

Prof. AYHAN ELMALI

Personal Information

Office Phone: [+90 0312 203 3509](tel:+9003122033509)

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

International Researcher IDs

ORCID: 0000-0002-4580-9634

ScopusID: 7004592418

Yoksis Researcher ID: 6572

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), Turkey 1990 - 1993

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (YI) (Tezli), Turkey 1987 - 1990

Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1982 - 1986

Dissertations

Doctorate, Bazı schiff bazılarının, nikel ve demir ile vermiş olduğu bileşiklerin kristal yapılarının çözümlenmesi ve bazı fiziksel özelliklerinin incelenmesi, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), 1993

Postgraduate, SxOy grubunu içeren bazı inorganik katılarda, atomların ısısal hareketlerinin x-ışını ve nötron kırınım verilerinden yararlanılarak incelenmesi, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (YI) (Tezli), 1990

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2002 - Continues

Associate Professor, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1997 - 2002

Assistant Professor, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1994 - 1997

Academic and Administrative Experience

Ankara University, 2013 - 2019

Ankara University, 1999 - 2014

Courses

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

X IŞINLARI KRİSTALOGRAFİSİ, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 -

2009, 2007 - 2008, 2006 - 2007, 2005 - 2006

FİZİK MÜHENDİSLİĞİ ARAŞTIRMA TEKNİKLERİ, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001

FİZİK LABORATUVARI, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

KRİSTAL FİZİĞİ, Undergraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001

MALZEME BİLİMİ, Undergraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001

Advising Theses

ELMALI A., Linear and nonlinear optical characteristics of zno thin films with various metal doped by the hydrothermal method, Doctorate, Y.PEPE(Student), 2020

ELMALI A., Investigation of nonlinear optical properties of $TlGa_{1-x}In_xS_2$ ($0 \leq x \leq 1$) semiconductors, Postgraduate, B.ASILCAN(Student), 2019

ELMALI A., Vanadyum oksit nanoyapıların doğrusal olmayan optik özellikleri, Doctorate, U.KÜRÜM(Student), 2016

ELMALI A., Aza-bodipy bileşiklerine ağır atom bağlanmasının doğrusal olmayan soğurma, floresans ve ultra hızlı spektroskopik özelliklerine etkisi, Doctorate, A.KARATAY(Student), 2015

ELMALI A., Titanyum oksit (TiO_2) nanokompozitlerin doğrusal olmayan optik özellikleri, Postgraduate, A.AYKEN(Student), 2013

ELMALI A., Selenyum ve sülfür bileşikli bazı yarıiletkenlerin doğrusal olmayan optik özellikleri, Doctorate, P.İŞİK(Student), 2013

ELMALI A., Porfirine bağlanan bordipirometen (BODİPY) bileşiğinin doğrusal olmayan optik özelliklere etkisi, Postgraduate, Y.TUTEL(Student), 2013

ELMALI A., Aza-bodipy bileşiklerinin iki foton soğurma ve floresans özellikleri, Postgraduate, B.ÜĞÜZ(Student), 2012

ELMALI A., Metal koordineli bazı porfirinlerin çizgisel olmayan optik özellikleri, Doctorate, N.DOĞAN(Student), 2011

ELMALI A., $In_{0.15}Ga_{0.85}Se$ tek kristalinin ve amorf yapıdaki ince filmlerinin doğrusal olmayan optik özellikleri, Postgraduate, A.KARATAY(Student), 2011

ELMALI A., Selenyum bileşikli bazı yarıiletkenlerin çizgisel olmayan optik özellikleri, Doctorate, M.YÜKSEK(Student), 2010

ELMALI A., Yer gözlem uydularında yansıtıcı ve yansıma engelleyici optik kaplamalar, Postgraduate, N.YANARCAN(Student), 2010

ELMALI A., Yeni makromoleküler heksakükürt katkılı hekza-ftalosiyenin-hekzaçinko(II) bileşiğinin çizgisel olmayan optik özelliklerinin araştırılması, Postgraduate, M.ALİ(Student), 2008

ELMALI A., Bakır koordineli ftalosiyenin bileşiğinin optik sınırlama özelliklerinin araştırılması, Postgraduate, U.KÜRÜM(Student), 2008

ELMALI A., $LaMn_2Si_2$ alaşımının nanoparçacıklarının manyetik ve yapısal özellikleri, Postgraduate, A.ŞİMŞEK(Student), 2007

ELMALI A., Çok çekirdekli homo ve hetero metal komplekslerinin kristal yapılarının ve magnetik özelliklerinin incelenmesi, Doctorate, T.ZEYREK(Student), 2005

ELMALI A., Verici ve alıcı grupları içeren aromatik organik maddelerin yapısal ve çizgisel olmayan optik özellikleri, Doctorate, A.KARAKAŞ(Student), 2005

ELMALI A., $ErCo_{10}Mo_2-xSix$ intermetalik alaşımının yapısal ve magnetik özellikleri, Postgraduate, Z.GÜNER(Student), 2005

ELMALI A., RMn_2-xTxX_2 (R: Hafif nadir yer elementi, T: Fe, Co, X: Si, Ge) alaşımlarının kristal ve manyetik yapılarının X-ışını ve nötron toz kırınımı ile incelenmesi, Doctorate, İ.DİNÇER(Student), 2005

ELMALI A., $RCo_{10-xNixSi_2}$ intermetalik alaşımının yapısal ve magnetik özellikleri, Postgraduate, D.ÇAKMAK(Student), 2004

ELMALI A., 1,3-Bis(2-hidroksi-4-metoksibenzilideamino)propan-2-ol'un m-pirazolato-N,N' köprülü dimer nikel(II) kompleksinin kristal ve molekül yapısı, Postgraduate, F.ERGİN(Student), 2003

ELMALI A., LA1-xERxMN2Si2 alaşımlarının yapısal ve magnetik özellikleri, Postgraduate, B.GERÇEK(Student), 2002
 ELMALI A., Çok çekirdekli nikel ve bakır komplekslerinin kristal yapılarının ve magnetik özelliklerinin incelenmesi, Doctorate, E.KAVLAÇOĞLU(Student), 2001
 ELMALI A., N-(2,5-metilfenil) salisialdimin, (C15H11NO) schiff bazının kristal ve moleküler yapısının incelenmesi, Postgraduate, C.ZEYREK(Student), 1998

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. **Effects of boron doping in InSe single crystals on optical limiting performance in the near-infrared region**
 Dogan A., PEPE Y., Bilgili M. Y., KARATAY A., Ertap H., Karabulut M., ELMALI A.
 PHYSICA SCRIPTA, no.4, 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. **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. **Investigation of the Defect and Intensity-Dependent Optical Limiting Performance of MnO₂ Nanoparticle-Filled Polyvinylpyrrolidone Composite Nanofibers**
 PEPE Y., AKKOYUN Ş., Asci N., Cevik E., Tutel Y., KARATAY A., ÜNALAN H. E., ELMALI A.
 ACS OMEGA, vol.8, no.50, pp.47954-47963, 2023 (SCI-Expanded)
- VII. **Controlled plasmon-induced nonlinear absorption and optical limiting in Al/PVP composite nanofibers**
 ÜNLÜ B. A., AKKOYUN Ş., KARATAY A., ATEŞ A., ELMALI A.
 NANOSCALE, vol.15, no.47, pp.19229-19237, 2023 (SCI-Expanded)
- VIII. **The effect of thionation of the carbonyl group on the photophysics of compact spiro rhodamine-naphthalimide electron donor-acceptor dyads: intersystem crossing, charge separation, and electron spin dynamics**
 Xiao X., Mu T., Sukhanov A. A., Zhou Y., Yu P., Yu F., ELMALI A., Zhao J., KARATAY A., Voronkova V. K.
 PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.25, no.46, pp.31667-31682, 2023 (SCI-Expanded)
- 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.
 CHEMISTRY-A EUROPEAN JOURNAL, vol.29, 2023 (SCI-Expanded)
- X. **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., ÜNALAN H. E., ELMALI A.
 MATERIALS CHEMISTRY AND PHYSICS, vol.309, 2023 (SCI-Expanded)
- XI. **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)

