

Antonio Malacarne - List of Publications

JOURNALS

- 1 Malacarne A., Wang J., Zhang Y., Barman A. Das, Berrettini G., Potì L., Bogoni A., “**20 ps-Transition Time All-Optical SOA-based Flip-Flop used for Photonic 10 Gb/s Switching Operation without any Bit Loss**”, *IEEE Journal of Selected Topics in Quantum Electronics*, Vol. 14, N. 3, pp. 808 – 815, May-June 2008 (I.F. 3.458)
- 2 Malacarne A., Meloni G., Berrettini G., Sambo N., Potì L., Bogoni A., “**Optical Multicasting of 16QAM Signals in Periodically-Poled Lithium Niobate Waveguide**”, *Journal of Lightwave Technology*, Vol.31, N.11, pp.1797-1803, 2013 (I.F. 2.255)
- 3 Malacarne A. and Azana J., “**Discretely tunable comb spacing of a frequency comb by multilevel phase modulation of a periodic pulse train**”, *Opt. Express*, Vol. 21, N. 4, pp. 4139-4144, 2013. (I.F. 3.749)
- 4 Malacarne A. and Azana J., “**Analysis of amplitude fluctuation and timing jitter performance of spectrally periodic Talbot filters for optical pulse rate multiplication**”, *Opt. Express*, Vol. 19, N. 16, pp. 15339-15347, 2011. (I.F. 3.749)
- 5 Park Y., Malacarne A., Azaña J., “**Real-time ultrawide-band group delay profile monitoring through low-noise incoherent temporal interferometry**”, *Opt. Express*, Vol. 19, N. 5, pp. 3937-3944, 2011. (I.F. 3.749)
- 6 Thomas, S.; Malacarne, A.; Fresi, F.; Potì, L.; Azana, J.; , “**Fiber-Based Programmable Picosecond Optical Pulse Shaper**” *Journal of Lightwave Technology*, Vol.28, N.12, pp.1832-1843, June15, 2010 (I.F. 2.255)
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- 9 Pinna S., Malacarne A., Lazzeri E., Bogoni A., “**PPLN-Based OOK and DQPSK Optical Grooming by Amplitude and Phase Signal Multiplexing through Pump Depletion**”, *Optics Letters*, Vol. X, N. X, pp X-X, 2013 (I.F. 3.316).
- 10 Dolgaleva K., Malacarne A., Tannouri P., Fernandes L.A., Grenier J.R., Aitchison J.S., Azaña J., Morandotti R., Herman P., Marques P.V.S., “**Integrated optical temporal Fourier transformer based on a chirped Bragg grating waveguide**”, *Optics Letters*, Vol. 36, N. 22, pp. 4416-4418, 2011 (I.F. 3.316)
- 11 Park Y., Scaffardi M., Malacarne A., Potì L., Azaña J., “**Linear, self-referenced technique for single-shot and real-time full characterization of (sub-)picosecond optical pulses**”, *Optics Letters*, , Vol. 35, N. 15, pp. 2502-2504, August 1, 2010 (I.F. 3.316)
- 12 Malacarne A., Ashrafi R., Li M., LaRochelle S., Yao J.P., and Azaña J., “**Single-shot photonic time-intensity integration based on a time-spectrum convolution system**”, *Optics Letters*, Vol. 37, N. 8, pp. 1355-1357, April 15, 2012 (I.F. 3.316)
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- 14 Malacarne A., Fresi F., Klamkin J., Potì L., “**Versatile Offset-Free 16-QAM Single Dual-Drive IQ Modulator Driven by Binary Signals**”, *Optics Letters*, Vol. 37, N. 19, pp. 4149-4151, October 1, 2012 (I.F. 3.316)
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- 17 Lazzeri E., Malacarne A., Serafino G., Bogoni A., “**Optical XOR for Error Detection and Coding of QPSK I and Q Components in PPLN Waveguide**”, *IEEE Photonics Technology Letters*, Vol. 24, N. 24, pp. 2258-2261, Dec. 15, 2012 (I.F. 1.987)

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- 21 Bogoni A., Poti L., Ghelfi P., Scaffardi M., Porzi C., Ponzini F., Meloni G., Berrettini G., Malacarne A., and Prati G., "OTDM-based optical communications networks at 160 Gbit/s and beyond", *Optical Fiber Technology, Materials, Devices and Systems, Academic Press*, Vol. 13, N. 1, pp. 1-12, January, 2007 (I.F. 0.841)
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- 23 Mention in "OPTICS & PHOTONICS NEWS (OPN), SEPTEMBER 2013", pp. 38-39, of the postdeadline paper presented at "Photonics in switching 2013", reported here as the contribution n. 1 to international conferences.

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- 6 Park Y., Malacarne A., Azaña J., "Real-Time Ultra-broadband Group Delay Monitoring through Quasi-Incoherent Processing", *Optical Fiber communication/National Fiber Optic Engineers Conference, OFC/NFOEC 2011, Conference on*, Paper OWC6 (3 pages), Mar. 11, 2011
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BOOK CHAPTERS

- 1 Malacarne A., Thomas S., Fresi F., Potì L., Bogoni A. and Azaña J., “**Programmable All-Fiber Optical Pulse Shaping**”, *Frontiers in Guided Wave Optics and Optoelectronics*, ISBN 978-953-7619-82-4, pp. 674, February 2010, INTECH
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