

## Prof. PINAR BAŞER



### Personal Information

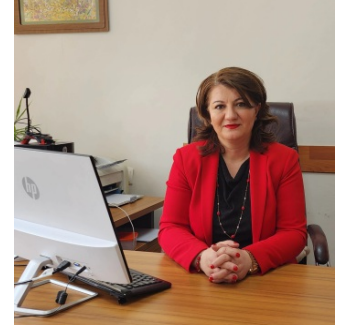
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### International Researcher IDs

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ScopusID: 16311972300

Yoksis Researcher ID:

<https://akademik.yok.gov.tr/AkademikArama/view/viewAuthor.jsp>

### Education Information

Doctorate, Marmara University, Faculty Of Arts And Sciences, Physics, Turkey 2000 - 2007

Postgraduate, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, Turkey 1998 - 2000

Undergraduate, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, Turkey 1991 - 1995

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Vocational Training, Mikro Raman ve PL Spektrometre Sistemi Eğitimi, Sivas Cumhuriyet Üni, 2018

Vocational Course, Yoğun Madde çalışmayı, Feza Gürsoy Ent, 2004

### Dissertations

Doctorate, Düşük boyutlu sistemlerin elektronik özellik-leri: dış manyetik alan etkisinde Ga<sub>1-x</sub>Al<sub>x</sub>As/GaAs silindirik kuantum telinde hidrojenik safsızlık-lar ve eksitonların bağlanma enerjileri, Marmara Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2007

Postgraduate, Homojen Eğik Manyetik Alan Altında Simetrik ve Asimetrik Çift Kuyu Sistemlerinin Elektronik Yapısı, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2000

## Research Areas

Optics and Photonics, Electrical and Magnetic Properties, Material Characterization, Differential Equations, Special Functions, Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electronic structure of bulk material, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Optical Properties, Spectroscopy of Matter, Natural Sciences

## Academic Titles / Tasks

Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2018 - Continues  
Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2013 - 2018  
Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2011 - 2013  
Research Assistant, Marmara University, Faculty Of Arts And Sciences, Physics, 2000 - 2007  
Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 1995 - 1999

## Academic and Administrative Experience

Head of Department, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2021 - Continues  
Fakülte Yönetim Kurulu Üyesi, Sivas Cumhuriyet University, Mimarlık, Güzel Sanatlar ve Tasarım Fakültesi, Mimarlık, Güzel Sanatlar ve Tasarım Fakültesi, 2019 - Continues  
Mevlana Exchange Program Institutional Coordinator, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2017 - Continues  
Head of Department, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2019 - 2023  
Manager of Research and Application Center, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2018 - 2021  
Assistant Manager of Research and Application Center, Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, 2015 - 2017

## Courses

İleri Elektromanyetik Teori , Doctorate, 2021 - 2022  
EMT, Undergraduate, 2021 - 2022  
Kuantum Fiziği II, Undergraduate, 2022 - 2023  
İleri Kuantum Mekanığı de Özel Konular 1, Doctorate, 2021 - 2022  
Genel Fizik 2, Undergraduate, 2019 - 2020  
Yarıiletken Yapıların Elektronik ve Optoelektronik Özellikleri, Doctorate, 2019 - 2020  
Fizik - I, Undergraduate, 2019 - 2020  
Fizik - II, Undergraduate, 2018 - 2019  
Genel Fiz 1, Undergraduate, 2019 - 2020  
Elektromanyetik Teori ve Optik, Postgraduate, 2019 - 2020  
Genel Fizik II, Undergraduate, 2018 - 2019  
Kuantum Fiziği I, Undergraduate, 2019 - 2020  
Genel Fizik I, Undergraduate, 2019 - 2020  
Yarıiletken Aygıt ve Cihaz Karakterizasyonu, Postgraduate, 2018 - 2019  
Fizik - II, Undergraduate, 2018 - 2019  
Genel Fizik II, Undergraduate, 2018 - 2019  
Seminer Dersi, Postgraduate, 2018 - 2019  
Kuantum Fiziği I, Undergraduate, 2018 - 2019  
Fizik - I, Undergraduate, 2018 - 2019  
Genel Fizik I, Undergraduate, 2016 - 2017  
Genel Fizik II, Undergraduate, 2015 - 2016

