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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-5624-2018

ScopusID: 6507730785

Yoksis Researcher ID: 11136

Education Information

Doctorate, Sabanci University, Fen Bilimleri Enstitüsü, Malzeme Bilimi Ve Mühendisliği (Dr), Turkey 2004 - 2011

Postgraduate, Bogazici University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), Turkey 2002 - 2004

Undergraduate, Koc University, Fen Fakültesi, Fizik Bölümü, Turkey 1996 - 2001

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Predicting properties of proteins and polymers by coarse- grained methods and using nanoprobess, Sabanci University, Fen Bilimleri Enstitüsü, Malzeme Bilimi Ve Mühendisliği (Dr), 2011

Postgraduate, Nanokristal yapıli silisyumlarda sıcaklığa ve lazer gücüne bağıli fotoışima, Bogazici University, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), 2004

Research Areas

Optical Properties, Polymeric Materials, Material Characterization, Nanomaterials, Structure-Property Relationship

Academic Titles / Tasks

Ondokuz Mayıs University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2012 - Continues
Research Assistant, Sabanci University, Mühendislik Ve Doğa Bilimleri Fakültesi, 2004 - 2011

Academic and Administrative Experience

Courses

Polymer Physics, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Introduction to Materials Science, Undergraduate, 2022 - 2023, 2021 - 2022, 2017 - 2018
Computer Based Methods in Protein Structure and Dynamics, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019
Malzeme Biliminde Simulasyon Teknikleri, Postgraduate, 2022 - 2023, 2016 - 2017, 2015 - 2016, 2014 - 2015
Computer Programming, Undergraduate, 2020 - 2021, 2019 - 2020
Nanomaterials in Photovoltaic Technology, Postgraduate, 2020 - 2021
Scanning Probe Microscopy, Doctorate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Polymer Engineering, Undergraduate, 2020 - 2021, 2019 - 2020
Introduction to Materials Science, Undergraduate, 2019 - 2020
Güneş Pili Teknolojisi, Postgraduate, 2019 - 2020, 2018 - 2019, 2015 - 2016
Computational Techniques in Nanoscience, Postgraduate, 2019 - 2020, 2017 - 2018, 2015 - 2016
Nanomaterials in Photovoltaic Technology, Postgraduate, 2019 - 2020
Polymeric Materials, Undergraduate, 2019 - 2020
Materials Science I, Undergraduate, 2018 - 2019, 2017 - 2018
Polimer Fiziği, Undergraduate, 2018 - 2019, 2016 - 2017, 2013 - 2014, 2012 - 2013
Introduction to Materials Engineering, Undergraduate, 2018 - 2019, 2016 - 2017
Enerji Dönüşümü ve Depolama Malzemeleri, Postgraduate, 2018 - 2019, 2016 - 2017
Introduction to Computer Programming, Undergraduate, 2017 - 2018
Nanotechnology Applications in Industry, Postgraduate, 2017 - 2018
Biyomalzemeler ve Uygulama Alanları, Undergraduate, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2012 - 2013
Mühendislikte Optimizasyon, Postgraduate, 2017 - 2018
İleri Nanomalzemeler ve Uygulamaları, Postgraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015
Materials Science II, Undergraduate, 2017 - 2018
Malzeme Bilimi II, Undergraduate, 2016 - 2017
Photovoltaic Technology, Postgraduate, 2016 - 2017
Polimer Mühendisliği, Undergraduate, 2016 - 2017, 2015 - 2016
Surface Science and Technology, Postgraduate, 2016 - 2017
İleri Karakterizasyon Teknikleri, Postgraduate, 2016 - 2017
Malzeme Bilimi I, Undergraduate, 2016 - 2017, 2013 - 2014
Biyomalzemeler ve Uygulamaları, Undergraduate, 2015 - 2016
Mesleki İngilizce, Undergraduate, 2015 - 2016, 2012 - 2013
Malz El. Opt. ve Man. Özellikleri, Undergraduate, 2015 - 2016
Nanocarbon Technology, Doctorate, 2015 - 2016
Malzeme Karakterizasyon Teknikleri, Undergraduate, 2015 - 2016, 2014 - 2015, 2012 - 2013
Synthesis and Application of Nanomaterials, Postgraduate, 2015 - 2016
Taşınım Olayları, Undergraduate, 2015 - 2016, 2012 - 2013
Nanomalzemeler ve Nanoteknoloji, Undergraduate, 2014 - 2015
Malzeme Seçimi ve Tasarımı, Undergraduate, 2013 - 2014, 2012 - 2013
Metalik Malzemeler, Undergraduate, 2013 - 2014, 2012 - 2013
Termodinamik I, Undergraduate, 2013 - 2014
Elektriksel Malzemeler, Undergraduate, 2013 - 2014
Katılma Teorisi, Undergraduate, 2012 - 2013
Isıl İşlemler , Undergraduate, 2012 - 2013
Malz. El. Opt. ve Man. Özellikleri, Undergraduate, 2012 - 2013
Korozyon, Undergraduate, 2012 - 2013

