



METİN ÖZDEMİR

PROF.



Email : metoz@cu.edu.tr

Office Phone : [+90 322 338 6084](tel:+903223386084) Extension: 2480

Fax Phone : [+90 322 338 6070](tel:+903223386070)

Address : Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik
Bölümü, 01330 Adana

International Researcher IDs

ORCID: 0000-0003-2766-7238

Yoksis Researcher ID: 6268

Learning Knowledge

| | |
|------------------------------|---------------------------------------------------------------------------------------------------|
| Doctorate 1988 - 1991 | Georgia Institute of Technology, College of Sciences, School of Physics, United States Of America |
| Postgraduate 1986 - 1988 | Georgia Institute of Technology, College of Sciences, School of Physics, United States Of America |
| Undergraduate 1980 - 1985 | Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey |

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Morphological Equilibraition of Facetted Crystals, Georgia Institute of Technology, College Of Sciences, School Of Physics, 1991

Postgraduate, --, Georgia Institute of Technology, College Of Sciences, School Of Physics, 1988

Academic Titles / Tasks

| | |
|-------------------------------|----------------------------------------------------|
| Professor 2005 - Continues | Cukurova University, Fen-Edebiyat Fakültesi, Fizik |
|-------------------------------|----------------------------------------------------|

Associate Professor

2000 - 2005

Cukurova University, Fen-Edebiyat Fakültesi, Fizik

Assistant Professor

1993 - 2000

Cukurova University, Fen-Edebiyat Fakültesi, Fizik

Lecturer PhD

1992 - 1993

Cukurova University, Fen-Edebiyat Fakültesi, Fizik

Supported Projects

1. ÖZDEMİR M., (Bozduman) Akyol A., UFUKTEPE Y., Project Supported by Higher Education Institutions, Pirit (FeS2) ince filmlerin optiksel ve yapısal özelliklerinin araştırılması, 2016 - Continues
2. ÖZDEMİR M., EKİCİBİL A., ÖZDEMİR A. C., ÇEVİK U., Project Supported by Higher Education Institutions, Mühendislik Fakültesi Öğrencilerine Fizik Laboratuvarı Oluşturulması, 2021 - 2024
3. ÖZDEMİR M., Çekil H. C., Project Supported by Higher Education Institutions, Bor karbürün dinamik yük altında mekanik özelliklerinin moleküler dinamik yöntemlerle incelenmesi, 2016 - 2023
4. ÇABUK S., Türkcan A., ÖZDEMİR M., Project Supported by Higher Education Institutions, ABO4(A=Eu,Tb,Er,Yb ve B=As,V) Nanoyapıların Basınç Altında Yapısal, Elektronik, Mekanik, Dinamik ve Optik Özelliklerinin İncelenmesi: Ab İnitio Hesabı, 2018 - 2022
5. ÖZDEMİR M., Project Supported by Higher Education Institutions, Bilimsel Yayın Teşvik Desteği (BYT), 2016 - 2017
6. ESEN M., ÖZDEMİR M., Project Supported by Higher Education Institutions, Mobility of large clusters on a semiconductor surface Kinetic Monte Carlo simulation results, 2016 - 2016
7. ÖZDEMİR M., Türkcan A., Project Supported by Higher Education Institutions, Monte Carlo Yöntemi ile bir Boyutta Kristal Büyütme, 2016 - 2016
8. ÖZDEMİR M., Project Supported by Higher Education Institutions, Uluslararası Yayınları Özendirme Desteği (3 Adet), 2013 - 2015
9. ÖZDEMİR M., Project Supported by Higher Education Institutions, İki Boyutlu Kristal Yapıların Elektronik Özelliklerinin İncelenmesi, 2012 - 2015

Education Infrastructure Information

Özdemir M., Ekicibil A., Çevik U., Özdemir A. C., Mühendislik Fakültesi Öğrencilerine Fizik Laboratuvarı Oluşturulması, September 2021

