

Raising awareness

06/11/2015: Final press release - MERMIG project, bringing silicon photonics to space, Airbus Defence and Space announcement

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12/11/2013: MERMIG project presentation poster, UK Silicon Photonics Conference, Southampton, UK

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21/3/2013: Optical Gyroscope-on-Chip for Space Applications, IHP Microelectronics announcement

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22/2/2013: R&D on Aerospace & Defense, Constelex news

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21/2/2013: MERMIG - Modular CMOS Photonic Integrated Micro-Gyroscope, DAS Photonics project announcement

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Scientific publications

G. Winzer et al, "Monolithic Photonic-Electronic QPSK Receiver for 28Gbaud," Proc. Optical Fiber Communications Conference and Exhibition, M3C.4 (2015)

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S. Simon et al, "A PEDDA Approach for Monolithic Photonic BiCMOS Technologies" Proc. SPIE Microtechnologies - Integrated Photonics: Materials, Devices, and Applications III, 9520 95200F-1 (2015)

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L. Zimmermann, "High Performance Photonic BiCMOS – Next Generation More-Than-Moore Technology for the Large Bandwidth Era," Meeting of the Electrochemical Society (2014)

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F. De Leonardis, B. Troia, R.A. Soref, V.M.N. Passaro, "Investigation of germanium Raman lasers for the mid infrared," Optics Express, vol. 23, n. 13, pp. 17237-17254, 2015.

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F. De Leonardis, B. Troia, C.E. Campanella, F. Prudenzano, V.M.N. Passaro, "Modeling of Radiation Effects in Silicon Photonic Devices," IEEE Transactions on Nuclear Science, vol. 62, n. 5, pp. 2155-2168, 2015.

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F. De Leonardis, B. Troia, V.M.N. Passaro, "Mid-IR Optical and Nonlinear Properties of Germanium on Silicon Optical Waveguides", IEEE/OSA J. Lightwave Technol., vol. 32, n. 22, pp. 3747-3757, 2014.

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B. Troia, A. Z. Khokhar, M. Nedeljkovic, J. Soler Penades, V. M. N. Passaro, and G. Z. Mashanovich, "Cascade-coupled racetrack resonators based on the Vernier effect in the mid-infrared," Optics Express, vol. 22, pp. 23990-24003 (2014)

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F. De Leonardis, B. Troia, C. E. Campanella, and V. M. N. Passaro, "Thermal and stress influence on performance of SOI racetrack resonator Raman lasers," Journal of Optics, August 2014.

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F. De Leonardis, C. E. Campanella, B. Troia, V. M. N. Passaro, "Angular velocity photonic

sensor based on Raman effect in SOI", 1st POLIBA Conference Proc., pp. 277-285, Dec. 2014.

F. De Leonardis, B. Troia and V. M. N. Passaro, "Design Rules For Raman Lasers Based on SOI Racetrack Resonators", IEEE Photonics Journal, October 2013

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