Malzeme Karakterizasyon Teknikleri, Undergraduate, 2011 - 2012
Biyomalzemeler ve Uygulama Alanları, Undergraduate, 2011 - 2012
Isıl İşlemler , Undergraduate, 2011 - 2012
Katılma Teorisi, Undergraduate, 2011 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Using adaptive slicing method and variable binder amount algorithm in binder jetting**
Baş H., Yapıcı F., İnanç İ.
RAPID PROTOTYPING JOURNAL, vol.29, no.8, pp.1730-1741, 2023 (SCI-Expanded)
- II. **The structural and ionic conductivity analysis of poly(ethylene oxide)/LiTFSI/MOF-5 nanocomposite electrolytes by using molecular dynamics simulations**
Ozlek M., BURGAZ E., İnanç İ., Andaç M.
IONICS, vol.28, no.7, pp.3255-3268, 2022 (SCI-Expanded)
- III. **The impact of polymer additive for N95 masks on gamma-ray attenuation properties**
KILIÇOĞLU MEHMETCİK Ö., KARA Ü., İnanç İ.
MATERIALS CHEMISTRY AND PHYSICS, vol.260, 2021 (SCI-Expanded)
- IV. **Investigation of the effect of CNTs on the mechanical properties of LPET/glass fiber thermoplastic composites**
Demircan Ö., Al-Darkazali A., İnanç İ., Eskizeybek V.
JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, no.12, pp.1652-1673, 2020 (SCI-Expanded)
- V. **Mechanical Properties of Thermoplastic and Thermoset Composites Reinforced with 3D Biaxial Warp-knitted Fabrics**
Al-darkazali A., Colak P., Kadioglu K., Günaydin E., İnanç İ., Demircan Ö.
APPLIED COMPOSITE MATERIALS, vol.25, no.4, pp.939-951, 2018 (SCI-Expanded)
- VI. **Liposome, gel and lipogelosome formulations containing sodium hyaluronate**
Duman G., Aslan I., ÖZER A., İnanç İ., Taralp A.
JOURNAL OF LIPOSOME RESEARCH, vol.24, no.4, pp.259-269, 2014 (SCI-Expanded)
- VII. **On modifying properties of polymeric melts by nanoscopic particles**
Atilgan C., İnanç İ., Atilgan A. R.
JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS, vol.50, no.23, pp.1653-1662, 2012 (SCI-Expanded)
- VIII. **Luminescence of black silicon**
Serpenguez A., Kurt A., İnanç İ., Cary J. E., Mazur E.
JOURNAL OF NANOPHOTONICS, vol.2, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **THE IMPORTANCE OF MANUFACTURING PARAMETERS IN BINDER JETTING MEHTHOD AND AN EXAMPLE APPLICATION**
BAŞ H., YAPICI F., İNANÇ İ.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.10, no.4, pp.1354-1361, 2022 (Peer-Reviewed Journal)
- II. **Radiation resistance of novel SARS-CoV-2: A Monte Carlo investigation on characterization and determination of gamma-ray attenuation properties**
TEKİN H. O., KARA Ü., İssa S., İNANÇ İ., KILIÇOĞLU MEHMETCİK Ö., Elshami W., ASLAN İ., SÜSOY DOĞAN G., KURT A. A., KONUK M., et al.
Research Square, vol.1, 2020 (Non Peer-Reviewed Journal)