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Screening effects on the mobility properties in AlGaN/GaN heterostructures with varied Al content**
Yarar Z., Cesur D., Alyoruk M. D., Çekil H. C., ÖZDEMİR B., ÖZDEMİR M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, vol.33, no.12, 2022 (SCI-Expanded)
2. **The behaviour of Boron Carbide under shock compression conditions: MD simulation results**
Çekil H. C., Özdemir M.
Computational Materials Science, vol.201, pp.1-14, 2021 (SCI-Expanded)
3. **Electron transport properties of silicene: Intrinsic and dirty cases with screening effects**
Ozdemir M., Çekil H. C., Atasever O., Ozdemir B., Yarar Z., Ozdemir M.

- JOURNAL OF MOLECULAR STRUCTURE, vol.1199, 2020 (SCI-Expanded)
4. The investigation of the morphology of a decaying conic mound in the presence of repulsive and attractive step interactions
TÜZEMEN A. T., ESEN M., ÖZDEMİR M.
JOURNAL OF CRYSTAL GROWTH, vol.501, pp.1-6, 2018 (SCI-Expanded)
5. Scaling properties of equilibrating semiconductor mounds of various initial shapes
TÜZEMEN A. T., ESEN M., ÖZDEMİR M.
JOURNAL OF CRYSTAL GROWTH, vol.470, pp.94-98, 2017 (SCI-Expanded)
6. Transport Properties of Graphene and Suspended Graphene with EMC: The Role of Various Scattering Mechanisms
Ozdemir M. D., ATASEVER O. S., ÖZDEMİR B., Yarar Z., ÖZDEMİR M.
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.4468-4475, 2016 (SCI-Expanded)
7. Mobility of large clusters on a semiconductor surface: Kinetic Monte Carlo simulation results
ESEN M., TÜZEMEN A. T., ÖZDEMİR M.
CHINESE PHYSICS B, vol.25, no.1, 2016 (SCI-Expanded)
8. Electron-Transport Properties of a ZnMgO/ZnO Hetero Structure and the Effect of Interface Roughness and ZnMgO Thickness
ÖZDEMİR B., Yarar Z., Ozdemir M. D., ATASEVER O. S., ÖZDEMİR M.
JOURNAL OF ELECTRONIC MATERIALS, vol.44, no.10, pp.3733-3737, 2015 (SCI-Expanded)
9. A comparative study of transport properties of monolayer graphene and AlGaN-GaN heterostructure
Ozdemir M. D., ATASEVER O., ÖZDEMİR B., Yarar Z., ÖZDEMİR M.
AIP ADVANCES, vol.5, no.7, 2015 (SCI-Expanded)
10. KMC simulation of growth and equilibration of V-shaped patterned crystal surface via step motion
ESEN M., ÖZDEMİR M.
JOURNAL OF CRYSTAL GROWTH, vol.386, pp.22-26, 2014 (SCI-Expanded)
11. Effect of polarization and interface roughness on the transport properties of AlGaN/GaN hetero structure
Demir M., Yarar Z., ÖZDEMİR M.
SOLID STATE COMMUNICATIONS, vol.158, pp.29-33, 2013 (SCI-Expanded)
12. Equilibration of a cone: KMC simulation results
ESEN M., TÜZEMEN A. T., ÖZDEMİR M.
EUROPEAN PHYSICAL JOURNAL B, vol.85, no.4, 2012 (SCI-Expanded)
13. Determination of the relaxation behavior in time and frequency domains of a dipolar chain with Glauber dynamics using Monte Carlo simulation
Eker S., Bozdemir S., Oezdemir M.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.354, pp.162-167, 2008 (SCI-Expanded)
14. Transport and mobility properties of bulk indium nitride (InN) and a two-dimensional electron gas in an InGaN/GaN quantum well
YARAR Z., Ozdemir B., OZDEMIR M.
JOURNAL OF ELECTRONIC MATERIALS, vol.36, no.10, pp.1303-1312, 2007 (SCI-Expanded)
15. Electron mobility in a modulation doped AlGaN/GaN quantum well
YARAR Z., Ozdemir B., OZDEMIR M.
EUROPEAN PHYSICAL JOURNAL B, vol.49, no.4, pp.407-414, 2006 (SCI-Expanded)
16. Mobility of electrons in a AlGaN/GaN QW: Effect of temperature, applied field, surface roughness and well width
YARAR Z., Ozdemir B., OZDEMIR M.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.242, no.14, pp.2872-2884, 2005 (SCI-Expanded)
17. Monte Carlo simulation of the dielectric relaxation mechanism by using the time-dependent Ising model
Eker S., Bozdemir S., Ozdemir M.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.351, pp.2905-2910, 2005 (SCI-Expanded)

