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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), Türkiye 1990 - 1993

Yüksek Lisans, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Yl) (Tezli), Türkiye 1987 - 1990

Lisans, Ankara Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Türkiye 1982 - 1986

Yaptığı Tezler

Doktora, Bazı schiff bazlarının, nikel ve demir ile vermiş olduğu bileşiklerin kristal yapılarının çözülmesi ve bazı fiziksel özelliklerinin incelenmesi, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), 1993

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Araştırma Alanları

Temel Bilimler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Ankara Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2002 - Devam Ediyor

Doç.Dr., Ankara Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1997 - 2002

Yrd.Doç.Dr., Ankara Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1994 - 1997

Akademik İdari Deneyim

Ankara Üniversitesi, 2013 - 2019

Ankara Üniversitesi, 1999 - 2014

Verdiği Dersler

SPEKTRAL ANALİZ YÖNTEMLERİ, Lisans, 2013 - 2014, 2012 - 2013, 2011 - 2012

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- I. **Tungsten oxide filled nanofibers for optical limiting in near infrared region**
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- II. **Effects of boron doping in InSe single crystals on optical limiting performance in the near-infrared region**
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- V. **Chromogenic sensing, biological, and optical properties of Schiff bases of 2-amino-6-methoxybenzothiazole**
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- IX. **Efficient Spin-Orbit Charge-Transfer Intersystem Crossing and Slow Intramolecular Triplet-Triplet Energy Transfer in Bodipy-Perylenebisimide Compact Dyads and Triads**
Chen X., Rehmat N., Kurganskii I. V., Maity P., ELMALI A., Zhao J., KARATAY A., Mohammed O. F., Fedin M. V.
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- X. **Promoting the optical limiting behavior in poly(methyl methacrylate)/ α -MnO₂ nanocomposite films through modulation of in-gap states by metal doping**
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- XIII. **Investigation of the wavelength dependent nonlinear absorption mechanisms of polyvinylpyrrolidone and cadmium selenide hybrid nanofibers**
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- XVIII. **Tunable nonlinear absorption and optical limiting behavior of $\text{NaBi}(\text{Mo}_{x}\text{W}_{1-x})_{2}\text{O}_{4}$ single crystals with ratio of Molybdenum/Tungsten**
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- XXI. **Defect-assisted wavelength dependence of one photon and multiphoton absorptions in a composite nanofiber of polyvinylpyrrolidone and hexagonal boron nitride**
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- XXII. **Tetrahydroxyphthalocyanine as a potential nonlinear optical material**
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JOURNAL OF MOLECULAR STRUCTURE, cilt.1271, 2023 (SCI-Expanded)
- XXIII. **Wavelength dependence of the nonlinear absorption performance and optical limiting in $\text{Bi}_{12}\text{TiO}_{20}$ single crystal**
PEPE Y., IŞIK M., KARATAY A., Gasanly N., ELMALI A.
JOURNAL OF LUMINESCENCE, cilt.253, 2023 (SCI-Expanded)
- XXIV. **One-photon absorption enhanced nonlinear absorption and optical limiting of the electrospun**

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- XXV. **Defect assisted enhanced nonlinear optical performance and optical limiting of pure and doped BiVO₄ powders and nanocomposite films**
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- XXVI. **Colorimetric probing and fluorescent chemosensor features of functionalized sulphonamide-azomethine derivatives**
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- XXVII. **Nonlinear optical absorption characteristics of PbMoO₄ single crystal for optical limiter applications**
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- XXVIII. **The role of defects on the transition from saturable absorption to nonlinear absorption of Bi₁₂GeO₂₀ single crystal under increasing laser excitation**
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Kurbanoglu A., Alagoz I., ELMALI A.
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- XXX. **Two-photon absorption and triplet excited state quenching of near-IR region aza-BODIPY photosensitizers via a triphenylamine moiety despite heavy bromine atoms**
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- XXXII. **Understanding electrooxidation mechanism of anticancer drugs utilizing ultrafast pump probe spectroscopy**
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- XXXIV. **Above bandgap one-photon excitation induced nonlinear absorption behavior of InTe**
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- XXXV. **Tuning the energy bandgap and nonlinear absorption coefficients of WO_x/ZrO₂ nanocomposite thin films with the role of weight and doping concentration**
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- XXXVI. **Naked-eye colorimetric anion probing and fluorescent switching features of conjugated Schiff Bases derived from 4-(Trifluoromethyl) benzenesulfonamide**
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- XXXVII. **Morphology, defects and polymer concentration related nonlinear absorption and optical limiting properties of electrospun polyamide 6 nanofibers**
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XXXIX. **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.

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XL. **Enhanced nonlinear absorption and optical limiting of transparent, electrospun graphite filled polymer composite nanofibers in near IR region**

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XLI. **Defect assisted nonlinear absorption and optical limiting in amorphous $\text{TlGaS}_2(1-x)\text{Se}_2(x)$ ($0 \leq x \leq 1$) thin films**

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