

Prof. BAHADIR BOYACIOĞLU

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: D-1254-2016

ScopusID: 6505808282

Yoksis Researcher ID: 104761

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1996 - 2001

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), Turkey 1993 - 1996

Undergraduate, Ankara University, Fen Fakültesi, Fizik Bölümü, Turkey 1987 - 1992

Dissertations

Doctorate, İki boyutlu sistemlerin magnetik özellikleri, Ankara University, Fen Bilimleri Enstitüsü, 2001

Postgraduate, Yüksek magnetik alanda safsızlık iletimi, Ankara University, Fen Bilimleri Enstitüsü, 1996

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties

Academic Titles / Tasks

Professor, Ankara University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2014 - Continues

Associate Professor, Ankara University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2009 - 2014

Lecturer, Ankara University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2001 - 2009

Research Assistant, Ankara University, Fen Fakültesi, Fizik Bölümü, 1994 - 2001

Academic and Administrative Experience

Fakülte Kurulu Üyesi, Ankara University, Açık Ve Uzaktan Eğitim Fakültesi, 2024 - Continues

Birim Kalite Komisyonu Başkanı, Ankara University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2020 - Continues

Yüksekokul Yönetim Kurulu Üyesi, Ankara University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2020 - Continues

Yüksekokul Kurulu Üyesi, Ankara University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2020 - Continues

Director of Vocational School, Ankara University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2020 - Continues

Yüksekokul Yönetim Kurulu Üyesi, Ankara University, Kızılcahamam Sağlık Hizmetleri Meslek Yüksekokulu, 2021 - 2022

Yüksekokul Yönetim Kurulu Üyesi, Ankara University, Elmadağ Meslek Yüksekokulu, 2015 - 2021

Yüksekokul Yönetim Kurulu Üyesi, Ankara University, Gama Meslek Yüksekokulu, 2011 - 2018

Assistant Director of Vocational School, Ankara University, Nallıhan Meslek Yüksekokulu, 2013 - 2015

Assistant Director of Vocational School, Ankara University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2008 - 2013

Courses

Radyasyon Fiziği, Associate Degree, 2022 - 2023

Physics, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Radyasyon Fiziği, Associate Degree, 2022 - 2023

Physics, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Radiation Physics, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Teknolojinin Bilimsel İlkeleri, Associate Degree, 2022 - 2023

Basic Physics, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020

Physics, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Temel Fizik, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020

Basic Physics, Associate Degree, 2021 - 2022, 2020 - 2021, 2019 - 2020

Basic Physics, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

KATI HAL FİZİĞİ II, Undergraduate, 2016 - 2017

KRİSTAL FİZİĞİ, Undergraduate, 2016 - 2017

MEKANİK FİZİK (SHMYO), Associate Degree, 2015 - 2016, 2014 - 2015, 2013 - 2014

FİZİK (BİYOMEDİKAL CİHAZ TEK.,GAMA MYO), Associate Degree, 2015 - 2016, 2013 - 2014

FİZİK (AĞIZ VE DİŞ SAĞLIĞI, ODYOMETRİ; SHMYO), Associate Degree, 2015 - 2016, 2014 - 2015

KATI HAL FİZİĞİ-II (FİZİK BÖLÜMÜ), Doctorate, 2015 - 2016

FİZİK (ANESTEZİ;SHMYO), Associate Degree, 2015 - 2016, 2014 - 2015

FİZİK (ORTOPEDİK PROTEZ ORTEZ, TIBBİ GÖRÜNTÜLEME TEKNİKLERİ, RADYOTERAPİ; SHMYO), Associate Degree, 2015 - 2016, 2014 - 2015

AKUSTİK FİZİK (SHMYO), Associate Degree, 2015 - 2016, 2014 - 2015, 2013 - 2014

FİZİK (ALTERNATİF ENERJİ KAYNAKLARI,GAMA MYO), Associate Degree, 2015 - 2016

DOĞRU AKIM DEVRE ANALİZİ(NALLIHAN MYO), Associate Degree, 2014 - 2015, 2013 - 2014

