

MEHMET ŞAHİN

PROF.

Email : mehmet.sahin@agu.edu.tr

Office Phone : [+90 352 224 8800](tel:+903522248800) Extension: 7207

International Researcher IDs

ScholarID: J-cCjtkAAAAJ

ORCID: 0000-0002-9419-1711

Publons / Web Of Science ResearcherID: A-1379-2014

ScopusID: 7101877197

Yoksis Researcher ID: 28271

Learning Knowledge

Post Doctorate 2013 - 2014	University of Arkansas at Fayetteville, Electrical Engineering, Electrical Engineering, United States Of America
Post Doctorate 2006 - 2006	University of Sheffield, Physics And Astronomy, Physics, United Kingdom
Post Doctorate 2005 - 2006	Ihsan Dogramaci Bilkent University, Fen-Edebiyat Fak., Fızık, Turkey
Doctorate 2000 - 2005	Selcuk University, Institute Of Science, Fızık, Turkey
Postgraduate 1995 - 1999	Erciyes University, Fen Bilimleri Enstitüsü, Fızık, Turkey
Undergraduate 1990 - 1994	Selcuk University, Fen-Edebiyat Fak., Fizik, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Investigation of Electronic Properties of Semiconductor Quantum Dot Structures, Selcuk University, Institute Of Science, Fızık, 2005

Postgraduate, Photoconductive Studies in Hydrogenated Amorphous Silicon Solar Cells, Erciyes University, Fen Bilimleri Enstitüsü, Fizik, 1999

Academic Titles / Tasks

Professor
2017 - Continues

Abdullah Gul University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği

Associate Professor
2012 - 2017

Abdullah Gul University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği

Associate Professor
2009 - 2012

Selcuk University, Faculty Of Arts And Sciences, Fizik

Assistant Professor
2006 - 2009

Selcuk University, Faculty Of Arts And Sciences, Fizik

Research Assistant PhD
2005 - 2006

Selcuk University, Faculty Of Arts And Sciences, Fizik

Research Assistant
1998 - 2005

Selcuk University, Faculty Of Arts And Sciences, Fizik

Scholarships

2219 Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2013 - 2014

2219 Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2006 - 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- 1. Antibacterial type-II InP/ZnO quantum dots via multimodal reactive oxygen species**
Khan S. U., Eren G. O., Atac N., Onal A., Qureshi M. H., Cooper F. K., Almammadov T., Kolemen S., ŞAHİN M., Can F., et al.
Chemical Engineering Journal, vol.480, 2024 (SCI-Expanded)
- 2. Optical Properties in a ZnS/CdS/ZnS Core/Shell/Shell Spherical Quantum Dot: Electric and Magnetic Field and Donor Impurity Effects**
Toscano-Negrette R. G., León-González J. C., Vinasco J. A., Morales A., Koc F., Kavruk A. E., ŞAHİN M., Mora-Ramos M., Sierra-Ortega J., Martínez-Orozco J., et al.
Nanomaterials, vol.13, no.3, 2023 (SCI-Expanded)
- 3. Advanced tunability of optical properties of CdS/ZnSe/ZnTe/CdSe multi-shell quantum dot by the band edge engineering**
Koc F., KAVRUK A. E., ŞAHİN M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.145, 2023 (SCI-Expanded)
- 4. Cadmium-Free and Efficient Type-II InP/ZnO/ZnS Quantum Dots and Their Application for LEDs**
Eren G. O., Sadeghi S., Jalali H. B., Ritter M., Han M., Baylam I., Melikov R., Onal A., Oz F., ŞAHİN M., et al.
ACS APPLIED MATERIALS & INTERFACES, vol.13, no.27, pp.32022-32030, 2021 (SCI-Expanded)
- 5. Cation exchange mediated synthesis of bright Au@ZnTe core-shell nanocrystals**
Sadeghi S., Melikov R., ŞAHİN M., Nizamoglu S.
NANOTECHNOLOGY, vol.32, no.2, 2021 (SCI-Expanded)
- 6. Quantum dot and electron acceptor nano-heterojunction for photo-induced capacitive charge-transfer**

Karatum O., Eren G. O., Melikov R., Onal A., Ow-Yang C. W., ŞAHİN M., Nizamoglu S.

