

Public CV

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Employment

Mads Clausen Institute (MCI)

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Sønderborg

10. Jan 2023 → 30. Sep 2023

Assistant Professor

SDU Nano Optics

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Odense M

10. Jan 2023 → 30. Sep 2023

Research outputs

Lithography-free fabrication of scalable 3D nanopillars as ultrasensitive SERS substrates

Chirumamilla, A., Moise, I. M., Cai, Z., Ding, F., Jensen, K. B., Wang, D., Kristensen, P. K., Jensen, L. R., Fojan, P., Popok, V. & Chirumamilla, M., Apr 2023, In: Applied Materials Today. 31, 101763.

Continuously tunable topological defects and topological edge states in dielectric photonic crystals

Tang, S., Xu, Y., Ding, F. & Liu, F., 15. Jan 2023, In: Physical Review B. 107, 4, 7 p., L041403.

Optical reflective metasurfaces based on mirror-coupled slot antennas

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Broadband spin-multiplexed single-celled metasurface holograms: A comprehensive comparison between different strategies

Im Sande, S., Bozhevolnyi, S. I. & Ding, F., 2023, (E-pub ahead of print) In: Nanophotonics. 9 p.

MEMS tunable metasurfaces based on gap plasmon or Fabry-Pérot resonances

Thrane, P. C. V., Meng, C., Ding, F. & Bozhevolnyi, S. I., 14. Sep 2022, In: Nano Letters. 22, 17, p. 6951-6957

High-performance photodetectors based on Schottky junctions formed by vertical 2D-3D-2D graphene sandwich nanocavity and germanium substrate

Qiu, Y., Zhang, S., Zhang, G., He, Z., Feng, X., Ding, F., Tang, S. & Wang, G., Jun 2022, In: Diamond and Related Materials. 126, 6 p., 109043.

Multifunctional all-dielectric metasurface quarter-wave plates for polarization conversion and wavefront shaping

He, H., Tang, S., Zheng, Z. & Ding, F., 15. May 2022, In: Optics Letters. 47, 10, p. 2478-2481

Recent progress in metasurface-enabled optical waveplates

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Full-range birefringence control with piezoelectric MEMS-based metasurfaces

Meng, C., Thrane, P. C. V., Ding, F. & Bozhevolnyi, S. I., 19. Apr 2022, In: Nature Communications. 13, 1, 7 p., 2071.

Quantum hybrid plasmonic nanocircuits for versatile polarized photon generation

Wu, C., Kumar, S., Komisar, D., Meng, C., Deng, Y., Wang, Z., Bozhevolnyi, S. I. & Ding, F., 18. Mar 2022, In: Advanced Optical Materials. 10, 6, 11 p., 2101596.

Room-temperature on-chip orbital angular momentum single-photon sources

Wu, C., Kumar, S., Kan, Y., Komisar, D., Wang, Z., Bozhevolnyi, S. I. & Ding, F., 11. Mar 2022, In: Science Advances. 8, 2, eabk3075.

A review of multifunctional optical gap-surface plasmon metasurfaces

Ding, F., 2022, In: Progress in Electromagnetics Research. 174, p. 55-73

Vortex Beam Generation Directly from a Fiber Laser Incorporating Plasmon Metasurface

Wang, C., Gui, L., Zhang, T., Ding, F., Bozhevolnyi, S. I. & Xu, K., 2022, *CLEO: QELS_Fundamental Science, QELS 2022*. Optica Publishing Group, FW1C.4. (Optics InfoBase Conference Papers).

Phase-change metasurface for switchable vector vortex beam generation

Cai, Z., Wu, C., Jiang, J., Ding, Y., Zheng, Z. & Ding, F., 20. Dec 2021, In: Optics Express. 29, 26, p. 42762-42771

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Dual-functional optical waveplates based on gap-surface plasmon metasurfaces

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Wu, C., Ding, F., Wang, Z. & Bozhevolnyi, S. I., 2021, *Integrated Optics: Design, Devices, Systems and Applications VI*. Cheben, P., Ctyroky, J. & Molina-Fernandez, I. (eds.). SPIE - International Society for Optical Engineering, 117750S. (Proceedings of SPIE, the International Society for Optical Engineering, Vol. 11775).

Demonstration of $> 2\pi$ reflection phase range in optical metasurfaces based on detuned gap-surface plasmon resonators

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Spin-Orbit Controlled Excitation of Quantum Emitters in Hybrid Plasmonic Nanocircuits

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High-efficiency focused optical vortex generation with geometric gap-surface plasmon metalenses

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Ding, F. & Bozhevolnyi, S. I., 1. Jul 2019, *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE, 2 p. 8749408

Gap-surface Plasmon Metasurfaces for Structured Beams Generation

Ding, F., Chen, Y., Yang, Y. & Bozhevolnyi, S. I., Jun 2019, *2019 Photonics & Electromagnetics Research Symposium - Spring (PIERS)*. IEEE, p. 1276-1280

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Heiden, J. T., Ding, F., Linnet, J., Yang, Y., Beermann, J. & Bozhevolnyi, S. I., 3. May 2019, In: *Advanced Optical Materials*. 7, 9, 9 p., 1801414.

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Direct Characterization of Near-Field Coupling in Gap Plasmon-Based Metasurfaces

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Press/Media

Fei Ding troede ikke sine egne øjne - 1,9 millioner kroner fra Villum Fonden

Fei Ding

20/09/2018

1 Media contribution

Million-bevilling til unge forskere

Fei Ding

22/01/2021

1 Media contribution

Special Issue on "Metasurfaces: Physics and Applications"

Fei Ding

24/09/2018

1 Media contribution