

# Odysseas TSILIPAKOS

## Publications (October 2022)

### A. Peer-reviewed journals

- [J1] **O. Tsilipakos**, T. V. Yioultsis, and E. E. Kriezis, “Theoretical analysis of thermally tunable microring resonator filters made of dielectric-loaded plasmonic waveguides,” *J. Appl. Phys.*, vol. 106, 093108, **2009**. DOI: 10.1063/1.3256139 [\[link\]](#)
- [J2] **O. Tsilipakos**, and E. E. Kriezis, “Microdisk resonator filters made of dielectric-loaded plasmonic waveguides,” *Opt. Commun.*, vol. 283, no. 15, pp. 3095-3098, **2010**. DOI: 10.1016/j.optcom.2010.04.016 [\[link\]](#)
- [J3] **O. Tsilipakos**, A. Ptilakis, A. C. Tasolamprou, T. V. Yioultsis, and E. E. Kriezis, “Computational techniques for the analysis and design of dielectric-loaded plasmonic circuitry,” *Opt. Quant. Electron.*, vol. 42, no. 8, pp. 541-555, **2011**. DOI: 10.1007/s11082-011-9440-4 [\[link\]](#)
- [J4] **O. Tsilipakos**, E. E. Kriezis, and S. I. Bozhevolnyi, “Thermo-optic microring resonator switching elements made of dielectric-loaded plasmonic waveguides,” *J. Appl. Phys.*, vol. 109, 073111, **2011**. DOI: 10.1063/1.3564949 [\[link\]](#)
- [J5] **O. Tsilipakos**, E. E. Kriezis, and T. V. Yioultsis, “Boundary condition for the efficient excitation and absorption of hybrid waveguide modes in finite element formulations,” *Microw. Opt. Technol. Lett.*, vol. 53, no. 11, pp. 2626-2631, **2011**. DOI: 10.1002/mop.26364 [\[link\]](#)
- [J6] S. Papaioannou, K. Vyrsoinos, **O. Tsilipakos**, A. Ptilakis, K. Hassan, J.-C. Weeber, L. Markey, A. Dereux, S. I. Bozhevolnyi, A. Miliou, E. E. Kriezis, and N. Pleros, “A 320Gb/s-throughput capable 2x2 silicon-plasmonic router architecture for optical interconnects,” *J. Lightw. Technol.*, vol. 29, no. 21, pp. 3185-3195, **2011**. DOI: 10.1109/JLT.2011.2167315 [\[link\]](#)
- [J7] K. Hassan, J.-C. Weeber, L. Markey, A. Dereux, A. Ptilakis, **O. Tsilipakos**, and E. E. Kriezis, “Thermo-optic plasmo-photonic mode interference switches based on dielectric loaded waveguides,” *Appl. Phys. Lett.*, vol. 99, 241110, **2011**. DOI: 10.1063/1.3670500 [\[link\]](#)
- [J8] G. Giannoulis, D. Kalavrouziotis, D. Apostolopoulos, S. Papaioannou, A. Kumar, S. I. Bozhevolnyi, L. Markey, K. Hassan, J.-C. Weeber, A. Dereux, M. Baus, M. Karl, T. Tekin, **O. Tsilipakos**, A. Ptilakis, E. E. Kriezis, K. Vyrsoinos, H. Avramopoulos, and N. Pleros, “Data transmission and thermo-optic tuning performance of dielectric-loaded plasmonic structures hetero-integrated on a silicon chip,” *IEEE Photon. Technol. Lett.*, vol. 24, no. 5, pp. 374-376, **2012**. DOI: 10.1109/LPT.2011.2177964 [\[link\]](#)
- [J9] D. Kalavrouziotis, S. Papaioannou, G. Giannoulis, D. Apostolopoulos, K. Hassan, L. Markey, J.-C. Weeber, A. Dereux, A. Kumar, S. I. Bozhevolnyi, M. Baus, M. Karl, T. Tekin, **O. Tsilipakos**, A. Ptilakis, E. E. Kriezis, H. Avramopoulos, K. Vyrsoinos, and N. Pleros, “0.48Tb/s (12x40Gb/s) WDM transmission and high-quality thermo-optic switching in dielectric loaded plasmonics,” *Opt. Express*, vol. 20, no. 7, pp. 7655-7662, **2012**. DOI: 10.1364/OE.20.007655 [\[link\]](#)