SCIENTIFIC REPORTS, vol.11, no.1, 2021 (SCI-Expanded)

7. **The electronic and optical properties of an exciton, biexciton and charged excitons in CdSe/CdTe-based multi-shell type-II quantum dot nanocrystals**
Koc F., ŞAHİN M.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.125, no.10, 2019 (SCI-Expanded)
8. **Colloidal Aluminum Antimonide Quantum Dots**
Jalali H. B., Sadeghi S., ŞAHİN M., Ozturk H., Ow-Yang C. W., Nizamoglu S.
CHEMISTRY OF MATERIALS, vol.31, no.13, pp.4743-4747, 2019 (SCI-Expanded)
9. **The ground state properties of two dimensional Fermi gas system confined in a potential composed of harmonic and a Gaussian terms**
GÜLVEREN B., ŞAHİN M., ATAV Ü.
CHEMICAL PHYSICS, vol.517, pp.48-53, 2019 (SCI-Expanded)
10. **Effective Neural Photostimulation Using Indium-Based Type-II Quantum Dots**
Jalali H. B., Aria M. M., Dikbas U. M., Sadeghi S., Kumar B. G., ŞAHİN M., Kavakli I. H., Ow-Yang C. W., Nizamoglu S.
ACS NANO, vol.12, no.8, pp.8104-8114, 2018 (SCI-Expanded)
11. **Effect of the shell material and confinement type on the conversion efficiency of core/shell quantum dot nanocrystal solar cells**
Şahin M.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.30, no.20, 2018 (SCI-Expanded)
12. **The angular electronic band structure and free particle model of aromatic molecules: High-frequency photon-induced ring current**
Oncan M., Koc F., ŞAHİN M., KÖKSAL K.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.31, no.13, 2017 (SCI-Expanded)
13. **Effect of a buffer layer between the shell and ligand on the optical properties of an exciton and biexciton in type-II quantum dot nanocrystals**
Koc F., Koksall K., ŞAHİN M.
PHILOSOPHICAL MAGAZINE, vol.97, no.3, pp.201-211, 2017 (SCI-Expanded)
14. **The electronic and optical properties of a triexciton in CdSe/ZnS core/shell quantum dot nanocrystals**
Akturk A., TAŞ H., Koksall K., ŞAHİN M.
PHILOSOPHICAL MAGAZINE, vol.96, no.6, pp.584-595, 2016 (SCI-Expanded)
15. **The intersubband optical properties of a two-electron quantum dot-quantum well heterostructure**
Aydin R., TAŞ H., ŞAHİN M.
SUPERLATTICES AND MICROSTRUCTURES, vol.86, pp.292-299, 2015 (SCI-Expanded)
16. **A detailed investigation of electronic and intersubband optical properties of Al_xGa_(1-x)As/Al_{0.3}Ga_{0.7}As/AlyGa_{1-y}As/Al_{0.3}Ga_{0.7}As multi-shell quantum dots**
Kavruk A. E., Sahin M., Atav U.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.47, no.29, 2014 (SCI-Expanded)
17. **A detailed investigation of electronic and optical properties of the exciton, the biexciton and charged excitons in a multi-shell quantum dot nanocrystal**
Akturk A., Sahin M., Koc F., Erdinc A.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.47, no.28, 2014 (SCI-Expanded)
18. **Electronic and optical properties of single excitons and biexcitons in type-II quantum dot nanocrystals**
Koc F., Sahin M.
JOURNAL OF APPLIED PHYSICS, vol.115, no.19, 2014 (SCI-Expanded)
19. **Linear and nonlinear optical properties of GaAs/Al(x)Ga_{1-x}As/GaAs/Al(y)Ga_{1-y}As multi-shell spherical quantum dot**
Kavruk A. E., Sahin M., Koc F.
JOURNAL OF APPLIED PHYSICS, vol.114, no.18, 2013 (SCI-Expanded)

