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Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Metalurji Mühendisliği (Dr), Turkey 2016 - Continues
Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Yl) (Tezli), Turkey 2011 - 2013
Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 2006 - 2011

Dissertations

Postgraduate, Porfirine bağlanan bordipirometen (BODİPY) bileşiğinin doğrusal olmayan optik özelliklere etkisi, Ankara Üniversitesi, Fizik Mühendisliği (Yl) (Tezli), 2013

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Turkish - German University, Faculty Of Scıence, Department Of Materıals Scıence And Technology, 2016 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Tungsten oxide filled nanofibers for optical limiting in near infrared region**
PEPE Y., AKKOYUN Ş., Asci N., Cakır O., TUTEL Y., Emrah Unalan H., KARATAY A., ELMALI A.
Optics and Laser Technology, vol.176, 2024 (SCI-Expanded)

II. **Visible-light optical limiting of vanadia–polyvinylpyrrolidone nanofibers**
PEPE Y., TUTEL Y., AKKOYUN Ş., Asci N., Cevik E., KARATAY A., ÜNALAN H. E., ELMALI A.
Journal of Materials Science, vol.59, no.10, pp.4102-4117, 2024 (SCI-Expanded)

III. **Enhanced nonlinear absorption and photoluminescence properties of Zn, Fe, Cu, V and Ni doped MoO₃ transition metal oxide thin films**
PEPE Y., Tutel Y., Ucar A. D., Cevik E., KARATAY A., ÜNALAN H. E., ELMALI A.
PHYSICA SCRIPTA, vol.99, no.2, 2024 (SCI-Expanded)

IV. **Cobalt-doped MoO3 thin films and dual-band electrochromic devices with excellent cyclic stability**
Tutel Y., Durukan M. B., Hacioglu S. O., Baskose U. C., Toppare L. K., Unalan H. E.
Applied Materials Today, vol.35, 2023 (SCI-Expanded)

V. **Promoting the optical limiting behavior in poly(methyl methacrylate)/α-MnO2 nanocomposite films through modulation of in-gap states by metal doping**
Pepe Y., Cevik E., Tutel Y., Karatay A., Unalan H. E., Ayhan E.
Materials Chemistry and Physics, vol.309, 2023 (SCI-Expanded)

VI. **Defect assisted enhanced nonlinear optical performance and optical limiting of pure and doped BiVO4 powders and nanocomposite films**
Tekin S., Tutel Y., Karatay A., Ünalan H. E., Elmali A.
Journal of Luminescence, vol.252, 2022 (SCI-Expanded)

VII. **Nanometer-Thick Mn:NiO and Co:NiO Films for High Performance Nonenzymatic Biosensors**
TUTEL Y., KOYLAN S., Tunca S., ÜNALAN H. E.
ACS Applied Nano Materials, vol.4, no.12, pp.13871-13883, 2021 (SCI-Expanded)

VIII. **Multichromic Vanadium Pentoxide Thin Films Through Ultrasonic Spray Deposition**
TUTEL Y., DURUKAN M. B., Koc S., KOYLAN S., Cakmak H., Kocak Y., Hekmat F., Ozensoy E., Ozbay E., UDUM Y., et al.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.168, no.10, 2021 (SCI-Expanded)

IX. **Thermally Induced Phase Transition and Defect-Assisted Nonlinear Absorption and Optical Limiting in Nanorod Morphology V2O5 Thin Films**
Pepe Y., Tutel Y., Yildiz E. A., Karatay A., Ünalan H. E., Elmalı A.
ADVANCED ENGINEERING MATERIALS, vol.23, no.10, 2021 (SCI-Expanded)

X. **Ultrafast electron/energy transfer and intersystem crossing mechanisms in bodipy-porphyrin compounds**
TUTEL Y., Sevinç G., Küçüköz B., Yildiz E. A., Karatay A., Dumanoğulları F. M., Yılmaz H., Hayvali M., Elmali A.
Processes, vol.9, no.2, pp.1-11, 2021 (SCI-Expanded)

XI. **Wearable supercapacitors based on nickel tungstate decorated commercial cotton fabrics**
Hekmat F., TUTEL Y., Unalan H. E.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.9, pp.7603-7616, 2020 (SCI-Expanded)

XII. **Investigation of ultrafast energy transfer mechanism in BODIPY-Porphyrin dyad system**
Dumanogullari F. M., Tutel Y., Kucukoz B., Sevinc G., Karatay A., Yilmaz H., Hayvali M., Elmali A.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.373, pp.116-121, 2019 (SCI-Expanded)

XIII. **Enhancement of two photon absorption properties and intersystem crossing by charge transfer in pentaaryl boron-dipyrromethene (BODIPY) derivatives**
Kucukoz B., Sevinc G., Yildiz E., Karatay A., Zhong F., Yilmaz H., Tutel Y., Hayvali M., Zhao J., Yaglioglu H. G.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.18, no.19, pp.13546-13553, 2016 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Facile and Rapid Fabrication of p-type Copper Iodide Nanowire Networks and Utilization in UV Photodetectors**
Koylan S., Calasin A., Madbouly L., Tunca Ş., Tutel Y., Coşkun Ş., Ünalan H. E.
Materials Research Society Fall 2021 Meeting, Massachusetts, United States Of America, 29 November - 02 December 2021, pp.1

II. **Morphological and Electrochemical Properties of Vanadium Pentoxide Thin Films Deposited by Ultrasonic Spray Deposition Method**
Tutel Y., Durukan M. B., Koç Ş., Koylan S., Çakmak H., Koçak Y., Hekmat F., Özbay E., Özensoy E., Ünalan H. E.

Materials Research Society Fall 2021 Meeting, Massachusetts, United States Of America, 29 November - 02 December 2021, pp.1

III. **Effects of the Doping Elements (Co, Mn, Mg) on Ultrasonic Spray Deposited NiO Thin Films and Their H2O2/Glucose Sensing Behavior**
Tutel Y., Koylan S., Tunca Ş., Ünalan H. E.
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IV. **Wearable Supercapacitors Based on Hierarchical Nickel Tungsten Trioxide@Nickel Oxide**
Hekmat F., Ünalan H. E., Tutel Y.
4th International Symposium on Materials for Energy Storage and Conversion, Muğla, Turkey, 11 - 13 September 2019, pp.76

Metrics

Publication: 18
Citation (WoS): 85
Citation (Scopus): 106
H-Index (WoS): 5
H-Index (Scopus): 6