Tıbbi Cihazlar (Nallıhan MYO), Associate Degree, 2014 - 2015

FİZİK (BİYOMEDİKAL CİHAZ TEK.;GAMA MYO), Associate Degree, 2014 - 2015

FİZİK (ALTERNATİF ENERJİ KAYNAKLARI, GAMA MYO), Associate Degree, 2014 - 2015

Ev Cihazları (Nallıhan MYO), Associate Degree, 2013 - 2014

Alternatif Akım Devre Analizi (Nallıhan MYO), Associate Degree, 2013 - 2014

FİZİK (SHMYO), Associate Degree, 2013 - 2014

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Osmaniye Korkut Ata Üniversitesi, June, 2023
Doctorate, Doctorate, University of Hyderabad, School of Physics, April, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Ankara Üniversitesi, January, 2023
Doctorate, Doctorate, University of Hyderabad, School of Physics, August, 2022
Doctorate, Doctorate, University of Hyderabad, School of Physics, July, 2022
Doctorate, Doctorate, University of Hyderabad, School of Physics, June, 2022
Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, May, 2022
Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, May, 2022
Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, May, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ankara Üniversitesi, April, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kırşehir Ahi Evran Üniversitesi, August, 2021
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gazi Üniversitesi, February, 2021
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ankara Üniversitesi, October, 2020
Associate Professor Exam, Associate Professor Exam, Ege Üniversitesi, August, 2020
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Trakya Üniversitesi, July, 2020
Associate Professor Exam, Associate Professor Exam, Trakya Üniversitesi, May, 2020
Award, Üstün Başarılı Genç Bilim İnsanı Ödülleri Programı (TÜBA-GEBİP), TÜBA, March, 2020
Associate Professor Exam, Associate Professor Exam, Kilis 7 Aralık Üniversitesi, March, 2020
Associate Professor Exam, Associate Professor Exam, Kırşehir Ahi Evran Üniversitesi, March, 2020
Associate Professor Exam, Associate Professor Exam, Selçuk Üniversitesi, August, 2019
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Selçuk Üniversitesi, June, 2019
Associate Professor Exam, Associate Professor Exam, Kırşehir Ahi Evran Üniversitesi, March, 2019
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Muğla Sıtkı Koçman Üniversitesi, June, 2018
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Muğla Sıtkı Koçman Üniversitesi, June, 2018
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Aksaray Üniversitesi, December, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Palladium Metal Nanocomposites Based on PEI-Functionalized Nitrogen-Doped Graphene Quantum Dots: Synthesis, Characterization, Density Functional Theory Modeling, and Cell Cycle Arrest Effects on Human Ovarian Cancer Cells**
Gunes B. A., Kirlangıç Ö. F., Kılıç M., Sunguroğlu A., Ozgurtas T., Sezginer E. K., Boyacıoğlu B., Ünver H., Yıldız M.
ACS OMEGA, no.11, pp.13342-13358, 2024 (SCI-Expanded)
- II. **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)
- III. **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., Boyacıoğlu B., Ünver H., Yapar G., Demir N., Yıldız M., Elmalı A.
CHEMICAL PHYSICS, vol.574, 2023 (SCI-Expanded)
- IV. **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)

