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Biography

1974 Sivas doğumlu Pinar BAŞER, Sivas Cumhuriyet Üniversitesi Fen Fakültesi Fizik Bölümünden 1995 yılında mezun oldu. 1997 yılında aynı üniversitede yüksek lisansını ve 2007 yılında da doktorasını Marmara Üniversitesi'nde Katıhal Fiziği Anabilim dalında tamamladı. 2021-2024 yılları arasında Fen Fakültesi Fizik Bölüm başkanlığı görevini yürüttü. Şu anda, Mevlana değişim program koordinatörlüğü ve çeşitli fakültelerin yönetim kurulu üyeliklerini ve Sivas Cumhuriyet Üniversitesi Etik Kurulu Başkan Yardımcılığı görevini devam ettirmektedir. Optoelektronik Uygulama ve Araştırma Merkezi Müdürü olarak'ta görev yapmıştır. Prof. Dr. Pinar BAŞER katıhal fiziği alanında pek çok sayıda teorik olarak yayınladığı makalelerin yanı sıra İleri Teknoloji Uygulama ve Araştırma Merkezi'nde (CÜTAM) Micro Raman ve fotoluminesans cihaz sorumlusu olarak deneysel çalışmalarda yaparak pek çok TÜBİTAK ve BAP projelerinde yürütücü ve araştırmacı olarak görev almıştır.

Profesör Dr. Pinar BAŞER evli ve iki çocuk annesidir.

Learning Knowledge

Doctorate
2000 - 2007

Marmara University, Faculty Of Arts And Sciences, Physics, Turkey

Postgraduate
1998 - 2000

Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, Turkey

Undergraduate
1991 - 1995

Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü, Turkey

Foreign Languages

Certificates, Courses and Trainings

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

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

Dissertations

Doctorate, Düşük boyutlu sistemlerin elektronik özellik-leri: dış manyetik alan etkisinde Ga_{1-x}Al_xAs/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

Academic Titles / Tasks

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

Supported Projects

1. Başer P., Project Supported by Higher Education Institutions, Karbon katkılı p-tipi GaAs'ın Fotoluminesans Özellikleri'nin Konsantrasyona ve Sıcaklığa Bağlı Değişiminin İncelenmesi, 2019 - 2021
2. Demir İ., Altuntaş İ., Gür E., Şenadım Tüzemen E., BAŞER P., SARI H., TUBITAK Project, Yüksek Güç-Frekans Uygulamaları İçin MOCVD ile Epitaksiyel AlN Kristalinin Büyütülmesi, Katkılanması, Karakterizasyonu ve Aygıt Üretimi, 2019 - 2021
3. Başer P., TUBITAK Project, Vcsel Tabanlı Yüksek Güçlü Yariletken Lazerler, 2017 - 2021
4. Sari H., Elagöz S., Şenadım Tüzemen E., Başer P., TUBITAK Project, Akıllı Ekranlarda Arka Aydınlatma İçin Yüksek Verimli LED'xxlerin Tasarım, Üretim ve Karakterizasyonu, 2016 - 2019
5. Başer P., Elagöz S., TUBITAK Project, Akıllı Ekranlarda Arka Aydınlatma İçin Yüksek Verimli LED'lerin Tasarım, Üretim ve Karakterizasyonu, 2016 - 2019
6. Başer P., Project Supported by Higher Education Institutions, InP/ In_{0.53}Ga_{0.47}As ÖRGÜ UYUMLU KUANTUM