18. **Morphology of crystalline surfaces under various step interaction potentials**
Ozdemir M.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.16, no.8, pp.1361-1374, 2004 (SCI-Expanded)
19. **Epitaxial growth to non-planar substrates by step-flow**
Ozdemir M.
APPLIED SURFACE SCIENCE, vol.152, pp.200-212, 1999 (SCI-Expanded)
20. **The morphology of crystalline surfaces in the presence of attractive step interactions**
Ozdemir M.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.11, no.8, pp.1915-1925, 1999 (SCI-Expanded)
21. **THEORY OF EPITAXIAL-GROWTH ONTO NONPLANAR SUBSTRATES**
OZDEMİR M., Zangwill A.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A-VACUUM SURFACES AND FILMS, vol.10, no.4, pp.684-690, 1992 (SCI-Expanded)
22. **MORPHOLOGICAL EQUILIBRATION OF A FACETED CRYSTAL**
OZDEMİR M., Zangwill A.
PHYSICAL REVIEW B, vol.45, no.7, pp.3718-3729, 1992 (SCI-Expanded)
23. **MORPHOLOGICAL EQUILIBRATION OF A CORRUGATED CRYSTALLINE SURFACE**
OZDEMİR M., Zangwill A.
PHYSICAL REVIEW B, vol.42, no.8, pp.5013-5024, 1990 (SCI-Expanded)

Articles Published in Other Journals

1. **BASAMAKLI YÜZEYLERİN DENGİYE ULAŞMASI VE BÜYÜTÜLMESİİNİN KİNETİK MONTE CARLO YÖNTEMİ İLE BİR BOYUTTA İNCELENMESİ**
Türkan A., ÖZDEMİR M.
Ç.Ü. FEN ve MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.34, no.3, pp.65-75, 2016 (Peer-Reviewed Journal)
2. **YÜZEY PÜRÜZLÜLÜK SAÇILMASININ TEK TABAKA GRAFENİN TAŞINIM ÖZELLİKLERİ ÜZERİNE OLAN ETKİSİ**
ÖZDEMİR M. D., ÖZDEMİR M.
Ç.Ü. Fen ve Mühendislik Bilimleri Dergisi, vol.33, no.2, 2015 (Peer-Reviewed Journal)
3. **ALLOY SCATTERING DEPENDENCE OF ELECTRON TRANSPORT IN AlGaN**
Yarar Z., ÖZDEMİR M.
Balkan Physics Letters, vol.18, pp.237-242, 2010 (Peer-Reviewed Journal)
4. **Dairesel Yüzeyin Kinetic Monte Carlo Yöntemi Kullanılarak İncelenmesi**
ESEN M., ÖZDEMİR M.
çukurova üniversitesi fen ve mühendislik bilimleri dergisi, vol.15, no.1, pp.128-134, 2006 (Non Peer-Reviewed Journal)
5. **ELECTRON TRANSPORT AND MOBILITY CALCULATION IN A ALGAAS GAAS 2DEG BY MONTE CARLO METHOD**
YARAR Z., ÖZDEMİR B., ÖZDEMİR M.
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, pp.13-23, 2005 (Peer-Reviewed Journal)
6. **Variation of Chemical Potential Oscillations of a 2DEG in a Quantum Well Under a Magnetic Field for Multiple Sub-Band Occupation as Function of Temperature and Level-Broadening**
Özdemir B., Yarar Z., ÖZDEMİR M.
Turkish Journal of Physics, vol.28, pp.1-15, 2004 (Scopus)

