

## Asst. Prof. ELİF YILDIZ

### Personal Information

Office Phone: [+90 312 203 3509](tel:+903122033509)

Email: [eakhuseyin@ankara.edu.tr](mailto:eakhuseyin@ankara.edu.tr)

Web: <https://avesis.ankara.edu.tr/eakhuseyin>

### International Researcher IDs

ORCID: 0000-0001-6485-4660

Publons / Web Of Science ResearcherID: AAH-3343-2020

ScopusID: 57189464609

Yoksis Researcher ID: 204038

### Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), Turkey 2014 - 2019

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

Doctorate, Elektron ve enerji aktarım mekanizmalarının boya ile duyarlaştırılmış güneş pillerinin verimliliği üzerine etkileri, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), 2019

Postgraduate, Tetraarilazadipirometen bileşiklerinin metal komplekslerinin doğrusal olmayan optik özelliklerinin incelenmesi, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (YI) (Tezli), 2013

### Research Areas

Physics

### Academic Titles / Tasks

Assistant Professor, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2022 - Continues

Lecturer, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2014 - 2019

### Academic and Administrative Experience

Internship Coordinator, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2023 - Continues

### Courses

PHY113 PHYSICS I, Undergraduate, 2024 - 2025

Physics Laboratory II, Undergraduate, 2022 - 2023

Fizik II, Undergraduate, 2022 - 2023  
PHY0102 PHYSICS II, Undergraduate, 2022 - 2023  
Physics II, Undergraduate, 2022 - 2023  
PHYSICS I, Undergraduate, 2023 - 2024  
Fizik I, Undergraduate, 2021 - 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Tuning refractive index of PDMS by CO<sub>2</sub> laser engraving for polymer optical splitter applications**  
Tutgun M., Sankir M. C., KARATAY A., YILDIZ E., Karaahmetoglu N. A., Varsak A. A., Altaf C. T.  
MATERIALS LETTERS, vol.382, 2025 (SCI-Expanded)
- II. **Exploring Charge Transfer Mechanisms in Schiff Base-Modified N-Doped GQDs: Insights from DFT and Pump-Probe Spectroscopy for Bioimaging Applications**  
Hançe S., Erdener D., Öztürk B. I., YILDIZ E., KARATAY A., BOYACIOĞLU B., ÜNVER H., YILMAZER AKTUNA A., YILDIZ M., ELMALI A.  
ChemistrySelect, vol.9, no.41, 2024 (SCI-Expanded)
- III. **Single crystalline Holmium doped InSe for optical limiting operation in Near-IR region**  
YILDIZ E.  
PHYSICA SCRIPTA, no.9, 2024 (SCI-Expanded)
- IV. **Revealing the Effects of Defect States on the Nonlinear Absorption Properties of the TlIn<sub>2</sub>S<sub>3</sub>Se Crystals in Near-Infrared Optical Limiting Applications**  
Dogan A., KARATAY A., IŞIK M., YILDIZ E., Gasanly N. M., ELMALI A.  
CRYSTAL GROWTH & DESIGN, no.17, pp.6981-6990, 2024 (SCI-Expanded)
- V. **Chromogenic sensing, biological, and optical properties of Schiff bases of 2-amino-6-methoxybenzothiazole**  
YILDIZ E., PEPE Y., Erdener D., KARATAY A., BOYACIOĞLU B., ÜNVER H., Yapar G., DEMİR N., YILDIZ M., ELMALI A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1295, 2024 (SCI-Expanded)
- VI. **Colorimetric chemical sensing properties of 3-amino-4-hydroxybenzene- sulfonic acid-based Schiff bases containing electron donor-acceptor groups**  
Yıldız E., Pepe Y., Erdener D., Karatay A., Boyacioğlu B., Ünver H., Yapar G., Demir N., Yıldız M., Elmalı A.  
CHEMICAL PHYSICS, vol.574, 2023 (SCI-Expanded)
- VII. **Two-Photon Absorption Response of Functionalized BODIPY Dyes in Near-IR Region by Tuning Conjugation Length and Meso-Substituents**  
YILDIZ E., ÜNLÜ B. A., KARATAY A., Bozkurt Y., Ozler M. E., SÖZMEN F., YABAŞ E., BOYACIOĞLU B., ÜNVER H., ELMALI A.  
ACS OMEGA, vol.8, no.34, pp.30939-30948, 2023 (SCI-Expanded)
- VIII. **Effect of group electronegativity on spectroscopic, biological, chromogenic sensing and optical properties of 2-formyl-benzene sulfonic acid sodium salt-based Schiff bases**  
Yıldız E., Pepe Y., Erdener D., Karatay A., Boyacioğlu B., Ünver H., Yapar G., Demir N., Yıldız M., Elmalı A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1286, 2023 (SCI-Expanded)
- IX. **UV-Vis spectroscopic and colorimetric anion detection and fluorescence properties of new 3-amino-4-hydroxybenzenesulfonic acid-based Schiff bases depending on the strength and position of the electron donor substitution**  
Yıldız E., Pepe Y., Erdener D., Karatay A., Boyacioğlu B., Ünver H., Yapar G., Demir N., Yıldız M., Elmalı A.  
PHYSICA SCRIPTA, vol.98, no.8, 2023 (SCI-Expanded)
- X. **Tunable nonlinear absorption and optical limiting behavior of NaBi(Mo<sub>x</sub>W<sub>1-x</sub>)<sub>2</sub> single crystals with ratio of Molybdenum/Tungsten**  
PEPE Y., YILDIZ E., IŞIK M., KARATAY A., HASANLI N., ELMALI A.  
PHYSICA SCRIPTA, vol.98, no.7, 2023 (SCI-Expanded)