KUYULARINDA ELEKTRONİK ENERJİNİN DIŞ PARAMETRELERE BAĞLI DEĞİŞİMİ, 2017 - 2018

7. 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
8. DEMİR İ., BAŞER P., TUBITAK Project, LED Çip Prototipi Geliştirilmesi, 2015 - 2018
9. Başer P., Project Supported by Higher Education Institutions, GaAs Ga_{1-x}In_xAs KUANTUM KUYULARINDA SAFSIZLIK BAĞLANMA ENERJİSİNİN BASINÇ VE In KONSANTRASYONU NA BAĞLI DEĞİŞİMİ, 2016 - 2017
10. BAŞER P., Project Supported by Higher Education Institutions, GaAs Ga_{1-x}In_xAs KUANTUM KUYULARININ ELEKTRONİK ENERJİ SPEKTRUMU VE SAFSIZLIK BAĞLANMA ENERJİSİ, 2013 - 2015
11. BAŞER P., Project Supported by Other Official Institutions, GaN In_xGa_{1-x}N Kuantum Telinde Verici Safsızlık Enerji Düzeyleri, 2011 - 2012
12. Başer P., Project Supported by Other Official Institutions, GaAs Ga_{1-x}Al_xAs Silindirik Kuantum Telindeki Hidrojenik Safsızlık Bağlanma Enerjisinin Hidrostatik Basınca Bağlılığı, 2009 - 2011
13. Başer P., Yahşi U., Project Supported by Other Official Institutions, Düşük Boyutlu Sistemlerin Elektronik Özellikleri, 2005 - 2007
14. Başer P., Elagöz S., TUBITAK Project, Elektrik Alan Altında Çift Engelli Kuantum Çukuru ve Rezonans Tünellemesi, 1993 - 1995

Awards

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

Scholarships

Başarılı öğrenci bursu, University, 1992 - 1995

Fizik Bölümü Öğrenci Bursu, Foundation, 1992 - 1995

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

1. **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)

2. **Third-order nonlinear optical susceptibility of hydrogenic impurity in Ge/Si_{0.15}Ge_{0.85} 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)
3. **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)
4. **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)
5. **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)
6. **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)
7. **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)
8. **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)
9. **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)
10. **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)
11. **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)
12. **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)
13. **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)
14. **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)
15. **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)

16. **The hydrostatic pressure and temperature effects on hydrogenic impurity binding energies in lattice matched InP/In_{0.53}Ga_{0.47}As/InP square quantum well**
Baser P., Elagoz S.
SUPERLATTICES AND MICROSTRUCTURES, vol.102, pp.173-179, 2017 (SCI-Expanded)
17. **The hydrostatic pressure and temperature effects on hydrogenic impurity binding energies in GaAs/In_xGa_{1-x}As/GaAs square quantum well**
Baser P., Altuntas İ., Elagoz S.
SUPERLATTICES AND MICROSTRUCTURES, vol.92, pp.210-216, 2016 (SCI-Expanded)
18. **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)
19. **Hydrogenic impurity states in zinc-blende In_xGa_{1-x}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)
20. **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)
21. **Hydrogenic impurity states in zinc-blende In_xGa_{1-x}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)
22. **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)
23. **The effects of pressure and barrier height on donor binding energy in GaAs/Ga_{1-x}Al_xAs cylindrical quantum well wires**
Baser P., Elagoz S., Kartal D.
PHYSICA B-CONDENSED MATTER, vol.405, no.16, pp.3239-3242, 2010 (SCI-Expanded)
24. **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., Atasever K.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.42, no.5, pp.1351-1355, 2010 (SCI-Expanded)
25. **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)
26. **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)
27. **Barrier height effect on binding energies of shallow hydrogenic impurities in coaxial GaAs/Al_xGa_{1-x}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)