20. **The electronic properties of a two-electron multi-shell quantum dot-quantum well heterostructure**
Aydin R., Sahin M.
JOURNAL OF APPLIED PHYSICS, vol.114, no.4, 2013 (SCI-Expanded)
21. **A model for the recombination and radiative lifetime of trions and biexcitons in spherically shaped semiconductor nanocrystals**
ŞAHİN M., Koc F.
APPLIED PHYSICS LETTERS, vol.102, no.18, 2013 (SCI-Expanded)
22. **The linear optical properties of a multi-shell spherical quantum dot of a parabolic confinement for cases with and without a hydrogenic impurity**
ŞAHİN M., Koksal K.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.27, no.12, 2012 (SCI-Expanded)
23. **The effect of dilute nitrogen on nonlinear optical properties of the InGaAsN/GaAs single quantum wells**
Koksal K., ŞAHİN M.
EUROPEAN PHYSICAL JOURNAL B, vol.85, no.10, 2012 (SCI-Expanded)
24. **The inter-sublevel optical properties of a spherical quantum dot-quantum well with and without a donor impurity**
Tas H., ŞAHİN M.
JOURNAL OF APPLIED PHYSICS, vol.112, no.5, 2012 (SCI-Expanded)
25. **A detailed investigation of the electronic properties of a multi-layer spherical quantum dot with a parabolic confinement**
Akgul S., Sahin M., Koksal K.
JOURNAL OF LUMINESCENCE, vol.132, no.7, pp.1705-1713, 2012 (SCI-Expanded)
26. **The photoionization cross section of a hydrogenic impurity in a multi-layered spherical quantum dot**
ŞAHİN M., Tek F., Erdinc A.
JOURNAL OF APPLIED PHYSICS, vol.111, no.8, 2012 (SCI-Expanded)
27. **The electronic properties of a core/shell/well/shell spherical quantum dot with and without a hydrogenic impurity**
Tas H., Sahin M.
JOURNAL OF APPLIED PHYSICS, vol.111, no.8, 2012 (SCI-Expanded)
28. **Reordering orbitals of semiconductor multi-shell quantum dot-quantum well heteronanocrystals**
Sahin M., Nizamoglu S., Yerli O., Demir H. V.
JOURNAL OF APPLIED PHYSICS, vol.111, no.2, 2012 (SCI-Expanded)
29. **A detailed analysis of current-voltage characteristics of Au/perylene-monoimide/n-Si Schottky barrier diodes over a wide temperature range**
Yuksel O. F., Kus M., Simsir N., Safak H., Sahin M., Yenel E.
JOURNAL OF APPLIED PHYSICS, vol.110, no.2, 2011 (SCI-Expanded)
30. **The electric field effects on the binding energies and the nonlinear optical properties of a donor impurity in a spherical quantum dot**
Kirak M., Yilmaz S., Sahin M., GENÇASLAN M.
JOURNAL OF APPLIED PHYSICS, vol.109, no.9, 2011 (SCI-Expanded)
31. **Linear and nonlinear optical absorption coefficients and binding energy of a spherical quantum dot**
Cakir B., Yakar Y., Ozmen A., Sezer M. O., Sahin M.
SUPERLATTICES AND MICROSTRUCTURES, vol.47, no.4, pp.556-566, 2010 (SCI-Expanded)
32. **Third-order nonlinear absorption spectra of an impurity in a spherical quantum dot with different confining potential**
Yilmaz S., Sahin M.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.247, no.2, pp.371-374, 2010 (SCI-Expanded)
33. **Third-order nonlinear optical properties of a one- and two-electron spherical quantum dot with and without a hydrogenic impurity**
Sahin M.

