Assoc. Prof. MEHMET ESEN

Personal Information

Office Phone: +90 322 226 4160 Extension: 149

Fax Phone: +90 322 226 4149

Email: mehesen@cu.edu.tr

Web: https://avesis.cu.edu.tr//mehesen

Address: beyazevler mah. mühendislik caddesi Adana myo binası Çukurova / Adana

International Researcher IDs

ORCID: 0009-0000-2057-4536

Publons / Web Of Science ResearcherID: E-9182-2018

Yoksis Researcher ID: 130990

Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Turkey 2000 - 2006

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Turkey 1997 - 2000

Undergraduate, Cukurova University, Fizik, Turkey 1992 - 1996

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Atomik basamaklı kristal yüzeylerinin kinetik Monte Carlo yöntemi ile incelenmesi, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, 2006

Postgraduate, Yarıiletkenlerde elektron tasınımının Monte Carlo yöntemi ile incelenmesi, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, 2000

Research Areas

Physics, Atomic and Molecular Physics, Atomic and Molecular Interactions, Gases, Plasmas and Electrical Discharges Physics, Physics of Plasmas, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Natural Sciences

Academic Titles / Tasks

Associate Professor, Cukurova University, Adana Meslek Yüksek Okulu, Adana Meslek Yüksekokulu, 2019 - Continues

Assistant Professor, Cukurova University, Adana Meslek Yüksek Okulu, Bilgisayar Teknolojileri, 2016 - 2020

Lecturer PhD, Cukurova University, Adana Meslek Yüksek Okulu, Teknik Programlar Bölümü, 2001 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

I. Crystalline Carbon Deposition on Piston Ring Substrates and Its Effects on Tribological Characteristics, Engine Performance, and Emissions
ESEN M., YILMAZ A. C.
Advanced Engineering Materials, 2024 (SCI-Expanded)

II. Investigation of EMI and UV-IR shielding properties of Kevlar and polyester/elastane nanocomposite fabrics coated by ECR and evaporation methods
İlhan İ., Esen M., Karaaslan M., Akyürek B. Y., Çelikel Ö.
JOURNAL OF THE TEXTILE INSTITUTE, vol.1, no.1, pp.1-14, 2023 (SCI-Expanded)

III. Investigation of EMI and UV–IR shielding properties of wool and cotton/elastane nanocomposite fabrics
İlhan İ., Esen M., Karaaslan M., Yılmaz Akyürek B.
JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH, no.20, pp.1407-1422, 2023 (SCI-Expanded)

IV. Improving Tribological Performance of Piston Ring Steel Substrates by DLC/Nano-crystalline Diamond Coating
YILMAZ A. C., ESEN M.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.47, no.12, pp.15441-15453, 2022 (SCI-Expanded)

V. Investigation of electromagnetic and ultraviolet properties of nano-metal-coated textile surfaces
ESEN M., Ilhan I., KARAASLAN M., ESEN R.
APPLIED NANOSCIENCE, vol.10, no.2, pp.551-561, 2020 (SCI-Expanded)

VI. Formation of carbon nanowalls by pulsed filtered cathodic vacuum arc deposition
Tuzemen E. S., Kilic M., Zeyrek B. K., KASAPOĞLU A. E., GÜR E., ALAYDİN B. Ö., ESEN M., ESEN R.
DIAMOND AND RELATED MATERIALS, vol.93, pp.200-207, 2019 (SCI-Expanded)

VII. 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)

VIII. 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)

IX. 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)

X. Crystallinity improvement of ZnO nanorods by optimization of low-cost electrodeposition technique
Ozdal T., Taktakoglu R., Ozdamar H., ESEN M., TAKCI D. K., KAVAK H.
THIN SOLID FILMS, vol.592, pp.143-149, 2015 (SCI-Expanded)

XI. Electromagnetic absorbance properties of a textile material coated using filtered arc-physical vapor deposition method
ESEN M., İLHAN İ., Karaaslan M., Unal E., Dincer F., Sabah C.
JOURNAL OF INDUSTRIAL TEXTILES, vol.45, no.2, pp.298-309, 2015 (SCI-Expanded)

XII. The effect of nitrogen incorporation in DLC films deposited by ECR Microwave Plasma CVD
ŞEKER Z., özdamar h., ESEN M., ESEN R., KAVAK H.
APPLIED SURFACE SCIENCE, vol.314, pp.46-51, 2014 (SCI-Expanded)

XIII. 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)

XIV. 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)

Articles Published in Other Journals

I. **Yarıiletken Yüzeylerde Öbek Oluşumu ve İstatistiği**
ESEN M.
Cumhuriyet Üniversitesi Fen Fakültesi Fen Bilimleri Dergisi (CFD), vol.2, no.38, pp.234-244, 2017 (Peer-Reviewed Journal)

II. **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)

Papers Published in Refereed Scientific Meetings

I. **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

II. **PROPERTIES OF AMORPHOUS CARBON FILMS**
ŞEKER Z., ÖZDAMAR H., ESEN M., SEDEFOĞLU N., KAVAK H., ESEN R.
Turkish Pysical Society 30 th TFD, İstanbul, Turkey, pp.188

