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Education Information

Doctorate, City University of New York The City College, Faculty of Engineering, Electrical Engineering Department, United States Of America 1996 - 2001

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (YI) (Tezli), Turkey 1993 - 1995

Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1989 - 1993

Dissertations

Doctorate, Characterization And Time Resolved Dynamics Of Nanostructures For Nonlinear Optical Applications, The City University Of New York, Elektrik Mühendisliği, 2001

Postgraduate, C16H14N2OS Bileşiğinin Kristal Yapısı ve Direkt Yöntemler, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (YI) (Tezli), 1995

Research Areas

Electrical and Electronics Engineering, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Optical Properties, Spectroscopy of Matter, Engineering and Technology

Academic Titles / Tasks

Professor, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2016 - Continues

Associate Professor, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2011 - 2016

Assistant Professor, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2005 - 2011

Research Assistant, The City University of New York The Graduate School and University Center, The City College Of Ccny, Electrical Engineering Department, 1996 - 2001

Research Assistant, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1993 - 1996

Academic and Administrative Experience

Head of Department, Ankara University, 2019 - 2019

Courses

FİZİK 3, Undergraduate, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014
İLERİ OPTİK LABORATUVARI, Undergraduate, 2017 - 2018, 2016 - 2017, 2014 - 2015
MODERN FİZİK, Undergraduate, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014
Modern Physics, Undergraduate, 2015 - 2016
Uygulamalı Optik, Undergraduate, 2014 - 2015
Çizgisel Olmayan Optik, Postgraduate, 2014 - 2015, 2013 - 2014
Fizikte Güncel Konular, Undergraduate, 2013 - 2014

Advising Theses

YAĞLIOĞLU H. G., vestigation of energy transitions between silver nanoparticles and organic dyes on the nanoparticles, Postgraduate, J.YALÇIN(Student), 2019
YAĞLIOĞLU H. G., Fabrication and characterization FeAl thin films and it's magnetic patterning with laser, Postgraduate, T.BOZDAĞ(Student), 2019
YAĞLIOĞLU H. G., The effect of various substituents on the pH sensor properties of BODIPY compounds, Postgraduate, C.ÖZKUL(Student), 2019
DUMAN E., YAĞLIOĞLU H. G., Zaman çözünürlüklü manyeto-optik kerr etkisi deney düzeneğinin kurulması ve manyetik ince filmlerin manyeto optik dinamiklerinin incelenmesi, Postgraduate, Z.TABAK(Student), 2019
YAĞLIOĞLU H. G., The effects of electron and energy transfer mechanisms on the efficiency of dyes sensitized solar cells, Doctorate, E.YILDIZ(Student), 2019
YAĞLIOĞLU H. G., The effect of changing laser ablation parameters on optical limiting of silver nanoparticles production, Postgraduate, I.GÜRSOY(Student), 2018
YAĞLIOĞLU H. G., Investigation of effects of substituents on fluorescence, linear and nonlinear optical properties of Penta and/or Heptaaryl BODIPY compounds, Doctorate, B.KÜÇÜKÖZ(Student), 2016
YAĞLIOĞLU H. G., Tetra-arilazadipirometen ligand ve bordiflorür (BF₂) komplekslerinin (aza-bodipy) doğrusal olmayan optik özelliklerinin incelenmesi, Postgraduate, B.ÖZ(Student), 2014
YAĞLIOĞLU H. G., Tetraarilazadipirometen bileşiklerinin metal komplekslerinin doğrusal olmayan optik özelliklerinin incelenmesi, Postgraduate, E.AKHÜSEYİN(Student), 2013
YAĞLIOĞLU H. G., Bodipy ve aza-bodipy bileşiklerinin iki foton soğurma, floresans ve ultra hızlı spektroskopik özelliklerinin incelenmesi, Doctorate, S.TEKİN(Student), 2013
YAĞLIOĞLU H. G., Çinko oksit (ZnO) nanokompozitlerin doğrusal olmayan optik özellikleri, Postgraduate, T.YİĞİT(Student), 2013
YAĞLIOĞLU H. G., Aza-BODIPY bileşiklerinin ultra hızlı spektroskopik özelliklerinin incelenmesi, Postgraduate, B.KÜÇÜKÖZ(Student), 2012
YAĞLIOĞLU H. G., Holmiyum katkı indiyum selen tek kristalinin ve amorf yapıdaki ince filmlerinin çizgisel olmayan soğurma özellikleri, Postgraduate, E.MURAT(Student), 2011
YAĞLIOĞLU H. G., (In₁₀Ga₉₀)Se yarıiletken kristalinin ve amorf ince filmlerinin doğrusal olmayan optik soğurma özellikleri, Postgraduate, Ç.AKSOY(Student), 2011
YAĞLIOĞLU H. G., Nadir yer elementli ve/veya geçiş metalli fitalosyaninlerin çizgisel ve çizgisel olmayan optik özelliklerinin araştırılması, Postgraduate, F.BAĞCI(Student), 2008
YAĞLIOĞLU H. G., İkinci harmonik üretim deneyinin kurulması, Postgraduate, M.ARSLAN(Student), 2008