- [J10] **O. Tsilipakos**, A. Ptilakis, T. V. Yioultsis, S. Papaioannou, K. Vyrsoinos, D. Kalavrouziotis, G. Giannoulis, D. Apostolopoulos, H. Avramopoulos, T. Tekin, M. Baus, M. Karl, K. Hassan, J.-C. Weeber, L. Markey, A. Dereux, A. Kumar, S. I. Bozhevolnyi, N. Pleros, and E. E. Kriezis, “Interfacing dielectric-loaded plasmonic and silicon photonic waveguides: Theoretical analysis and experimental demonstration,” *IEEE J. Quant. Electron.*, vol. 48, no. 5, pp. 678-687, **2012**. DOI: 10.1109/JQE.2012.2189757, [\[link\]](#)
- [J11] **O. Tsilipakos**, D. C. Zografopoulos and E. E. Kriezis, “Quasi-soliton pulse-train propagation in dispersion-managed silicon rib waveguides,” *IEEE Photon. Technol. Lett.*, vol. 25, no. 8, pp. 724-727, **2013**. DOI: 10.1109/LPT.2013.2248355 [\[link\]](#)

- [J12] D. A. Ketzaki, **O. Tsilipakos**, T. V. Yioultsis, and E. E. Kriezis, “Electromagnetically induced transparency with hybrid silicon-plasmonic traveling-wave resonators,” *J. Appl. Phys.*, vol. 114, 113107, **2013**. DOI: 10.1063/1.4821796 [\[link\]](#)
- [J13] A. Ptilakis, **O. Tsilipakos**, and E. E. Kriezis, “Optimizing Silicon-Plasmonic Waveguides for  $\chi^{(3)}$  nonlinear applications,” *Appl. Phys. A*, vol. 115, no. 2, pp. 475-479, **2014**. DOI: 10.1007/s00339-013-8055-y [\[link\]](#)
- [J14] **O. Tsilipakos**, and E. E. Kriezis, "Optical bistability with hybrid silicon-plasmonic disk resonators," *J. Opt. Soc. Am. B*, vol. 31, no. 7, pp. 1698-1705, **2014**. DOI: 10.1364/JOSAB.31.001698 [\[link\]](#)
- [J15] T. Christopoulos, G. Sinatkas, **O. Tsilipakos\***, and E. E. Kriezis, “Bistable action with hybrid plasmonic Bragg-grating resonators.” *Opt. Quantum Electron.* 48 (2), 128, **2016**. DOI: 10.1007/s11082-016-0377-5, [\[link\]](#) \*corresponding author
- [J16] **O. Tsilipakos**, T. Christopoulos, and E. E. Kriezis, “Long-range hybrid plasmonic disk resonators for mW bistability and self-pulsation,” *J. Lightw. Technol.* 34 (4), pp. 1333-1343, **2016**. DOI: 10.1109/JLT.2015.2511447 [\[link\]](#)
- [J17] T. Christopoulos\*, **O. Tsilipakos\***, N. Grivas, and E. E. Kriezis, “Coupled-mode-theory framework for nonlinear resonators comprising graphene,” *Phys. Rev. E* 94, 062219, **2016**. DOI: 10.1103/PhysRevE.94.062219 [\[link\]](#) \*corresponding author
- [J18] A. C. Tasolamprou, **O. Tsilipakos**, M. Kafesaki, C. M. Soukoulis and E. N. Economou, “Toroidal eigenmodes in all-dielectric metamolecules,” *Phys. Rev. B* 94, 205433, **2016**. DOI: 10.1103/PhysRevB.94.205433 [\[link\]](#)
- [J19] T. Christopoulos, **O. Tsilipakos**, and E. E. Kriezis, “Low-power bistability in graphene-comprising 3D photonic resonant circuits,” *J. Appl. Phys.* 122, 233101, **2017**. DOI: 10.1063/1.5005610 [\[link\]](#)