III. **Characterization of DLC Thin Films Deposited on Glass and Si Substrates under The Influence of Electric Field with ECR-MP Method**
ESEN M., ESEN M.
TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS (TPS35), Muğla, Turkey, 4 - 08 September 2019, vol.1, pp.298-303

IV. **ENHANCING TRIBOLOGICAL CHARACTERISTICS OF PISTON RINGS OF INTERNAL COMBUSTION ENGINES USING ECR-CVD COATING METHOD**
ESEN M., ESEN M., YILMAZ A. C.
TFD 35. Uluslararası Fizik Kongresi, Muğla, Turkey, 4 - 08 September 2019, pp.40-41

V. **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

VI. **Characterization of Au Nanoparticle Coated with Diamond-Like Carbon Films**
Baz Z., ESEN M., ARLI E., ESEN R.
International Conference on Condensed Matter and Materials Science, Adana, Turkey, 11 - 15 October 2017

VII. **Structure and Propertiesof Nanoparticle Au/DLC Composite Films Fabricated by MW ECR Plasma Deposition System**
Baz Z., ESEN M., ARLI E., ESEN R.
International Conference on Condensed Matter and Materials Science, Adana, Turkey, 11 - 15 October 2017

VIII. **THE INVESTİGATİON OF THE MORPHOLOGY OF A DECAYİNG MOUND İN THE PRESENCE OF REPULSİVE AND ATTRACTİVE STEP İNTERACTİONS**
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

IX. **Investigation of Equilibration and Growth of Stepped Surfaces by Kinetic Monte Carlo in one Dimension**
Turkan A., Esen M., TÜZEMEN A. T., Ozdemir M.
32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815

X. **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

XI. **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

XII. **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

XIII. **Textile absorber based on cathodic arc decomposition (Katodik-Ark Biriktirme Yöntemi ile Tekstil Metamalzeme Sinyal Emici Tasarımları ve Uygulamaları)**

Karaaslan M., İLHAN İ., ESEN M., Dinçer F., Sabah C., Akgöl O., Altıntaş O.

UTİB VII.International R&D Brokerage Event, Bursa, Turkey, 27 - 29 May 2015, pp.12

XIV. **Katodik Ark Biriktirme Yöntemi ile Tekstil Metamalzeme Sinyal Emici Tasarımlarıve Uygulamaları Textile absorber based on cathodic arc decomposition**

KARAASLAN M., İLHAN İ., ESEN M., DİNÇER F., SABAH C., AKGÖL O., ALTINTAŞ O.

7. Uluslararası ar-ge proje pazarı, Turkey, 27 - 29 May 2015

XV. **Growth and Characterization of Electrodeposited ZnO Thin Film**

KAVAK H., OZDAL t., TAKTAKOGLU R., ESEN M., özdamar H.

Science & applications of thin films Conference &exibition SATF2014, 15 - 19 September 2014

XVI. **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

XVII. **Electromagnetic Shielding and Absorbence Properties of Textiles Coated with Filtered ARC PVD Method**

ESEN M., İLHAN İ., KARAASLAN M., ÖZDAMAR H.

Türk Fizik Derneği 30. Uluslararası Fizik Kongresi, İstanbul, Turkey, 2 - 05 September 2013

XVIII. **ZnO İNCE FİLMLERİN OPTİKSEL VE YAPISAL ÖZELLİKLERİ**

SEDEFOĞLU N., ESEN M., ÖZDAMAR H., ŞEKER(ZAİMOĞLU) Z., KAVAK H., ESEN R.

Turkish Pysical Society 30 th TFD, İstanbul, Turkey, 2 - 05 September 2013, pp.181

XIX. **ELECTROMAGNETIC SHIELDING AND ABSORBANCE PROPERTIES OF TEXTILES COATED WITH FILTERED ARC-PVD METHOD**

ESEN M., İLHAN İ., KARASLAN M., ÖZDAMAR H.

Turkish Pysical Society 30 th TFD, İstanbul, Turkey, 2 - 05 September 2013, pp.153

XX. **PRODUCTION OF CARBON NITRIDE THIN FILMS BY MW-ECR DEPOSITING SYSTEMS**

ESEN M., SEDEFOĞLU N., ÖZDAMAR H., ŞEKER Z., KAVAK H., ESEN R.