Genel Fizik II, Undergraduate, 2015 - 2016  
Fizik II, Undergraduate, 2014 - 2015  
Genel Fizik - II, Undergraduate, 2014 - 2015  
Genel Fizik I, Undergraduate, 2015 - 2016  
Fizik I (Mekanik), Undergraduate, 2015 - 2016  
Genel Fizik I, Undergraduate, 2014 - 2015  
Fizik I, Undergraduate, 2014 - 2015  
Genel Fizik - I, Undergraduate, 2014 - 2015  
Fizik I (Mekanik), Undergraduate, 2014 - 2015  
Genel Fizik, Undergraduate, 2014 - 2015  
Temel Fizik, Associate Degree, 2012 - 2013  
Fizik Ve Geometrik Optik - II, Associate Degree, 2011 - 2012  
Genel Fizik, Undergraduate, 2011 - 2012  
Fizik II, Undergraduate, 2010 - 2011  
Fizik II, Undergraduate, 2010 - 2011  
Fizik II (Mekanik II ), Undergraduate, 2010 - 2011  
Fizik II (Mekanik II ), Undergraduate, 2010 - 2011  
Optoelektronik, Undergraduate, 2009 - 2010  
Fizik IV, Undergraduate, 2007 - 2008

## Advising Theses

Başer P., İKİ BOYUTLU InGaAs/GaAs YAPISINDA ELEKTRONİK ENERJİLERE VE SAFSIZLIK BAĞLANMA ENERJİSİNE, BASINÇ, SICAKLIK VE YAPI PARAMETRELERİNİN ETKİSİ, Postgraduate, Y.SOLAK(Student), 2024  
BAŞER P., GaN / InxGa1-xN silindirik kuantum telinde verici safsızlık enerji düzeyleri, Postgraduate, N.BARAZ(Student), 2012

## Jury Memberships

Associate Professor Exam, Associate Professor Exam, Sivas Cumhuriyet University, June, 2022  
Associate Professor Exam, Associate Professor Exam, Sivas Cumhuriyet University, August, 2021  
Post Graduate, Post Graduate, Sivas Cumhuriyet Üniversitesi, February, 2021  
Associate Professor Exam, Associate Professor Exam, Sivas Cumhuriyet University, May, 2020  
Associate Professor Exam, Associate Professor Exam, Marmara Üniversitesi, September, 2019

## Designed Lessons

Başer P., İleri Elektromanyetik Teori, Doctorate, 2021 - 2022

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

- Central-cell corrections for hydrogenic, silicon (Si), selenium (Se), sulfur (S), and germanium (Ge) donor impurities and pressure–temperature effects on the optical properties of the GaAs/GaAlAs multi-layer quantum disk**  
Fakkahi A., BAŞER P., Jaouane M., Sali A., Ed-Dahmouny A., El-Bakkari K., Arraoui R., Azmi H.  
Physica B: Condensed Matter, vol.681, 2024 (SCI-Expanded)
- Third-order nonlinear optical susceptibility of hydrogenic impurity in Ge/Si<sub>0.15</sub>Ge<sub>0.85</sub> spherical core/shell quantum dots under electric field**

Hammouda K., Yahyaoui N., Zeiri N., Ed-Dahmouny A., BAŞER P., Sali A., Said M., Murshed M. N.

Solid State Communications, vol.383, 2024 (SCI-Expanded)