Articles Published in Other Journals

- 1. 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)
- 2. Theoretical investigation of optoelectronic properties in PbS/CdS core/shell spherical quantum dots under the effect of the electric field intensity, hydrogenic impurity and geometric parameters**
Jellouli E., Zeiri N., BAŞER P., Yahyaoui N., Ed-Dahmouny A., Murshed M. N., Said M.
Discover Applied Sciences, vol.6, no.8, 2024 (Scopus)
- 3. 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)
- 4. 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)
- 5. Pressure and temperature effects on magnetoelectric band energies in GaAs / In_xGa_{1-x}As cylindrical quantum wires**
Başer P.
Cumhuriyet Science Journal, vol.41, no.3, pp.699-705, 2020 (Peer-Reviewed Journal)
- 6. 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)
- 7. Pressure and temperature effects on magnetoelectric band energies in GaAs / In_xGa_{1-x}As cylindrical quantum wires / Sayfalar : 699-705PDF**
BAŞER P.
CUMHURİYET SCIENCE JOURNAL, vol.41, no.3, pp.1-7, 2020 (Peer-Reviewed Journal)
- 8. 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)
- 9. 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)
- 10. 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)
- 11. 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

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

Refereed Congress / Symposium Publications in Proceedings

1. **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
2. **TERMODİNAMİK DEĞİŞKENLER VE YAPI PARAMETRELERİNİN $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ 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
3. **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
4. **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
5. **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
6. **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
7. **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
8. **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
9. **THE EXTERNAL PARAMETERS DEPENDENCY of ELECTRONIC ENERGY LATTICE MATCHED $\text{InP}/\text{In}_{0.53}\text{Ga}_{0.47}\text{As}$ QUANTUM WELLS**
BAŞER P., ELAGÖZ S.
CIEA' 2018International Conference on Innovative Engineering ApplicationsSeptember 20-22, 2018 Sivas, Turkey, Sivas, Turkey, 20 - 22 September 2018
10. **The effects of hydrostatics pressure and temperature on ground state electronic energy level in $\text{GaAs}/\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ SQW**
BAŞER P., ELAGÖZ S.
Turkish Physics Society 33rd International Physics Congress, Bodrum, Turkey, 6 - 10 September 2017
11. **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
12. **Hydrgenic Impurity Dround Srare 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
13. **$\text{Al}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ SİLİNDİRİK KUANTUM TELİNDE EKŞİTONBAĞLANMA ENERJİSİNİN DIŞ MANYETİK ALANA, HİDROSTATİK BASINÇ, SICAKLIĞA VE TEL YARIÇAPINA BAĞLI OLARAK HESAPLANMASI**
BAŞER P., ELAGÖZ S., BARAZ N.

14. **Çinko Sülfür yapıdaki GaN / GaIn 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
15. **GaAs/GaAlAs Silindirik Kuantum Telindeki safsızlık Bağlanma Enerjisinin Hidrostatik basınç ve manyetik Alana Bağlı Değişimi**
BAŞER P., ELAGÖZ S.
Turkish Physical Society 28rd International Physics Congress, 06 September 2011
16. **Sığ safsızlık Bağlanma Enerjisinin Hidrostatik Basınç Altında İn Konsantrasyonuna Bağlılığı**
BAŞER P., ALTUNTAŞ İ., BARAZ N., ELAGÖZ S.
Turkish Physics Society 28rd International Physics Congress, 6 - 09 September 2011
17. **Çinko Sülfür Yapıdaki GaN/GaIn Kuantum Telinde Hidrojenik Safsızlık Düzeyleri**
ELAGÖZ S., BAŞER P., KARTAL D.
Turkish Physics Society 27rd International Physics Congress İstanbul, 04 September 2010
18. **GaAs/GaAlAs Silindirik Kuantum Telinde ki Hidrojenik Safsızlık Bağlanma Enerjisinin Hidrostatik Basınca Bağlılığı**
BAŞER P., ELAGÖZ S.
Turkish Physics Society 26rd International Physics Congress, 02 September 2009
19. **The Comparison of Hydrogenic Impurity Binding Energy Dependency to External Magnetic Field for Opposing Lateral Paraboloids**
Özbakır R., Başer P., Kutlu S., Elagöz S.
Turkish Physics Society 25rd International Physics Congress, Muğla, Turkey, 25 - 29 August 2008, pp.143
20. **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.
Turkish Physics Society 24rd International Physics Congress, 28 - 30 August 2007
21. **The Magnetic field Dependency of Hydrogenic Impurity Binding Energy in Cylindrical Quantum Wires Under Inverse parabolic Confinement**
ELAGÖZ S., BAŞER P., YAŞI U.
Turkish Physics Society 24rd International Physics Congress, 28 August 2007
22. **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
23. **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., YAŞI U.
Turkish Physics Society 22rd International Physics Congress, 14 - 17 September 2004
24. **Dış Manyetik Alan Etkisinde Çift Kuyudan Oluşan Kuantum Sistemi**
ELAGÖZ S., SÖKMEN İ., ERGÜN Y., KARKI H. D., BAŞER P.
Turkish Physics Society 18rd Physics Conference, 25 - 28 October 1999
25. **Electronic Energy Spectrum in a DQWS Within a Tilted Magnetic Field**
ELAGÖZ S., ERGÜN Y., BAŞER P., SÖKMEN İ.
V. International Research Workshop, 1 - 11 September 1998