- JOURNAL OF APPLIED PHYSICS, vol.106, no.6, 2009 (SCI-Expanded)
34. **Self-consistent computation of electronic and optical properties of a single exciton in a spherical quantum dot via matrix diagonalization method**
Sahin M., Nizamoglu S., Kavruk A. E., Demir H. V.
JOURNAL OF APPLIED PHYSICS, vol.106, no.4, 2009 (SCI-Expanded)
35. **The self-consistent calculation of the edge states at quantum Hall effect (QHE) based Mach-Zehnder interferometers (MZI)**
SIDDIKI A., Kavruk A. E., Oeztuerk T., Atav U., Sahin M., Hakioglu T.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.40, no.5, pp.1398-1400, 2008 (SCI-Expanded)
36. **Photoionization cross section and intersublevel transitions in a one- and two-electron spherical quantum dot with a hydrogenic impurity**
Sahin M.
PHYSICAL REVIEW B, vol.77, no.4, 2008 (SCI-Expanded)
37. **Mode structure of the L3 photonic crystal cavity**
CHALCRAFT A. R. A., LAM S., O'BRIEN D., KRAUSS T. F., Sahin M., SZYMANSKI D., SANVITTO D., OULTON R., SKOLNICK M. S., FOX A. M., et al.
APPLIED PHYSICS LETTERS, vol.90, no.24, 2007 (SCI-Expanded)
38. **Excitonic condensation under spin-orbit coupling and BEC-BCS crossover**
HAKIOGLU T., Sahin M.
PHYSICAL REVIEW LETTERS, vol.98, no.16, 2007 (SCI-Expanded)
39. **Current-voltage analysis of a-Si : H Schottky diodes**
Sahin M., DURMUS H., KAPLAN R.
APPLIED SURFACE SCIENCE, vol.252, no.18, pp.6269-6274, 2006 (SCI-Expanded)
40. **Applications of Genetic Algorithm to Quantum Mechanical Systems**
ŞAHİN M., TOMAK M., ATAV Ü.
Turkish Journal of Physics, vol.30, pp.253-275, 2006 (SCI-Expanded)
41. **Intensity and temperature dependence of photocurrent of a-Si : H Schottky diodes**
Sahin M., KAPLAN R.
CURRENT APPLIED PHYSICS, vol.6, no.1, pp.114-118, 2006 (SCI-Expanded)
42. **A parabolic quantum dot with N electrons and an impurity**
GULVEREN B., ATAV U., Sahin M., TOMAK M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.30, pp.143-149, 2005 (SCI-Expanded)
43. **Application of the genetic algorithm to Blume-Emery-Griffiths model: Test cases**
CANKO O., Sahin M., ERDINC A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.19, no.28, pp.4229-4237, 2005 (SCI-Expanded)
44. **Electronic structure of a many-electron spherical quantum dot with an impurity**
Sahin M., TOMAK M.
PHYSICAL REVIEW B, vol.72, no.12, 2005 (SCI-Expanded)
45. **Quantum genetic algorithm method in self-consistent electronic structure calculations of a quantum dot with many electrons**
Sahin M., ATAV U., TOMAK M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, vol.16, no.9, pp.1379-1393, 2005 (SCI-Expanded)
46. **The self-consistent calculation of a spherical quantum dot: A quantum genetic algorithm study**
Sahin M., TOMAK M.
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, vol.28, no.3, pp.247-256, 2005 (SCI-Expanded)
47. **Series resistance calculation for Ag contacts on single crystal layered p-SnS and p-SnSe compound semiconductors in the wide temperature range**
KARADENİZ S., TUĞLUOĞLU N., Sahin M., SAFAK H.
MICROELECTRONIC ENGINEERING, vol.81, no.1, pp.125-131, 2005 (SCI-Expanded)
48. **Temperature dependence of current-voltage characteristics of Ag/p-SnS Schottky barrier diodes**
Sahin M., SAFAK H., TUĞLUOĞLU N., KARADENİZ S.

- APPLIED SURFACE SCIENCE, vol.242, pp.412-418, 2005 (SCI-Expanded)
49. **Optical constants of CuInSe₂ thin films prepared by two-stage process**
YUKSEL O., SAFAK H., Sahin M., BASOL B.
PHYSICA SCRIPTA, vol.71, no.2, pp.221-224, 2005 (SCI-Expanded)
 50. **Temperature-dependent barrier characteristics of Ag/p-SnSe Schottky diodes based on I-V-T measurements**
TUGLUOGLU N., KARADENIZ S., Sahin M., SAFAK H.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.19, no.9, pp.1092-1097, 2004 (SCI-Expanded)
 51. **Temperature-dependent barrier characteristics of Ag/p-SnS Schottky barrier diodes**
KARADENIZ S., Sahin M., TUGLUOGLU N., SAFAK H.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.19, no.9, pp.1098-1103, 2004 (SCI-Expanded)
 52. **Temperature dependence of current-voltage characteristics of Ag/p-SnSe Schottky diodes**
TUGLUOGLU N., KARADENIZ S., Sahin M., SAFAK H.
APPLIED SURFACE SCIENCE, vol.233, pp.320-327, 2004 (SCI-Expanded)
 53. **Efficiency of genetic algorithm and determination of ground state energy of impurity in a spherical quantum dot**
SAFAK H., Sahin M., GULVEREN B., TOMAK M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, vol.14, no.6, pp.775-784, 2003 (SCI-Expanded)
 54. **Self-consistent calculation of semiconductor heterojunctions using quantum genetic algorithm**
Sahin M., TOMAK M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.16, no.26, pp.3883-3893, 2002 (SCI-Expanded)
 55. **Analysis of I-V measurements on Ag/p-SnS and Ag/p-SnSe Schottky barriers**
SAFAK H., Sahin M., YUKSEL O.
SOLID-STATE ELECTRONICS, vol.46, no.1, pp.49-52, 2002 (SCI-Expanded)