- III. **Electronic and optical properties of CdSe/ZnSe core/shell QDs within centered hydrogenic impurity and their tunability when subjected to an external electric field**  
Jbeli A., Zeiri N., Yahyaoui N., BAŞER P., Said M.  
Physica B: Condensed Matter, vol.672, 2024 (SCI-Expanded)
- IV. **Theoretical modeling of nonlinear optical properties in spheroidal CdTe/ZnTe core/shell quantum dot embedded in various dielectric matrices**  
Hértilli S., Yahyaoui N., Zeiri N., BAŞER P., Said M., Saadaoui S.  
Results in Physics, vol.56, 2024 (SCI-Expanded)
- V. **Tuning of binding energy, polarizability and photoionization cross-section of a hydrogenic impurity in CdTe/ZnTe core-shell nanostructure by the electric field and capped matrix**  
Hértilli S., Yahyaoui N., Zeiri N., Başer P., Said M., Saadaoui S.  
PHYSICS LETTERS A, vol.485, pp.129081-129089, 2023 (SCI-Expanded)
- VI. **Combined effects of thermodynamic factors and external fields for nonlinear optical processes of deformed Mathieu quantum dot containing central impurity**  
BAHAR M. K., BAŞER P.  
Physics Letters, Section A: General, Atomic and Solid State Physics, vol.483, 2023 (SCI-Expanded)
- VII. **The second, third harmonic generations and nonlinear optical rectification of the Mathieu quantum dot with the external electric, magnetic and laser field**  
BAHAR M. K., BAŞER P.  
Physica B: Condensed Matter, vol.665, 2023 (SCI-Expanded)
- VIII. **Nonlinear optical specifications of the Mathieu quantum dot with screw dislocation**  
BAHAR M. K., BAŞER P.  
European Physical Journal Plus, vol.138, no.8, 2023 (SCI-Expanded)
- IX. **Influence of the Size and Dielectric Environments on the Optical Properties in CdS/ZnS Core-Shell Quantum Dot**  
Yahyaoui N., Zeiri N., BAŞER P., Said M., Saadaoui S.  
Plasmonics, vol.18, no.4, pp.1489-1498, 2023 (SCI-Expanded)
- X. **Effect of dielectric mismatch on impurity binding energy, photoionization cross-section and stark shift of CdS/ZnSe core shell spherical quantum dots**  
Cherni A., Yahyaoui N., Zeiri N., BAŞER P., Said M., Saadaoui S.  
Physica Scripta, vol.98, no.8, 2023 (SCI-Expanded)
- XI. **Photoionization cross-section and polarizability of impurity in CdS/ZnS core/shell quantum dots capped in a dielectric matrix**  
Zeiri N., Cherni A., Yahyaoui N., BAŞER P., Said M., Saadaoui S.  
Solid State Communications, vol.368, 2023 (SCI-Expanded)
- XII. **Tuning of nonlinear optical characteristics of Mathieu quantum dot by laser and electric field**  
BAHAR M. K., Baser P.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.137, no.10, 2022 (SCI-Expanded)
- XIII. **Nonlinear optical characteristics of thermodynamic effects- and electric field-triggered Mathieu quantum dot**  
BAHAR M. K., BAŞER P.  
MICRO AND NANOSTRUCTURES, vol.170, 2022 (SCI-Expanded)
- XIV. **Evaluation of the external electric- and magnetic field-driven Mathieu quantum dot's optical observables**  
BAŞER P., BAHAR M. K.  
PHYSICA B-CONDENSED MATTER, vol.639, 2022 (SCI-Expanded)
- XV. **Organo-soluble dendritic zinc phthalocyanine: photoluminescence and fluorescence properties**  
YABAŞ E., Kolemen S., Bicer E., Almammadov T., BAŞER P., Kul M.  
INORGANIC AND NANO-METAL CHEMISTRY, 2022 (SCI-Expanded)