- [J20] **O. Tsilipakos**, T. Koschny, C. M. Soukoulis, “Antimatched Electromagnetic Metasurfaces for Broadband Arbitrary Phase Manipulation in Reflection,” *ACS Photonics* 5(3), pp. 1101-1107, **2018**. DOI: 10.1021/acsp Photonics.7b01415 [\[link\]](#)
- [J21] **O. Tsilipakos**, A. C. Tasolamprou, Th. Koschny, M. Kafesaki, E. N. Economou and C. M. Soukoulis, “Pairing toroidal and magnetic dipole resonances in elliptic dielectric rod metasurfaces for reconfigurable wavefront manipulation in reflection,” *Adv. Opt. Mater.* 6, 1800633, **2018**. DOI: 10.1002/adom.201800633 [\[link\]](#)
- [J22] T. Christopoulos, **O. Tsilipakos**, G. Sinatkas and E. E. Kriezis, “Degenerate four-wave mixing in nonlinear resonators comprising 2D materials: a coupled-mode theory approach,” *Phys. Rev. B* 98, 235421, **2018**. DOI: 10.1103/PhysRevB.98.235421 [\[link\]](#)
- [J23] G. Perrakis, **O. Tsilipakos\***, G. Kenanakis, M. Kafesaki, C. M. Soukoulis, E. N. Economou, “Perfect optical absorption with nanostructured metal films: design and experimental demonstration,” *Opt. Express* 27(5), pp. 6842-6850, **2019**. DOI: 10.1364/OE.27.006842 [\[link\]](#) \*corresponding author
- [J24] F. Liu\*, **O. Tsilipakos\***, A. Ptilakis, A. C. Tasolamprou, M. S. Mirmoosa, N. V. Kantartzis, D.-H. Kwon, J. Georgiou, K. Kossifos, M. A. Antoniadis, M. Kafesaki, C. M. Soukoulis, S. A. Tretyakov, “Intelligent Metasurfaces with Continuously Tunable Local Surface Impedance for Multiple Reconfigurable Functions” *Phys. Rev. Appl.* 11, 044024, **2019**. DOI: 10.1103/PhysRevApplied.11.044024 [\[link\]](#) \*equal contribution, corresponding author [\[Editor’s Pick\]](#)
- [J25] T. Christopoulos\*, **O. Tsilipakos\***, G. Sinatkas and E. E. Kriezis, “On the calculation of Quality Factor in contemporary photonic resonant structures,” *Opt. Express* 27(10), pp. 14505-14522, **2019**. DOI: 10.1364/OE.27.014505 [\[link\]](#) \*corresponding author
- [J26] E. Takou, A. C. Tasolamprou, **O. Tsilipakos**, and E. N. Economou, “Dynamic Anapole in Metasurfaces made of Sculptured Cylinders,” *Phys. Rev. B* 100, 085431, **2019**. DOI: 10.1103/PhysRevB.100.085431 [\[link\]](#)
- [J27] G. Sinatkas, T. Christopoulos, **O. Tsilipakos**, and E. E. Kriezis, “Comparative study of transparent conducting oxide and graphene silicon-photonic modulators,” *Phys. Rev. Appl.* 12, 064023, **2019**. DOI: 10.1103/PhysRevApplied.12.064023 [\[link\]](#)

- [J28] A. C. Tasolamprou, A. Ptilakis, S. Abadal, **O. Tsilipakos**, X. Timoneda, H. Taghvaei, M. S. Mirmoosa, F. Liu, C. Liaskos, A. Tsiolaridou, N. V. Kantartzis, D. Manassis, J. Georgiou, A. Cabellos-Aparicio, E. Alarcón, A. Pitsillides, I. F. Akyildiz, S. A. Tretyakov, E. N. Economou, M. Kafesaki, and C. M. Soukoulis, “Exploration of Intercell Wireless Millimeter-Wave Communication in the Landscape of Intelligent Metasurfaces,” *IEEE Access*, vol. 7, pp. 122931-122948, **2019**. DOI: 10.1109/ACCESS.2019.2933355 [\[link\]](#)