- XI. **Synthesis, structural characterization and determination of the nitro-containing explosives detection potential of supramolecular lanthanum complex and Lanthana nanoparticles**  
Öztürkkan F. E., Teymouri E., Yüksek M., Akhüseyin Yıldız E., Sertçelik M., Alemi A., Necefoğlu H., Hökelek T.  
Materials Science and Engineering B: Solid-State Materials for Advanced Technology, vol.290, 2023 (SCI-Expanded)
- XII. **Effects of Heavy Iodine Atoms and  $\pi$ -Expanded Conjugation on Charge Transfer Dynamics in Carboxylic Acid BODIPY Derivatives as Triplet Photosensitizers**  
Akhuseyin Yildiz E., Yabaş E., Sözmen F., Bozkurt Y., Karatay A., Boyacıoğlu B., Ünver H., Elmalı A.  
CHEMPHYSICHEM, vol.24, no.5, 2023 (SCI-Expanded)
- XIII. **Colorimetric probing and fluorescent chemosensor features of functionalized sulphonamide-azomethine derivatives**  
YILDIZ E., Erdener D., Tekin S., KARATAY A., BOYACIOĞLU B., ÜNVER H., YILDIZ M., ELMALI A.  
Journal of Photochemistry and Photobiology A: Chemistry, vol.433, 2022 (SCI-Expanded)
- XIV. **The role of defects on the transition from saturable absorption to nonlinear absorption of Bi<sub>12</sub>GeO<sub>20</sub> single crystal under increasing laser excitation**  
PEPE Y., IŞIK M., KARATAY A., Yildiz E., HASANLI N., ELMALI A.  
JOURNAL OF LUMINESCENCE, vol.251, 2022 (SCI-Expanded)
- XV. **Two-photon absorption and triplet excited state quenching of near-IR region aza-BODIPY photosensitizers via a triphenylamine moiety despite heavy bromine atoms**  
Karatay A., Yilmaz H., Yildiz E., Sevinc G., Hayvalı M., Boyacıoğlu B., Ünver H., Elmalı A.  
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.24, no.41, pp.25495-25505, 2022 (SCI-Expanded)
- XVI. **Mechanisms of nonlinear optical absorption in (GeO<sub>2</sub>)<sub>1-x</sub>-(PbF<sub>2</sub>)<sub>x</sub> (0.1 ≤ x ≤ 0.3) modified germanate glasses**  
ÜNLÜ B. A., Bilir G., Yuksek M., KARATAY A., YILDIZ E., ELMALI A.  
Optical Materials, vol.131, 2022 (SCI-Expanded)
- XVII. **Understanding electrooxidation mechanism of anticancer drugs utilizing ultrafast pump probe spectroscopy**  
KARATAY A., KURBANOĞLU S., Sevinc G., YILDIZ E., HAYVALI M., ÖZKAN S. A., ELMALI A.  
Journal of Molecular Structure, vol.1262, 2022 (SCI-Expanded)
- XVIII. **Nonlinear optical performance and optical limiting of germanate glasses modified with PbF<sub>2</sub> and B<sub>2</sub>O<sub>3</sub> induced by nanosecond pulsed laser**  
PEPE Y., Bilir G., Yuksek M., KARATAY A., Yildiz E., ELMALI A.  
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.590, 2022 (SCI-Expanded)
- XIX. **Above bandgap one-photon excitation induced nonlinear absorption behavior of InTe**  
ÜNLÜ B. A., KARATAY A., Avci E., Yildiz E., ATEŞ A., ELMALI A.  
JOURNAL OF LUMINESCENCE, vol.248, 2022 (SCI-Expanded)
- XX. **Tuning the energy bandgap and nonlinear absorption coefficients of WO<sub>x</sub>/ZrO<sub>2</sub> nanocomposite thin films with the role of weight and doping concentration**  
Tekin S., KARATAY A., Yildiz E., DONAR Y. O., SINAĞ A., DULKADİR H., ELMALI A.  
JOURNAL OF LUMINESCENCE, vol.247, 2022 (SCI-Expanded)
- XXI. **Naked-eye colorimetric anion probing and fluorescent switching features of conjugated Schiff Bases derived from 4-(Trifluoromethyl) benzenesulfonamide**  
Yıldız E., Tekin S., Erdener D., Karatay A., Boyacıoğlu B., Ünver H., Yıldız M., Elmalı A.  
Journal of Luminescence, vol.247, 2022 (SCI-Expanded)
- XXII. **Morphology, defects and polymer concentration related nonlinear absorption and optical limiting properties of electrospun polyamide 6 nanofibers**  
PEPE Y., AKKOYUN Ş., KARATAY A., Yildiz E., ÜNVER H., ATEŞ A., ELMALI A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.23, 2022 (SCI-Expanded)
- XXIII. **Colorimetric probe and optical behaviours of new azomethine derivatives of sulfonamide**  
Tekin S., KARATAY A., Erdener D., YILDIZ E., BOYACIOĞLU B., ÜNVER H., YILDIZ M., ELMALI A.  
Journal of Molecular Structure, vol.1253, 2022 (SCI-Expanded)

