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International Researcher IDs

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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 Equilibration 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., ÇEKİL H. C., Project Supported by Higher Education Institutions, Bor karbürün dinamik yük altında mekanik özelliklerinin moleküler dinamik yöntemlerle incelenmesi, 2016 - 2023
4. ÇABUK S., TÜRKAN 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., TÜRKAN 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. **Mobility Characteristics of ZnMgO/ZnO Heterostructures with Screening Effects**
Yarar Z., Alyörük M., Çekil H., ÖZDEMİR B., ÖZDEMİR M.
Physics of the Solid State, vol.66, no.4, pp.91-98, 2024 (SCI-Expanded)
2. **Screening effects on the mobility properties in AlGaIn/GaN heterostructures with varied Al content**
Yarar Z., Cesur D., Alyoruk M. D., Cekil H. C., ÖZDEMİR B., ÖZDEMİR M.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, vol.33, no.12, 2022 (SCI-Expanded)
3. **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)
4. **Electron transport properties of silicene: Intrinsic and dirty cases with screening effects**
Ozdemir M., Cekil H. C., Atasever O., Ozdemir B., Yazar Z., Ozdemir M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1199, 2020 (SCI-Expanded)
 5. **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)
 6. **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)
 7. **Transport Properties of Graphene and Suspended Graphene with EMC: The Role of Various Scattering Mechanisms**
Ozdemir M. D., ATASEVER O. S., ÖZDEMİR B., Yazar Z., ÖZDEMİR M.
JOURNAL OF ELECTRONIC MATERIALS, vol.45, no.8, pp.4468-4475, 2016 (SCI-Expanded)
 8. **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)
 9. **Electron-Transport Properties of a ZnMgO/ZnO Hetero Structure and the Effect of Interface Roughness and ZnMgO Thickness**
ÖZDEMİR B., Yazar Z., Ozdemir M. D., ATASEVER O. S., ÖZDEMİR M.
JOURNAL OF ELECTRONIC MATERIALS, vol.44, no.10, pp.3733-3737, 2015 (SCI-Expanded)
 10. **A comparative study of transport properties of monolayer graphene and AlGa_N-Ga_N heterostructure**
Ozdemir M. D., ATASEVER O., ÖZDEMİR B., Yazar Z., ÖZDEMİR M.
AIP ADVANCES, vol.5, no.7, 2015 (SCI-Expanded)
 11. **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)
 12. **Effect of polarization and interface roughness on the transport properties of AlGa_N/Ga_N hetero structure**
Demir M., Yazar Z., ÖZDEMİR M.
SOLID STATE COMMUNICATIONS, vol.158, pp.29-33, 2013 (SCI-Expanded)
 13. **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)
 14. **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., Ozdemir M.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.354, pp.162-167, 2008 (SCI-Expanded)
 15. **Transport and mobility properties of bulk indium nitride (InN) and a two-dimensional electron gas in an InGa_N/Ga_N quantum well**
YARAR Z., Ozdemir B., OZDEMIR M.
JOURNAL OF ELECTRONIC MATERIALS, vol.36, no.10, pp.1303-1312, 2007 (SCI-Expanded)
 16. **Electron mobility in a modulation doped AlGa_N/Ga_N quantum well**
YARAR Z., Ozdemir B., OZDEMIR M.
EUROPEAN PHYSICAL JOURNAL B, vol.49, no.4, pp.407-414, 2006 (SCI-Expanded)
 17. **Mobility of electrons in a AlGa_N/Ga_N 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)
 18. **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)

19. **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)
20. **Epitaxial growth to non-planar substrates by step-flow**
Ozdemir M.
APPLIED SURFACE SCIENCE, vol.152, pp.200-212, 1999 (SCI-Expanded)
21. **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)
22. **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)
23. **MORPHOLOGICAL EQUILIBRATION OF A FACETED CRYSTAL**
OZDEMİR M., Zangwill A.
PHYSICAL REVIEW B, vol.45, no.7, pp.3718-3729, 1992 (SCI-Expanded)
24. **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 DENGEEYE ULAŞMASI VE BÜYÜTÜLMESİNİN 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 Kinetik 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**
UFUKTEPE Y., ÖZDEMİR M.
MEB yayını, 2001