- [J29] H. Taghvaei, S. Abadal, A. Ptilakis, **O. Tsilipakos**, A. Tasolamprou, C. Liaskos, M. Kafesaki, N. V. Kantartzis, A. Cabellos-Aparicio, and E. Alarcon, “Scalability Analysis of Programmable Metasurfaces for Beam Steering,” *IEEE Access*, vol. 8, pp. 105320-105334, **2020**. DOI: 10.1109/ACCESS.2020.3000424 [\[link\]](#)
- [J30] **O. Tsilipakos**, A. C. Tasolamprou, A. Ptilakis, F. Liu, X. Wang, M. S. Mirmoosa, D. C. Tzarouchis, S. Abadal, H. Taghvaei, C. Liaskos, A. Tsiolaridou, J. Georgiou, A. Cabellos-Aparicio, E. Alarcón, S. Ioannidis, A. Pitsillides, I. F. Akyildiz, N. V. Kantartzis, E. N. Economou, C. M. Soukoulis, Maria Kafesaki, S. Tretyakov, “Toward Intelligent Metasurfaces: The Progress from Globally-Tunable Metasurfaces to Software-Defined Metasurfaces with an Embedded Network of Controllers,” *Advanced Optical Materials*, 202000783, **2020**. DOI: 10.1002/adom.202000783. [\[link\]](#)
- [J31] T. Christopoulos, **O. Tsilipakos**, E. E. Kriezis, “Degenerate four-wave mixing in THz standing-wave graphene resonators,” *J. Opt. Soc. Am. B*, vol. 37, pp. 2626-2636, **2020**. DOI: 10.1364/JOSAB.395461 [\[link\]](#)
- [J32] **O. Tsilipakos**, M. Kafesaki, E. N. Economou, C. M. Soukoulis, T. Koschny, “Squeezing a prism into a surface: Emulating bulk optics with achromatic metasurfaces,” *Advanced Optical Materials* 8(23), 2000942, **2020**. DOI: 10.1002/adom.202000942 [\[link\]](#)
- [J33] A. Ptilakis\*, **O. Tsilipakos\***, F. Liu\*, K. M. Kossifos, A. C. Tasolamprou, D.-H. Kwon, M. S. Mirmoosa, D. Manassis, N. V. Kantartzis, C. Liaskos, M. A. Antoniadis, J. Georgiou, C. M. Soukoulis, M. Kafesaki, and S. A. Tretyakov, “A Multi-Functional Reconfigurable Metasurface: Electromagnetic Design Accounting for Fabrication Aspects,” *IEEE Transactions on Antennas and Propagation* 69(3), pp. 1440-1454, **2020**, DOI: 10.1109/TAP.2020.3016479 [\[link\]](#) \*equal contribution
- [J34] K. M. Kossifos, L. Petrou, G. Varnava, A. Ptilakis, **O. Tsilipakos**, F. Liu, P. Karousios, A. Tasolamprou, M. Seckel, D. Manassis, N. V. Kantartzis, D.-H. Kwon, M. A. Antoniadis, and J. Georgiou, “Toward the Realization of Programmable Metasurface Absorber Enabled by Custom Integrated Circuit Technology,” *IEEE Access*, vol. 8, pp. 92986-92998, **2020**. DOI: 10.1109/ACCESS.2020.2994469 [\[link\]](#)
- [J35] **O. Tsilipakos**, A. Xomalis, G. Kenanakis, M. Farsari, C. M. Soukoulis, E. N. Economou, M. Kafesaki, “Split-cube-resonator-based metamaterials for polarization-selective asymmetric perfect absorption,” *Scientific Reports* 10, 17653, **2020**. DOI: 10.1038/s41598-020-74221-7 [\[link\]](#)
