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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAB-9550-2020

ScopusID: 57189461396

Yoksis Researcher ID: 249982

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 (YI) (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 (YI) (Tezli), 2013

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Turkish - German University, Faculty Of Science, Department Of Materials Science 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. Enhanced Nonlinear Optical Limiter in the Visible Spectral Region Based on Fe- and Co-Doped NiO Nanoparticles within PVP Nanofibers**
PEPE Y., TUTEL Y., AKKOYUN Ş., Asci N., Cevik E., KARATAY A., ÜNALAN H. E., ELMALI A.

- ACS Applied Nano Materials, vol.7, no.14, pp.16007-16017, 2024 (SCI-Expanded)
- III. **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)
 - IV. **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)
 - V. **Cobalt-doped MoO₃ thin films and dual-band electrochromic devices with excellent cyclic stability**
Tutel Y., Durukan M. B., Hacıoğlu S. O., Baskose U. C., Toppare L. K., Unalan H. E.
Applied Materials Today, vol.35, 2023 (SCI-Expanded)
 - VI. **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)
 - VII. **Defect assisted enhanced nonlinear optical performance and optical limiting of pure and doped BiVO₄ powders and nanocomposite films**
Tekin S., Tutel Y., Karatay A., Ünalán H. E., Elmali A.
Journal of Luminescence, vol.252, 2022 (SCI-Expanded)
 - VIII. **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)
 - IX. **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)
 - X. **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., Ünalán H. E., Elmali A.
ADVANCED ENGINEERING MATERIALS, vol.23, no.10, 2021 (SCI-Expanded)
 - XI. **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)
 - XII. **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)
 - XIII. **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)
 - XIV. **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., Ünalán 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., Ünal 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., Ünal H. E.
Materials Research Society Fall 2021 Meeting, Massachusetts, United States Of America, 29 November - 02
December 2021, pp.1

IV. Wearable Supercapacitors Based on Hierarchical Nickel Tungsten Trioxide@Nickel Oxide

Hekmat F., Ünal H. E., Tutel Y.
4th International Symposium on Materials for Energy Storage and Conversion, Muğla, Turkey, 11 - 13 September
2019, pp.76

Metrics

Publication: 21

Citation (WoS): 154

Citation (Scopus): 159

H-Index (WoS): 8

H-Index (Scopus): 8