imaging in proton therapy. Physics in Medicine and Biology, 2021, 66, 135003.	3.0	10
29	Timing performances of a data acquisition system for Time of Flight PET. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 210-212.	1.6	9
30	Dosimetry for nonuniform activity distributions: A method for the calculation of 3D absorbed dose distribution without the use of voxel <i>S</i> values, point kernels, or Monte Carlo simulations. Medical Physics, 2013, 40, 042505.	3.0	8
31	New results on the characterization of ITC-irst Silicon Photomultipliers. , 2006, , .		7
32	Characteristics of a prototype matrix of Silicon PhotoMultipliers (SiPM). Journal of Instrumentation, 2009, 4, P03016-P03016.	1.2	7
33	Evaluation of the first Silicon Photomultiplier matrices for a small animal PET scanner. , 2008, , .		6
34	Advanced radiation measurement techniques in diagnostic radiology and molecular imaging. Radiation Protection Dosimetry, 2008, 131, 136-142.	0.8	6
35	Characterization of a prototype matrix of Silicon PhotoMultipliers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 101-104.	1.6	6
36	Characterization of Ca co-doped LSO:Ce scintillators coupled to SiPM for PET applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 628, 423-425.	1.6	6

