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Ph.D. Student in Electrical Engineering, admitted Autumn 2023

Publications

PUBLICATIONS

- **Freeform Mode-Engineered Metasurfaces.** *Nano letters*
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- **Conformal Aberration-Correcting Spaceplates** *LASER & PHOTONICS REVIEWS*
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- **A multi-agentic framework for real-time, autonomous freeform metasurface design.** *Science advances*
Lupoiu, R., Shao, Y., Dai, T., Mao, C., Edée, K., Fan, J. A.
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- **Shaping freeform nanophotonic devices with geometric neural parameterization** *NPJ COMPUTATIONAL MATERIALS*
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- **Hetero-integrated perovskite/Si₃N₄ on-chip photonic system** *NATURE PHOTONICS*
Liao, K., Lian, Y., Yu, M., Du, Z., Dai, T., Wang, Y., Yan, H., Wang, S., Lu, C., Chan, C. T., Zhu, R., Di, D., Hu, et al
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- **Ultracompact and multifunctional integrated photonic platform.** *Science advances*
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- **Graphene/silicon heterojunction for reconfigurable phase-relevant activation function in coherent optical neural networks.** *Nature communications*
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- **Integrated Photonic Neural Networks: Opportunities and** *ACS PHOTONICS*
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- **Snapshot Mueller spectropolarimeter imager.** *Microsystems & nanoengineering*
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2023; 9: 125
- **Matrix eigenvalue solver based on reconfigurable photonic neural network** *NANOPHOTONICS*
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