Books & Book Chapters

1. **Fen Liseleri için İleri Fizik Lise 3**

Refereed Congress / Symposium Publications in Proceedings

1. **Electronic Transport Properties of WS₂ With Ensemble Monte Carlo Method**
Alyörük M. D., Cekil H. C., Özdemir B., Yarar Z., Özdemir M.
9 th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 22 - 24 September 2022, pp.77
2. **Investigation of Thermal Stability of Boron Carbide Under Shock Compression via Molecular Dynamics Simulations**
Cekil H. C., Özdemir M.
9 th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 22 - 24 September 2022, pp.97
3. **The Analysis of Height Change of a Decaying Crystalline Cone**
ESEN M., ÖZDEMİR M., Tüzemen A. T.
Turkish physical society 30 TFD, İstanbul, Turkey, pp.273
4. **The Evolution of a Conic Mound According to Repulsive and Attractive Interactions Between Steps**
TÜZEMEN A. T., ESEN M., ÖZDEMİR M.
5th International conference on materials science and advanced-nanotechnologies for nextgeneration (MSNG2018), 4 - 06 October 2018, pp.234-237
5. **Electron Transport Properties of Silicene: Intrinsic and Dirty Cases with Screening Effects**
ÖZDEMİR M. D., ÇEKİL H. C., YARAR Z., ATASEVER Ö., ÖZDEMİR B., ÖZDEMİR M.
5th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018
6. **Mechanical Behaviour of Boron Carbide under Shock Loading**
Çekil H. C., Özdemir M.
5th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG-2018) , Nevşehir, Turkey, 4 - 06 October 2018, pp.1
7. **A Comparison of Silicene and Graphene Mobilities with an EMC Technique**
ÖZDEMİR M. D., Çekil C., Atasever Ö., ÖZDEMİR B., YARAR Z., ÖZDEMİR M.
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIAL SCIENCES, 11 - 15 October 2017
8. **Transport properties of ZnMgO/ZnO structure with screening effects**
YARAR Z., Uslu S., ÖZDEMİR M. D., ÖZDEMİR B., Atasever Ö., ÖZDEMİR M.
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIAL SCIENCES, 11 - 15 October 2017
9. **Step bunching under the effect of repulsive and attractive step interactions**
TÜZEMEN A. T., ÖZDEMİR M.
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIAL SCIENCES, 11 - 15 October 2017
10. **Various Scattering Mechanisms in AlGaN/GaN Hetero Structure and Investigation of Screening Effect**
YARAR Z., Cessur D., ÖZDEMİR M. D., ÖZDEMİR B., Atasever Ö., ÖZDEMİR M.
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIAL SCIENCES, 11 - 15 October 2017
11. **Various Scattering Mechanismsin AlGaN/GaN Hetero Structure and Investigation of Screening Effect**
YARAR Z., Cessur D., ÖZDEMİR M. D., ÖZDEMİR B., Atasever Ö., ÖZDEMİR M.
INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND MATERIAL SCIENCES, 11 - 15 October 2017
12. **TRANSPORT CHARACTERISTICS OF AL DOPED GAN**
YARAR Z., Cessur D., ÖZDEMİR M. D., ÖZDEMİR B., Atasever Ö., ÖZDEMİR M.
TURKISH PHYSICAL SOCIETY 33rd INTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017
13. **Ractive Potential Parameter Optimization for Boron Carbide (B₁₂C₃) Systems**
Çekil C., ÖZDEMİR M.
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, 6 - 10 September 2017