Articles Published in Other Journals

1. **Double Quantum Ring under an Intense Nonresonant Laser Field: Zeeman and Spin-Orbit Interaction Effects**
Mora-Ramos M. E., Vinasco J. A., Radu A., Restrepo R. L., Morales A. L., ŞAHİN M., Mommadi O., Sierra-Ortega J., Escorcia-Salas G. E., Heyn C., et al.
Condensed Matter, vol.8, no.3, 2023 (ESCI)
2. **Elliptical Quantum Rings with Variable Heights and under Spin-Orbit Interactions**
Mora-Ramos M. E., Vinasco J. A., Radu A., Restrepo R. L., Morales A. L., ŞAHİN M., Mommadi O., Sierra-Ortega J., Escorcia-Salas G. E., Duque C. A.
Condensed Matter, vol.8, no.3, 2023 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

1. **Modification of detailed balance model developed by Shockley and Queisser for calculation of the efficiency of new generation quantum dot nanocrystal solar cells**
Şahin M.
Turkish Physical Society, 37th International Physics Congress (TPS-37), Muğla, Turkey, 1 - 05 September 2021, pp.11
2. **Shockley-Queisser Limitinin Kuantum Nanokristal Tabanlı Güneş Gözelerine Uygulanması**
ŞAHİN M.
23. Yoğun Madde Fiziği - Ankara Toplantısı, Ankara, Turkey, 22 December 2017
3. **A Modification on Detailed-Balance Model for Quantum Dot Nanocrystal Solar Cells**
ŞAHİN M.

International Congress on Semiconductor Materials and Devices (ICSMD-2017), Konya, Turkey, 17 - 12 August 2017

4. **EFFECTS OF ELECTRIC FIELD TEMPERATURE AND PRESSURE ON THE LINEAR AND NONLINEAR OPTICAL PROPERTIES OF QUANTUM BOX**

KIRAK M., YILMAZ S., ŞAHİN M., Bağçlar D.

9th INTERNATIONAL PHYSIC CONFERENCE OF THE BALKAN PEYSICAL UNION, İstanbul, Turkey, 24 - 27 August 2015, pp.436

5. **LINEAR AND NONLINEAR OPTICAL PROPERTIES OF A CUBIC QUANTUM DOT EFFECTS OF THE IMPURITY POSITION AND ELECTRIC FIELD EFFECTS**

KIRAK M., YILMAZ S., ŞAHİN M.

9th INTERNATIONAL PHYSIC CONFERENCE OF THE BALKAN PEYSICAL UNION, 24 - 27 August 2015

6. **PHOTOIONIZATION CROSS SECTION AND OSCILLATOR STRENGTH OF HYDROGENIC IMPURITIES IN GaAs QUANTUM BOX**

KIRAK M., YILMAZ S., ŞAHİN M.

