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Education Information

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Graduate School of Natural and Applied Sciences, Turkey 2016 - 2018

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, Turkey 2011 - 2016

Dissertations

Postgraduate, Integrated optical modulators based on photonic crystals, Middle East Technical University, Graduate School of Natural and Applied Sciences, 2018

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. **On-Chip Switch and Add/Drop Multiplexer Design With Left-Handed Behavior in Photonic Crystals**
GÖVDELİ A., KOCAMAN S.
IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, vol.26, no.2, 2020 (SCI-Expanded)
- III. **Integrated Optical Modulator Based on Transition between Photonic Bands**
Govdeli A., Sarihan M. C., Karaca U., Kocaman S.
SCIENTIFIC REPORTS, vol.8, 2018 (SCI-Expanded)
- IV. **Zero average index design via perturbation of hexagonal photonic crystal lattice**
Moradi S., GÖVDELİ A., KOCAMAN S.
OPTICAL MATERIALS, vol.73, pp.577-584, 2017 (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. **On-chip flexible waveguides with amorphous structures in the near-infrared**
Smihan M. C., GÖVDELİ A., Yilmaz Y. B., Erdal M., Aras M. S., Yanik C., Wong C. W., KOCAMAN S.
Conference on Lasers and Electro-Optics (CLEO), San-Jose, Costa Rica, 10 - 15 May 2020
- III. **Tunable integrated optical modulator with dynamical photonic band transition of photonic crystals**
GÖVDELİ A., KOCAMAN S.

Conference on Silicon Photonics XIV, San-Francisco, Costa Rica, 4 - 06 February 2019, vol.10923

IV. Integrated optical modulators with zero index metamaterials based on photonic crystal slab waveguides

Yildirim M., GÖVDELİ A., KOCAMAN S.

Conference on Integrated Optics - Devices, Materials, and Technologies XXIII, San-Francisco, Costa Rica, 4 - 07 February 2019, vol.10921

V. Band-to-Band Transition Based On-Chip Optical Modulator

GÖVDELİ A., Sarihan M. C., Karaca U., KOCAMAN S.

31st Annual IEEE Photonics Conference (IPC) of the IEEE-Photonics-Society, Preston, United Kingdom, 30 September - 04 October 2018

VI. Hybrid Integration of Broadband Silicon Modulators and InGaAs Photodetectors

Karaca U., GÖVDELİ A., KOCAMAN S.

31st Annual IEEE Photonics Conference (IPC) of the IEEE-Photonics-Society, Preston, United Kingdom, 30 September - 04 October 2018

VII. Asymmetric Band Gaps in Amorphous Photonic Materials

Sarihan M. C., GÖVDELİ A., Aras M. S., Yanik C., Wong C. W., KOCAMAN S.

31st Annual IEEE Photonics Conference (IPC) of the IEEE-Photonics-Society, Preston, United Kingdom, 30 September - 04 October 2018

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