- V. **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)
- VI. **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)
- VII. **Effects of Heavy Iodine Atoms and π -Expanded Conjugation on Charge Transfer Dynamics in Carboxylic Acid BODIPY Derivatives as Triplet Photosensitizers**
Akhuseyin Yıldız E., Yabaş E., Sözmen F., Bozkurt Y., Karatay A., Boyacıoğlu B., Ünver H., Elmalı A.
CHEMPHYSCHEM, vol.24, no.5, 2023 (SCI-Expanded)
- VIII. **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)
- IX. **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., Yıldız 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)
- X. **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)
- XI. **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)
- XII. **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., Yıldız E., YILMAZER AKTUNA A., BOYACIOĞLU B., ÜNVER H., YILDIZ M., ELMALI A.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.426, 2022 (SCI-Expanded)
- XIII. **Synthesis, Molecular Structure, Biological Activity, and Sensor Properties of (E)-2-[(3,5-Bis(trifluoromethyl)phenylimino)methyl]-4,6-dichlorophenol**
Zeyrek C. T., Boyacıoglu B., DEMİR N., Tumer Y., Kiraz A., Ünver H., YILDIZ M.
Russian Journal of General Chemistry, vol.91, no.2, pp.279-284, 2021 (SCI-Expanded)
- XIV. **A Schiff base colorimetric probe for real-time naked-eye detection of biologically important fluoride and cyanide ions: Single crystal, experimental, theoretical, biological and antioxidant studies**
ÜNVER H., BOYACIOĞLU B., DEMİR N., Zeyrek C. T., YILDIZ M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1221, 2020 (SCI-Expanded)
- XV. **Cation distribution effect on electronic, magnetic structure and optic properties in cobalt ferrites (Co_{1-y}Fe_y)Tet(Fe_{2-y})OctO₄ with disordered spinel structure**
Bouferrache K., Charifi Z., Baaziz H., UĞUR G., UĞUR Ş., Boyacıoglu B., Ünver H.
Physica Scripta, vol.95, no.10, 2020 (SCI-Expanded)
- XVI. **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)

