

Simone Tisa

List of Publications by Year in descending order

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36
papers

1,417
citations

430874

18
h-index

642732

23
g-index

36
all docs

36
docs citations

36
times ranked

1106
citing authors

#	ARTICLE	IF	CITATIONS
1	A quantum-enhanced wide-field phase imager. <i>Science Advances</i> , 2021, 7, eabj2155.	10.3	23
2	Imaging and certifying high-dimensional entanglement with a single-photon avalanche diode camera. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	37
3	Single-Photon Detectors Modeling and Selection Criteria for High-Background LiDAR. <i>IEEE Sensors Journal</i> , 2020, 20, 7021-7032.	4.7	19
4	Functional Fluorescence Microscopy Imaging: Quantitative Scanning-Free Confocal Fluorescence Microscopy for the Characterization of Fast Dynamic Processes in Live Cells. <i>Analytical Chemistry</i> , 2019, 91, 11129-11137.	6.5	25
5	SPAD Figures of Merit for Photon-Counting, Photon-Timing, and Imaging Applications: A Review. <i>IEEE Sensors Journal</i> , 2016, 16, 3-12.	4.7	161
6	Planar CMOS analog SiPMs: design, modeling, and characterization. <i>Journal of Modern Optics</i> , 2015, 62, 1693-1702.	1.3	14
7	High-Speed Quantum Random Number Generation Using CMOS Photon Counting Detectors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 23-29.	2.9	32
8	Fully CMOS analog and digital SiPMs. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
9	High linearity SPAD and TDC array for TCSPC and 3D ranging applications. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
10	Time-to-digital converter card for multichannel time-resolved single-photon counting applications. , 2015, , .		1
11	Quantitative confocal fluorescence microscopy of dynamic processes by multifocal fluorescence correlation spectroscopy. , 2015, , .		4
12	Quantitative confocal fluorescence microscopy of dynamic processes by multifocal fluorescence correlation spectroscopy. , 2015, , .		3
13	Low-noise CMOS SPAD arrays with in-pixel time-to-digital converters. , 2014, , .		2
14	CMOS Imager With 1024 SPADs and TDCs for Single-Photon Timing and 3-D Time-of-Flight. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 364-373.	2.9	198
15	100 000 Frames/s 64 Å— 32 Single-Photon Detector Array for 2-D Imaging and 3-D Ranging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 354-363.	2.9	144
16	A Single-Photon Avalanche Camera for Fluorescence Lifetime Imaging Microscopy and Correlation Spectroscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 344-353.	2.9	45
17	CMOS SPADs with up to 500 $\hat{1}$ / ₄ m diameter and 55% detection efficiency at 420 nm. <i>Journal of Modern Optics</i> , 2014, 61, 102-115.	1.3	77
18	Time-resolved double-slit interference pattern measurement with entangled photons. <i>Scientific Reports</i> , 2014, 4, 4685.	3.3	15

#	ARTICLE	IF	CITATIONS
19	Fast Sensing and Quenching of CMOS SPADs for Minimal Afterpulsing Effects. IEEE Photonics Technology Letters, 2013, 25, 776-779.	2.5	93
20	A High-Linearity, 17 ps Precision Time-to-Digital Converter Based on a Single-Stage Vernier Delay Loop Fine Interpolation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 557-569.	5.4	143
21	Low-noise low-jitter 32-pixels CMOS single-photon avalanche diodes array for single-photon counting from 300 nm to 900 nm. Review of Scientific Instruments, 2013, 84, 123112.	1.3	22
22	Time-resolved optical spectrometer based on a monolithic array of high-precision TDCs and SPADs. , 2013, , .		0
23	Experimental remote state preparation and estimation for spatial qubits. , 2013, , .		0
24	A 32Å–32 photon counting camera. Optik & Photonik, 2011, 6, 43-46.	0.2	0
25	Ultra high-throughput single molecule spectroscopy with a 1024 pixel SPAD. Proceedings of SPIE, 2011, 7905, .	0.8	27
26	Two-Dimensional SPAD Imaging Camera for Photon Counting. IEEE Photonics Journal, 2010, 2, 759-774.	2.0	96
27	Single-photon camera for high-sensitivity high-speed applications. Proceedings of SPIE, 2010, , .	0.8	8
28	Sub-Rayleigh Imaging via $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mi}> N \langle / \text{mml:mi}> \langle / \text{mml:math}>$ -Photon Detection. Physical Review Letters, 2010, 105, 163602.	7.8	46
29	SPAD arrays for parallel photon counting and timing. , 2010, , .		7
30	Sub-Rayleigh Imaging via N-Photon Detection. , 2010, , .		2
31	Monolithic array of 32 SPAD pixels for single-photon imaging at high frame rates. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 24-27.	1.6	7
32	SPAD detection head with 32 fully-parallel channels for time-tagging single-photons at $3\frac{1}{4}$ s. , 2009, , .		0
33	Fast single-photon imager acquires 1024 pixels at 100 kframe/s. , 2009, , .		15
34	Variable-load quenching circuit for single-photon avalanche diodes. Optics Express, 2008, 16, 2232.	3.4	78
35	100 kframe/s 8 bit monolithic single-photon imagers. , 2008, , .		5
36	Single-Photon Avalanche Diode Model for Circuit Simulations. IEEE Photonics Technology Letters, 2007, 19, 1922-1924.	2.5	67