- XII. **Electron transfer and intersystem crossing in the coumarin-anthracene electron donor-acceptor dyads**
Zhao X., Kurganskii I., ELMALI A., Zhao J., KARATAY A., Mazzone G., Fedin M.
DYES AND PIGMENTS, vol.218, 2023 (SCI-Expanded)
- XIII. **Investigation of the wavelength dependent nonlinear absorption mechanisms of polyvinylpyrrolidone and cadmium selenide hybrid nanofibers**
PEPE Y., AKKOYUN Ş., Bozkurt B., KARATAY A., ATEŞ A., ELMALI A.
OPTICS AND LASER TECHNOLOGY, vol.164, 2023 (SCI-Expanded)
- XIV. **Effect of Disulfide Bonds on the Thermal Stability of Pediocin: In-silico Screening Using Molecular Dynamics Simulation**
Ünal M. A., Kaymaz Ö., Güneş Altuntaş E., Juneja V. K., Elmalı A.
Journal of Food Protection, vol.86, no.9, 2023 (SCI-Expanded)
- XV. **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)
- XVI. **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., Boyacıoğlu B., Ünver H., Yapar G., Demir N., Yıldız M., Elmalı A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1286, 2023 (SCI-Expanded)
- XVII. **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., Boyacıoğlu B., Ünver H., Yapar G., Demir N., Yıldız M., Elmalı A.
PHYSICA SCRIPTA, vol.98, no.8, 2023 (SCI-Expanded)
- XVIII. **Tunable nonlinear absorption and optical limiting behavior of $\text{NaBi}(\text{Mo}_{x-1}\text{W}_x)_2$ 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)
- XIX. **Excitation wavelength dependent nonlinear absorption mechanisms and optical limiting properties of $\text{Bi}_{12}\text{SiO}_{20}$ single crystal**
Doğan A., KARATAY A., Isık M., PEPE Y., HASANLI N., ELMALI A.
OPTICAL MATERIALS, vol.140, 2023 (SCI-Expanded)
- XX. **Effects of Heavy Iodine Atoms and π -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.
CHEMPHYSCHEM, vol.24, no.5, 2023 (SCI-Expanded)
- XXI. **Defect-assisted wavelength dependence of one photon and multiphoton absorptions in a composite nanofiber of polyvinylpyrrolidone and hexagonal boron nitride**
PEPE Y., Akkoyun S., Bozkurt B., KARATAY A., ATEŞ A., ELMALI A.
JOURNAL OF MATERIALS CHEMISTRY C, vol.11, no.7, pp.2756-2763, 2023 (SCI-Expanded)
- XXII. **Tetrahydroxyphthalocyanine as a potential nonlinear optical material**
Buyukeksi S. I., ORMAN E. B., KARATAY A., Selcuki N. A., ÖZKAYA A. R., ELMALI A., SALİH B., Sengul A.
JOURNAL OF MOLECULAR STRUCTURE, vol.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, vol.253, 2023 (SCI-Expanded)
- XXIV. **One-photon absorption enhanced nonlinear absorption and optical limiting of the electrospun**

polyvinylpyrrolidone via excitation energy and incorporation of polypyrrole particles

PEPE Y., AKKOYUN Ş., Bozkurt B., KARATAY A., ATEŞ A., ELMALI A.

JOURNAL OF MATERIALS SCIENCE, vol.57, pp.21265-21275, 2022 (SCI-Expanded)

- XXV. **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)
- XXVI. **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)
- XXVII. **Nonlinear optical absorption characteristics of PbMoO₄ single crystal for optical limiter applications**
PEPE Y., Isik M., KARATAY A., HASANLI N., ELMALI A.
Optical Materials, vol.133, 2022 (SCI-Expanded)
- XXVIII. **The role of defects on the transition from saturable absorption to nonlinear absorption of Bi₁₂GeO₂₀ 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)
- XXIX. **Full repowering of existing fuel-oil fired power plant: Modeling and performance evaluation**
Kurbanoglu A., Alagoz I., ELMALI A.
ENERGY CONVERSION AND MANAGEMENT, vol.270, 2022 (SCI-Expanded)
- XXX. **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., Boyacioğlu B., Ünver H., Elmalı A.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.24, no.41, pp.25495-25505, 2022 (SCI-Expanded)
- XXXI. **Mechanisms of nonlinear optical absorption in (GeO₂)_{1-x}-(PbF₂)_x (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)
- XXXII. **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)
- XXXIII. **Nonlinear optical performance and optical limiting of germanate glasses modified with PbF₂ and B₂O₃ 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)
- XXXIV. **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)
- XXXV. **Tuning the energy bandgap and nonlinear absorption coefficients of WO_x/ZrO₂ 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)
- XXXVI. **Naked-eye colorimetric anion probing and fluorescent switching features of conjugated Schiff Bases derived from 4-(Trifluoromethyl) benzenesulfonamide**
Yildiz E., Tekin S., Erdener D., Karatay A., Boyacioğlu B., Ünver H., Yildiz M., Elmalı A.
Journal of Luminescence, vol.247, 2022 (SCI-Expanded)
- XXXVII. **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)

- XXXVIII. **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)
- 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.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.426, 2022 (SCI-Expanded)
- XL. **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)
- 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**
ÜNLÜ B. A., KARATAY A., Yildiz E., Dincbay T., ÜNVER H., HASANLI N., ELMALI A.
JOURNAL OF LUMINESCENCE, vol.241, 2022 (SCI-Expanded)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **Chromophore Orientation-Dependent Photophysical Properties of Pyrene-Naphthalimide Compact Electron Donor-Acceptor Dyads: Electron Transfer and Intersystem Crossing**
Imran M., Sukhanov A. A., Maity P., ELMALI A., Zhao J., KARATAY A., Mohammed O. F., Voronkova V. K.
JOURNAL OF PHYSICAL CHEMISTRY B, vol.125, no.32, pp.9244-9259, 2021 (SCI-Expanded)
- XLVI. **Intersystem Crossing and Triplet-State Property of Anthryl- and Carbazole-[1,12]fused Perylenebisimide Derivatives with a Twisted π -Conjugation Framework**
Mahmood Z., Sukhanov A. A., Rehmat N., Hu M., ELMALI A., Xiao Y., Zhao J., KARATAY A., Dick B., Voronkova V. K.
JOURNAL OF PHYSICAL CHEMISTRY B, vol.125, no.32, pp.9317-9332, 2021 (SCI-Expanded)
- XLVII. **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)
- XLVIII. **Intersystem Crossing and Electron Spin Selectivity in Anthracene-Naphthalimide Compact Electron Donor-Acceptor Dyads Showing Different Geometry and Electronic Coupling Magnitudes**
Chen K., Kurganskii I. V., Zhang X., ELMALI A., Zhao J., KARATAY A., Fedin M. V.
CHEMISTRY-A EUROPEAN JOURNAL, vol.27, no.27, pp.7572-7587, 2021 (SCI-Expanded)
- XLIX. **Twisted BODIPY derivative: intersystem crossing, electron spin polarization and application as a novel photodynamic therapy reagent dagger**
Dong Y., Kumar P., Maity P., Kurganskii I., Li S., ELMALI A., Zhao J., Escudero D., Wu H., KARATAY A., et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.23, no.14, pp.8641-8652, 2021 (SCI-Expanded)
- L. **Spiro Rhodamine-Perylene Compact Electron Donor-Acceptor Dyads: Conformation Restriction, Charge Separation, and Spin-Orbit Charge Transfer Intersystem Crossing**

Hu M., Sukhanov A. A., Zhang X., ELMALI A., Zhao J., Ji S., KARATAY A., Voronkova V. K.

JOURNAL OF PHYSICAL CHEMISTRY B, vol.125, no.16, pp.4187-4203, 2021 (SCI-Expanded)

