

Asst. Prof. EGE ÖZGÜN

Personal Information

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Education Information

Doctorate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Physics, Turkey 2010 - 2016

Research Areas

Atomic and Molecular Physics, Optics, Quantum Mechanics, Fields Theory and Relativity, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2021 - Continues

Lecturer, Karl-Franzens-Universitaet Graz, Physics, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A parity-time-symmetric optoelectronic oscillator with polarization multiplexed channels**
ÖZGÜN E., Uyar F., KARTALOĞLU T., ÖZBAY E., Ozdur I.
JOURNAL OF OPTICS, vol.24, no.5, 2022 (Peer-Reviewed Journal)
- II. **Scattering of spin-1/2 particles from a PT-symmetric complex potential**
Ozgun E., Hakioglu T. T., Ozbay E.
EPL, vol.131, no.1, 2020 (Peer-Reviewed Journal)
- III. **Epsilon-Near-Zero Waveguides for Quantum Information Applications: A Theoretical Approach for N-Qubits**
Ozgun E., Ozbay E.
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN, vol.87, no.11, 2018 (Peer-Reviewed Journal)
- IV. **Broadband mixing of PT-symmetric and PT-broken phases in photonic heterostructures with a one-dimensional loss/gain bilayer**
Ozgun E., Serebryannikov A. E., Ozbay E., Soukoulis C. M.
SCIENTIFIC REPORTS, vol.7, 2017 (Peer-Reviewed Journal)
- V. **Tunable Zero-Index Photonic Crystal Waveguide for Two-Qubit Entanglement Detection**
Ozgun E., Ozbay E., Caglayan H.
ACS PHOTONICS, vol.3, no.11, pp.2129-2133, 2016 (Peer-Reviewed Journal)
- VI. **CDW-Exciton Condensate Competition and a Condensate Driven Force**
Ozgun E., Hakioglu T.
JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN, vol.85, no.8, 2016 (Peer-Reviewed Journal)
- VII. **Robust ground state and artificial gauge in DQW exciton condensates under weak magnetic field**

Hakioglu T, Ozgun E, Gunay M.

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.62, pp.10-14, 2014 (Peer-Reviewed Journal)

VIII. **A measurable force driven by an excitonic condensate**

Hakioglu T, Ozgun E, Gunay M.

APPLIED PHYSICS LETTERS, vol.104, no.16, 2014 (Peer-Reviewed Journal)

IX. **Radiative dark-bright instability and the critical Casimir effect in DQW exciton condensates**

Hakioglu T, Ozgun E.

SOLID STATE COMMUNICATIONS, vol.151, pp.1045-1048, 2011 (Peer-Reviewed Journal)

Metrics

Publication: 9

Citation (WoS): 20

Citation (Scopus): 20

H-Index (WoS): 3

H-Index (Scopus): 3