- XXIV. **Amino-functionalized nitrogen-doped graphene quantum dots and silver-graphene based nanocomposites: Ultrafast charge transfer and a proof-of-concept study for bioimaging applications**  
KARATAY A., ERDENER ÇIRALI D., Gurcan C., Yildiz E., YILMAZER AKTUNA A., BOYACIOĞLU B., ÜNVER H., YILDIZ M., ELMALI A.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.426, 2022 (SCI-Expanded)
- XXV. **Enhanced nonlinear absorption and optical limiting of transparent, electrospun graphite filled polymer composite nanofibers in near IR region**  
PEPE Y., AKKOYUN Ş., KARATAY A., Yildiz E., ATEŞ A., ÜNVER H., ELMALI A.  
JOURNAL OF MATERIALS SCIENCE, vol.57, no.2, pp.1058-1068, 2022 (SCI-Expanded)
- XXVI. **Defect assisted nonlinear absorption and optical limiting in amorphous  $TiGaS_2(1-x)Se_2(x)$  ( $0 \leq x \leq 1$ ) thin films**  
ÜNLÜ B. A., KARATAY A., Yildiz E., Dincbay T., ÜNVER H., HASANLI N., ELMALI A.  
JOURNAL OF LUMINESCENCE, vol.241, 2022 (SCI-Expanded)
- XXVII. **Defect assisted optical limiting performance of hexagonal boron nitride nanosheets in aqueous suspension and PMMA nanocomposite films**  
ÜNLÜ B. A., KARATAY A., Yildiz E., Yola M. L., YÜKSEK M., ATAR N., ELMALI A.  
OPTICAL MATERIALS, vol.121, 2021 (SCI-Expanded)
- XXVIII. **Thermally Induced Phase Transition and Defect-Assisted Nonlinear Absorption and Optical Limiting in Nanorod Morphology V2O5 Thin Films**  
PEPE Y., TUTEL Y., Yildiz E., KARATAY A., ÜNALAN H. E., ELMALI A.  
ADVANCED ENGINEERING MATERIALS, vol.23, no.10, 2021 (SCI-Expanded)
- XXIX. **Great enhancement of two photon absorption cross section value by intramolecular charge transfer in newly synthesized triphenylamine-BODIPY derivative**  
Yildiz E., SEVİNÇ G., Tekin S., KARATAY A., HAYVALI M., ELMALI A.  
DYES AND PIGMENTS, vol.193, 2021 (SCI-Expanded)
- XXX. **Enhancement of Nonlinear Absorption in Defect Controlled ZnO Polycrystalline Thin Films by Means of Co-Doping**  
Unlu B. A., Sener D., Tekin S., Yildiz E., KARATAY A., Serin T., Elmali A.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.258, no.6, 2021 (SCI-Expanded)
- XXXI. **Building an Iron Chromophore Incorporating Prussian Blue Analogue for Photoelectrochemical Water Oxidation**  
Ghobadi T. G. U., Ghobadi A., Demirtas M., BÜYÜKTEMİZ M., Ozvural K. N., Yildiz E., Erdem E., YAĞLIOĞLU H. G., DURGUN E., DEDE Y., et al.  
CHEMISTRY-A EUROPEAN JOURNAL, vol.27, no.35, pp.8966-8976, 2021 (SCI-Expanded)
- XXXII. **Tuning the linear and nonlinear optical absorption properties of ZnS/hydrochar nanocomposites by concentration of nanoparticles**  
Tekin S., KARATAY A., DONAR Y. O., Bilge S., Yildiz E., SINAĞ A., ELMALI A.  
OPTICAL MATERIALS, vol.113, 2021 (SCI-Expanded)
- XXXIII. **Enhanced nonlinear absorption coefficient and low optical limiting threshold of NiO nanocomposite films**  
PEPE Y., KARATAY A., DONAR Y. O., Yildiz E., SINAĞ A., ÜNVER H., ELMALI A.  
OPTIK, vol.227, 2021 (SCI-Expanded)
- XXXIV. **Ultrafast Electron/Energy Transfer and Intersystem Crossing Mechanisms in BODIPY-Porphyrin Compounds**  
Tutel Y., SEVİNÇ G., Kucukoz B., Yildiz E., KARATAY A., Dumanogullari F. M., Yilmaz H., HAYVALI M., ELMALI A.  
PROCESSES, vol.9, no.2, 2021 (SCI-Expanded)
- XXXV. **Radical-Enhanced Intersystem Crossing in a Bay-Substituted Perylene Bisimide-TEMPO Dyad and the Electron Spin Polarization Dynamics upon Photoexcitation\*\***  
Zhang X., Sukhanov A. A., Yildiz E., Kandrashkin Y. E., Zhao J., YAĞLIOĞLU H. G., Voronkova V. K.  
CHEMPHYSICHEM, vol.22, no.1, pp.55-68, 2021 (SCI-Expanded)
- XXXVI. **Effect of Cr/Sb doping and annealing on nonlinear absorption coefficients of**