- [J36] E. Takou, A. C. Tasolamprou, **O. Tsilipakos**, Z. Viskadourakis, M. Kafesaki, G. Kenanakis, E. N. Economou, “Anapole dissipation loss resilience in thermally tunable dielectric water-based metasurfaces,” *Physical Review Applied* 15, 014043, **2021**. DOI: 10.1103/PhysRevApplied.15.014043 [\[link\]](#)
- [J37] T. Christopoulos\*, **O. Tsilipakos\***, E. E. Kriezis, “Nonlinear Perturbation Theory for Leaky Cavities,” *Optics Letters* 45(23), pp. 6442-6445, **2020**. DOI: 10.1364/OL.408336 [\[link\]](#) \*corresponding author
- [J38] **O. Tsilipakos**, L. Zhang, M. Kafesaki, C. M. Soukoulis, T. Koschny, “Experimental Implementation of Achromatic Multiresonant Metasurface for Broadband Pulse Delay,” *ACS Photonics*, vol. 8, no. 6, pp. 1649–1655, **2021**. DOI: 10.1021/acsp Photonics.1c00025 [\[link\]](#)
- [J39] V. Melissinaki, **O. Tsilipakos**, M. Kafesaki, M. Farsari, S. Pissadakis, “Micro-ring resonator devices prototyped on optical fiber tapers by multi-photon lithography,” *IEEE Journal of Selected Topics in Quantum Electronics*, vol. 27, no. 6, Art no. 5900107, **2021**. DOI: 10.1109/JSTQE.2021.3062716 [\[link\]](#)

- [J40] N. Korakas, D. Vurro, **O. Tsilipakos**, T. Vasileiadis, B. Graczykowski, A. Cucinotta, S. Selleri, G. Fytas, S. Iannota, S. Pissadakis, “Photo-elasticity of silk fibroin harnessing whispering gallery modes,” *submitted*.
- [J41] G. Sinatkas, T. Christopoulos, **O. Tsilipakos**, E. E. Kriezis, “Electro-optic modulation in integrated photonics,” *Journal of Applied Physics* 130, 010901, **2021**. DOI: 10.1063/5.0048712 [[link](#)] [[Editor’s Pick](#)]
- [J42] A. Xomalis\*, **O. Tsilipakos\***, M. Manousidaki, O. P. d G. Busquets G. Kenanakis, M. Farsari, C. M. Soukoulis, E. N. Economou, M. Kafesaki, “Enhanced refractive index sensing with direction-selective three-dimensional infrared metamaterials,” *ACS Appl. Opt. Mater.*, early access, **2022**. DOI: 10.1021/acsaom.2c00001 [[link](#)] \*equal contribution
- [J43] K. Baskourelou, **O. Tsilipakos**, T. Stefański, S. F. Galata, E. N. Economou, M. Kafesaki, K. L. Tsakmakidis, “Topological Microscopy and Near-Perfect Optical Extraordinary Transmission,” *Physical Review Research* 4, L032011, **2022**. DOI: 10.1103/PhysRevResearch.4.L032011 [[link](#)]
- [J44] Z. Viskadourakis, E. Tamiolakis, **O. Tsilipakos**, et al., “3D-Printed Metasurface Units for Potential Energy Harvesting Applications at the 2.4 GHz Frequency Band,” *Crystals*, vol. 11, no. 9, 1089, **2021**. DOI: 10.3390/cryst11091089 [[link](#)]
- [J45] H. Taghvaei, A. Pitolakis, **O. Tsilipakos**, A. Tasolamprou, N. V. Kantartzis, M. Kafesaki, A. Cabellos-Aparicio, E. Alarcon and S. Abadal, “Multi-Wideband Terahertz Communications via Tunable Graphene-based Metasurfaces in 6G Networks,” *IEEE Vehicular Technology Magazine*, vol. 17, no. 2, pp. 16-25, **2022**. DOI: 10.1109/MVT.2022.3155905 [[link](#)]