14. THE EFFECT OF SCREENING ON THE PHONON SCATTERINGS IN ZNMGO/ZNO STRUCTURES
YARAR Z., Uslu S., ÖZDEMİR M. D., ÖZDEMİR B., Atasever Ö., ÖZDEMİR M.
TURKISH PHYSICAL SOCIETY 33rd INTERNATIONAL PHYSICS CONGRESS, 6 - 10 September 2017
15. Ensemble Monte Carlo Analysis of Electron transport in Silicene
ÖZDEMİR M. D., Atasever Ö., ÖZDEMİR B., YARAR Z., ÖZDEMİR M.
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, 6 - 10 September 2017
16. THE INVESTIGATION OF THE MORPHOLOGY OF A DECAYİNG MOUND İN THE PRESENCE OF REPULSİVE AND ATTRACTİVE STEP İTERACTİONS
TÜZEMEN A. T., ESEN M., ÖZDEMİR M.
1st International Conference on Materials Science and Nanotechnology For next Generation (MSNG-2017) , Sarajevo, BOSNIA, 28 - 30 June 2017
17. Transport Properties of Intrinsic and Dirty Graphene with EMC The Role of Various Scattering Mechanisms
ÖZDEMİR M. D., Atasever Ö., ÖZDEMİR B., YARAR Z., ÖZDEMİR M.
European Symposium on Surface Science, 21 - 23 September 2016
18. MONTE CARLO SIMULATION OF CRYSTAL GROWTH AND EQUILIBRATION IN ONE DIMENSION
Türkan A., TÜZEMEN A. T., ESEN M., ÖZDEMİR M.
Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, 6 - 09 September 2016
19. SCALING PROPERTIES OF EQUILIBRATING SEMICONDUCTOR SURFACES WITH VARIOUSINITIAL SHAPES
TÜZEMEN A. T., ESEN M., ÖZDEMİR M.
Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, 6 - 09 September 2016
20. Transport properties of intrinsic and dirty graphene The role of surface roughness scattering
ÖZDEMİR M. D., atasever ö., YARAR Z., ÖZDEMİR B., ÖZDEMİR M.
European Graphene Forum, Advanced Materials World Congress 2015, 23 - 25 August 2015
21. THE ANALYSIS OF HEIGHT CHANGE OF A DECAYING CRYSTALLINE CONE
TÜZEMEN A. T., ESEN M., ÖZDEMİR M.
9TH INTERNATIONAL PHYSICS CONFERENCE OF THE BALKAN PHYSICAL UNION, İstanbul, Turkey, 24 - 27 August 2015, pp.457
22. Transport properties of intrinsic and dirty graphene The role of interface roughness scattering
ÖZDEMİR M. D., Atasever Ö., YARAR Z., ÖZDEMİR B., ÖZDEMİR M.
European Graphene Forum 2015, 23 - 26 August 2015
23. Calculation of The Low Field Mobility of Bilayer Graphene With Monte Carlo Method
Atasever Ö., ÖZDEMİR M. D., ÖZDEMİR B., YARAR Z., ÖZDEMİR M.
9th International Physics Conference of the Balkan Physical Union, 24 - 27 August 2015
24. A Comparative Study of Transport Properties of Monolayer Graphene and AlGaN/GaN Heterostructure
Özdemir M. D., ATASEVER Ö. S., ÖZDEMİR B., YARAR Z., ÖZDEMİR M.
European Symposium on Surface Science, Roma, Italy, 26 November 2014, pp.1
25. STUDY OF CLUSTER MOBILITY ON SEMICONDUCTOR SURFACES BY KMC SIMULATION
ESEN M., ÖZDEMİR M.
EUROPEAN CONFERENCE ON SURFACE SCIENCE (30. ECOSS), Antalya, Turkey, 31 August - 05 September 2014, pp.386
26. DÜZLEMSEL OLmayan YÜZEYLERİN MONTE CARLO YÖNTEMİ İLE BÜYÜTÜLMESİ VE DENGEYE ULAŞMASI
ESEN M., TÜZEMEN A. T., ÖZDEMİR M.
TÜRK FİZİK DERNEĞİ 29. ULUSLARARASI FİZİK KONGRESİ, 5 - 08 September 2012
27. KMC SIMULATION OF EQUILIBRATION OF A CONE
ESEN M., TÜZEMEN A. T., ÖZDEMİR M.
TURKISH PHYSICAL SOCIETY 29 TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 5 - 08 September 2012, pp.183

