

Journal publications (clickable)

- [38] S. Buddhiraju, Y. Shi, A. Song, C. Wojcik, **M. Minkov**, I. A. D. Williamson, A. Dutt, and S. Fan, “Absence of unidirectionally propagating surface plasmon-polaritons in nonreciprocal plasmonics,” Accepted in *Nature Communications*.
- [37] T. W. Hughes, I. A. D. Williamson, **M. Minkov**, and S. Fan, “Forward-mode differentiation of maxwell’s equations,” *ACS Photonics* **6**, 3010–3016 (2019).
- [36] T. W. Hughes, I. A. D. Williamson, **M. Minkov**, and S. Fan, “Wave physics as an analog recurrent neural network,” *Science Advances* **5**, eaay6946 (2019).
- [35] A. Dutt, Q. Lin, L. Yuan, **M. Minkov**, M. Xiao, and S. Fan, “A single photonic cavity with two independent physical synthetic dimensions,” *Science* **10.1126/science.aaz3071** (2019).
- [34] **M. Minkov**, D. Gerace, and S. Fan, “Doubly resonant $\chi^{(2)}$ nonlinear photonic crystal cavity based on a bound state in the continuum,” *Optica* **8**, 1039 (2019). Featured online: [Stanford](#), [phys.org](#), [LFW](#).
- [33] A. Dutt, **M. Minkov**, Q. Lin, L. Yuan, D. A. B. Miller, and S. Fan, “Experimental band structure spectroscopy along a synthetic dimension,” *Nature Comm.* **10**, 3122 (2019).
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- [31] **M. Minkov**, M. Pinkwart, and P. Schupp, “Entropy methods for CMB analysis of anisotropy and non-Gaussianity,” *Phys. Rev. D* **99**, 103501 (2019).
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- [28] **M. Minkov**, I. A. D. Williamson, M. Xiao, and S. Fan, “Zero-index bound states in the continuum,” *Phys. Rev. Lett.* **121**, 263901 (2018).
- [27] T. W. Hughes[†], **M. Minkov**[†], I. A. D. Williamson, and S. Fan, “Adjoint method and inverse design for nonlinear nanophotonic devices,” *ACS Photonics* **5**, 4781–4787 (2018). [†]authors contributed equally.
- [26] M. S. Mohamed, Y. Lai, **M. Minkov**, V. Savona, A. Badolato, and R. Houdré, “Influence of disorder and finite-size effects on slow light transport in extended photonic crystal coupled-cavity waveguides,” *ACS Photonics* **5**, 4846–4853 (2018).
- [25] **M. Minkov** and S. Fan, “Unidirectional light transport in dynamically modulated waveguides,” *Phys. Rev. Applied* **10**, 044028 (2018).
- [24] Y. Lai, M. S. Mohamed, B. Gao, **M. Minkov**, R. W. Boyd, V. Savona, R. Houdré, and A. Badolato, “Ultra-wide-band structural slow light,” *Sci. Rep.* **8**, 14811 (2018).

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