

Res. Asst. MERTCAN ERDİL

Personal Information

Email: erdilm@metu.edu.tr

Web: <https://avesis.metu.edu.tr/erdilm>

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Isotropic gap formation, localization, and waveguiding in mesoscale Yukawa-potential amorphous structures
Sarihan M. C., Govdeli A., Lan Z., Yilmaz Y. B., Erdil M., Wang Y., Aras M. S., Yanik C., Panoiu N. C., Wong C. W., et al. Communications Physics, vol.7, no.1, 2024 (SCI-Expanded)
- II. Advanced Design of Schottky Photodiodes in Bulk CMOS for High Speed Optical Receivers
Orsel O. E., ERDİL M., KOCAMAN S. IEEE JOURNAL OF QUANTUM ELECTRONICS, vol.56, no.1, 2020 (SCI-Expanded)
- III. A 2D Slotted Rod Type PhC Cavity Inertial Sensor Design for Impact Sensing
Orsel O. E., ERDİL M., KOCAMAN S. IEEE JOURNAL OF QUANTUM ELECTRONICS, vol.56, no.1, 2020 (SCI-Expanded)
- IV. High-Q Slot-Mode Photonic Crystal Nanobeam Cavity Biosensor With Optomechanically Enhanced Sensitivity
Erdil M., Ozer Y., Kocaman S. IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, vol.25, 2019 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. Localization and isotropic gap formation in chip-scale Yukawa potential metastructures
Sarihan M. C., GÖVDELİ A., Lan Z., Yilmaz Y. B., ERDİL M., Aras M. S., Yanik C., Panoiu N. C., Wong C. W., KOCAMAN S. 2023 Conference on Lasers and Electro-Optics, CLEO 2023, California, United States Of America, 7 - 12 May 2023
- II. Tuning of 2D Rod-Type Photonic Crystal Cavity for Optical Modulation and Impact Sensing
Orsel O. E., ERDİL M., Yanik C., KOCAMAN S. Conference on MOEMS and Miniaturized Systems XVIII, San-Francisco, Costa Rica, 2 - 04 February 2019, vol.10931
- III. Flexible waveguides with amorphous photonic materials
Sarihan M. C., Yilmaz Y. B., ERDİL M., Aras M. S., Yanik C., Wong C. W., KOCAMAN S. Conference on Optical Components and Materials XVI, San-Francisco, Costa Rica, 4 - 06 February 2019, vol.10914
- IV. Breaking the trade-off between Q-factor and sensitivity for high-Q slot mode photonic crystal nanobeam cavity biosensors with optomechanical feedback
ERDİL M., KOCAMAN S. Conference on Microfluidics, BioMEMS, and Medical Microsystems XVII, San-Francisco, Costa Rica, 2 - 04 February 2019, vol.10875
- V. Optomechanical impact sensor with photonic crystal structures
Orsel O. E., ERDİL M., Yanik C., KOCAMAN S. Active Photonic Platforms XI Conference 2019, California, United States Of America, 11 - 15 August 2019, vol.11081
- VI. Optomechanically Enhanced High-Q Slot Mode Photonic Crystal Nanobeam Cavity
ERDİL M., KOCAMAN S. 31st Annual IEEE Photonics Conference (IPC) of the IEEE-Photonics-Society, Preston, United Kingdom, 30

Metrics

Publication: 10

Citation (WoS): 14

Citation (Scopus): 14

H-Index (WoS): 2

H-Index (Scopus): 3