Turkish Pysical Society 30 th TFD, İstanbul, Turkey, 2 - 05 September 2013, pp.152

XXI. **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

XXII. **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

XXIII. **DÜZLEMSEL OLMAYAN YARIILETKEN 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

XXIV. **KMC SIMULATION OF SURFACE GROWTH OF SEMİCONDUCTORS**
ESEN M., ÖZDEMİR M.
TÜRK FİZİK DERNEĞİ 22. ULUSLARARASI KONGRESİ, 14 - 17 September 2004

XXV. **KMC SIMULATION OF SURFACE GROWTH OF SEMICONDUCTORS**
ESEN M., ÖZDEMİR M.
22. TÜRK FİZİK DERNEĞİ KONGRESİ, Muğla, Turkey, 14 - 17 September 2004, pp.192

XXVI. **Statistical Mechanics of a Step Edge**
ESEN M., ÖZDEMİR M.
İstatistik Fizik Günleri, Turkey, 24 June 2004

Other Publications

I. **Görsel Programlama 2**
POLAT V., KOÇAK Y., SOLMAZ M. İ., ESEN M., ÖZONUR M.
Lecture Note, pp.170, 2006

II. **Internet Programcılığı 2**
SOLMAZ M. İ., POLAT V., ÖZONUR M., KOÇAK Y., ESEN M.
Lecture Note, pp.150, 2006

III. **İşletim Sistemleri**
ESEN M., POLAT V., SOLMAZ M. İ., ÖZONUR M., KOÇAK Y.
Lecture Note, pp.140, 2006

IV. **C/C++ Programlama 2**
KOÇAK Y., ÖZONUR M., SOLMAZ M. İ., POLAT V., ESEN M.
Lecture Note, pp.220, 2006

V. **Grafik ve Animasyon**
SOLMAZ M. İ., POLAT V., KOÇAK Y., ÖZONUR M., ESEN M.
Lecture Note, pp.110, 2005

VI. **Veri Yapıları ve Programlama**
POLAT V., KOÇAK Y., ESEN M., SOLMAZ M. İ., ÖZONUR M.
Lecture Note, pp.120, 2005

VII. **C/C++ Programlama 1**
KOÇAK Y., ÖZONUR M., SOLMAZ M. İ., POLAT V., ESEN M.
Lecture Note, pp.210, 2005

VIII. **İşletim Sistemleri**
ESEN M., POLAT V., KOÇAK Y., ÖZONUR M., SOLMAZ M. İ.
Lecture Note, 2005

IX. **Görsel Programlama 1**
POLAT V., KOÇAK Y., SOLMAZ M. İ., ESEN M., ÖZONUR M.
Lecture Note, pp.150, 2005

X. **İşletim Sistemleri**
ESEN M., POLAT V., KOÇAK Y., ÖZONUR M., SOLMAZ M. İ.
Lecture Note, pp.110, 2005

XI. **Veri Tabanı Yönetim Sistemleri 2**
ÖZONUR M., POLAT V., KOÇAK Y., SOLMAZ M. İ., ESEN M.
Lecture Note, pp.170, 2005

XII. **İşletim Sistemleri**
ESEN M., POLAT V., KOÇAK Y., ÖZONUR M., SOLMAZ M. İ.
Lecture Note, 2005

XIII. **Internet Programcılığı 1**
SOLMAZ M. İ., POLAT V., ÖZONUR M., KOÇAK Y., ESEN M.

Lecture Note, pp.120, 2005

XIV. **Bilgisayar Ağları**
POLAT V., ESEN M., ÖZONUR M., KOÇAK Y., SOLMAZ M. İ.
Lecture Note, pp.100, 2005

XV. **Veri Tabanı Yönetim Sistemleri 1**
ÖZONUR M., KOÇAK Y., SOLMAZ M. İ., POLAT V., ESEN M.
Lecture Note, pp.130, 2004

XVI. **Grafik ve Animasyon**
SOLMAZ M. İ., POLAT V., KOÇAK Y., ÖZONUR M., ESEN M.
Lecture Note, 2004

XVII. **Veri Yapıları ve Programlama**
POLAT V., KOÇAK Y., ESEN M., SOLMAZ M. İ., ÖZONUR M.
Lecture Note, 2004

XVIII. **Bilgisayar Donanımı**
ESEN M., POLAT V., ÖZONUR M., KOÇAK Y., SOLMAZ M. İ.
Lecture Note, pp.100, 2004

XIX. **Temel Elektronik**
KOÇAK Y., ÖZONUR M., SOLMAZ M. İ., POLAT V., ESEN M.
Lecture Note, pp.200, 2004

XX. **Algoritma**
POLAT V., SOLMAZ M. İ., KOÇAK Y., ÖZONUR M., ESEN M.
Lecture Note, pp.120, 2004

Supported Projects

ESEN M., KAVAK H., ESEN m., Project Supported by Higher Education Institutions, ECR (Electron Cyclotron Resonance) yöntemi ile nano yapıların üretimi ve karekterizasyonu, 2018 - 2020

ESEN M., İLHAN İ., Project Supported by Higher Education Institutions, Electromagnetic absorbance properties of a textile material coated using filtered arcphysical vapor deposition method, 2016 - 2016

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

Metrics

Publication: 64
Citation (WoS): 70
Citation (Scopus): 124
H-Index (WoS): 4
H-Index (Scopus): 4

Non Academic Experience

Business Establishment Private, Koçsistem Bilgi İletişim Teknolojileri A.Ş., Donanım
Koç Sistem Bilgi iletişim A.Ş., saha network uzmanı