

Publication List (December 2021)

Odysseas Tsilipakos

- I have co-authored 48 journal papers (5 under review) and 59 conference contributions, as well as 5 book chapters.
- As of December 2021, I have received a total of ~1185 citations to my work and an h-index of 20 [Google Scholar](#).
- A full publication list follows below.

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Journal Papers

[1] **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 [\[link\]](#)

[2] **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 [\[link\]](#)

[3] **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 [\[link\]](#)

[4] **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 [\[link\]](#)

[5] **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 [\[link\]](#)

[6] S. Papaioannou, K. Vyrsoinos, **O. Tsilipakos**, A. Ptilakis, K. Hassan, J.-C. Weeber, L. Markey, A. Dereux, S. I. Bozhevonyi, 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 [\[link\]](#)

[7] 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 [\[link\]](#)

- [8] 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 [\[link\]](#)
- [9] 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 [\[link\]](#)
- [10] **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, [\[link\]](#)
- [11] **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 [\[link\]](#)
- [12] 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 [\[link\]](#)
- [13] 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 [\[link\]](#)
- [14] **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 [\[link\]](#)
- [15] 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, [\[link\]](#)
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- [16] **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 [\[link\]](#)
- [17] 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
- [18] 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 [\[link\]](#)
- [19] 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 [\[link\]](#)
- [20] **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 [\[link\]](#)

- [21] **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 [\[link\]](#)
- [22] 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 [\[link\]](#)
- [23] 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
- [24] 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
- [25] 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
- [26] 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 [\[link\]](#)
- [27] 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 [\[link\]](#)
- [28] A. C. Tasolamprou, A. Ptilakis, S. Abadal, **O. Tsilipakos**, X. Timoneda, H. Taghvaei, M. S. Mirmoosa, F. Liu, C. Liaskos, A. Tsioliariidou, 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 [\[link\]](#)
- [29] H. Taghvaei, S. Abadal, A. Ptilakis, **O. Tsilipakos**, A. Tasolamprou, C. Liaskos, M. Kafesaki, N. V. Kantartzis, A. Cabellos-Aparicio, and E. Alarcón, "Scalability Analysis of Programmable Metasurfaces for Beam Steering," *IEEE Access*, vol. 8, pp. 105320-105334, 2020. DOI: 10.1109/ACCESS.2020.3000424 [\[link\]](#)
- [30] **O. Tsilipakos**, A. C. Tasolamprou, A. Ptilakis, F. Liu, X. Wang, M. S. Mirmoosa, D. C. Tzarouchis, S. Abadal, H. Taghvaei, C. Liaskos, A. Tsioliariidou, 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. [\[link\]](#)
- [31] 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 [\[link\]](#)
- [32] **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 [\[link\]](#)

- [33] 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
- [34] 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 [\[link\]](#)
- [35] **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 [\[link\]](#)
- [36] 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 [\[link\]](#)
- [37] 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
- [38] **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 [\[link\]](#)
- [39] 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 [\[link\]](#)
- [40] N. Korakas, D. Vurro, **O. Tsilipakos**, S. Iannota, S. Pissadakis, "A study of silk fibroin photo-elasticity in whispering gallery modes cavities," *submitted*.
- [41] 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]
- [42] A. Xomalis*, **O. Tsilipakos***, G. Kenanakis, M. Farsari, C. M. Soukoulis, E. N. Economou, M. Kafesaki, "Enhanced refractive index sensing with direction-selective three-dimensional infrared metamaterials," *submitted*. *equal contribution
- [43] K. Baskourellos, **O. Tsilipakos**, T. Stefański, S. F. Galata, E. N. Economou, M. Kafesaki, K. L. Tsakmakidis, "Topological Microscopy and Near-Perfect Optical Extraordinary Transmission," *submitted*.
- [44] 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 [\[link\]](#)
- [45] H. Taghvaei, A. Ptilakis, **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," *submitted*

- [46] **O. Tsilipakos**, L. Maiolo, F. Maita, R. Beccherelli, M. Kafesaki, E. E. Kriezis, T. V. Yioultsis, 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> [\[link\]](#)
- [47] 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*, accepted. DOI: 10.1364/OE.445751 [\[link\]](#) *corresponding author
- [48] 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," submitted.