Books & Book Chapters

- I. **Screening of zeolitic imidazolate frameworks for preconcentration of hazardous chemicals**
İNANÇ İ., YAZAYDIN O.
in: NATO Science for Peace and Security Series A Chemistry and Biology, 2015, Terri A. Camesano, Editor, Springer, Dordrecht, pp.177-189, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **INVESTIGATION OF PLASTIC WASTE FOR ELECTROCHROMIC WINDOWS FABRICATION**
Akpınar Sarıhan Ö., İNANÇ İ.
Cooperation for Climate and Green Deal Symposium, Samsun, Turkey, 24 October 2022, vol.1
- II. **FABRICATION OF Nano-MoS₂+hBN REINFORCED Al₁₂Si ALLOYS BY POWDER METALLURGY**
Al-Obaidi M. F. J., İNANÇ İ.
8. Uluslararası 19 Mayıs Yenilikçi Bilimsel Yaklaşımlar Kongresi, Samsun, Turkey, 23 - 24 November 2022, vol.8, pp.159-166
- III. **Fabrication of hBN-PEO based Electrochromic Devices Using Sol-Gel Process**
Akpınar Sarıhan Ö., İNANÇ İ.
2nd International Congress of Engineering and Natural Sciences Studies (ICENSS), Ankara, Turkey, 07 May 2022, vol.1, pp.412-424
- IV. **Using MoS₂ & BN Nano Particles for Manufacturing Self-Lubrication Nanocomposites by Powder Metallurgy**
Al-Obaidi M. F. J., İNANÇ İ.
2nd International Congress of Engineering and Natural Sciences Studies (ICENSS), Ankara, Turkey, 07 May 2022, vol.1, pp.63-64
- V. **Whiteness Index of Discolored CAD/CAM Materials After Dental Bleaching**
GÖNÜLOL N., ALMASİFAR L., CABADAĞ Ö. G., MİSİLLİ T., İNANÇ İ.
10th CONSEURO, Turkey, 22 April 2021, pp.128
- VI. **Preparation and Characterization of Colloid Silver Nanoparticles and Their Antimicrobial Activity**
AL AIROA A., İNANÇ İ., AY H.
2. ULUSLARARASI 19 MAYIS YENİLİKÇİ BİLİMSEL YAKLAŞIMLAR KONGRESİ, 27 - 29 December 2019
- VII. **THE CHARACTERIZATION OF PEROVSKITE SOLAR CELLS WITH ARDUINOBASED DATA LOGGER AND SOLAR TRACKER DEVICE**
FAILI T. K. C., İNANÇ İ.
2. ULUSLARARASI 19 MAYIS YENİLİKÇİ BİLİMSEL YAKLAŞIMLAR KONGRESİ, 27 - 29 December 2019
- VIII. **INVESTIGATION OF FLEXURAL PROPERTIES OF PA66/GLASS FIBER/MODIFIED-MWCNTs COMPOSITES**
ANSAROUDI N., İNANÇ İ., DEMİRCAN Ö.
2. ULUSLARARASI 19 MAYIS YENİLİKÇİ BİLİMSEL YAKLAŞIMLAR KONGRESİ, 27 - 29 December 2019
- IX. **PRODUCTION OF NOVEL TiO₂ -AGNP - YSZ THIN FILM FOR ANTIMICROBIAL AND MULTIFUNCTIONAL USAGE BY ELECTROSPRAY DEPOSITION SYSTEM**
AL AIROA A., İNANÇ İ., GÜRBÜZ M.
2. ULUSLARARASI 19 MAYIS YENİLİKÇİ BİLİMSEL YAKLAŞIMLAR KONGRESİ, 27 - 29 December 2019
- X. **ATIK AKTİF KARBON KATKILI CAM ELYAF KUMAŞ TAKVİYELİ KOMPOZİT PANEL ÜRETİMİ VE MEKANİK ÖZELLİKLERİNİN İNCELENMESİ**
KALAYCI A., İNANÇ İ.
2. ULUSLARARASI 19 MAYIS YENİLİKÇİ BİLİMSEL YAKLAŞIMLAR KONGRESİ, 27 - 29 December 2019
- XI. **PA 66/CAM ELYAF/COOH-MWCNT'Lİ KOMPOZİTLERİN ÇEKME ÖZELLİKLERİNİN ARAŞTIRILMASI**
ANSAROUDI N., İNANÇ İ., DEMİRCAN Ö.
2. ULUSLARARASI 19 MAYIS YENİLİKÇİ BİLİMSEL YAKLAŞIMLAR KONGRESİ, 27 - 29 December 2019
- XII. **DETERMINATION OF THE INTERACTION BETWEEN AMINO ACIDS AND GOLD NANOPARTICLES: MOLECULAR SIMULATION STUDY**