- [J46] **O. Tsilipakos**, L. Maiolo, F. Maita, R. Beccherelli, M. Kafesaki, E. E. Kriezis, T. V. Yioultis, and D. C. Zografopoulos, “Experimental demonstration of ultrathin broken-symmetry metasurfaces with controllably sharp resonant response,” *Applied Physics Letters*, vol. 119, no. 23, 231601, **2021**. DOI: <https://doi.org/10.1063/5.0073803> [[link](#)]
- [J47] A. Theodosi, **O. Tsilipakos\***, C. M. Soukoulis, E. N. Economou, M. Kafesaki, “2D-patterned Graphene Metasurfaces for Efficient Third Harmonic Generation at THz Frequencies,” *Optics Express* 30(1), 460-472, **2022**. DOI: 10.1364/OE.445751 [[link](#)] \*corresponding author
- [J48] G. Nousios, T. Christopoulos, **O. Tsilipakos** and E. Kriezis, “Dynamic Routing through Saturable Absorption in Graphene Photonic Resonators: Impact of Carrier Diffusion and Finite Relaxation Time,” *Journal of Applied Physics* 131(5), 053104, **2022**. DOI: 10.1063/5.0076959. [[link](#)]
- [J49] A. Pitolakis\*, M. Seckel, A. C. Tasolamprou, F. Liu, A. Deltisidis, D. Manassis, A. Ostmann, N. V. Kantartzis, C. Liaskos, C. M. Soukoulis, S. A. Tretyakov, M. Kafesaki, and **O. Tsilipakos\***, “Multi-functional metasurface architecture for amplitude, polarization and wavefront control,” *Phys. Rev. Applied* 17, 064060, **2022**. DOI: 10.1103/PhysRevApplied.17.064060 [[link](#)]. \*corresponding author
- [J50] N. Korakas, V. Tsafas, **O. Tsilipakos**, I. Konidakis, B. Moog, C. Craig, G. Filippidis, D. Hewak, M. N. Zervas and S. Pissadakis, “Whispering gallery mode resonance in thermally poled borosilicate glass hetero-fibers,” *J. Lightw. Technol.* 40(14), pp. 4786-4794, **2022**. DOI: 10.1109/JLT.2022.3164980 [[link](#)]

## **B. Book Chapters**

- [B1] S. Papaioannou, K. Vyrsoinos, G. Giannoulis, D. Apostolopoulos, H. Avramopoulos, F. Zacharatos, K. Hassan, J.-C. Weeber, L. Markey, A. Dereux, A. Kumar, S. I. Bozhevolnyi, A. Suna, O. Gili de Villasante, T. Tekin, M. Waldow, **O. Tsilipakos**, A. Pitolakis, E. E. Kriezis, and N. Pleros, *Merging Plasmonics and Silicon Photonics Towards Greener and Faster “Network-on-Chip” Solutions for Data Centers and High-Performance Computing Systems*, in *Plasmonics - Principles and Applications*, Dr. Ki Young Kim (Ed.), ISBN: 978-953-51-0797-2, InTech **2012**. DOI: 10.5772/51853 [[link](#)]

- [B2] A. C. Tasolamprou, **O. Tsilipakos**, A. Basharin, M. Kafesaki, C. M. Soukoulis and E. N. Economou, *Toroidal multipoles in metamaterials*, in *Electromagnetic Analysis: From Electrostatics To Photonics*, Igor Tsukerman (Ed.), World Scientific **2020**. ISBN:978-981-3270-16-9. DOI: 10.1142/9789813270343\_0007 [\[link\]](#)
- [B3] S. Abadal, X. Timoneda, J. Sole-Pareta, E. Alarcon, A. Cabellos-Aparicio, A. Tasolamprou, **O. Tsilipakos**, C. Liaskos, M. Kafesaki, E. N. Economou, C. Soukoulis, A. Ptilakis, N. V. Kantartzis, M. Sajjad Mirmoosa, F. Liu, S. Tretyakov, *Nanoscale Channel Modeling in Computing Packages*, in *Nanoscale Networking and Communications Handbook*, John R. Vacca (Ed.), CRC Press **2019**. ISBN: 9781498727310. DOI: 10.1201/9780429163043 [\[link\]](#)