28. **DÜZLEMSEL OLmayan YARIİLETKEN YÜZEYLERİN EVRİMİNİN KİNETİK MONTE CARLO SİMULASYON YÖNTEMİ KULLANıLARAK İNCELENMESİ**
 ESEN M., ÖZDEMİR M.
 23. TÜRK FİZİK DERNEĞİ KONGRESİ, Muğla, Turkey, 13 - 16 September 2005, pp.221
29. **KMC SIMULATION OF SURFACE GROWTH OF SEMICONDUCTORS**
 ESEN M., ÖZDEMİR M.
 22. TÜRK FİZİK DERNEĞİ KONGRESİ, Muğla, Turkey, 14 - 17 September 2004, pp.192
30. **Models for surface roughness scattering of electrons in a 2DEG**
 Ekmekyapar S., YARAR Z., ÖZDEMİR M.
 Türk Fizik Derneği 22. Fizik Kongresi, Turkey, 14 - 17 September 2004
31. **Effect of surface roughness scattering on the transport properties of a 2DEG**
 YARAR Z., ÖZDEMİR M.
 Türk Fizik Derneği 22. Fizik Kongresi, Turkey, 14 September - 17 April 2004
32. **Statistical Mechanics of a Step Edge**
 ESEN M., ÖZDEMİR M.
 İstatistik Fizik Günleri, Turkey, 24 June 2004
33. **İki boyutlu elektron gazında elektron taşınımının Monte Carlo yöntemi ile incelenmesi**
 YARAR Z., ÖZDEMİR M.
 Türk Fizik Derneği 21. Fizik Kongresi, Turkey, 11 - 13 September 2002
34. **Growth and equilibration of crystalline surfaces in the presence of attractive step interactions**
 ÖZDEMİR M.
 • İstanbul Teknik Üniversitesi 7. İstatistik Fizik Günleri, Turkey, 20 - 21 July 2000
35. **AlGaAs GaAs tipi Heteroeklemlerde Oluşan İki Boyutlu Elektron Gazi İçin Monte Carlo Yöntemi ile Mobilite Hesabı**
 TÜZEMEN A. T., Yılmazer İ., ÖZDEMİR M.
 Türk Fizik Derneği 18. Fizik Kongresi, Turkey, 25 - 28 October 1999
36. **Düzlemsel Olmayan Kristal Yüzeylerinin Step Hareketi Modunda Epitaksiyel Büyüütülmesi**
 ÖZDEMİR M.
 Türk Fizik Derneği 18. Fizik Kongresi, Turkey, 25 - 28 October 1999
37. **Farklı Heteroeklem Yapılarının Potansiyel Profillerinin ve Elektriksel Özelliklerinin Nümerik Olarak İncelenmesi**
 YARAR Z., Yaraneri H., ÖZDEMİR M.
 Türk Fizik Derneği 18. Fizik Kongresi, Turkey, 25 - 28 October 1999
38. **Kristal Yüzeylerindeki Atomik Basamaklar Arası Çekici Etkileşmeler ve Oluşan Yüzey Morfolojisi**
 ÖZDEMİR M.
 Türk Fizik Derneği 17. Fizik Kongresi, Turkey, 27 - 30 October 1998
39. **Morphological Equilibration of a Corrugated Crystalline Surface**
 ÖZDEMİR M., Zangwill A.
 1990 March Meeting of American Physical Society, United States Of America, 12 - 16 March 1990

Other Publications

1. **Optics**
 Özdemir M.
 Other, pp.1-650, 2014
2. **classical Dynamics of Particles and Systems**
 Özdemir M., Ufuktepe Y.
 Other, pp.650-700, 2011
3. **Fen Bilimcileri ve Mühendisler için FİZİK (Bölüm çevirisi)**
 Önengüt G., Özdemir B., Özdemir M.