NİAZİ M., İNANÇ İ.

ULUSLARARASI 19 MAYIS MULTİDİSİPLİNER ÇALIŞMALARKONGRESİ, 17 - 19 May 2019

- XIII. **ATOMİK SEVİYEDEKİ SİMULASYONLAR KULLANILARAK MOF-5KATKILI POLİ (ETİLEN OKSİT) NANOKOMPOZİT ELEKTROLİTİN İYONİKİLETKENLİK ÖZELLİKLERİNİN İNCELENMESİ**

ÖZLEK M., BURGAZ E., İNANÇ İ.

ULUSLARARASI 19 MAYIS MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, 17 - 19 May 2019

- XIV. **Effect of Various Matrix Types on Mechanical Properties of Thermoplastic Composites Reinforced with 3D Biaxial Warp- Knitted Fabric**

Aldarkazali A., İNANÇ İ., DEMİRCAN Ö.

Proceedings of the 8th World Conference on 3D Fabrics and Their Applications, 28 - 29 March 2018

- XV. **Molecular Modeling and Simulation of Amino-Functionalized MCM-41 for CO₂ and SO₂ Adsorption**

Alshaer A., İNANÇ İ.

NanoTR 2017: 13th Nanoscience Nanotechnology Conference, 22 - 25 November 2017

- XVI. **Modeling and Simulation of New Generation Perovskite Solar Cell**

Alshaer A., İNANÇ İ.

NanoTR 2017: 13th Nanoscience Nanotechnology Conference, 22 - 25 November 2017

- XVII. **Printing a Tensile Sample from the FDM Type 3D Printer**

BAŞ H., YAPICI F., İNANÇ İ.

1st International Symposium on Multidisciplinary Studies and Innovative Technologies, 2 - 04 November 2017

- XVIII. **Effect of Various Matrix Types on the Tensile and Bending Properties of Thermoplastic Composites**

Aldarkazali A., İNANÇ İ., DEMİRCAN Ö.

3rd Joint Turkey-Japan Workshop on Polymeric Composite Materials, 5 - 07 July 2017

- XIX. **Effect of Integration of Carbon Nanotubes (CNTs) on the Mechanical Properties of Thermoplastic Composites**

Aldarkazali A., İNANÇ İ., DEMİRCAN Ö.

3rd Joint Turkey-Japan Workshop on Polymeric Composite Materials, 5 - 07 July 2017

- XX. **Effect of Integration of Carbon Nanotubes (CNTs) on the Tensile and Bending Properties of Thermoplastic Composites**

Aldarkazali A., İNANÇ İ., DEMİRCAN Ö.

EuroNanoForum 2017, 21 - 23 June 2017

- XXI. **Karbon Nanotüp (KNT) katkıli termoplastik tabanlı kompozit malzemelerin mekanik özelliklerinin araştırılması**

ALDARKAZALI A., İNANÇ İ., DEMİRCAN Ö.

2. ULUSLARARASI LİF ve POLİMER ARAŞTIRMALARI SEMPOZYUMU, 27 - 28 April 2017

- XXII. **Effect of nanomaterials on the mechanical properties of thermoplastic composites for the application of aeronautics industry**

Aldarkazali A., İNANÇ İ., DEMİRCAN Ö.