- L.I. **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)
- L.II. **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.
OPTİK, vol.227, 2021 (SCI-Expanded)
- L.III. **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)
- L.IV. **Thienyl/phenyl bay-substituted perylenebisimides: Intersystem crossing and application as heavy atom-free triplet photosensitizers**
Sadiq F., Wang Z., Hou Y., Zhao J., ELMALI A., Escudero D., KARATAY A.
DYES AND PIGMENTS, vol.184, 2021 (SCI-Expanded)
- L.V. **Effect of Cr/Sb doping and annealing on nonlinear absorption coefficients of SnO₂/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)
- L.VI. **A novel AB(3)-type trimeric zinc(II)-phthalocyanine as an electrochromic and optical limiting material**
Buyukeksi S. I., KARATAY A., ORMAN E. B., AÇAR SELÇUKİ N., ÖZKAYA A. R., SALİH B., ELMALI A., ŞENGÜL A.
DALTON TRANSACTIONS, vol.49, no.40, pp.14068-14080, 2020 (SCI-Expanded)
- L.VII. **The superiority of the classical synthesis compared to the hydrothermal synthesis upon the structural, optical absorption and fluorescent properties of new Cd(II) 3-fluorobenzoate complexes with Pyridine-3-carboxamide/ Pyridine-3-carboxylate**
ÖZBEK F. E., SERTÇELİK M., YÜKSEK M., Elmalı A., Sahin E.
INORGANICA CHIMICA ACTA, vol.509, 2020 (SCI-Expanded)
- L.VIII. **The effect of Ga/In ratio and annealing temperature on the nonlinear absorption behaviors in amorphous TlGa_xIn(1-x)S₂ (0 ≤ x ≤ 1) chalcogenide thin films**
ÜNLÜ B. A., KARATAY A., YÜKSEK M., ÜNVER H., HASANLI N., ELMALI A.
OPTICS AND LASER TECHNOLOGY, vol.128, 2020 (SCI-Expanded)
- L.IX. **Long-Lived Triplet Excited State Accessed with Spin-Orbit Charge Transfer Intersystem Crossing in Red Light-Absorbing Phenoxazine-Styryl BODIPY Electron Donor/Acceptor Dyads**
Dong Y., ELMALI A., Zhao J., Dick B., KARATAY A.
CHEMPHYSICHEM, vol.21, no.13, pp.1388-1401, 2020 (SCI-Expanded)
- L.X. **Nonlinear optical absorption properties of tellurium glasses containing different network modifiers**
Bilir G., YÜKSEK M., KARATAY A., ELMALI A.
JOURNAL OF OPTICS, vol.22, no.7, 2020 (SCI-Expanded)
- L.XI. **Synthesis, spectral, thermal, structural, optical characterization, and Hirshfield surface analysis of N,N'-diethylnicotinamide complexes of Mn(II) and Co(II) 4-cyanobenzoates**
SERTÇELİK M., ÖZBEK F. E., YÜKSEK M., ELMALI A., Aydogdu O., NECEFOĞLU H., HÖKELEK T.
CHEMICAL PAPERS, vol.74, no.6, pp.2021-2033, 2020 (SCI-Expanded)
- L.XII. **Tuning the energy bandgap and nonlinear absorption coefficients of CdO nanocomposite films with doping and annealing process**
PEPE Y., KARATAY A., DONAR Y. O., SINAĞ A., ÜNVER H., ELMALI A.
OPTICAL MATERIALS, vol.103, 2020 (SCI-Expanded)
- L.XIII. **The synthesis of -1,-3,-5,-7,-8 aryl substituted boron-dipyrromethene chromophores: Nonlinear**

optical and photophysical characterization

SEVİNÇ G., KUCUKOZ B., ELMALI A., HAYVALI M.

JOURNAL OF MOLECULAR STRUCTURE, vol.1206, 2020 (SCI-Expanded)

- LXIV. **Charge separation, recombination and intersystem crossing of directly connected perylenemonoimide-carbazole electron donor/acceptor dyads**
Zhang X., ELMALI A., Duan R., Liu Q., Ji W., Zhao J., Li C., KARATAY A.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.22, no.11, pp.6376-6390, 2020 (SCI-Expanded)
- LXV. **Thermal annealing and dopant dependence of nonlinear absorption characteristics in ZnO Nanoparticle/PMMA films**
PEPE Y., KARATAY A., DONAR Y. O., Bilge S., ELMALI A., SINAĞ A.
OPTICAL MATERIALS, 2020 (SCI-Expanded)
- LXVI. **Electronic coupling and spin-orbit charge transfer intersystem crossing (SOCT-ISC) in compact BDP-carbazole dyads with different mutual orientations of the electron donor and acceptor**
Hou Y., Kurganskii I., ELMALI A., Zhang H., Gao Y., Lv L., Zhao J., KARATAY A., Luo L., Fedin M.
JOURNAL OF CHEMICAL PHYSICS, vol.152, no.11, 2020 (SCI-Expanded)
- LXVII. **The effect of doping and annealing on the nonlinear absorption characteristics in hydrothermally grown Al doped ZnO thin films**
PEPE Y., YILDIRIM M. A., KARATAY A., ATEŞ A., ÜNVER H., ELMALI A.
OPTICAL MATERIALS, vol.98, 2019 (SCI-Expanded)
- LXVIII. **Synthesis, Crystal Structure, Anion Sensing Applications and DFT Studies of (E)-2-[(3,5-Bis(trifluoromethyl)phenylimino)methyl]-4-chlorophenol**
ÜNVER H., Zeyrek C. T., BOYACIOĞLU B., YILDIZ M., DEMİR N., ELMALI A.
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.49, no.4, pp.232-244, 2019 (SCI-Expanded)
- LXIX. **Molecular simulation of Pccel45A protein expressed from Aspergillus nidulans to understand its structure, dynamics, and thermostability**
ÜNAL M. A., BOYACIOĞLU B., ÜNVER H., ELMALI A.
JOURNAL OF MOLECULAR MODELING, vol.25, no.11, 2019 (SCI-Expanded)
- LXX. **Spin-Orbit Charge-Transfer Intersystem Crossing (SOCT-ISC) in Bodipy-Phenoxazine Dyads: Effect of Chromophore Orientation and Conformation Restriction on the Photophysical Properties**
Dong Y., Sukhanov A. A., Zhao J., ELMALI A., Li X., Dick B., KARATAY A., Voronkova V. K.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.123, no.37, pp.22793-22811, 2019 (SCI-Expanded)
- LXXI. **Study of the Spin-Orbit Charge Transfer Intersystem Crossing of Perylenemonoimide-Phenothiazine Compact Electron Donor/Acceptor Dyads with Steady-State and Time-Resolved Optical and Magnetic Spectroscopies**
Zhao Y., Sukhanov A. A., Duan R., ELMALI A., Hou Y., Zhao J., Gurzadyan G. G., KARATAY A., Voronkova V. K., Li C.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.123, no.30, pp.18270-18282, 2019 (SCI-Expanded)
- LXXII. **Linear and nonlinear absorption, SHG and photobleaching behaviors of Dy doped GaSe single crystal**
Ertap H., YÜKSEK M., KARATAY A., ELMALI A., KARABULUT M.
CHINESE JOURNAL OF PHYSICS, vol.59, pp.465-472, 2019 (SCI-Expanded)
- LXXIII. **Enhancing of the nonlinear absorption and optical limiting performances of the phthalocyanine thin films by adding of the single walled carbon nanotubes in poly(methyl methacrylate) host**
YÜKSEK M., ÇELENK KAYA E., Karabulutlu N., Kaya A. A., KARABULUT M., ELMALI A.
OPTICAL MATERIALS, vol.91, pp.326-332, 2019 (SCI-Expanded)
- LXXIV. **Two new potential optical materials: Co(II) and Ni(II) 3-fluorobenzoate complexes with pyridine-3-carboxamide**
ÖZBEK F. E., SERTÇELİK M., YÜKSEK M., Kucukoz B., ELMALI A., ŞAHİN E.
JOURNAL OF COORDINATION CHEMISTRY, vol.72, no.5-7, pp.786-795, 2019 (SCI-Expanded)
- LXXV. **Investigation of ultrafast energy transfer mechanism in BODIPY-Porphyrin dyad system**
Dumanogullari F. M., Tutel Y., Kucukoz B., SEVİNÇ G., KARATAY A., Yilmaz H., HAYVALI M., ELMALI A.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.373, pp.116-121, 2019 (SCI-Expanded)
- LXXVI. **Electron/energy transfer studies on hybrid materials based on dinuclear coordination compounds**

of twisted perylene diimide

Buyukeksi S. I., KARATAY A., AÇAR SELÇUKİ N., Kucukoz B., ELMALI A., ŞENGÜL A.

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.372, pp.226-234, 2019 (SCI-Expanded)

LXXXVII. Electronic Coupling and Spin-Orbit Charge-Transfer Intersystem Crossing in Phenothiazine-Perylene Compact Electron Donor/ Acceptor Dyads

Imran M., Sukhanov A. A., Wang Z., KARATAY A., Zhao J., Mahmood Z., ELMALI A., Voronkova V. K., HAYVALI M., Xing Y. H., et al.

JOURNAL OF PHYSICAL CHEMISTRY C, vol.123, no.12, pp.7010-7024, 2019 (SCI-Expanded)

LXXXVIII. Effect of Molecular Conformation Restriction on the Photophysical Properties of N N Platinum(II) Bis(ethynynaphthalimide) Complexes Showing Close-Lying (MLCT)-M-3 and (LE)-L-3 Excited States

Zhong F., Zhao J., HAYVALI M., ELMALI A., KARATAY A.

INORGANIC CHEMISTRY, vol.58, no.3, pp.1850-1861, 2019 (SCI-Expanded)

LXXXIX. Controlling the nonlinear absorption characteristics of TiO₂/carbon nanocomposites on films

KARATAY A., DONAR Y. O., SINAĞ A., ELMALI A.

OPTICS AND LASER TECHNOLOGY, vol.108, pp.510-514, 2018 (SCI-Expanded)

LXXX. Experimental, DFT Calculation, Biological Activity, Anion Sensing Application Studies and Crystal Structure of (E)-4-[(pyridin-3-ylimino)methyl]benzene-1,3-diol

ÜNVER H., BOYACIOĞLU B., Zeyrek C. T., Yolal D., YILDIZ M., YILDIRIM N., DEMİR N., Kiraz A., ELMALI A.

JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.48, no.1-2, pp.32-46, 2018 (SCI-Expanded)

LXXXI. Syntheses and studies of electron/energy transfer of new dyads based on an unsymmetrical perylene diimide incorporating chelating 1,10-phenanthroline and its corresponding square-planar complexes with dichloroplatinum(II) and dichloropalladium(II)

Buyukeksi S. I., KARATAY A., AÇAR SELÇUKİ N., Kucukoz B., ELMALI A., ŞENGÜL A.

DALTON TRANSACTIONS, vol.47, no.22, pp.7422-7430, 2018 (SCI-Expanded)

LXXXII. Enhancing the blue shift of SHG signal in GaSe:B/Ce crystal

KARATAY A., YÜKSEK M., Ertap H., ELMALI A., KARABULUT M.

OPTICS AND LASER TECHNOLOGY, vol.99, pp.392-395, 2018 (SCI-Expanded)

LXXXIII. The effect of Se/Te ratio on transient absorption behavior and nonlinear absorption properties of CuIn_{0.7}Ga_{0.3}(Se_{1-x}Tex)₂ (0 ≤ x ≤ 1) amorphous semiconductor thin films

KARATAY A., Kucukoz B., ÇANKAYA G., ATEŞ A., ELMALI A.

OPTICAL MATERIALS, vol.73, pp.20-24, 2017 (SCI-Expanded)

LXXXIV. Size and structure dependent ultrafast dynamics of plasmonic gold nanosphere heterostructures on poly (ethylene glycol) brushes

KARATAY A., Kucukoz B., PEKDEMİR S., ÖNSES M. S., ELMALI A.

OPTICAL MATERIALS, vol.73, pp.83-88, 2017 (SCI-Expanded)

LXXXV. Fabrication of Plasmonically Active Substrates Using Engineered Silver Nanostructures for SERS Applications

ŞAKİR M., PEKDEMİR S., KARATAY A., Kucukoz B., Ipekci H. H., ELMALI A., DEMİREL G., ÖNSES M. S.

ACS APPLIED MATERIALS & INTERFACES, vol.9, no.45, pp.39795-39803, 2017 (SCI-Expanded)

LXXXVI. Spectroscopic, quantum mechanical and molecular docking studies of a new benzoxazole compound with an oxidoreductase enzyme and DNA

Zeyrek C. T., BOYACIOĞLU B., ARPACI Ö., ÜNVER H., ELMALI A.

JOURNAL OF MOLECULAR STRUCTURE, vol.1136, pp.112-126, 2017 (SCI-Expanded)

LXXXVII. Frequency conversion, nonlinear absorption and carrier dynamics of GaSe:B/Er crystals

YÜKSEK M., KARATAY A., Ertap H., ELMALI A., KARABULUT M.

OPTICAL MATERIALS, vol.66, pp.137-141, 2017 (SCI-Expanded)

LXXXVIII. Synthesis, spectral and quantum chemical studies and use of (E)-3-[(3,5-bis(trifluoromethyl)phenylimino)methyl]benzene-1,2-diol and its Ni(II) and Cu(II) complexes as an anion sensor, DNA binding, DNA cleavage, anti-microbial, anti-mutagenic and anti-cancer agent

ÜNVER H., BOYACIOĞLU B., Zeyrek C. T., YILDIZ M., DEMİR N., Yildirim N., Karaosmanoglu O., Sivas H., ELMALI A.

JOURNAL OF MOLECULAR STRUCTURE, vol.1125, pp.162-176, 2016 (SCI-Expanded)

- LXXXIX. **Synthesis, characterization, and evaluation of (E)-methyl 2-((2-oxonaphthalen-1(2H)-ylidene)methylamino)acetate as a biological agent and an anion sensor**
Zeyrek C. T., BOYACIOĞLU B., YILDIZ M., Unver H., Yolal D., DEMİR N., ELMALI A., Tadesse S., Aslan K.
BIOORGANIC & MEDICINAL CHEMISTRY, vol.24, no.21, pp.5592-5601, 2016 (SCI-Expanded)
- XC. **Influence of boron concentration on nonlinear absorption and ultrafast dynamics in GaSe crystals**
KARATAY A., YÜKSEK M., Ertap H., Mak A. K., KARABULUT M., ELMALI A.
OPTICAL MATERIALS, vol.60, pp.74-80, 2016 (SCI-Expanded)
- XC1. **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)
- XCII. **Near-IR Broadband-Absorbing trans-Bisphosphine Pt(II) Bisacetylde Complexes: Preparation and Study of the Photophysics**
Yang W., KARATAY A., Zhao J., Song J., Zhao L., Xing Y., Zhang C., He C., YAĞLIOĞLU H. G., HAYVALI M., et al.
INORGANIC CHEMISTRY, vol.54, no.15, pp.7492-7505, 2015 (SCI-Expanded)
- XCIII. **Broad-Band N Pt(II) Bisacetylde Visible Light Harvesting Complex with Heteroleptic Bodipy Acetylde Ligands**
Zhong F., KARATAY A., Zhao L., Zhao J., He C., Zhang C., YAĞLIOĞLU H. G., ELMALI A., Kucukoz B., HAYVALI M.
INORGANIC CHEMISTRY, vol.54, no.16, pp.7803-7817, 2015 (SCI-Expanded)
- XCIV. **DiiodoBodipy-Perylenebisimide Dyad/Triad: Preparation and Study of the Intramolecular and Intermolecular Electron/Energy Transfer**
Mahmood Z., Xu K., Kucukoz B., Cui X., Zhao J., Wang Z., KARATAY A., YAĞLIOĞLU H. G., HAYVALI M., ELMALI A.
JOURNAL OF ORGANIC CHEMISTRY, vol.80, no.6, pp.3036-3049, 2015 (SCI-Expanded)
- XCv. **Bodipy-C-60 triple hydrogen bonding assemblies as heavy atom-free triplet photosensitizers: preparation and study of the singlet/triplet energy transfer**
Guo S., Xu L., Xu K., Zhao J., Kucukoz B., KARATAY A., YAĞLIOĞLU H. G., HAYVALI M., ELMALI A.
CHEMICAL SCIENCE, vol.6, no.7, pp.3724-3737, 2015 (SCI-Expanded)
- XCvI. **Excited state dynamics of nanocrystalline VO₂ with white light continuum time resolved spectroscopy**
Kurum U., YAĞLIOĞLU H. G., Kucukoz B., ÖKSÜZOĞLU R. M., Yildirim M., Yagci A. M., PEKDEMİR S., ELMALI A.
OPTICS COMMUNICATIONS, vol.333, pp.109-114, 2014 (SCI-Expanded)
- XCvII. **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)
- XCvIII. **Explanation of pH probe mechanism in borondipyrromethene-benzimidazole compound using ultrafast spectroscopy technique**
Sevinc G., Kucukoz B., Yilmaz H., Sirikci G., YAĞLIOĞLU H. G., HAYVALI M., ELMALI A.
SENSORS AND ACTUATORS B-CHEMICAL, vol.193, pp.737-744, 2014 (SCI-Expanded)
- XCIX. **Nonlinear and saturable absorption characteristics of Ho doped InSe crystals**
YÜKSEK M., YAĞLIOĞLU H. G., ELMALI A., Aydin E. M., Kurum U., ATEŞ A.
OPTICS COMMUNICATIONS, vol.310, pp.100-103, 2014 (SCI-Expanded)
- C. **trans-Bis(alkylphosphine) platinum(II)-alkynyl complexes showing broadband visible light absorption and long-lived triplet excited states**
Jia H., Kucukoz B., Xing Y., Majumdar P., Zhang C., KARATAY A., YAĞLIOĞLU H. G., ELMALI A., Zhao J., HAYVALI M.
JOURNAL OF MATERIALS CHEMISTRY C, vol.2, no.45, pp.9720-9736, 2014 (SCI-Expanded)
- CI. **BODIPY triads triplet photosensitizers enhanced with intramolecular resonance energy transfer (RET): broadband visible light absorption and application in photooxidation**
Guo S., Ma L., Zhao J., Kucukoz B., KARATAY A., HAYVALI M., YAĞLIOĞLU H. G., ELMALI A.
CHEMICAL SCIENCE, vol.5, no.2, pp.489-500, 2014 (SCI-Expanded)
- CII. **Resonance energy transfer-enhanced rhodamine-styryl Bodipy dyad triplet photosensitizers**

Ma J., Yuan X., Kucukoz B., Li S., Zhang C., Majumdar P., KARATAY A., Li X., YAĞLIOĞLU H. G., ELMALI A., et al.
JOURNAL OF MATERIALS CHEMISTRY C, vol.2, no.20, pp.3900-3913, 2014 (SCI-Expanded)