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Rational design of an acceptor-chromophore-relay-catalyst tetrad assembly for water oxidation**
Oglou R. C., Ghobadi T. G. U., Saylam A., Bese D., BEŞE Ç., YAĞLIOĞLU H. G., ÖZÇUBUKÇU S., ÖZBAY E., KARADAŞ F.
CHEMICAL COMMUNICATIONS, vol.60, no.13, pp.1707-1710, 2023 (SCI-Expanded)
- II. **Nanometer-Thick Insertion Layer for the Effective Passivation of Surface Traps and Improved Edge Acuity for AlGaIn/GaN HEMTs**
Odabasi O., Ghobadi A., Ghobadi T. G. U., Guneyisu E., Urfali E., Yaglioglu G., Butun B., Ozbay E.
IEEE TRANSACTIONS ON ELECTRON DEVICES, vol.70, no.10, pp.5081-5086, 2023 (SCI-Expanded)
- III. **Long-Lived Charge-Transfer State in Spiro Compact Electron Donor-Acceptor Dyads Based on Pyromellitimide-Derived Rhodamine: Charge Transfer Dynamics and Electron Spin Polarization**
Chen X., Sukhanov A. A., Yan Y., Bese D., BEŞE Ç., Zhao J., Voronkova V. K., Barbon A., YAĞLIOĞLU H. G.
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.61, no.33, 2022 (SCI-Expanded)
- IV. **Strong Coupling of Carbon Quantum Dots in Liquid Crystals**
Sarisozen S., Polat N., Balci F. M., Guvenç C. M., Kocabas C., YAĞLIOĞLU H. G., Balci S.
JOURNAL OF PHYSICAL CHEMISTRY LETTERS, vol.13, no.16, pp.3562-3570, 2022 (SCI-Expanded)
- V. **Experimental observation of transition from type I to type II ultrafast demagnetization dynamics in chemically disordered Fe₆₀Al₄₀ thin film, driven by laser fluence**
ARSLAN M., BEŞE Ç., Tabak Z., Bozdag T., DUMAN E., YAĞLIOĞLU H. G.
Journal of Applied Physics, vol.131, no.9, 2022 (SCI-Expanded)
- VI. **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)
- VII. **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)
- VIII. **Anthryl-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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)

- XIV. **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)
- XV. **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)
- XVI. **Fabrication of Supramolecular n/p-Nanowires via Coassembly of Oppositely Charged Peptide-Chromophore Systems in Aqueous Media**
Khalily M. A., Bakan G., Kucukoz B., Topal A. E., KARATAY A., YAĞLIOĞLU H. G., Dana A., GÜLER M. Ö.
ACS NANO, vol.11, no.7, pp.6881-6892, 2017 (SCI-Expanded)
- XVII. **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)
- XVIII. **Ultrafast transient optical loss dynamics in exciton-plasmon nano-assemblies**
ElKabbash M., Rashed A. R., Kucukoz B., Nguyen Q., KARATAY A., YAĞLIOĞLU H. G., ÖZBAY E., Caglayan H., Strangi G.
NANOSCALE, vol.9, no.19, pp.6558-6566, 2017 (SCI-Expanded)
- XIX. **Tunable Plexcitonic Nanoparticles: A Model System for Studying Plasmon-Exciton Interaction from the Weak to the Ultrastrong Coupling Regime**
BALCI S., Kucukoz B., Balci O., KARATAY A., KOCABAŞ C., YAĞLIOĞLU H. G.
ACS PHOTONICS, vol.3, no.11, pp.2010-2016, 2016 (SCI-Expanded)
- XX. **A Ru(bipyridine)(3)[PF6](2) Complex with a Rhodamine Unit - Synthesis, Photophysical Properties, and Application in Acid-Controllable Triplet-Triplet Annihilation Upconversion**
Cui X., Zhao J., KARATAY A., YAĞLIOĞLU H. G., HAYVALI M., Kucukoz B.
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, no.32, pp.5078, 2016 (SCI-Expanded)
- XXI. **A Ru(bipyridine)3[PF6]2 Complex with a Rhodamine Unit – Synthesis, Photophysical Properties, and Application in Acid-Controllable Triplet-Triplet Annihilation Upconversion**
Cui X., Zhao J., KARATAY A., YAĞLIOĞLU H. G., HAYVALI M., Küçüköz B.
European Journal of Inorganic Chemistry, vol.2016, no.32, pp.5079-5088, 2016 (SCI-Expanded)
- XXII. **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)
- XXIII. **Efficient Intersystem Crossing in Heavy-Atom-Free Perylenebisimide Derivatives**
Yang W., Zhao J., Sonn C., Escudero D., KARATAY A., YAĞLIOĞLU H. G., Kucukoz B., HAYVALI M., Li C., Jacquemin D.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.120, no.19, pp.10162-10175, 2016 (SCI-Expanded)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **Broad-Band N Pt(II) Bisacetylide Visible Light Harvesting Complex with Heteroleptic Bodipy Acetylide 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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **Modifying ultrafast optical response of sputtered VOX nanostructures in a broad spectral range by altering post annealing atmosphere**
Kurum U., YAĞLIOĞLU H. G., Kucukoz B., Oksuzoglu R. M., Yildirim M., Yagci A. M., Yavru C., Ozgun S., Tiras T., Elmali A.
JOURNAL OF OPTICS, vol.17, no.1, 2015 (SCI-Expanded)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)

- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **Optical limiting properties of trimeric metallo-phthalocyanines/polymer composite films**
Ozdog 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)
- L. **The nonlinear and saturable absorption characteristics of Ga0.90In0.10Se and Ga0.85In0.15Se 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)
- LI. **Femtosecond laser crystallization of amorphous Ge**
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