

Robert Lupoiu

Ph.D. Student in Electrical Engineering, admitted Autumn 2021

Publications

PUBLICATIONS

- **Multifunctional Spaceplates for Optical Aberration Correction** *ACS PHOTONICS*
Shao, Y., Lupoiu, R., Jiang, J., Zhou, Y., Milster, T. D., Fan, J. A.
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**
Chen, M., Lupoiu, R., Mao, C., Huang, D., Jiang, J., Lalanne, P., Fan, J. A., Chang-Hasnain, C. J., Fan, J. A., Zhou, W.
SPIE-INT SOC OPTICAL ENGINEERING.2022
- **MetaNet: a new paradigm for data sharing in photonics research** *OPTICS EXPRESS*
Jiang, J., Lupoiu, R., Wang, E. W., Sell, D., Hugonin, J., Lalanne, P., Fan, J. A.
2020; 28 (9): 13670–81
- **SiQAD: A Design and Simulation Tool for Atomic Silicon Quantum Dot Circuits** *IEEE TRANSACTIONS ON NANOTECHNOLOGY*
Ng, S., Retallick, J., Chiu, H., Lupoiu, R., Livadaru, L., Huff, T., Rashidi, M., Vine, W., Dienel, T., Wolkow, R. A., Walus, K.
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