- CIII. **The effect of charge transfer on the ultrafast and two-photon absorption properties of newly synthesized boron-dipyrromethene compounds**
Yilmaz H., Kucukoz B., Sevinc G., Tekin S., YAĞLIOĞLU H. G., HAYVALI M., ELMALI A.
DYES AND PIGMENTS, vol.99, no.3, pp.979-985, 2013 (SCI-Expanded)
- CIV. **Attractive versus Repulsive Excitonic Interactions of Colloidal Quantum Dots Control Blue- to Red-Shifting (and Non-shifting) Amplified Spontaneous Emission**
Cihan A. F., Kelestemur Y., Guzelturk B., Yerli O., Kurum U., YAĞLIOĞLU H. G., ELMALI A., DEMİR H. V.
JOURNAL OF PHYSICAL CHEMISTRY LETTERS, vol.4, no.23, pp.4146-4152, 2013 (SCI-Expanded)
- CV. **Enhancement of two photon absorption properties by charge transfer in newly synthesized aza-boron-dipyrromethene compounds containing triphenylamine, 4-ethynyl-N,N-dimethylaniline and methoxy moieties**
Tekin S., Kucukoz B., Yilmaz H., Sevinc G., HAYVALI M., YAĞLIOĞLU H. G., ELMALI A.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.256, pp.23-28, 2013 (SCI-Expanded)
- CVI. **The effect of aggregation on the nonlinear optical absorption performance of indium and gallium phthalocyanines in a solution and co-polymer host**
Tekin S., YAĞLIOĞLU H. G., ELMALI A., Kurum U., Yanik H., Tekdas D. A., DURMUŞ M., AHSEN V.
MATERIALS CHEMISTRY AND PHYSICS, vol.138, no.1, pp.270-276, 2013 (SCI-Expanded)
- CVII. **The effect of film thickness, Se/S ratio and annealing temperature on the nonlinear absorption behaviors in amorphous GaSexS1-x (0 ≤ x ≤ 1) thin films**
Isik P., KARATAY A., YAĞLIOĞLU H. G., ELMALI A., Kurum U., ATEŞ A., HASANLI N.
OPTICS COMMUNICATIONS, vol.288, pp.107-113, 2013 (SCI-Expanded)
- CVIII. **Synthesis, optical properties and ultrafast dynamics of aza-boron-dipyrromethene compounds containing methoxy and hydroxy groups and two-photon absorption cross-section**
Kucukoz B., HAYVALI M., Yilmaz H., Uguz B., Kurum U., YAĞLIOĞLU H. G., ELMALI A.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.247, pp.24-29, 2012 (SCI-Expanded)
- CIX. **Two photon absorption characteristics of bulk GaTe crystal**
YÜKSEK M., Ertap H., ELMALI A., YAĞLIOĞLU H. G., Mamedov G. M., KARABULUT M., Ozturk M. K.
OPTICS AND LASER TECHNOLOGY, vol.44, no.7, pp.2178-2181, 2012 (SCI-Expanded)
- CX. **Thickness-dependent nonlinear absorption behaviors in polycrystalline ZnSe thin films**
KARATAY A., YAĞLIOĞLU H. G., ELMALI A., PARLAK M., Karaagac H.
OPTICS COMMUNICATIONS, vol.285, no.6, pp.1471-1475, 2012 (SCI-Expanded)
- CXI. **Encapsulation of a zinc phthalocyanine derivative in self-assembled peptide nanofibers**
Garifullin R., Erkal T. S., Tekin S., ORTAÇ B., GÜREK A. G., AHSEN V., YAĞLIOĞLU H. G., ELMALI A., GÜLER M. Ö.
JOURNAL OF MATERIALS CHEMISTRY, vol.22, no.6, pp.2553-2559, 2012 (SCI-Expanded)
- CXII. **Crystallization of Ge in SiO₂ matrix by femtosecond laser processing**
Salihoglu O., Kurum U., YAĞLIOĞLU H. G., ELMALI A., AYDINLI A.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, vol.30, no.1, 2012 (SCI-Expanded)
- CXIII. **Optical limiting properties of trimeric metallo-phthalocyanines/polymer composite films**
Ozdag M. A., Ceyhan T., YAĞLIOĞLU H. G., ELMALI A., Bekaroglu O.
OPTICS AND LASER TECHNOLOGY, vol.43, no.6, pp.992-995, 2011 (SCI-Expanded)
- CXIV. **The third order nonlinear optical characteristics of amorphous vanadium oxide thin film**
Kurum U., Oksuzoglu R. M., Yuksek M., YAĞLIOĞLU H. G., Cinar H., ELMALI A.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.104, no.4, pp.1025-1030, 2011 (SCI-Expanded)
- CXV. **The nonlinear and saturable absorption characteristics of Ga_{0.90}In_{0.10}Se and Ga_{0.85}In_{0.15}Se semiconductor crystals and their amorphous thin films**
KARATAY A., Aksoy C., YAĞLIOĞLU H. G., ELMALI A., Kurum U., ATEŞ A., HASANLI N.
JOURNAL OF OPTICS, vol.13, no.7, 2011 (SCI-Expanded)
- CXVI. **Femtosecond laser crystallization of amorphous Ge**
Salihoglu O., Kurum U., YAĞLIOĞLU H. G., ELMALI A., AYDINLI A.

JOURNAL OF APPLIED PHYSICS, vol.109, no.12, 2011 (SCI-Expanded)

- CXVII. **Electrochemically tunable ultrafast optical response of graphene oxide**
Kurum U., Ekiz O. O., YAĞLIOĞLU H. G., ELMALI A., Urel M., Guner H., Mizrak A. K., ORTAÇ B., DANA A.
APPLIED PHYSICS LETTERS, vol.98, no.14, 2011 (SCI-Expanded)
- CXVIII. **Synthesis and X-ray crystal structure determination of N-p-methylphenyl-4-benzoyl-3,4-diphenyl-2-azetidinone**
KABAK M., ŞENÖZ H., ELMALI A., Adar V., Svoboda I., Dusek M., Fejfarova K.
CRYSTALLOGRAPHY REPORTS, vol.55, no.7, pp.1220-1222, 2010 (SCI-Expanded)
- CXIX. **Optical limiting properties of zinc phthalocyanines in solution and solid PMMA composite films**
Tekin S., Kurum U., DURMUŞ M., YAĞLIOĞLU H. G., Nyokong T., ELMALI A.
OPTICS COMMUNICATIONS, vol.283, no.23, pp.4749-4753, 2010 (SCI-Expanded)
- CXX. **The effect of thickness and/or doping on the nonlinear and saturable absorption behaviors in amorphous GaSe thin films**
Kurum U., Yuksek M., YAĞLIOĞLU H. G., ELMALI A., Ates A., KARABULUT M., Mamedov G. M.
JOURNAL OF APPLIED PHYSICS, vol.108, no.6, 2010 (SCI-Expanded)
- CXXI. **Nonlinear and saturable absorption characteristics of amorphous InSe thin films**
Yukse M., Kurum U., YAĞLIOĞLU H. G., ELMALI A., Ates A.
JOURNAL OF APPLIED PHYSICS, vol.107, no.3, 2010 (SCI-Expanded)
- CXXII. **Strong optical limiting property of a ball-type supramolecular zinc-phthalocyanine in polymer-phthalocyanine composite film**
Özdağ M. A., Ceyhan T., ÜNVER H., ELMALI A., Bekaroğlu Ö.
Optics Communications, vol.283, no.2, pp.330-334, 2010 (SCI-Expanded)
- CXXIII. **Good optical limiting performance of indium and gallium phthalocyanines in a solution and co-polymer host**
Yukse M., ELMALI A., DURMUŞ M., YAĞLIOĞLU H. G., Ünver H., Nyokong T.
JOURNAL OF OPTICS, vol.12, no.1, 2010 (SCI-Expanded)
- CXXIV. **Nonlinear absorption in undoped and Ge doped layered GaSe semiconductor crystals**
Yüksek M., ELMALI A., Karabulut M., Mamedov G.
Applied Physics B: Lasers and Optics, vol.98, no.1, pp.77-81, 2010 (SCI-Expanded)
- CXXV. **Optical limiting response by embedding copper phthalocyanine into polymer host**
Kürüm U., Ceyhan T., ELMALI A., Bekaroğlu Ö.
Optics Communications, vol.282, no.12, pp.2426-2430, 2009 (SCI-Expanded)
- CXXVI. **Synthesis, Characterization, Electrochemical, and Optic Limiting Properties of Novel Co-II, Cu-II, and Double-Decker Lu-III Phthalocyanines**
SAYDAM S., Yilmaz E., BAĞCI F., YAĞLIOĞLU H. G., ELMALI A., SALİH B., Bekaroglu O.
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, no.14, pp.2096-2103, 2009 (SCI-Expanded)
- CXXVII. **Synthesis, Cytotoxicity, and DNA Interactions of New Cisplatin Analogues Containing Substituted Benzimidazole Ligands**
Gumus F., EREN G., AÇIK L., ÇELEBİ KESKİN A., Ozturk F., Yilmaz S., Sagkan R. I., Gur S., ÖZKUL A., ELMALI A., et al.
JOURNAL OF MEDICINAL CHEMISTRY, vol.52, no.5, pp.1345-1357, 2009 (SCI-Expanded)
- CXXVIII. **Spectroscopic Study and Third-order Nonlinear Optical Behavior of N-(2-Hydroxy-4-methoxybenzylidene)-3-nitroaniline.**
ÜNVER H., KARAKAŞ A., ELMALI A., Durlu T. N.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.65, 2009 (SCI-Expanded)
- CXXIX. **Switching from negative to positive nonlinear absorption in p type 0.5 at% Sn doped GaSe semiconductor crystal**
Yüksek M., ELMALI A., Karabulut M., Mamedov G.
Optical Materials, vol.31, no.11, pp.1663-1666, 2009 (SCI-Expanded)
- CXXX. **Structure, Spectroscopic Study and ab initio Calculations on Third-order Nonlinear Optical Behavior of N-(2-Hydroxy-4-methoxybenzylidene)-3-nitroaniline**
ÜNVER H., KARAKAŞ A., ELMALI A., Durlu T. N.

ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.63, no.11, pp.1315-1320, 2008 (SCI-Expanded)

- CXXXI. **The nonlinear refraction and absorption dependence on the thermal effect for 4 ns pulse duration in binuclear Zn(II) phthalocyanine solution**
Yukse M., Ceyhan T., BAĞCI F., Yalioğlu H. G., ELMALI A., Bekaroglu O.
OPTICS COMMUNICATIONS, vol.281, no.14, pp.3897-3901, 2008 (SCI-Expanded)
- CXXXII. **Trimeric metallo-phthalocyanines with good performances for nanosecond optical limiting in solution**
Yukse M., Ceyhan T., YAĞLIOĞLU H. G., ELMALI A., Bekaroglu O.
OPTICS COMMUNICATIONS, vol.281, no.10, pp.2970-2974, 2008 (SCI-Expanded)
- CXXXIII. **Synthesis, structure, linear and third-order nonlinear optical behavior of N-(3-hydroxybenzalidene)4-bromoaniline**
KARAKAŞ A., Ünver H., ELMALI A.
JOURNAL OF MOLECULAR STRUCTURE, vol.877, no.1-3, pp.152-157, 2008 (SCI-Expanded)
- CXXXIV. **Magnetic hardening of high-energy ball-milled nanocrystalline LaMn₂Si₂**
ELMALI A., Tekerek S., Dincer I., Elerman Y., Theissmann R., Ehrenberg H., Fuess H.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.320, no.3-4, pp.364-367, 2008 (SCI-Expanded)
- CXXXV. **Synthesis, characterization and optical limiting properties of novel ball-type four tert-butylcalix[4]arene bridged double-decker lutetium(III) and indium(III) phthalocyanines**
Ceyhan T., YAĞLIOĞLU H. G., ÜNVER H., SALİH B., Erbil M. K., ELMALI A., Bekaroglu Ö.
Macroheterocycles, vol.1, no.1, pp.44-49, 2008 (SCI-Expanded)
- CXXXVI. **The nonlinear refraction and nonlinear absorption in 4-(4,6-diaminopyrimidin-2-ylthio) substituted double-decker Lu(III) phthalocyanine**
YAĞLIOĞLU H. G., Arslan M., ABDURRAHMANOĞLU Ş., ÜNVER H., ELMALI A., Bekaroglu O.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.69, no.1, pp.161-167, 2008 (SCI-Expanded)
- CXXXVII. **Synthesis, characterization and nonlinear absorption of novel octakis-POSS substituted metallophthalocyanines and strong optical limiting property of CuPc**
Ceyhan T., Yukse M., Yaghoglu H. G., SALİH B., Erbil M. K., ELMALI A., Bekaroglu O.
DALTON TRANSACTIONS, no.18, pp.2407-2413, 2008 (SCI-Expanded)
- CXXXVIII. **Crystal structure and nonlinear optical properties of n-(3-hydroxybenzalidene)4-bromoaniline**
ÜNVER H., KARAKAŞ A., ELMALI A.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.64, 2008 (SCI-Expanded)
- CXXXIX. **Crystal structure and nonlinear optical behavior of N-(2 or 3-nitrobenzalidene)2,4-dimethylaniline**
ELMALI A., KARAKAŞ A., ÜNVER H.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.64, 2008 (SCI-Expanded)
- CXL. **Third-order nonlinear optic and optical limiting properties of a MN(III) transition metal complex**
KARAKAŞ A., ELMALI A., Yahsi Y., KARA SUBAŞAT H.
JOURNAL OF NONLINEAR OPTICAL PHYSICS & MATERIALS, vol.16, no.4, pp.505-518, 2007 (SCI-Expanded)
- CXLI. **Third-order nonlinear optical properties and crystal structures of N-(2-nitrobenzalidene)-2,4-dimethylaniline and N-(3-nitrobenzalidene)2,4-dimethylaniline**
Karakas A., Ünver H., Elmali A.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.62, no.11, pp.1437-1442, 2007 (SCI-Expanded)
- CXLII. **Linear optical transmission measurements and computational study of linear polarizabilities, first hyperpolarizabilities of a dinuclear iron(III) complex**
Karakas A., Elmali A., Ünver H.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.68, no.3, pp.567-572, 2007 (SCI-Expanded)
- CXLIII. **Synthesis, crystal structure, spectroscopic studies and Ab-initio calculations on third-order optical nonlinearity of a five-coordinate chloroiron(III) complex**
Karakas A., Donmez E., Kara H., Elmali A.

- JOURNAL OF NONLINEAR OPTICAL PHYSICS & MATERIALS, vol.16, no.3, pp.329-341, 2007 (SCI-Expanded)
- CXLIV. **Theoretical studies on linear and nonlinear optical characterization and optical limiting property of Pb(II), In(III) chloride, Ni(II) metallated 1,4,8,11,15,18,22,25-octaalkylphthalocyanines**
Karakas A., Elmalı A.
JOURNAL OF NONLINEAR OPTICAL PHYSICS & MATERIALS, vol.16, no.2, pp.247-254, 2007 (SCI-Expanded)
- CXLV. **Synthesis, molecular structure, spectroscopic studies and second-order nonlinear optical behaviour of N,N'-(2-hydroxy-propane-1,3-diyl)-bis (5-nitrosalicylaldiminato-N,O)-copper(II)**
Donmez E., Kara H., Karakas A., Unver H., Elmalı A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.66, no.4-5, pp.1141-1146, 2007 (SCI-Expanded)
- CXLVI. **Coexistence of the canted ferromagnetism and canted antiferromagnetism in La_{0.6}Pr_{0.4}Mn₂Si₂**
Elerman Y., Dincer I., Ehrenberg H., Fuess H., Andre G., ELMALI A.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.63, 2007 (SCI-Expanded)
- CXLVII. **Investigation of LaMn₂-xFexSi₂ (0 ≤ x ≤ 1.2) by magnetic measurements and neutron diffraction**
DİNÇER İ., ELMALI A., Elerman Y., Ehrenberg H., Fuess H., Daoud-Aladine A.
Journal of Alloys and Compounds, vol.403, no.1-2, pp.53-64, 2005 (SCI-Expanded)
- CXLVIII. **Magnetic study of intermetallic Ce_{1-x}Tb_xMn₂Ge₂ (0 ≤ x ≤ 1) compounds**
ÇAKIR O., DİNÇER İ., ELMALI A., DUMAN E., Elerman Y.
Journal of Magnetism and Magnetic Materials, vol.295, no.3, pp.235-240, 2005 (SCI-Expanded)
- CXLIX. **Magnetic Study of Intermetallic Ce_{1-x}Tb_xMn₂Ge₂ (0 ≤ x ≤ 1) Compounds**
Cakir O., Dincer I., ELMALI A., Duman E., Elerman Y.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.61, 2005 (SCI-Expanded)
- CL. **Magnetic Transitions in ErCo₁₀Mo₂-xM_x (M=Si and V)**
Yucel A., ELMALI A., Cakmak D., Elerman Y.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.61, 2005 (SCI-Expanded)
- CLI. **Investigation of LaMn₂-xFexSi₂ (0 ≤ x ≤ 1.2) by Magnetic Measurements and Neutron Diffraction**
Elerman Y., ELMALI A., Dincer I., Ehrenberg H., Fuess H., Daoud-Aladine A.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.61, 2005 (SCI-Expanded)
- CLII. **Magnetic properties of NdMn₂-xCuxGe₂ compounds**
Elerman Y., ELMALI A., DİNÇER İ.
Journal of Alloys and Compounds, vol.364, no.1-2, pp.72-76, 2004 (SCI-Expanded)
- CLIII. **Magnetic properties of Pr_{1-x}GdxMn₂Ge₂**
Elerman Y., DİNÇER İ., ELMALI A., Ehrenberg H., Fuess H., DUMAN E., Acet M.
Journal of Physics Condensed Matter, vol.16, no.3, pp.405-414, 2004 (SCI-Expanded)
- CLIV. **Crystal structure and magnetic properties of a novel CuIInd III heterodinuclear schiff base complex**
ELMALI A., Elerman Y.
Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences, vol.59, no.5, pp.530-534, 2004 (SCI-Expanded)
- CLV. **Magnetic properties and crystal structure of a CuIIGd III heterodinuclear Schiff base complex**
ELMALI A., Elerman Y.
Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences, vol.59, no.5, pp.535-540, 2004 (SCI-Expanded)
- CLVI. **Crystal structure and magnetic properties of a CeIII-Cu II heterodinuclear complex**
ELMALI A., Elerman Y.
Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences, vol.58, no.7, pp.639-643, 2003 (SCI-Expanded)
- CLVII. **Magnetic Super-Exchange Mechanism and Crystal Structure of a Binuclear μ-Acetato-Bridged Copper(II) Complex of Pentadentate Binucleating Ligand. An Influence of Overlap Interactions to Magnetic Properties**
Kavlakoglu E., ELMALI A., Elerman Y.

Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences, vol.57, no.3, pp.223-230, 2002 (SCI-Expanded)

- CLVIII. **The magnetic super-exchange coupling in copper(II) acetate monohydrate and a redetermination of the crystal structure**

ELMALI A.

Turkish Journal of Physics, vol.24, no.5, pp.667-672, 2000 (SCI-Expanded)

- CLIX. **The Influence of Solvents on Formation of the Molecular Geometry of [Fe(salphen)]₂O**

KABAK M., ELMALI A.

Turkish Journal of Physics, vol.22, no.8, pp.797-801, 1998 (SCI-Expanded)

- CLX. **Redetermination of the crystal structure of bis(salicylaldehydato) copper(II), (C₇H₅O₂)₂Cu**

ELMALI A., Elerman Y., Svoboda I., Fuess H.

Zeitschrift fur Kristallographie - New Crystal Structures, vol.210, no.8, pp.612, 1995 (SCI-Expanded)

- CLXI. **Crystal structure of μ -oxo-bis-[N,N'-o-phenylenebis(salicylaldiminato)iron(III)] dioxane solvate, (C₆H₄(OC₆H₄NCH)₂Fe)₂O(C₄H₈O₂)**

ELMALI A., ATAOL O., Svoboda I., Fuess H.

Zeitschrift fur Kristallographie - New Crystal Structures, vol.203, no.Part-2, pp.275-278, 1993 (SCI-Expanded)

- CLXII. **Crystal structure of N-(2-hydroxyphenyl)-salicylaldiminato-pyridine-copper(II), (O(C₆H₄)CHN(C₆H₄)O(NC₅H₅)Cu)**

ELMALI A., ATAOL O., Svoboda I., Fuess H.

Zeitschrift fur Kristallographie - New Crystal Structures, vol.205, no.Part-1, pp.146-148, 1993 (SCI-Expanded)

- CLXIII. **Crystal structure of μ -(N,N'-1,3-propyl-disalicyl-aldiminato)-bis(N,N'-1,3-propyl-disalicylaldiminato)-di-iron(III) ethanol solvate, (OC₆H₄CHN)₂C₃H₆(Fe(OC₆H₄CHN)₂C₃H₆)₂(C₂H₅OH)**

ELMALI A., ATAOL O., Svoboda I., Fuess H.

Zeitschrift fur Kristallographie - New Crystal Structures, vol.203, no.Part-2, pp.271-274, 1993 (SCI-Expanded)

- CLXIV. **Crystal structure of bis[chloro[1-[(2-hydroxyphenyl)-iminomethyl]naphthalen-2-olato-O,O',N]]iron(III), (ClO(C₁₀H₆)CHN(C₆H₄)OFe)₂**

ELMALI A., ATAOL O., Svoboda I., Fuess H.

Zeitschrift fur Kristallographie - New Crystal Structures, vol.202, no.3-4, pp.323-325, 1992 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- 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**

YILDIZ E., PEPE Y., ERDENER ÇIRALI D., TEKİN S., KARATAY A., BOYACIOĞLU B., ÜNVER H., YAPAR G., YILDIZ M., ELMALI A.

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

- II. **Nonliner Optical Properties of Tellurite-Based Glasses**

BİLİR G., YÜKSEK M., ELMALI A., KARATAY A.

ICRES 2019-International Conference on Research in Education and Science, İzmir, Turkey, 28 April - 01 May 2019, vol.6, pp.131-134

- III. **NONLINEAR OPTICAL PROPERTIES OF TELLURITEGLASSES MODIFIED WITH DIFFERENT AMOUNTAND TYPE OF NETWORK MODIFIERS**

BİLİR G., YÜKSEK M., KARATAY A., ELMALI A.

TFD34-turkish physical society 34th international physics congress, 5 - 09 September 2018

- IV. **Synthesis and application of a colormetric sensor based on polyethyleneimine doped graphene quantum dots nanoparticles directed to cations**

BOYACIOĞLU B., ÜNVER H., YILDIZ M., DEMİR N., YILDIRIM N., ELMALI A.

NANO-2018, Kyiv, Ukraine, 27 August 2018

- V. **Preparation and characterization of silver nanoparticles (AgNPs) and their applications as biological**

agent

ÜNVER H., BOYACIOĞLU B., YILDIZ M., DEMİR N., YILDIRIM N., ELMALI A.

NANO-2018, Kyiv, Ukraine, 27 August 2018

- VI. **Cytotoxicity effect of graphene quantum dots-metal nanocomposite on human A549 and MCF-7 cells**
BOYACIOĞLU B., ŞENEL B., BÜYÜKKÖROĞLU G., ÜNVER H., YILDIZ M., DEMİR N., YILDIRIM N., ELMALI A.
NANO-2018, Kyiv, Ukraine, 27 August 2018
- VII. **Structural and Optical Properties of Undoped, Pr and Nd Doped GaSe Single Crystals**
ERTAP H., YÜKSEK M., KARATAY A., ELMALI A., KARABULUT M.
2nd International Congress on Semiconductor Materials Devices 2018 (ICSMD 2018), Ardahan, Turkey, 28 - 30 August 2018
- VIII. **Synthesis of nickel nanoparticles (NiNPs) using 4-aminophenol doped graphene quantum dots GQDs as reducing reagent and stabilizer**
ÜNVER H., BOYACIOĞLU B., YILDIZ M., DEMİR N., YILDIRIM N., ELMALI A.
NANO-2018, Kyiv, Ukraine, 27 August 2018
- IX. **Nonlinear and Saturable Absorption Characteristic Of TiO₂/ Nanocomposites in PMMA**
KARATAY A., ELMALI A., DONAR Y. O., SINAĞ A., BİLGE YÜCEL S.
Nanotechnology And Nanomaterials (nano-2018 Ukrayna/Kiev), Kiev, Ukraine, 27 - 30 August 2018
- X. **Molecular simulation of Pccel45A protein expressed from Aspergillus Nidulans to understand its structure, dynamics and thermostability**
ÜNAL M. A., BOYACIOĞLU B., ÜNVER H., ELMALI A.
3rd International Conference on Computational Mathematics and Engineering Sciences, Gazimagusa, Cyprus (Kktc), 04 May 2018
- XI. **Optical Absorption and Emission Properties of Cu(II) Complex**
YÜKSEK M., ÖZBEK F. E., SERTÇELİK M., YILDIZ E., ELMALI A., ŞAHİN E., ÇAKMAK İ.
Ümümmillî lider Heydər Əliyevin anadan olmasının 95-ci ildönümünə həsr olunmuş doktorant, magistr və gənc tədqiqatçıların "Kimyanın aktual problemləri" adlı XII Beynəlxalq elmi konfransı, Baku, Azərbaycan, 3 - 04 May 2018, pp.43-46
- XII. **DFT calculation, biological activity, anion sensing application studies and crystal structure of (E)-4-methoxy-2-((4-methylbenzo[d]thiazol-2-ylidino)methyl)phenol**
ÜNVER H., YILDIZ M., YILDIRIM N., ALPASLAN G., BOYACIOĞLU B., ELMALI A.
The Pure and Applied Chemistry International Conference 2018 (PACCON 2018), Bangkok, Thailand, 7 - 09 February 2018
- XIII. **Crystal Structure, Density Functional Modelling and Molecular Docking Studies of tris (N-(2-furylmethyl)-3-methoxy-salicylidenamino)cobalt(III)**
Zeyrek C. T., HAYVALI Z., ÜNVER H., ELMALI A.
International congress on Chemistry and Materials Science, 5 - 07 October 2017
- XIV. **Second Harmonic Generation and Nonlinear Optical Properties of GaSe:B/Er Crystals**
ERTAP H., YÜKSEK M., KARATAY A., ELMALI A., KARABULUT M.
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, Bodrum/Muğla, Turkey, 6 - 10 September 2017
- XV. **Ultrafast energy transfer between excitons and plasmons from weak to ultrastrong coupling regime**
BALCI S., Küçüköz B., BALCI O., KARATAY A., KOCABAŞ C., YAĞLIOĞLU H. G., ELMALI A.
SPIE Optics and Photonics, San Diego, United States Of America, 6 - 10 August 2017
- XVI. **Enhancing of Blue Shift at SHG Signal From B-Doped GaSe by Ce Doping**
YÜKSEK M., KARATAY A., ERTAP H., ELMALI A., KARABULUT M.
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, Bodrum/Muğla, Turkey, 6 - 10 September 2017
- XVII. **DFT Calculation, Anion Sensing Application Studies and Crystal Structure of 3-Aminopyridine-Based Imine Derivative**
BOYACIOĞLU B., ÜNVER H., YILDIZ M., Zeyrek T., ELMALI A.
5rd International research and practice conference "Nanotechnology and Nanomaterials (NANO-2017)", 23 - 26 August 2017
- XVIII. **Synthesis And use of Novel Water-Soluble Polyethyleneimine-Based Schiff bases as an Cation Sensor,**