## **SnO<sub>2</sub>/PMMA nanocomposite films**

PEPE Y., KARATAY A., DONAR Y. O., Bilge S., Yildiz E., YÜKSEK M., SINAĞ A., ELMALI A.  
MATERIALS CHEMISTRY AND PHYSICS, 2020 (SCI-Expanded)

- XXXVII. **Anthrly-Appended Platinum(II) Schiff Base Complexes: Exceptionally Small Stokes Shift, Triplet Excited States Equilibrium, and Application in Triplet-Triplet-Annihilation Upconversion**  
Chen K., Hussain M., Razi S. S., Hou Y., Yildiz E., Zhao J., YAĞLIOĞLU H. G., Di Donato M.  
INORGANIC CHEMISTRY, vol.59, no.20, pp.14731-14745, 2020 (SCI-Expanded)
- XXXVIII. **A Robust, Precious-Metal-Free Dye-Sensitized Photoanode for Water Oxidation: A Nanosecond-Long Excited State Lifetime through a Prussian Blue Analogue**  
Ghobadi T. G. U., Ghobadi A., BÜYÜKTEMİZ M., Yildiz E., Yildiz D. B., YAĞLIOĞLU H. G., DEDE Y., ÖZBAY E., KARADAŞ F.  
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.59, no.10, pp.4082-4090, 2020 (SCI-Expanded)
- XXXIX. **Efficient Intersystem Crossing in the Troger's Base Derived From 4-Amino-1,8-naphthalimide and Application as a Potent Photodynamic Therapy Reagent**  
Zhao Y., Chen K., YILDIZ E., Li S., Hou Y., Zhang X., Wang Z., Zhao J., Barbon A., YAĞLIOĞLU H. G., et al.  
CHEMISTRY-A EUROPEAN JOURNAL, vol.26, no.16, pp.3591-3599, 2020 (SCI-Expanded)
- XL. **The effect of molecular structure and ultrafast electron injection dynamics on the efficiency of BODIPY sensitized solar cells**  
Yildiz E., SEVİNÇ G., YAĞLIOĞLU H. G., HAYVALI M.  
OPTICAL MATERIALS, vol.91, pp.50-57, 2019 (SCI-Expanded)
- XL1. **Strategies towards enhancing the efficiency of BODIPY dyes in dye sensitized solar cells**  
Yildiz E., SEVİNÇ G., YAĞLIOĞLU H. G., HAYVALI M.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.375, pp.148-157, 2019 (SCI-Expanded)
- XLII. **A Noble-Metal-Free Heterogeneous Photosensitizer-Relay Catalyst Triad That Catalyzes Water Oxidation under Visible Light**  
Ghobadi T. G. U., Yildiz E., BÜYÜKTEMİZ M., Akbari S. S., TOPKAYA TAŞKIRAN D., İŞÇİ Ü., DEDE Y., YAĞLIOĞLU H. G., KARADAŞ F.  
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.57, no.52, pp.17173-17177, 2018 (SCI-Expanded)
- XLIII. **Efficient Radical-Enhanced Intersystem Crossing in an NDI-TEMPO Dyad: Photophysics, Electron Spin Polarization, and Application in Photodynamic Therapy**  
Wang Z., Gao Y., Hussain M., Kundu S., Rane V., HAYVALI M., Yildiz E., Zhao J., YAĞLIOĞLU H. G., Das R., et al.  