- XVI. The hydrostatic pressure and temperature effects on hydrogenic impurity binding energies in lattice matched InP/In<sub>0.53</sub>Ga<sub>0.47</sub>As/InP square quantum well**  
 Baser P., Elagoz S.  
 SUPERLATTICES AND MICROSTRUCTURES, vol.102, pp.173-179, 2017 (SCI-Expanded)
- XVII. The hydrostatic pressure and temperature effects on hydrogenic impurity binding energies in GaAs/In<sub>x</sub>Ga<sub>1-x</sub>As/GaAs square quantum well**  
 Baser P., Altuntas İ., Elagoz S.  
 SUPERLATTICES AND MICROSTRUCTURES, vol.92, pp.210-216, 2016 (SCI-Expanded)
- XVIII. The hydrostatic pressure and temperature effects on the binding energy of magnetoexcitons in cylindrical quantum well wires**  
 Baser P., Karki H. D., Demir İ., Elagoz S.  
 SUPERLATTICES AND MICROSTRUCTURES, vol.63, pp.100-109, 2013 (SCI-Expanded)
- XIX. Hydrogenic impurity states in zinc-blende In<sub>x</sub>Ga<sub>1-x</sub>N/GaN in cylindrical quantum well wires under hydrostatic pressure**  
 Baser P., Elagoz S., Baraz N.  
 Physica E: Low-Dimensional Systems and Nanostructures, vol.44, no.2, pp.356-360, 2011 (SCI-Expanded)
- XX. The high hydrostatic pressure effect on shallow donor binding energies in GaAs(Ga, Al)As cylindrical quantum well wires at selected temperatures**  
 Karki H. D., Elagoz S., Baser P.  
 Physica B: Condensed Matter, vol.406, no.11, pp.2116-2120, 2011 (SCI-Expanded)
- XXI. Hydrogenic impurity states in zinc-blende In<sub>x</sub>Ga<sub>1-x</sub>N/GaN in cylindrical quantum well wires**  
 Baser P., Elagoz S., Kartal D., Karki H. D.  
 SUPERLATTICES AND MICROSTRUCTURES, vol.49, no.5, pp.497-503, 2011 (SCI-Expanded)
- XXII. Simultaneous effects of hydrostatic pressure and temperature on the binding energy of hydrogenic impurity in cylindrical quantum well wires**  
 Karki H. D., Elagoz S., Baser P.  
 Superlattices and Microstructures, vol.48, no.3, pp.298-304, 2010 (SCI-Expanded)
- XXIII. The effects of pressure and barrier height on donor binding energy in GaAs/Ga<sub>1-x</sub>Al<sub>x</sub>As cylindrical quantum well wires**  
 Baser P., Elagoz S., Kartal D.  
 PHYSICA B-CONDENSED MATTER, vol.405, no.16, pp.3239-3242, 2010 (SCI-Expanded)
- XXIV. The effect of dielectric constant mismatch on the binding energy of hydrogenic impurities in cylindrical quantum wires**  
 Karki H. D., Elagoz S., Amca R., Baser P., Atasver K.  
 PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.42, no.5, pp.1351-1355, 2010 (SCI-Expanded)
- XXV. The magnetoexciton binding energy dependency on aluminium concentration in cylindrical quantum wires**  
 Elagoz S., Karki H. D., Baser P., Sokmen I.  
 Superlattices and Microstructures, vol.45, no.6, pp.506-513, 2009 (SCI-Expanded)
- XXVI. The magnetic field dependency of hydrogenic impurity binding energy under inverse lateral parabolic potential**  
 Elagoz S., Başer P., Yahşi U.  
 Physica B: Condensed Matter, vol.403, pp.3879-3882, 2008 (SCI-Expanded)
- XXVII. Barrier height effect on binding energies of shallow hydrogenic impurities in coaxial GaAs/Al<sub>x</sub>Ga<sub>1-x</sub>As quantum well wires under a uniform magnetic field**  
 Karki H. D., Elagoz S., Baser P., Amca R., Sokmen I.  
 SUPERLATTICES AND MICROSTRUCTURES, vol.41, no.4, pp.227-236, 2007 (SCI-Expanded)