2nd International Defense Industry Symposium, 6 - 07 April 2017

- XXIII. **Effect of matrix type on the mechanical properties of thermoplastic composites for the application of aeronautics industry**

Aldarkazali A., İNANÇ İ., DEMİRCAN Ö.

2nd International Defense Industry Symposium, 6 - 07 April 2017

- XXIV. **Screening of Zeolitic Imidazolate Frameworks for Preconcentration of Hazardous Chemicals**

Inanc I., Yazaydin O.

NATO Advanced Research Workshop on Nanotechnology to Aid Chemical and Biological Defense, Antalya, Turkey, 22 - 26 September 2014, pp.177-189

- XXV. **Calculation of Henry's coefficients for Toxic Chemicals in Zeolitic Imidazolate Frameworks**

İNANÇ İ., OZGUR Y.

NATO's Advanced Research Workshop on "Nanotech. to Aid Chem. and Bio. Defense, 22 - 24 September 2014

- XXVI. **Effect of van der Waals Interaction Strength and Nanocluster Size on the Dynamical and Mechanical Properties of 1,4-cis polybutadiene Melts**

ATILGAN C., İNANÇ İ., ATILGAN A. R.

MRS Proceedings, 28 November - 02 December 2011, vol.1424, pp.121-126

XXVII. Linear Viscoelastic Properties of Polybutadiene Melts Probed by Nanoclusters MD Simulations and Experiments

İNANÇ İ., ATILGAN C., ATILGAN A. R.

18. İstanbul İstatistiksel Fizik Günleri, İstanbul, Turkey, 30 June - 02 July 2011

XXVIII. Long range structural regularities and collectivity of folded proteins

ATILGAN C., İNANÇ İ., ATILGAN A. R.

2009 MRS Fall Meeting, 30 November - 04 December 2009, vol.1227, pp.41-46

XXIX. Lipozom Formülasyonları ve Farklı Görüntüleme Teknikleri

ASLAN İ., DUMAN G., ÖZER A. Y., İNANÇ İ., Taralp A.

Kozmetik Kimyası Kongresi, Antalya, Turkey, 18 - 20 February 2010

XXX. Katlanmış Proteinlerin Yapısal Düzenlilikleri ve Kollektif Özellikleri

İNANÇ İ., ATILGAN A. R., ATILGAN C.

16. İstanbul statistiksel Fizik Günleri, İstanbul, Turkey, 25 - 27 June 2009

XXXI. Directing Bottom Up Assembly of Gold Nanoparticle with Structured Polymer Template

İNANÇ İ., BALKAN M., TARALP A., OWYANG GÜLGÜN C.

NanoTr IV Ulusal Nanobilim ve Nanoteknoloji Konferansı, İstanbul, Turkey, 9 - 13 June 2008

XXXII. Temperature dependence of photoluminescence in noncrystalline silicon

İNANÇ İ., SERPENGÜZEL A., KURT A., Mazur E., Carey J.

Proceedings of the Society of Photo-Optical Instrumentation Engineers Symposia: Physics and Simulation of Optoelectronic Devices XII, San Jose, California, United States Of America, 24 - 29 January 2004

Supported Projects

İnanç İ., Project Supported by Higher Education Institutions, Perovskite Güneş Pillerinde Kullanılan Nanomalzemelerin Sentezi, 2022 - 2023

İnanç İ., Project Supported by Higher Education Institutions, Elektrikli Araç Tasarımı ve İmalatı, 2022 - 2023

İnanç İ., Project Supported by Higher Education Institutions, ARDUİNO TABANLI DÖNDÜREREK KAPLAMA CİHAZI ÜRETİLEREK ELEKTROKROMİK FİLM GELİŞTİRİLMESİ, 2021 - 2022

İnanç İ., Project Supported by Higher Education Institutions, AL-Sİ HİBRİT NANO KOMPOZİTLERİN ÜRETİMİ VE OPTİMİZASYONU, 2021 - 2022

İnanç İ., Project Supported by Higher Education Institutions, Otomotiv endüstrisinde kullanılmak üzere BNNT'ler ile entegre termoset kompozitlerin üretimi, 2020 - 2021