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Publications

PUBLICATIONS

- Multifunctional Spaceplates for Optical Aberration Correction *ACS PHOTONICS*
  2024

- Atomically Precise Manufacturing of Silicon Electronics. *ACS nano*
  Pitters, J., Croshaw, J., Achal, R., Livadaru, L., Ng, S., Lupoiu, R., Chutora, T., Huff, T., Walus, K., Wolkow, R. A. 
  2024

- High Speed Simulation and Freeform Optimization of Nanophotonic Devices with Physics-Augmented Deep Learning *ACS PHOTONICS*
  Chen, M., Lupoiu, R., Mao, C., Huang, D., Jiang, J., Lalanne, P., Fan, J. A.  
  2022

- WaveY-Net: Physics-Augmented Deep Learning for High-Speed Electromagnetic Simulation and Optimization
  SPIE-INT SOC OPTICAL ENGINEERING.2022

- MetaNet: a new paradigm for data sharing in photonics research *OPTICS EXPRESS*
  2020; 28 (9): 13670–81

- SiQAD: A Design and Simulation Tool for Atomic Silicon Quantum Dot Circuits *IEEE TRANSACTIONS ON NANOTECHNOLOGY*
  2020; 19: 137-146