- I. **Computation of the near-infrared electro-absorption in GeSn/SiGeSn step quantum wells**  
Yahyaoui N., Jellouli E., Başer P., Zeiri N., Said M., Murshed M. N.  
Micro and Nanostructures, vol.193, 2024 (Scopus)
- II. **Electric field effect on the intersubband optical absorption of GeSn quantum wells with parabolically graded barriers**  
Yahyaoui N., Başer P., Said M., Saadaoui S.  
Micro and Nanostructures, vol.184, 2023 (Scopus)
- III. **Effect of pressure, temperature, and magnetic field on the binding energy of the electron-hole system in III-V group semiconductors**  
BAŞER P.  
CUMHURİYET SCIENCE JOURNAL, vol.42, no.2, pp.403-412, 2021 (Peer-Reviewed Journal)
- IV. **Pressure and temperature effects on magnetoelectric band energies in GaAs / In<sub>x</sub>Ga<sub>1-x</sub>As cylindrical quantum wires**  
Başer P.  
Cumhuriyet Science Journal, vol.41, no.3, pp.699-705, 2020 (Peer-Reviewed Journal)
- V. **Photoluminescence Properties of Tetra- and Octa-Substituted Double Decker Lu(III) Phthalocyanines**  
YABAŞ E., BAŞER P., KUL M.  
Journal of Materials and Electronic Devices, vol.2, no.1, pp.13-16, 2020 (Peer-Reviewed Journal)
- VI. **Pressure and temperature effects on magnetoelectric band energies in GaAs / In<sub>x</sub>Ga<sub>1-x</sub>As cylindrical quantum wires / Sayfalar : 699-705PDF**  
BAŞER P.  
CUMHURİYET SCIENCE JOURNAL, vol.41, no.3, pp.1-7, 2020 (Peer-Reviewed Journal)
- VII. **In concentration dependence of shallow impurity binding energy under the hydrostatic pressure**  
BAŞER P., ALTUNTAŞ İ., ELAGÖZ S.  
Marmara Üni fen bilimleri dergisi, vol.23, no.4, pp.171-180, 2011 (Peer-Reviewed Journal)
- VIII. **In Concentration Dependence of Shallow Impurity Binding Energy Under The Hydrostatic Pressure**  
BAŞER P., ALTUNTAŞ İ., ELAGÖZ S.  
Marmara Üniversitesi Fen Bilimleri Dergisi, vol.23, no.4, pp.171-180, 2011 (Peer-Reviewed Journal)
- IX. **Çift parabolik kuşatma altında kuantum sistemi elektronik enerji düzeyleri**  
ELAGÖZ S., USLU O., BAŞER P.  
Marmara Üni fen bilimleri dergisi, vol.20, pp.1-12, 2008 (Peer-Reviewed Journal)
- X. **Electronic Energy Spectrum in a DQWS Within a Tilted Magnetic Field**  
Elagöz S., Sökmen İ., Ergün Y., Başer P.  
Tr.J.of Physics, vol.23, pp.1-5, 1999 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **New generation Chemical materials**  
YABAŞ E., BAŞER P., KUL M.  
in: Current Studies at Possitive Sciences, DR. MEHRİBAN EMEK, DR. E. İLHAN ŞAHİN, Editor, IKSAD, Ankara, pp.113-132, 2020

## Refereed Congress / Symposium Publications in Proceedings

- I. **EFFECT OF HYDROSTATIC PRESSURE, TEMPERATURE AND POTENTIAL ON GROUND-STATE ENERGY IN A ONE-DIMENSIONAL CYLINDRICAL QUANTUM WIRE**  
AKALAR E., BAŞER P.  
2. INTERNATIONAL CANKAYA SCIENTIFIC STUDIES CONGRESS, Ankara, Turkey, 28 September 2023
- II. **TERMODİNAMİK DEĞİŞKENLER VE YAPI PARAMETRELERİNİN In<sub>x</sub>Ga<sub>1-x</sub>As/GaAs KUANTUM**

## KUYUSUNDA TABAN DURUM ELEKTRONİK ENERJİSİNE ETKİSİ

Solak Y., BAŞER P.

2.INTERNATIONAL TRAKYA SCIENTIFIC RESEARCH CONGRESS 12-13 AUGUST 2023 EDİRNE, Edirne, Turkey, 12 - 13 August 2023