CHEMISTRY-A EUROPEAN JOURNAL, vol.24, no.70, pp.18663-18675, 2018 (SCI-Expanded)
- XLIV. **Intersystem crossing and triplet excited state properties of thionated naphthalenediimide derivatives**  
Hussain M., Zhao J., Yang W., Zhong F., KARATAY A., YAĞLIOĞLU H. G., Yildiz E., HAYVALI M.  
JOURNAL OF LUMINESCENCE, vol.192, pp.211-217, 2017 (SCI-Expanded)
- XLV. **Radical-Enhanced Intersystem Crossing in New Bodipy Derivatives and Application for Efficient Triplet-Triplet Annihilation Upconversion**  
Wang Z., Zhao J., Barbon A., Toffoletti A., Liu Y., An Y., Xu L., KARATAY A., YAĞLIOĞLU H. G., Yildiz E., et al.  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.139, no.23, pp.7831-7842, 2017 (SCI-Expanded)
- XLVI. **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., YAĞLIOĞLU H. G.  
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.18, no.19, pp.13546-13553, 2016 (SCI-Expanded)
- XLVII. **Two photon absorption properties of four coordinated transition metal complexes of tetraarylazadipyrromethene compounds**  
Akhuseyin E., Turkmen O., Kucukoz B., Yilmaz H., KARATAY A., Sevinc G., Xu K., Hayvali M., YAĞLIOĞLU H. G.  
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.18, no.6, pp.4451-4459, 2016 (SCI-Expanded)
- XLVIII. **The effect of heavy atom to two photon absorption properties and intersystem crossing mechanism in aza-boron-dipyrromethene compounds**  
KARATAY A., Miser M. C., Cui X., Kucukoz B., Yilmaz H., Sevinc G., Akhuseyin E., Wu X., HAYVALI M., YAĞLIOĞLU H. G.,

et al.

DYES AND PIGMENTS, vol.122, pp.286-294, 2015 (SCI-Expanded)

**XLIX. Probing ultrafast energy transfer between excitons and plasmons in the ultrastrong coupling regime**

BALCI S., KOCABAŞ C., Kucukoz B., KARATAY A., Akhuseyin E., YAĞLIOĞLU H. G., ELMALI A.

APPLIED PHYSICS LETTERS, vol.105, no.5, 2014 (SCI-Expanded)

## Articles Published in Other Journals

**I. Pushing the limits in photosensitizer-catalyst interaction via a short cyanide bridge for water oxidation**

Ghobadi T. G. U., Ghobadi A., Demirtas M., Phul R., Yildiz E., YAĞLIOĞLU H. G., DURGUN E., ÖZBAY E., KARADAŞ F.  
CELL REPORTS PHYSICAL SCIENCE, vol.2, no.2, 2021 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

**I. Development of PDMS Nanocomposite Polymer for Optical Waveguide applications Optik Dalga Kılavuzu uygulamaları için PDMS Nanokompozit Polimer Geliştirilmesi**

Tutgun M., Altan Ç. T., Karatay A., Varsak A. A., Yıldız E.