Refereed Congress / Symposium Publications in Proceedings

1. **ENERGY BAND STRUCTURE AND ELECTRON-PHONON SCATTERING PROPERTIES OF TWO DIMENSIONAL ZrS₂**
Çekil H. C., Özdemir B., Yıldız N. T., Sabaner M. A., Dömekeli Ü., Işık F., Şengül S., Özdemir M.
4 th International Natural Science, Engineering and Material Technologies Conference Sep 12-14, 2024 - İğneada / Kırklareli, Kırklareli, Turkey, 12 - 14 September 2024, pp.52
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. **Electronic Transport Properties of WS₂ With Ensemble Monte Carlo Method**
Alyörük M. D., Cekil H. C., Özdemir B., Yazar Z., Özdemir M.
9 th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 22 - 24 September 2022, pp.77
4. **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
5. **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
6. **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
7. **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
8. **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
9. **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
10. **Various Scattering Mechanisms in AlGa_N/Ga_N 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. **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
12. **Various Scattering Mechanisms in AlGa_N/Ga_N 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
13. **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
 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. **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
 16. **Ractive Potential Parameter Optimization for Boron Carbide (B12C3) Systems**
Çekil C., ÖZDEMİR M.
Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, 6 - 10 September 2017
 17. **THE INVESTIGATION OF THE MORPHOLOGY OF A DECAYING MOUND IN THE PRESENCE OF REPULSIVE AND ATTRACTIVE STEP INTERACTIONS**
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
 18. **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
 19. **SCALING PROPERTIES OF EQUILIBRATING SEMICONDUCTOR SURFACES WITH VARIOUS INITIAL SHAPES**
TÜZEMEN A. T., ESEN M., ÖZDEMİR M.
Türk Fizik Derneği 32. Uluslararası Fizik Kongresi, 6 - 09 September 2016
 20. **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
 21. **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
 22. **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
 23. **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
 24. **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
 25. **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
 26. **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

27. **DÜZLEMSEL OLMAYAN YÜZEYLERİN MONTE CARLO YÖNTEMİ İLE BÜYÜTÜLMESİ VE DENGEE ULAŞMASI**
ESEN M., TÜZEMEN A. T., ÖZDEMİR M.
TÜRK FİZİK DERNEĞİ 29. ULUSLARARASI FİZİK KONGRESİ, 5 - 08 September 2012
28. **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
29. **DÜZLEMSEL OLMAYAN YARIİLETKEN YÜZEYLERİN EVRİMİNİN KİNETİK MONTE CARLO SİMULASYON YÖNTEMİ KULLANILARAK İNCELENMESİ**
ESEN M., ÖZDEMİR M.
23. TÜRK FİZİK DERNEĞİ KONGRESİ, Muğla, Turkey, 13 - 16 September 2005, pp.221
30. **KMC SIMULATION OF SURFACE GROWTH OF SEMICONDUCTORS**
ESEN M., ÖZDEMİR M.
22. TÜRK FİZİK DERNEĞİ KONGRESİ, Muğla, Turkey, 14 - 17 September 2004, pp.192
31. **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
32. **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
33. **Statistical Mechanics of a Step Edge**
ESEN M., ÖZDEMİR M.
İstatistik Fizik Günleri, Turkey, 24 June 2004
34. **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
35. **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
36. **AlGaAs GaAs tipi Heteroeklemlerde Oluşan İki Boyutlu Elektron Gazı İçin Monte Carlo Yöntemi ile Mobilite Hesabı**
TÜZEMEN A. T., Yılmaz İ., ÖZDEMİR M.
Türk Fizik Derneği 18. Fizik Kongresi, Turkey, 25 - 28 October 1999
37. **Düzlemsel Olmayan Kristal Yüzeylerinin Step Hareketi Modunda Epitaksiyel Büyütülmesi**
ÖZDEMİR M.
Türk Fizik Derneği 18. Fizik Kongresi, Turkey, 25 - 28 October 1999
38. **Farklı Heteroeklem Yapıların 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
39. **Kristal Yüzeylerindeki Atomik Basamaklar Arası Çekici Etkileşmeler ve Oluşan Yüzey Morfolojisi**
ÖZDEMİR M.
Türk Fizik Derneği 17. Fizik Kongresi, Turkey, 27 - 30 October 1998
40. **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.
Other, pp.1200, 2009

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 Yapılarda Eklem Düzlemi Boyunca 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., Modülasyon 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

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