- III. **MATHİEU KUANTUM NOKTASINDAKİ SAFSIZLIK BAĞLANMA ENERJİSİNİN ELEKTRİK ALAN VE HİDROSTATİK BASINÇLA DEĞİŞİMİ**  
BAHAR M. K., BAŞER P.  
7 TH INTERNATIONAL CONGRESS ON INNOVATIVE SCIENTIFIC APPROACHES held on May 19-20, 2022 / Samsun, Turkey, Samsun, Turkey, 18 May 2022
- IV. **New Generation Chemical Material and Properties for Photovoltaic and Optical Applications**  
YABAŞ E., BAŞER P., KUL M.  
ISPEC 8. kongresi, Ankara, Turkey, 13 - 14 June 2020
- V. **Dependence of Electronic Energy on External Parameters in Cylindrical Quantum Wires**  
BAŞER P.  
8. Uluslararası ISPEC Mühendislik ve Fen Bilimleri Kongresi, Ankara, Turkey, 12 - 14 June 2020
- VI. **Photoluminescence Properties of Tetra- and Octa-Substituted Double Decker Lu(III) Phthalocyanines**  
YABAŞ E., BAŞER P., KUL M.  
6th International Conference on Materials Science and Nanotechnology for Next Generation, 16 - 18 October 2019
- VII. **Dendritic Phthalocyanines for Optoelectronic Applications**  
YABAŞ E., BAŞER P., KUL M.  
6th International Conference on Materials Science and Nanotechnology for Next Generation, 16 - 18 October 2019
- VIII. **Synthesis of Thiadiazole Tetrasubstituted Zinc Phthalocyanine Compound and Investigation of the Potential Use in Organic Solar Cells**  
YABAŞ E., ÖZER A., KUL M., BAŞER P.  
CIEA' 2018, Sivas, Turkey, 20 - 22 September 2018, pp.32
- IX. **THE EXTERNAL PARAMETERS DEPENDENCY of ELECTRONIC ENERGY LATTICE MATCHED InP/In<sub>0.53</sub>Ga<sub>0.47</sub>As QUANTUM WELLS**  
BAŞER P., ELAGÖZ S.  
CIEA' 2018 International Conference on Innovative Engineering Applications September 20-22, 2018 Sivas, Turkey, Sivas, Turkey, 20 - 22 September 2018
- X. **The effects of hydrostatics pressure and temperature on ground state electronic energy level in GaAs/In<sub>x</sub>Ga<sub>1-x</sub>As/GaAs SQW**  
BAŞER P., ELAGÖZ S.  
Turkish Physics Society 33rd International Physics Congress, Bodrum, Turkey, 6 - 10 September 2017
- XI. **HYDROGENIC IMPURITY GROUND STATE IN GaAs GaInAs Single Quantum Well Structures**  
BAŞER P., ALTUNTAŞ İ., ELAGÖZ S.  
9th International Physics Conference Of The Balkan Physical Union-BPU9, 24-27 AUGUST 2015, 24 - 27 August 2015
- XII. **Hydrogenic Impurity Ground State in GaAs GaInAs Single Quantum Well Structures**  
BAŞER P., ALTUNTAŞ İ., ELAGÖZ S.  
9th International Physics Conference of The Balkan Physical Union-BPU9, 24 - 27 August 2015
- XIII. **Al<sub>x</sub>Ga<sub>1-x</sub>As/GaAs SİLİNDİRİK KUANTUM TELİNDE EKSTONBAĞLANMA ENERJİSİNİN DIŞ MANYETİK ALANA, HİDROSTATİK BASINÇ, SICAKLIĞA VE TEL YARIÇAPINA BAĞLI OLARAK HESAPLANMASI**  
BAŞER P., ELAGÖZ S., BARAZ N.  
TÜRK FİZİK DERNEĞİ / TURKISH PHYSICAL SOCIETY 30. ULUSLARARASI FİZİK KONGRESİ / 30th INTERNATIONAL PHYSICS CONGRESS 2-5 Eylül 2013 / 2-5 September 2013 İSTANBUL - TÜRKİYE / İSTANBUL - TURKEY, 2 - 05 September 2013
- XIV. **Çinko Sülfür yapıdaki GaN / GaInN Kuantum Telindeki Hidrojenik safsızlık Taban Durum bağlanma Enerjisinin Sıcaklığa Ve Hidrostatik Basınca Bağlılığı**  
BARAZ N., BAŞER P., KARTAL D., ELAGÖZ S.  
Turkish Physics Society 28rd International Physics Congress, 6 - 09 September 2011