DNA Binding, DNA Cleavage And Anti-Microbial Agent

YILDIZ M., DEMİR N., ÜNVER H., BOYACIOĞLU B., ELMALI A.

5rd International research and practice conference "Nanotechnology and Nanomaterials (NANO-2017), 23 - 26 August 2017

- XIX. **Synthesis, Quantum Chemical Calculations, Molecular Docking Studies and Anion Sensor Properties of Vanillin Schiff Base**
ÜNVER H., BOYACIOĞLU B., YILDIZ M., Zeyrek T., ELMALI A.
5rd International research and practice conference "Nanotechnology and Nanomaterials (NANO-2017, 23 - 26 August 2017
- XX. **Quantum Chemical and Experimental Studies, Anti-Microbial, Anti-Mutagenic, Dna Binding and Anion Sensors Properties of A Schiff Base Derived From 3,5-Bis(Trifluoromethyl)Aniline With 3,5-Dichlorosalicylaldehyde**
ÜNVER H., YILDIZ M., BOYACIOĞLU B., DEMİR N., YILDIRIM N., Zeyrek T., ELMALI A.
The IIER International Conference, Bucharest, Romania, 24 - 25 February 2017
- XXI. **Theoretical Calculations, Biological Activities, Anion Sensing Applications and Crystallographic Studies of (E)-2-((3,5-Bis (Trifluoromethyl) Phenylimino) Methyl)-4,6-Dimethoxyphenol**
BOYACIOĞLU B., ÜNVER H., YILDIZ M., DEMİR N., YILDIRIM N., Zeyrek C. T., ELMALI A.
The IIER International Conference, Bucharest, Romania, 24 - 25 February 2017
- XXII. **Anion Sensing, Biological Activities, Spectroscopic and Crystallographic Studies of 5-Methylsalicylaldehyde Schiff Base**
YILDIZ M., ÜNVER H., BOYACIOĞLU B., DEMİR N., YILDIRIM N., Zeyrek C. T., ELMALI A.
The IIER International Conference, Bucharest, Romania, 24 - 25 February 2017
- XXIII. **Synthesis, characterization, molecular docking, biological activity, and DFT studies of a new benzoxazole ligand**
Zeyrek C. T., ARPACI Ö., ÜNVER H., BOYACIOĞLU B., ELMALI A.
PACCON 2017 Pure and Applied Chemistry International Conference, 2 - 03 February 2017
- XXIV. **A New Schiff Base Sensor Selective to Anions Its Ni II and Cu II Complexes Inter Actions with DNA Quantum Chemical and Spectral Studies and Use as Anticancer Agent**
YILDIZ M., ÜNVER H., BOYACIOĞLU B., YILDIRIM N., DEMİR N., Zeyrek C. T., ELMALI A.
2nd ITWCCST, 26 - 30 October 2016
- XXV. **A Schiff Base Sensor Selective to Anions Quantum Mechanical Calculation and DNA Binding Studies**
ÜNVER H., BOYACIOĞLU B., YILDIZ M., DEMİR N., YILDIRIM N., Zeyrek C. T., ELMALI A.
2nd ITWCCST, 26 - 30 October 2016
- XXVI. **The Effects of Boron Doping on Frequency Conversion of Semiconducting GaSe Crystals**
YÜKSEK M., KARATAY A., ERTAP H., KARABULUT M., ELMALI A.
2nd International Advanced and Functional Materials Technologies (AFMAT), Antalya, Turkey, 20 - 22 October 2016
- XXVII. **experimental DFT biological activity and molecular docking studies of 5 ethylsulphonyl 2 phenyl benzoxazole**
zeyrek c. t., ÜNVER H., ARPACI Ö., BOYACIOĞLU B., ELMALI A.
Nanotechnology and nanomaterials, 24 - 27 August 2016
- XXVIII. **Trans Bis Alkylphosphine Platinum I Alkynyl Complexes Showing Broadband Visible Light Absorption And Long Lived Triplet Excited States**
Küçüköz B., Jia H., Yongheng X., Majumdar P., Zhang C., KARATAY A., YAĞLIOĞLU H. G., ELMALI A., Zhao J., HAYVALI M.
17. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 18 September 2015
- XXIX. **Photophysical Properties of Newly Synthesized Boron Dipyrromethene Compounds**
HAYVALI M., YILMAZ H., BETÜL K., SEVİNÇ G., SEZEN T., YAĞLIOĞLU H. G., ELMALI A.
All in One Conferences, Dubai, United Arab Emirates, 24 - 28 March 2015
- XXX. **Ultrafast dynamics explaining pH probe mechanism in borondipyrromethene benzimidazole compound**

SEVİNÇ G., Küçüköz B., Yılmaz H., Gökhan Ş., YAĞLIOĞLU H. G., HAYVALI M., ELMALI A.

2nd International Conference and Exhibition on Lasers, Optics Photonics, Philadelphia, United States Of America, 8 - 10 September 2014

XXXI. Probing Ultrafast Energy Transfer Between Excitons And Plasmons In The Ultrastrong Coupling Regime

YILDIZ E., BALCI S., KOCABAŞ C., küçüköz b., KARATAY A., YAĞLIOĞLU H. G., ELMALI A.

FOTONİK 2014 16. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 05 September 2014

XXXII. Blue- and red-shifting amplified spontaneous emission of CdSe/CdS core/shell colloidal quantum dots

Kelestemur Y., Cihan A. F., Guzelurk B., Yerli O., Kurum U., YAĞLIOĞLU H. G., ELMALI A., DEMİR H. V.

Conference on Lasers and Electro-Optics (CLEO), San-Jose, Costa Rica, 9 - 14 June 2013

XXXIII. The Effect of Thickness and Doping on the Nonlinear Absorption Behaviour of IIIA-VIA Group Amorphous Semiconductor Thin Films

Kurum U., YAĞLIOĞLU H. G., YÜKSEK M., ELMALI A., Ates A., KARABULUT M., Mamedov G. M., HASANLI N.

13th International Conference on Transparent Optical Networks (ICTON), Stockholm, Sweden, 26 - 30 June 2011

XXXIV. Preparation of Nanohydroxyapatite -Chitosan Composite Film Using Spin Coating Technique

GEÇER A., GÖKÇE Y., TEKİN S., YAĞLIOĞLU H. G., ELMALI A., YILDIZ N., AKTAŞ Z., ÇALIMLI A.

3rd International Conference Advanced Composite Materials Engineering, Brasov, Romania, 27 - 29 October 2010, vol.1, pp.69-72

XXXV. Optical limiting properties of novel CoII, CuII and double-decker LuIII phthalocyanines

BAĞCI F., SAYDAM S., YILMAZ E., YAĞLIOĞLU H. G., ELMALI A., SALİH B., Bekaroğlu Ö.

ICOOPMA 2010 - Fourth International Conference on Optical, Optoelectronic and Photonic Materials and Applications, Budapest, Hungary, 15 - 20 August 2010, pp.233

XXXVI. Magnetic Phase Transitions in CeMn₂ xFexGe₂ Compounds

KABAK M., ELMALI A., DİNÇER İ., ELERMAN H. Y.

IX International Conference on Crystal Chemistry of Intermetallic Compounds, 20 - 22 September 2005, vol.12, pp.24

Metrics

Publication: 203

Citation (WoS): 2309

Citation (Scopus): 2510

H-Index (WoS): 29

H-Index (Scopus): 29