Andrea Ivano Melloni

List of Publications by Year in descending order

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174 papers 4,937 citations

33 h-index 95266 68 g-index

177 all docs

177 docs citations

177 times ranked

4084 citing authors

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| 1 | Room-temperature deposition of ZnS antireflection coatings for MIR-LWIR applications. Optical Materials Express, 2022, 12, 272. | 3.0 | 5 |
| 2 | High-sensitivity transparent photoconductors in voltage-controlled silicon waveguides. Optics Letters, 2022, 47, 1327. | 3.3 | 4 |
| 3 | Differential Impedance Sensing platform for high selectivity antibody detection down to few counts: A case study on Dengue Virus. Biosensors and Bioelectronics, 2022, 202, 113996. | 10.1 | 9 |
| 4 | Amorphous-silicon visible-light detector integrated on silicon nitride waveguides. Optics Letters, 2022, 47, 2598. | 3.3 | 8 |
| 5 | Active Opto-Magnetic Biosensing with Silicon Microring Resonators. Sensors, 2022, 22, 3292. | 3.8 | 1 |
| 6 | Separating arbitrary free-space beams with an integrated photonic processor. Light: Science and Applications, 2022, 11 , . | 16.6 | 26 |
| 7 | Guest Editorial JQE Special Virtual Issue Dedicated to the 22nd European Conference on Integrated Optics (ECIO). IEEE Journal of Quantum Electronics, 2021, 57, 1-3. | 1.9 | O |
| 8 | Ditheringâ€based realâ€time control of cascaded silicon photonic devices by means of nonâ€invasive detectors. IET Optoelectronics, 2021, 15, 111-120. | 3.3 | 13 |
| 9 | Establishing free-space optical communication channels through a reconfigurable silicon mesh. , 2021, , . | | O |
| 10 | Reconfigurable FSR-free microring resonator filter with wide hitless tunability., 2021,,. | | 1 |
| 11 | Polarization-transparent silicon photonic add-drop multiplexer with wideband hitless tuneability. Nature Communications, 2021, 12, 4324. | 12.8 | 28 |
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| 15 | Electrical conductance of silicon photonic waveguides. Optics Letters, 2021, 46, 17. | 3.3 | 4 |
| 16 | Active Compensation of Nonlinear Distortions in Silicon Microring Resonator Filters., 2021,,. | | 0 |
| 17 | Active Compensation of Nonlinear Effects in Silicon Photonic Microring Filters., 2021,,. | | O |
| 18 | Automated Cloning and Lookup Table Generation for Reconfigurable Photonic Integrated Filters. , 2021, , . | | 0 |

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| 19 | Automated Lookup Table Generation and Cloning of Tuneable Photonic Integrated Filters. , 2021, , . | | O |
| 20 | Multimode Free Space Optical Link Enabled by SiP Integrated Meshes. , 2021, , . | | 0 |
| 21 | Polarization Transparent Add-Drop Multiplexer with Hitless Tuneability. , 2021, , . | | 0 |
| 22 | Compact amorphous-silicon visible-light monitor integrated in silicon nitride waveguides. , 2021, , . | | 1 |
| 23 | Self-Configuring Silicon-Photonic Receiver for Multimode Free Space Channels. , 2021, , . | | 1 |
| 24 | Self-Stabilized Silicon Mach-Zehnder Interferometers by Integrated CMOS Controller. , 2021, , . | | 1 |
| 25 | Silicon Oxycarbide Platform for Integrated Photonics. Journal of Lightwave Technology, 2020, 38, 784-791. | 4.6 | 5 |
| 26 | Programmable photonic circuits. Nature, 2020, 586, 207-216. | 27.8 | 598 |
| 27 | WDM-Based Silicon Photonic Multi-Socket Interconnect Architecture With Automated Wavelength and Thermal Drift Compensation. Journal of Lightwave Technology, 2020, 38, 6000-6006. | 4.6 | 15 |
| 28 | Control and Calibration Recipes for Photonic Integrated Circuits. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10. | 2.9 | 34 |
| 29 | Efficient Variability Analysis of Photonic Circuits by Stochastic Parametric Building Blocks. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-8. | 2.9 | 7 |
| 30 | FSR-free filter with hitless tunability across C+L telecom band. , 2020, , . | | 4 |
| 31 | Automatic Tuning of Silicon Photonics Microring Filter Array for Hitless Reconfigurable Add–Drop. Journal of Lightwave Technology, 2019, 37, 3939-3947. | 4.6 | 22 |
| 32 | Uncertainty aware design of photonic integrated circuits in presence of correlated manufacturing uncertainties. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 33 | Prediction of thermal variation in InP and GaAs material for photonic integrated waveguides. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 34 | Manipulating Free-space Optical Beams with a Silicon Photonic Mesh., 2019,,. | | 5 |
| 35 | Canceling Thermal Cross-Talk Effects in Photonic Integrated Circuits. Journal of Lightwave Technology, 2019, 37, 1325-1332. | 4.6 | 75 |
| 36 | Automatic Tuning and Locking of Hitless Add-Drop Filters. , 2019, , . | | 0 |

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| 37 | Efficient thermal cross-talk effect cancelation in photonic integrated circuits. , 2019, , . | | O |
| 38 | Performance robustness analysis in machine-assisted design of photonic devices., 2019,,. | | 1 |
| 39 | Wideband Integrated Optical Delay Line Based on a Continuously Tunable Mach–Zehnder Interferometer. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-8. | 2.9 | 24 |
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| 41 | Wideband continuously tunable integrated delay line based on cascaded Mach-Zehnder. , 2018, , . | | 1 |
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| 43 | Stochastic process design kits for photonic circuits based on polynomial chaos augmented macro-modelling. Optics Express, 2018, 26, 5894. | 3.4 | 18 |
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| 66 | Waveguiding Light into Silicon Oxycarbide. Applied Sciences (Switzerland), 2017, 7, 561. | 2.5 | 13 |
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