Academic and Administrative Experience

2019 - Continues	Fakülte Yönetim Kurulu Üyesi	Sivas Cumhuriyet University, Mimarlık, Güzel Sanatlar ve Tasarım Fakültesi, Mimarlık, Güzel Sanatlar ve Tasarım Fakültesi
2017 - Continues	Mevlana Exchange Program Institutional Coordinator	Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü
2021 - 2024	Head of Department	Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü
2019 - 2023	Head of Department	Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü
2018 - 2021	Manager of Research and Application Center	Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü
2015 - 2017	Assistant Manager of Research and Application Center	Sivas Cumhuriyet University, Fen Fakültesi, Fizik Bölümü

Courses

İleri Elektromanyetik Teori , Doctorate, 2021 - 2022
EMT, Undergraduate, 2021 - 2022
Kuantum Fiziği II, Undergraduate, 2022 - 2023
İleri Kuantum Mekanik 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

Memberships / Tasks in Scientific Organizations

Turkish Physical Society, Member of Advisory Board, 2024 - Continues, Turkey

Scientific Refereeing

PHYSICA B-CONDENSED MATTER, Journal Indexed in SCI-E, March 2022
PHYSICA B-CONDENSED MATTER, Journal Indexed in SCI-E, March 2022
PHYSICA B-CONDENSED MATTER, Journal Indexed in SCI-E, September 2021
Project Supported by Other Official Institutions, Bursa Uludağ University, Turkey, July 2021
SUPERLATTICES AND MICROSTRUCTURES, SCI Journal, June 2021
SUPERLATTICES AND MICROSTRUCTURES, SCI Journal, April 2021
Cumhuriyet Science Journal, National Scientific Refreed Journal, April 2021
International journal of advances in engineering and pure sciences (Online), National Scientific Refreed Journal, October 2020
PHYSICA B-CONDENSED MATTER, SCI Journal, October 2020
SUPERLATTICES AND MICROSTRUCTURES, SCI Journal, June 2020
Project Supported by Other Official Institutions, Cankiri Karatekin University, Turkey, May 2020
Cumhuriyet Science Journal, National Scientific Refreed Journal, April 2020
PHYSICA B-CONDENSED MATTER, SCI Journal, March 2020

Metrics

Publication: 64
Citation (WoS): 139
Citation (Scopus): 256
H-Index (WoS): 8
H-Index (Scopus): 9

Congress and Symposium Activities

- Turkish Physical Society 40th International Physics Congress, Attendee, Muğla, Turkey, 2024
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, Session Moderator, Ankara, Turkey, 2020
8. Uluslararası ISPEC Mühendislik ve Fen Bilimleri Kongresi, Invited Speaker, Ankara, Turkey, 2020

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

Non Academic Experience

National Education Directorate, MİLLİ EĞİTİM BAKANLIĞI, Fizik