

LIST OF SCIENTIFIC (PEER REVIEWED) PUBLICATIONS

No	Title	Main author	Title of the periodical or the series	Number, date or frequency	Publisher	Place of publication	Year of publication	Relevant pages	Permanent identifiers (if available)
1	<i>3D ranging with a single-photon</i>	S. Bellisai, F. Guerrieri, S. Tisa, F. Zappa	Proc. SPIE Electronic Imaging 2011	Conference Volume 7875, February 2011	SPIE digital library	San Francisco (USA)	2011		http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1348365
2	<i>Monolithic single-photon detectors and time-to-digital converters for picoseconds time-of-flight ranging</i>	B. Markovic, S. Tisa, A. Tosi, F. Zappa	Proc. SPIE Electronic Imaging 2011	Conference Volume 7875, February 2011	SPIE digital library	San Francisco (USA)	2011		http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1348367
3	<i>Smart-pixel for 3D ranging imagers based on single-photon avalanche diode and time-to-digital converter</i>	B. Markovic, S. Tisa, A. Tosi, F. Zappa	Proc. SPIE DSS 2011	Conference Volume 8033, May 2011	SPIE digital library	Orlando (USA)	2011		http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1350894
4	<i>Towards arrays of smart-pixels for time-correlated single photon counting and time of flight application</i>	S. Tisa, N. Bertone, F. Zappa	Proc. SPIE Photonics West 2011, Opto Conference	Conference Volume 7942, January 2011	SPIE digital library	San Francisco (USA)	2011		http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1349586
5	<i>A 32x32 photon counting camera</i>	S. Tisa, N. Bertone, F. Zappa	Optik & Photonik (Wiley- VCH)	Conference Volume 6, Issue 2	Wiley Online Library	Weinheim (Germany)	2011	Pages: 43–46	http://onlinelibrary.wiley.com/doi/10.1002/opph.201190329/abstract

6	<i>15bit Time-to-Digital Converters with 0.9% DNLrms and 160ns FSR for single-photon imagers</i>	B. Markovic, S. Bellisai, F.A. Villa	7th Conference on Ph.D. Research in Microelectronics and Electronics (PRIME), 2011 (IEEE).		IEEEXplore	USA	2011	Pages: 25-28	http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5966209&url=http%3A%2F%2Fieeexplore.ieee.org%2Fiel5%2F5958521%2F5966131%2F05966209.pdf%3Farnumber%3D5966209
7	<i>Cumulative data acquisition in comparative photon-counting three dimensional imaging</i>	Krichel, McCarthy, Rech, Ghioni, Gulinatti, Buller	Journal of Modern Optics	Volume 58	Taylor & Francis Group	UK	2011	Pages 244-256	http://www.tandfonline.com/doi/abs/10.1080/09500340.2010.519445#.UtAaqrCA11s
8	<i>10 ps resolution, 160 ns full scale range and less than 1.5% differential non-linearity time-to-digital converter module for high performance timing measurements</i>	B, Markovic, D. Tamborini F. Villa F S. Tisa A. Tosi, F. Zappa	Rev Sci Instrum.	Volume 83	NCBI	USA	2012		http://www.ncbi.nlm.nih.gov/pubmed/22852708
9	<i>Low-noise and large-area CMOS SPADs with timing response free from slow tails</i>	F. Villa, S. Bellisai, B. Markovic, S. Tisa, A. Tosi, F. Zappa, S. Weyers, D. Durini, W. Brockherde, U. Paschen,	Solid-State Device Research Conference (ESSDERC), 2012 Proceedings of the European		IEEEXplore	USA	2012	Pages 230-233	http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6343375&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6343375