32nd IEEE Conference on Signal Processing and Communications Applications, SIU 2024, Mersin, Turkey, 15 - 18 May 2024

**II. Schiff Base Decorated Amino-functionalized Nitrogen-Doped Graphene Quantum Dots and Their Silver Nanocomposites: Photophysical Properties and Bioimaging Applications**

Hançe S., Erdener Çıralı D., Öztürk İ., Yıldız E., Karatay A., Boyacıoğlu B., Ünver H., Yilmazer Aktuna A., Yıldız M., Elmalı A.

FOTONİK 2023 | Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Turkey, 08 September 2023, pp.38

**III. Investigation of Sensor, Optical and Biological Properties of a New Class of Molecule Derived from 3-Amino-4-hydroxybenzenesulfonic Acid and Electron Donating Group Substituted 2-Hydroxybenzaldehydes**

Yıldız E., Pepe Y., Erdener Çıralı D., Tekin S., Karatay A., Boyacıoğlu B., Ünver H., Yapar G., Yıldız M., Elmalı A.

11. International Drug Chemistry Conference, Antalya, Turkey, 09 March 2023

**IV. ULTRAFAST SPECTROSCOPIC INVESTIGATION of INTERMOLECULAR ENERGY TRANSFER in BODIPY-PORPHYRIN DERIVATIVES**

YILDIZ E.

International Aegean Symposium on Natural & Medical Sciences- III, 12 March 2021

**V. THE EFFECT of CHARGE TRANSFER DYNAMICS on TWO PHOTON ABSORPTION PROPERTIES of NOVEL BODIPY CHROMOPHORE**

YILDIZ E.

International Aegean Symposium on Natural & Medical Sciences, 12 March 2021

**VI. Visible Light Water Oxidation with a Noble Metal-Free Covalently Linked Molecular Sensitizer-Heterogeneous Catalyst Dyad**

ULUSOY GHOBADI T. G., Ghobadi A., Buyuktemiz M., YILDIZ E., Yildiz D. B., YAĞLIOĞLU H. G., DEDE Y., KARADAŞ F., Özbay E.

Light at the Nanoscale: From Molecules to Quantum Computers, 5 - 06 December 2019

**VII. Strategies Towards Enhancing the Efficiency of BODIPY Dyes in Dye Sensitized Solar Cells**

YILDIZ E., SEVİNÇ G., YAĞLIOĞLU H. G., HAYVALI M.

Fotonik 2018 20. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 14 September 2018, vol.1, pp.34

**VIII. Optical Absorption and Emission Properties of Cu(II) Complex**

YÜKSEK M., ÖZBEK F. E., SERTÇELİK M., YILDIZ E., ELMALI A., ŞAHİN E., ÇAKMAK İ.

Ümummilli lider Heydər Əliyevin anadan olmasının 95-ci ildönümünə həsr olunmuş doktorant, magistr və gənc

tədqiqatçıların “Kimyanın aktual problemləri” adlı XII Beynəlxalq elmi konfransı, Bakı, Azərbaycan, 3 - 04 May 2018, pp.43-46

- IX. **Elektron ve Enerji Aktarım Mekanizmalarının BODIPY Boyaları ile Duyarlaşdırılmış Güneş Pillerinin Verimliliği Üzerine Etkileri**  
YILDIZ E., SEVİNÇ G., YAĞLIOĞLU H. G., HAYVALI M.  
FOTONİK 2017 19. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 29 September 2017
- X. **Electron Injection Dynamics in Dye Sensitized Solar Cells With BODIPY And/Or Aza-BODIPY Dyes**  
YILDIZ E., SEVİNÇ G., HAYVALI M., YAĞLIOĞLU H. G.  
MediNano-9, 4 - 05 September 2017
- XI. **BODIPY ve Aza-BODIPY Boyalarında Elektron Aktarım Dinamikleri ve Elektron Aktarımının Boya Duyarlaşdırılmış Güneş Pillerine Etkilerinin Araştırılması**  
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6. İzmir Yoğun Madde Fiziği Toplantısı, İzmir, Turkey, 21 April 2017
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## **Scientific Refereeing**

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