- XV. **GaAs/GaAlAs Silindirik Kuantum Telindeki safsızlık Bağlanma Enerjisinin Hidrostatik basınç ve manyetik Alana Bağlı Değişimi**  
BAŞER P., ELAGÖZ S.  
urkish Physical Sociaty 28rd International Phycsis Congress, 06 September 2011
- XVI. **Sığ safsızlık Bağlanma Enerjisinin Hidrostatik Basınç Altında In Konsantrasyonuna Bağlılığı**  
BAŞER P., ALTUNTAŞ İ., BARAZ N., ELAGÖZ S.  
urkish Physics Sociaty 28rd International Phycsis Congress, 6 - 09 September 2011
- XVII. **Çinko Sülfür Yapıdaki GaN/GaInN Kuantum Telinde Hidrojenik Safsızlık Düzeyleri**  
ELAGÖZ S., BAŞER P., KARTAL D.  
urkish Physics Sociaty 27rd International Phycsis Congress İstanbul, 04 September 2010
- XVIII. **GaAs/GaAlAs Silindirik Kuantum Telinde ki Hidrojenik Safsızlık Bağlanma Enerjisinin Hidrostatik Basınca Bağlılığı**  
BAŞER P., ELAGÖZ S.  
urkish Physics Sociaty 26rd International Phycsis Congress, 02 September 2009
- XIX. **The Comparison of Hydrogenic Impurity Binding Energy Dependency to External Magnetic Field for Opposing Lateral Paraboloids**  
Özbakır R., Başer P., Kutlu S., Elagöz S.  
urkish Physics Society 25rd International Phycsis Congress, Muğla, Turkey, 25 - 29 August 2008, pp.143
- XX. **AlGaAs/GaAs Hetero Yapısı İle Oluşturulan Silindirik kuantum telinde Eksitonik bağlanma Enerjisinin Dış Manyetik Alan Altında Kare kuyu Potansiyel parametrelerine ve Tel Yarıçapına Bağlı Olarak Hesaplanması**  
KARKI H. D., BAŞER P., ELAGÖZ S.  
urkish Physics Sociaty 24rd International Phycsis Congress, 28 - 30 August 2007
- XXI. **The Magnetic field Dependency of Hydrogenic Impurity Binding Energy in Cyrindrical Quantum Wires Under Inverse parabolic Confinement**  
ELAGÖZ S., BAŞER P., YAHŞI U.  
urkish Physics Sociaty 24rd International Phycsis Congress, 28 August 2007
- XXII. **Silindirik Kuantum Telindeki Hidrojenik Safsızlık Bağlanma Enerjisinin Potansiyel parametrelerine ve Dış Manyetik Alana Bağlılığının Varyasyon Tekniği İle Hesaplanması**  
KARKI H. D., ELAGÖZ S., BAŞER P., ALPER BİLLUR C., SÖKMEN İ.  
Türk Fizik Derneği 22. Fizik Kongresi, 14 - 17 September 2004
- XXIII. **AlGaAs/GaAs Hetero Yapısı İle Oluşturulan Silindirik kuantum telinde Eksitonik bağlanma Enerjisinin Dış Manyetik Alan Altında Kare kuyu Potansiyel parametrelerine ve Tel Yarıçapına Bağlı Olarak Hesaplanması**  
BAŞER P., KARKI H. D., ELAGÖZ S., ALPER BİLLUR C., YAHŞI U.  
urkish Physics Sociaty 22rd International Phycsis Congress, 14 - 17 September 2004
- XXIV. **Dış Manyetik Alan Etkisinde Çift Kuyudan Oluşan Kuantum Sistemi**  
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ELAGÖZ S., ERGÜN Y., BAŞER P., SÖKMEN İ.  
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## Supported Projects

Başer P., Project Supported by Higher Education Institutions, Karbon katkılı p-tipi GaAs'ın Fotolüminesans Özellikleri'nin Konsantrasyona ve Sıcaklığa Bağlı Değişiminin İncelenmesi, 2019 - 2021  
Demir İ., Altuntaş İ., Gür E., Şenadım Tüzemen E., BAŞER P., SARİ H., TUBITAK Project, Yüksek Güç-Frekans Uygulamaları İçin MOCVD ile Epitaksiyel AlN Kristalinin Büyütülmesi, Katkılanması, Karakterizasyonu ve Aygıt Üretimi, 2019 - 2021  
Başer P., TUBITAK Project, Vcsel Tabanlı Yüksek Güçlü Yariletken Lazerler, 2017 - 2021



Sari H., Elagöz S., Şenadım Tüzemen E., Başer P., TUBITAK Project, Akıllı Ekranlarda Arka Aydınlatma İçin Yüksek Verimli LED'lerin Tasarım, Üretim ve Karakterizasyonu, 2016 - 2019