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, 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. Pitolakis, 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, 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. Pitolakis, 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. 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. Pitolakis, N. Kantartzis, V. Soteriou, M. Lestas, chapter *The Scaling Laws of HyperSurfaces*, in book *Internet of Materials* (ed. Christos Liaskos), CRC Press. DOI: 10.1201/9781003043805 [\[link\]](#)

 International Conference Proceedings with DOI

- [C1] **O. Tsilipakos**, T. V. Yioultsis, and E. E. Kriezis, "Theoretical analysis of microring resonator filters made of plasmonic waveguides," *ICTON 2009: 11th International Conference on Transparent Optical Networks*, art. no. 5185251, Azores, Portugal, 28 June-2 July 2009. DOI: 10.1109/ICTON.2009.5185251, [\[link\]](#) [invited]
- [C3] N. Pleros, K. Vyrsoinos, S. Papaioannou, D. Fitsios, **O. Tsilipakos**, A. Pitolakis, 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 23rd Annual Meeting (Denver, US)*, 7-11 Nov. 2010. DOI: 10.1109/PHOTONICS.2010.5698810, [\[link\]](#) [invited]
- [C4] A. Dereux, K. Hassan, J.-C. Weeber, N. Djellali, S. I. Bozhevolnyi, **O. Tsilipakos**, A. Pitolakis, 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, [\[link\]](#)
- [C7] 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. Pitolakis, 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: 37th European Conference on Optical Communications*, (Geneva, CH), 18-22 September 2011. DOI: ECOC.2011.We.10.P1.27, [\[link\]](#)
- [C9] K. Hassan, J.-C. Weeber, L. Markey, A. Dereux, A. Pitolakis, **O. Tsilipakos**, and E. E. Kriezis, "Characterization of thermo-optical 2x2 switch configurations made of Dielectric Loaded Surface Plasmon Polariton Waveguides for telecom routing architecture," in *Proceedings Optical Fiber Communication Conference and Exposition (OFC) and The National Fiber Optic Engineers Conference (NFOEC) (OFC/NFOEC'2012)*, Los Angeles, California, USA, 4-8 March, 2012. DOI: OFC.2012.OW3E.5, [\[link\]](#)
- [C10] **O. Tsilipakos**, A. Pitolakis and E. E. Kriezis, "Hybrid silicon-plasmonics: efficient waveguide interfacing for low-loss integrated switching components," *Proc. SPIE 8424*, 84241E, Brussels, Belgium, 1 May 2012, DOI: 10.1117/12.922298, [\[link\]](#)
- [C11] J.-C. Weeber, K. Hassan, M. G. Nielsen, A. Pitolakis, **O. Tsilipakos**, E. E. Kriezis, J. Fatome, C. Finot, L. Markey, O. Albrektsen, S. I. Bozhevolnyi and A. Dereux, "Dielectric loaded surface plasmon waveguides for datacom applications", *Proc. SPIE 8424*, 842407, Brussels, Belgium, 30 April 2012. DOI: 10.1117/12.921766, [\[link\]](#) [invited]
- [C12] A. Pitolakis, **O. Tsilipakos** and E. E. Kriezis, "Nonlinear effects in hybrid plasmonic waveguides," *ICTON 2012: 14th International Conference on Transparent Optical Networks*, art. no. 6254436, Coventry, UK, 2-5 July 2012. DOI: 10.1109/ICTON.2012.6254436, [\[link\]](#)
- [C15] **O. Tsilipakos**, D. C. Zografopoulos and E. E. Kriezis, "Soliton-like propagation in dispersion-managed silicon nanowaveguides," *CLEO Europe 2013*, (Munich, DE), May 12-16, 2013, DOI: 10.1109/CLEOE-IQEC.2013.6800890, [\[link\]](#)
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