- [B4] F. Liu, Xuchen Wang, M. Sajjad Mirmoosa, S. Tretyakov, **O. Tsilipakos**, A. C. Tasolamprou, M. Kafesaki, A. Ptilakis, N. V. Kantartzis, D.-H. Kwon, chapter *Electromagnetic specifications and prototype designs of Software Defined Surfaces*, in book *Internet of Materials* (ed. Christos Liaskos), CRC Press **2020**. in publication DOI: 10.1201/9781003043805 [\[link\]](#)
- [B5] H. Taghvaei, S. Abadal, E. Alarcon, A. Cabellos-Aparicio, T. Saeed, A. Pitsillides, **O. Tsilipakos**, C. Liaskos, A. Tasolamprou, M. Kafesaki, A. Ptilakis, N. Kantartzis, V. Soteriou, M. Lestas, chapter *The Scaling Laws of HyperSurfaces*, in book *Internet of Materials* (ed. Christos Liaskos), CRC Press **2020**. DOI: 10.1201/9781003043805 [\[link\]](#)

### **C. Conference Proceedings**

- [C1] **O. Tsilipakos**, T. V. Yioultsis, and E. E. Kriezis, "Theoretical analysis of microring resonator filters made of plasmonic waveguides," *ICTON 2009: 11<sup>th</sup> International Conference on Transparent Optical Networks*, art. no. 5185251, Azores, Portugal, 28 June-2 July **2009**. DOI: 10.1109/ICTON.2009.5185251 [\[link\]](#) [\[invited\]](#)
- [C2] N. Pleros, K. Vyrsoinos, S. Papaioannou, D. Fitsios, **O. Tsilipakos**, A. Ptilakis, E. E. Kriezis, A. Miliou, T. Tekin, M. Baus, M. Karl, D. Kalavrouziotis, G. Giannoulis, H. Avramopoulos, N. Djellali, J.-C. Weeber, L. Markey, A. Dereux, J. Gosciniak, and S. I. Bozhevolnyi, "Tb/s switching fabrics for optical interconnects using heterointegration of plasmonics and silicon photonics: The FP7 PLATON approach," *IEEE Photonics Society 23<sup>rd</sup> Annual Meeting* (Denver, US), 7-11 Nov. **2010**. DOI: 10.1109/PHOTONICS.2010.5698810 [\[link\]](#) [\[invited\]](#)
- [C3] A. Dereux, K. Hassan, J.-C. Weeber, N. Djellali, S. I. Bozhevolnyi, **O. Tsilipakos**, A. Ptilakis, E. E. Kriezis, S. Papaioannou, K. Vyrsoinos, N. Pleros, T. Tekin, M. Baus, D. Kalavrouziotis, G. Giannoulis, and H. Avramopoulos, "Parametric study of dielectric loaded surface plasmon polariton add-drop filters for hybrid silicon/plasmonic optical circuitry," in *Proceedings of SPIE Photonics West*, 7945-40, (San Francisco, US), 24 January **2011**. DOI: 10.1117/12.873165 [\[link\]](#)
- [C4] D. Kalavrouziotis, G. Giannoulis, D. Apostolopoulos, S. Papaioannou, A. Kumar, S. I. Bozhevolnyi, L. Markey, K. Hassan, J.-C. Weeber, A. Dereux, M. Baus, M. Karl, T. Tekin, **O. Tsilipakos**, A. Ptilakis, E. E. Kriezis, H. Avramopoulos, K. Vyrsoinos, and N. Pleros, "10 Gb/s transmission and thermo-Optic resonance tuning in silicon-plasmonic waveguide platform," *ECOC 2011: 37<sup>th</sup> European Conference on Optical Communications*, (Geneva, CH), 18-22 September **2011**. DOI: ECOC.2011.We.10.P1.27 [\[link\]](#)
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