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Başer P., Project Supported by Higher Education Institutions, InP/ In<sub>0.53</sub>Ga<sub>0.47</sub>As ÖRGÜ UYUMLU KUANTUM KUYULARINDA ELEKTRONİK ENERJİNİN DIŞ PARAMETRELERE BAĞLI DEĞİŞİMİ, 2017 - 2018

Ungan F., Başer P., Köksal M., Sari H., Kasapoğlu E., TUBITAK Project, Cumhuriyet Üniversitesi Ar-Ge Strateji Belgesi (Optik, Elektro Optik ve Fotonik Teknolojileri), 2016 - 2018

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Başer P., Project Supported by Higher Education Institutions, GaAs Ga<sub>1-x</sub>In<sub>x</sub>As KUANTUM KUYULARINDA SAFSIZLIK BAĞLANMA ENERJİSİNİN BASINÇ VE In KONSANTRASYONU NA BAĞLI DEĞİŞİMİ, 2016 - 2017

BAŞER P., Project Supported by Higher Education Institutions, GaAs Ga<sub>1-x</sub>In<sub>x</sub>As KUANTUM KUYULARININ ELEKTRONİK ENERJİ SPEKTRUMU VE SAFSIZLIK BAĞLANMA ENERJİSİ, 2013 - 2015

BAŞER P., Project Supported by Other Official Institutions, GaN In<sub>x</sub>Ga<sub>1-x</sub>N Kuantum Telinde Verici Safsızlık Enerji Düzeyleri, 2011 - 2012

Başer P., Project Supported by Other Official Institutions, GaAs Ga<sub>1-x</sub>Al<sub>x</sub>As Silindirik Kuantum Telindeki Hidrojenik Safsızlık Bağlanma Enerjisinin Hidrostatik Basınca Bağlılığı, 2009 - 2011

Başer P., Yahşi U., Project Supported by Other Official Institutions, Düşük Boyutlu Sistemlerin Elektronik Özellikleri, 2005 - 2007

Başer P., Elagöz S., TUBITAK Project, Elektrik Alan Altında Çift Engelli Kuantum Çukuru ve Rezonans Tünellemesi, 1993 - 1995

## Scientific Refereeing

PHYSICA B-CONDENSED MATTER, Journal Indexed in SCI-E, March 2022

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Project Supported by Other Official Institutions, Bursa Uludağ University, Turkey, July 2021

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## Metrics

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## Congress and Symposium Activities

2. INTERNATIONAL CANKAYA SCIENTIFIC STUDIES CONGRESS, Attendee, Ankara, Turkey, 2023
2. INTERNATIONAL CANKAYA SCIENTIFIC STUDIES CONGRESS, Session Moderator, Ankara, Turkey, 2023
- 2.INTERNATIONAL TRAKYA SCIENTIFIC RESEARCH CONGRESS 12-13 AUGUST 2023 EDİRNE, Attendee, Edirne, Turkey, 2023
- 7 TH INTERNATIONAL CONGRESS ON INNOVATIVE SCIENTIFIC APPROACHES held on May 19-20, 2022 / Samsun, Turkey, Attendee, Samsun, Turkey, 2022
8. Uluslararası ISPEC Mühendislik ve Fen Bilimleri Kongresi, Invited Speaker, Ankara, Turkey, 2020
8. Uluslararası ISPEC Mühendislik ve Fen Bilimleri Kongresi, Session Moderator, Ankara, Turkey, 2020

## **Scholarships**

- Başarılı öğrenci bursu, University, 1992 - 1995
- Fizik Bölümü Öğrenci Bursu, Foundation, 1992 - 1995

## **Awards**

- Başer P., Yoğun Madde Fiziği Çalıştayı, Feza Gürsey Enst. , August 2003
- Başer P., Fen Fak. Fizik Bölümü Bölüm Birinciliği, Sivas Cumhuriyet Üniversitesi , June 1995
- Başer P., Elektrik Alan Altında Çift Engelli Kuantum Çukuru ve Rezonans Tünellemesi, Tübitak, February 1993

## **Non Academic Experience**

MİLLİ EĞİTİM BAKANLIĞI