9th INTERNATIONAL PHYSIC CONFERENCE OF THE BALKAN PEYSICAL UNION, 24 - 27 August 2015

Academic and Administrative Experience

2023 - Continues	Bölüm Akademik Teşvik Değerlendirme Komisyonu Başkanı	Abdullah Gul University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği
2022 - Continues	Head of Department	Abdullah Gul University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği
2020 - Continues	Fakülte Yönetim Kurulu Üyesi	Abdullah Gul University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği
2018 - Continues	Fakülte Kurulu Üyesi	Abdullah Gul University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği
2017 - Continues	Fakülte Yönetim Kurulu Üyesi	Abdullah Gul University, Yaşam Ve Doğa Bilimleri Fakültesi
2020 - 2023	Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi	Abdullah Gul University, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği
2018 - 2021	Curriculum Preparation Committee Member	Abdullah Gul University, Mühendislik Fakültesi, Mühendislik Bilimleri
2018 - 2021	Head of Department	Abdullah Gul University, Mühendislik Fakültesi, Mühendislik Bilimleri
2017 - 2020	Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi	Abdullah Gul University, Mühendislik Fakültesi, Mühendislik Bilimleri
2012 - 2013	Director of The Institution	Abdullah Gül Üniversitesi, Fen Bilimleri Enstitüsü
2012 - 2013	Head of Department	Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Nanoteknoloji Mühendisliği

Courses

Modern Physics, Postgraduate, 2021 - 2022, 2020 - 2021
Physics - I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
MSc Special Topics, Postgraduate, 2022 - 2023, 2021 - 2022
MSc Thesis, Postgraduate, 2022 - 2023, 2021 - 2022
Physics - II, Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
SEMICONDUCTOR DEVICE FUNDAMENTALS, Postgraduate, 2018 - 2019
Seminar, Postgraduate, 2018 - 2019

Advising Theses

Şahin M., Quantum dot solar cells, Postgraduate, İ.Bahadır(Student), Continues
ŞAHİN M., İKİ ELEKTRONLU VE ÇOK TABAKALI KÜRESEL BİR KUANTUM NOKTASININ OPTİK ÖZELLİKLERİNİN İNCELENMESİ, Doctorate, R.AYDIN(Student), 2013
ŞAHİN M., ÇOK TABAKALI CdSe/ZnS YARIİLETKEN KUANTUM NOKTA NANOKRİSTALLERİNDE EKZİTONLAR, Postgraduate, A.AKTÜRK(Student), 2013
ŞAHİN M., ORGANİK ARAYÜZEYLİ GaAs SCHOTTKY DİYODLARIN ELEKTRİKSEL KARAKTERİZASYONU, Postgraduate, F.BOY(Student), 2013
ŞAHİN M., TİP-II YARIİLETKEN KUANTUM NOKTA NANOKRİSTALLERİNDE EKZİTONLAR, Postgraduate, F.KOÇ(Student), 2013
ŞAHİN M., ÇOK TABAKALI BİR YARIİLETKEN KUANTUM NOKTASINDAKİ DONOR SAFSIZLIĞININ OPTİK ÖZELLİKLERİ, Postgraduate, H.TAŞ(Student), 2011
ŞAHİN M., ÇOK TABAKALI KUANTUM NOKTA YAPILARDA FOTOİYONLAŞMA TESİR KESİTİNİN HESAPLANMASI, Postgraduate, F.TEK(Student), 2010

Scientific Refereeing

JOURNAL OF COMPUTATIONAL ELECTRONICS, Journal Indexed in SCI-E, November 2022
PHYSICA B: CONDENSED MATTER, Journal Indexed in SCI-E, April 2022
PHYSICA B: CONDENSED MATTER, Journal Indexed in SCI-E, May 2017

Mobility Activity

Post Doc, Post Doc, University of Arkansas - Fayetteville, United States Of America, 2013 - 2014
Post Doc, Post Doc, University of Sheffield, England, 2006 - 2006
Post Doc, Post Doc, Ihsan Dogramaci Bilkent University, Turkey, 2005 - 2006

Metrics

Publication: 65
Citation (WoS): 1690
Citation (Scopus): 1818
H-Index (WoS): 22
H-Index (Scopus): 24

Congress and Symposium Activities

1st International Karatekin Science and Technology Conference, (IKSTC 1st), Invited Speaker, Çankırı, Turkey, 2022
Turkish Physical Society, 37th International Physics Congress (TPS-37), Invited Speaker, Muğla, Turkey, 2021

Invited Talks

1st International Karatekin Science and Technology Conference, (IKSTC 1st), Conference, Çankırı Karatekin Üniversitesi, Turkey, September 2022
Turkish Physical Society, 37th International Physics Congress (TPS-37), Conference, TÜRK FİZİK DERNEĞİ, Turkey, September 2021

Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Natural Sciences