- XVII. **Effect of confinement potential shape on the electronic, thermodynamic, magnetic and transport properties of a GaAs quantum dot at finite temperature**
Jahan K. L., BOYACIOĞLU B., Chatterjee A.
SCIENTIFIC REPORTS, vol.9, 2019 (SCI-Expanded)
- XVIII. **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)
- XIX. **Synthesis, characterization, biological activity and theoretical studies of a 2-amino-6-methoxybenzothiazole-based fluorescent Schiff base**
ALPASLAN G., BOYACIOĞLU B., DEMİR N., Tümer Y., Yapar G., YILDIRIM N., YILDIZ M., ÜNVER H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1180, pp.170-178, 2019 (SCI-Expanded)
- XX. **Spectroscopic Properties and Theoretical Studies of 5-Ethylsulphonyl-2-Phenyl-Benzoxazol: Relation Between the Frontier Molecular Orbitals and Optical Properties**
Zeyrek C. T., Ünver H., ARPACI Ö., BOYACIOĞLU B., Elmali A.
JOURNAL OF STRUCTURAL CHEMISTRY, vol.60, no.2, pp.241-254, 2019 (SCI-Expanded)
- XXI. **Electronic and magnetic properties of a two-electron Gaussian GaAs quantum dot with spin-Zeeman term: A study by numerical diagonalization**
Sharma H. K., Boda A., BOYACIOĞLU B., Chatterjee A.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.469, pp.171-177, 2019 (SCI-Expanded)
- XXII. **DFT Calculation, Molecular Docking, Biological Activity, and Crystal Structure of (E)-2-((4-tert-Butylbenzylimino)Methyl)-4-Methoxy-Phenol**
Zeyrek C. T., Tümer Y., Kiraz A., DEMİR N., Yapar G., BOYACIOĞLU B., YILDIZ M., Ünver H., Elmali A.
JOURNAL OF STRUCTURAL CHEMISTRY, vol.60, no.1, pp.32-44, 2019 (SCI-Expanded)
- XXIII. **Synthesis, Quantum Chemical Calculations and Molecular Docking Studies, Biological and Anion Sensor Properties of (E)-4-[(4-ethoxy-phenylimino)methyl]-2-methoxyphenol**
Zeyrek C. T., ÜNVER H., BOYACIOĞLU B., DEMİR N., Yapar G., DAL H., YILDIZ M.
CROATICA CHEMICA ACTA, vol.91, no.3, pp.341-355, 2018 (SCI-Expanded)
- XXIV. **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)
- XXV. **Application of Intrinsic Quantized Flux of Electrons and Holes in Josephson Junctions**
Saglam Z., BOYACIOĞLU B.
ACTA PHYSICA POLONICA A, vol.133, no.5, pp.1129-1132, 2018 (SCI-Expanded)
- XXVI. **DFT calculation, biological activity, anion sensing studies and crystal structure of (E)-4-chloro-2-[(pyridin-2-ylimino)-methyl]phenol**
YILDIRIM N., DEMİR N., ALPASLAN G., BOYACIOĞLU B., YILDIZ M., ÜNVER H.
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, vol.83, no.6, pp.707-721, 2018 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **Density Functional Modelling Studies of Chloride-Substituted Schiff bases as Corrosion Inhibitors: Optimized Geometries, Atomic Charges, Solvent and Non-linear Optical Effects**
Zeyrek C. T., BOYACIOĞLU B., ÜNVER H.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.53, no.1, pp.159-176, 2017 (SCI-Expanded)
- XXIX. **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)
- XXX. **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., Ünver H., Yolal D., DEMİR N., ELMALI A., Tadesse S., Aslan K.
 BIOORGANIC & MEDICINAL CHEMISTRY, vol.24, no.21, pp.5592-5601, 2016 (SCI-Expanded)
- XXXI. **Effect of Rashba spin-orbit coupling on the electronic, thermodynamic, magnetic and transport properties of GaAs, InAs and InSb quantum dots with Gaussian confinement**
 Boda A., BOYACIOĞLU B., Erkaslan U., Chatterjee A.
 PHYSICA B-CONDENSED MATTER, vol.498, pp.43-48, 2016 (SCI-Expanded)
- XXXII. **Compton effect in terms of spintronic**
 Sağlam Z., Sahin G., BOYACIOĞLU B.
 Results in Physics, vol.6, pp.726-727, 2016 (SCI-Expanded)
- XXXIII. **Quantum flux associated with a photon on the basis of the Heisenberg uncertainty relation**
 Sağlam Z., BOYACIOĞLU B., Bayram S. B., Chatterjee A.
 Results in Physics, vol.6, pp.215-216, 2016 (SCI-Expanded)
- XXXIV. **Synthesis, biological activity, DNA binding and anion sensors, molecular structure and quantum chemical studies of a novel bidentate Schiff base derived from 3,5-bis(trifluoromethyl)aniline and salicylaldehyde**
 YILDIZ M., Karpuz O., Zeyrek C. T., BOYACIOĞLU B., DAL H., DEMİR N., YILDIRIM N., ÜNVER H.
 JOURNAL OF MOLECULAR STRUCTURE, vol.1094, pp.148-160, 2015 (SCI-Expanded)
- XXXV. **Ground state properties of a two-electron system in a three-dimensional GaAs quantum dot with Gaussian confinement in a magnetic field**
 Boda A., BOYACIOĞLU B., Chatterjee A.
 JOURNAL OF APPLIED PHYSICS, vol.114, no.4, 2013 (SCI-Expanded)
- XXXVI. **Heat capacity and entropy of a GaAs quantum dot with Gaussian confinement**
 BOYACIOĞLU B., Chatterjee A.
 JOURNAL OF APPLIED PHYSICS, vol.112, no.8, 2012 (SCI-Expanded)
- XXXVII. **Persistent current through a semiconductor quantum dot with Gaussian confinement**
 BOYACIOĞLU B., Chatterjee A.
 PHYSICA B-CONDENSED MATTER, vol.407, no.17, pp.3535-3538, 2012 (SCI-Expanded)
- XXXVIII. **Dia- and paramagnetism and total susceptibility of GaAs quantum dots with Gaussian confinement**
 BOYACIOĞLU B., Chatterjee A.
 PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.44, no.9, pp.1826-1831, 2012 (SCI-Expanded)
- XXXIX. **MAGNETIC PROPERTIES OF SEMICONDUCTOR QUANTUM DOTS WITH GAUSSIAN CONFINEMENT**
 BOYACIOĞLU B., Chatterjee A.
 INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.26, no.4, 2012 (SCI-Expanded)
- XL. **Quantum size effect on the phonon-induced Zeeman splitting in a GaAs quantum dot with Gaussian and parabolic confining potentials**
 Mukhopadhyaya S., BOYACIOĞLU B., Sağlam M., Chatterjee A.
 PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.40, no.8, pp.2776-2782, 2008 (SCI-Expanded)
- XLI. **Polaronic effects in a Gaussian quantum dot**
 Yanar S., Sevim A., BOYACIOĞLU B., Sağlam M., Mukhopadhyaya S., Chatterjee A.
 SUPERLATTICES AND MICROSTRUCTURES, vol.43, no.3, pp.208-239, 2008 (SCI-Expanded)
- XLII. **Two-electron singlet states in semiconductor quantum dots with Gaussian confinement: a single-parameter variational calculation**
 BOYACIOĞLU B., Sağlam M., Chatterjee A.
 JOURNAL OF PHYSICS-CONDENSED MATTER, vol.19, no.45, 2007 (SCI-Expanded)
- XLIII. **Spin-flip investigation of the $1s \rightarrow 2p$ and $2p \rightarrow 3d$ transitions in the Dirac hydrogen atom in terms of the flux-quantization argument**