Academic and Administrative Experience

| | | |
|------------------|--------------------------------------------|-----------------------------------------------------|
| 2021 - Continues | Head of Department | Cukurova University, Fen Bilimleri Enstitüsü |
| 2016 - 2022 | Head of Department | Cukurova University, Fen-Edebiyat Fakültesi, Fizik |
| 2005 - 2021 | Head of Department | Cukurova University, Fen-Edebiyat Fakültesi, Fizik |
| 2005 - 2009 | Assistant Director of the Institute | Cukurova University, Fen Bilimleri Enstitüsü, Fizik |

Courses

Fizik II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018

Bilgisayar Programlama Dili I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Fizikte Matematiksel Yöntemler I, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Fizikte Matematiksel Yöntemler II, Doctorate, 2021 - 2022, 2020 - 2021

Fizik I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018

Fizikte Sayısal Yöntemler, Undergraduate, 2020 - 2021

Advising Theses

Özdemir M., INVESTIGATION OF MECHANICAL PROPERTIES OF BORON CARBIDE UNDER DYNAMIC LOADING BY MOLECULAR DYNAMICS METHODS, Doctorate, H.Cengiz(Student), 2021

Özdemir M., Basamaklı yüzeylerin dengeye ulaşması ve büyütülmesinin kinetik Monte Carlo yöntemi ile bir boyutta incelenmesi, Postgraduate, A.TÜRKAN(Student), 2016

Özdemir M., Tek katmanlı grafenin elektronik taşınım özelliklerinin Monte Carlo yöntemi ile incelenmesi, Doctorate, M.DERYA(Student), 2015

Özdemir M., Geçiş metalleri katkılı zno'nun elektronik özellikleri, Postgraduate, H.CENGİZ(Student), 2013

ÖZDEMİR M., Kutuplanmanın Çoklu Yapıların Elektronik Özelliklerine Etkisinin Monte Carlo Yöntemi ile İncelenmesi, Doctorate, M.Demir(Student), 2011

Özdemir M., Ambient pressure X-ray photoelectron spectroscopy and its applications, Doctorate, F.AKSOY(Student), 2010

Özdemir M., Yeryüzünde hareket konusunda bilgisayar destekli eğitimin (ortaöğretim öğrencilerinde) öğrenci başarısına etkisi, Postgraduate, A.ÇOŞKUN(Student), 2010

ÖZDEMİR M., Yarıiletken Yüzeylerdeki Atomik Basamakların Kinetiği ve Termodinamiği, Doctorate, A.Türker(Student), 2006

ÖZDEMİR M., ATOMİK BASAMAKLI KRİSTAL YÜZEYLERİN KİNETİK MONTE CARLO YÖNTEMİ İLE İNCELENMESİ, Doctorate, M.Esen(Student), 2006

ÖZDEMİR M., Heteroeklem Yapılarında Eklem Düzleminin Yük Taşınımının Monte Carlo Yöntemi ile İncelenmesi, Doctorate, Z.Yarar(Student), 2004

Özdemir M., Buruşuk yüzey saçılma modellerinin farklı potansiyeller için incelenmesi, Postgraduate, S.EKMEKYAPAR(Student), 2003

Özdemir M., Modülatör katkılı hetero-eklemlerin elektronik özellikleri, Postgraduate, A.TÜRKER(Student), 1999

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and Nanosystems, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Electronic transport in condensed matter, Natural Sciences

Non Academic Experience

ODTÜ