10	<i>3D sensor for indirect ranging with pulsed laser source</i>	D. Bronzi, S. Bellisai, F. A. Villa, C. Scarcella, A. Bahgat Shehata, A. Tosi, G. M. Padovini, F. Zappa, S. Tisa, D. Durini, S. Weyers, W. Brockherde	Electro-Optical Remote Sensing, Photonic Technologies, and Applications VI, Proceedings of SPIE	Volume 8541	SPIE digital library	USA	2012	http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1387353
11	<i>SPAD imagers for remote sensing at the single-photon level</i>	F. A. Villa, D. Bronzi, S. Bellisai, G. Boso, A. Bahgat Shehata, C. Scarcella, A. Tosi, F. Zappa, S. Tisa, D. Durini, S. Weyers, W. Brockherde	Electro-Optical Remote Sensing, Photonic Technologies, and Applications VI, Proceedings of SPIE	Volume 8542	SPIE digital library	USA	2012	http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1393183
12	<i>SPAD Smart Pixel for Time-of-Flight and Time-Correlated Single-Photon Counting Measurements</i>	F. Villa, B. Markovic, S. Bellisai, D. Bronzi, A. Tosi, F. Zappa, S. Tisa, D. Durini, S. Weyers, U. Paschen, W. Brockherde	IEEE Photonics Journal	Volume 4, number 3	IEEEXplore	USA	2012	http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=06198279

13	<i>Indirect time-of-flight 3D ranging based on SPADs</i>	S. Bellisai, F. Villa, S. Tisa, D. Bronzi, F. Zappa	Proc. SPIE	Volume 8268	SPIE digital library	USA	2012		http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1345059
14	<i>Low-power, 20 meter 3D ranging SPAD camera based on continuous-wave indirect Time-of-Flight</i>	S. Bellisai, L. Ferretti, F. Villa, A. Ruggeri, S. Tisa, A. Tosi, F. Zappa	Proc. SPIE	Volume 8375	SPIE digital library	USA	2012		http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1354142
15	<i>Large diameter nanostructured gradient index lens</i>	Nowskielski, Buczynski, Waddie, Filipkowski, Pysz, McCarthy, Stepien, Taghizadeh	Optics Express	Volume 20	Optics info base	USA	2012	Pages: 11767-11777	http://www.opticsinfobase.org/oe/abstract.cfm?uri=oe-20-11-11767
16	<i>Nanostructured Micro-Optics</i>	Waddie, Buczynski, Filipkowski, Nowosielski, Taghizadeh	Advanced Optical Technologies	Volume 1	De Gruyter	USA	2012	Pages: 171-180	http://adsabs.harvard.edu/abs/2012AdOT....1..171T
17	<i>Advances in time-of-flight and time-correlated single-photon-counting devices</i>	D. Durini, F. Zappa	SPIE		SPIE digital library	USA	2013		http://spie.org/x93517.xml
18	<i>Fast Sensing and Quenching of CMOS SPADs for Minimal After pulsing Effects</i>	D. Bronzi, S. Tisa, F. Villa, S. Bellisai,	Photonics Technology Letters, IEEE	Volume 25	IEEEExplore	USA	2013	Pages 776-779	http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=6477083

19	<i>Low-noise low-jitter 32-pixels CMOS SPAD array for single-photon counting from 300 to 900nm</i>	C. Scarcella, A. Tosi, F. Villa , S. Tisa , F. Zappa	PubMed		NCBI	USA	2013		http://www.ncbi.nlm.nih.gov/pubmed/24387425
20	<i>Single-photon pulsed-light indirect time-of-flight 3D ranging</i>	S. Bellisai, D. Bronzi, F.A. Villa, S. Tisa, A. Tosi, F. Zappa	Optics Express	Volume 21	OSA Digital Library	USA	2013	Page 5086	http://www.opticsinfobase.org/oe/abstract.cfm?uri=oe-21-4-5086
21	<i>A High-Linearity, 17 ps Precision Time-to-Digital Converter Based on a Single-Stage Vernier Delay Loop Fine Interpolation</i>	B. Markovic, S. Tisa, F. A. Villa, A. Tosi, F. Zappa,	Circuits and Systems I: Regular Papers	Volume 60	IEEEXplore	USA	2013	Pages: 557-569	http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6409963&url=http%3A%2F%2Fieeexplore.ieee.org%2Fiel5%2F8919%2F6468162%2F06409963.pdf%3Farnumber%3D6409963
22	<i>“Improving car safety with low-light, high-speed cameras”</i>	F. Zappa, A. Tosi	SPIE Newsroom		SPIE	USA	2013		https://spie.org/x94026.xml
23	<i>“MiSPiA: microelectronic single-photon 3D imaging arrays for low-light high-speed safety and security applications”</i>	F. Zappa, A. Tosi	SPIE	Volume 8899	SPIE digital library	USA	2013		http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1767402