- Saglam M., BOYACIOĞLU B., Saglam Z.
JOURNAL OF RUSSIAN LASER RESEARCH, vol.28, no.4, pp.377-382, 2007 (SCI-Expanded)
- XLIV. **Dispersion relation for surface-localized magnetic polaritons and magnetostatic waves in antiferromagnetic superlattice**
Tagiyeva R. T., Saglam M., BOYACIOĞLU B.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.68, no.7, pp.1296-1304, 2007 (SCI-Expanded)
- XLV. **Quantized magnetic flux through the excited-state orbit of the hydrogen atom**
Saglam M., BOYACIOĞLU B., Saglam Z., Wan K. K.
JOURNAL OF RUSSIAN LASER RESEARCH, vol.28, no.3, pp.267-271, 2007 (SCI-Expanded)
- XLVI. **Effective-medium approach for surface-localized magnetic polaritons in magnetic (ferromagnetic and antiferromagnetic) superlattices**
Tagiyeva R. T., Saglam M., BOYACIOĞLU B.
SUPERLATTICES AND MICROSTRUCTURES, vol.41, no.4, pp.237-247, 2007 (SCI-Expanded)
- XLVII. **Quantized magnetic flux through the ground-state orbit of the hydrogen atom**
Saglam Z., BOYACIOĞLU B.
JOURNAL OF RUSSIAN LASER RESEARCH, vol.28, no.2, pp.142-147, 2007 (SCI-Expanded)
- XLVIII. **The absence of decimal g-factor in QHE**
Saglam M., BOYACIOĞLU B.
PHYSICA STATUS SOLIDI B-BASIC RESEARCH, vol.230, no.1, pp.133-142, 2002 (SCI-Expanded)
- XLIX. **Calculation of the flux associated with the electron's spin on the basis of the magnetic top model**
Saglam M., BOYACIOĞLU B.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.16, no.4, pp.607-614, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **Spin dependent selection rules for dipole transitions**
Sağlam M., BOYACIOĞLU B., SAĞLAM Z.
Universal Journal of Physics and Application, vol.3, pp.181, 2006 (Peer-Reviewed Journal)

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**
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- II. **Green Synthesis and Biological Applications of Methanesulfonamide Functionalized Graphene Quantum Dots**
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- III. **Synthesis of 2-Aminoethylphosphonic Acid-Functionalized Graphene Quantum Dots and Their Applications in Molecular Biology**
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- IV. **Preparation, Characterization and Biological Application of Palladium Nanoparticles (Pdnp) Based on Nitrogen-Ooped Graphene Quantum Dots (Gqds)**
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