

Assoc. Prof. Cenk DENKTAŞ

Personal Information

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International Researcher IDs

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Yoksis Researcher ID: 189760

Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics,
Turkey 2000 - 2006

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Natural Sciences

Academic Titles / Tasks

Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Fizik, 1998 - Continues

Courses

Undergraduate

Physics II, Undergraduate, 2022 - 2023, 2021 - 2022

Physics I, Undergraduate, 2022 - 2023

Acoustic Physics, Undergraduate, 2021 - 2022

Atom ve Molekül Fiziği, Undergraduate, 2022 - 2023, 2021 - 2022

Sound Physics, Undergraduate, 2022 - 2023, 2021 - 2022

Physics 3, Undergraduate, 2021 - 2022

Temel Fizik, Undergraduate, 2021 - 2022

Supervised Theses

Denktaş C., Applications of kinetic theory to economics, Postgraduate, A.BORA(Student), Continues

Denktaş C., PREPARATION OF PROBIOTIC-BASED ARTIFICIAL BONE TISSUE, Postgraduate, N.ÇELİKKAYA(Student),
Continues

Denktaş C., DEVELOPING PVA-BASED ARTFIFICAL TISSUE FOR SPINAL CORD APPLICATIONS, Postgraduate,
B.ÖZER(Student), Continues

Denktaş C., PREPARATION OF COLLAGEN-BASED ARTIFICIAL MUSCLE, Postgraduate, B.DİLАН(Student), Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluating Activated Carbon Doped PVA/Starch Membrane as a Tissue Patch**
Yıldırım M. A., Çelikkaya N., DENKTAŞ C.
Polymers for Advanced Technologies, vol.36, no.1, 2025 (SCI-Expanded)
- II. **Evaluation of the Mechanical Strength and Cell Adhesion Capacity of POSS Doped PVA/CMC Hernia Patch**
Akkurt Yıldırım M., Özer B., TÜRKOĞLU N., DENKTAŞ C.
Macromolecular Bioscience, vol.24, no.10, 2024 (SCI-Expanded)
- III. **Fabrication of electrospun nanofibrous clinoptilolite doped thermoplastic polyurethane scaffolds for skeletal muscle tissue engineering**
Akkurt Yıldırım M., Türkoğlu N., Denktaş C.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.140, no.1, pp.1-13, 2023 (SCI-Expanded)
- IV. **Improving dielectric properties of composites thin films with polylactic acid and PZT microparticles induced by interfacial polarization**
Bouiri E. M., Farhan R., Chakhchoui N., Oumghar K., Denktas C., Eddiai A., Meddad M., Mazroui M., Cherkaoui O., Omari L. E. H.
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol.97, 2022 (SCI-Expanded)
- V. **Influence of ultraviolet radiation on structural and uniaxial tensile characteristics of tannic acid/poly (vinyl alcohol) composite films**
AKSAKAL B., DENKDAŞ C., BOZDOĞAN A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.24, 2022 (SCI-Expanded)
- VI. **Development and characterization of sodium alginate/bifidobacterium probiotic biohybrid material used in tissue engineering**
Denktas C., Baysoy D. Y., Bozdoğan A., Bozkurt H. S., Bozkurt K., Özdemir O., Yılmaz M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.18, 2022 (SCI-Expanded)
- VII. **Biodegradation of microplastic by probiotic bifidobacterium**
Bozkurt H. S., Civelek Yörüklü H., Bozkurt K., Denktas C., Bozdoğan A., Özdemir O., Özkan B.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.26, no.4, pp.429-443, 2022 (SCI-Expanded)
- VIII. **Prestretching effect and recovery process of polyvinyl alcohol film crosslinked with tartaric acid**
Bozdoğan A., Aksakal B., Denktas C., Salt Y.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.137, no.46, 2020 (SCI-Expanded)
- IX. **Mechanical and film formation behavior from PDMS/NaY zeolite composite membranes**
Denktas C.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.137, no.15, 2020 (SCI-Expanded)
- X. **Polyvinyl Alcohol/EuBa₂Ca₂Cu₃O_{9-x} Composites: Dielectric and Mechanical Properties**
Süngü Mısırlıoğlu B., Ozdemir Z., Aksakal B., Salt Y., Tırnakçı B., Denktaş C.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, pp.1968-1979, 2018 (SCI-Expanded)
- XI. **Effect of IR heating and the annealing time on the optical transmittance of polystyrene/Na-Alginate polymer composite films**
Yargı Ö., Gelir A., Sarlı B., Sahinturk U., Aksakal B., Denktaş C.
PROGRESS IN ORGANIC COATINGS, vol.117, pp.146-153, 2018 (SCI-Expanded)
- XII. **Effect of multi wall carbon nanotube on electrical properties 4-[4-((S)-Citronellyloxy)benzoyloxy]benzoic acid liquid crystal host**
Denktaş C., Ocak H., Okutan M., Yıldız A., Eran B. B., Koysal O.
Composites Part B: Engineering, vol.82, pp.173-177, 2015 (SCI-Expanded)
- XIII. **Optical characterization of spin-coated cobalt porphyrazine thin films: effect of annealing temperature**
KOÇ K., KESKİN B., DENKTAŞ C.
PHILOSOPHICAL MAGAZINE LETTERS, vol.95, no.10, pp.511-518, 2015 (SCI-Expanded)

- XIV. Electricity generating capacity and performance deterioration of a microbial fuel cell fed with beer brewery wastewater
 KÖROĞLU E. O., ÖZKAYA B., DENKTAS C., ÇAKMAKCI M.
 JOURNAL OF BIOSCIENCE AND BIOENGINEERING, vol.118, no.6, pp.672-678, 2014 (SCI-Expanded)
- XV. Change of surface and structure properties of cation exchange membrane in a microbial fuel cell
 ÖZKAYA B., DENKTAŞ C., ÇETİNKAYA A. Y., ÇAKMAKCI M., KARADAĞ D., ŞAHINKAYA E.
 INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.6, pp.222-233, 2014 (SCI-Expanded)
- XVI. Synthesis of Ni(II) porphyrazine peripherally 4-tert-butylbenzylthio moiety and electronic Schottky barrier diode octa-substituted with the properties of the Al/Ni(II)Pz/p-Si Schottky barrier diode
 KESKİN B., DENKTAŞ C., ALTINDAL A., Avciata U., Gül A.
 POLYHEDRON, vol.38, no.1, pp.121-125, 2012 (SCI-Expanded)
- XVII. Influence of apple flavor absorption on physical and mechanical properties of poly(ethylene terephthalate) films
 DENKTAS C., YILDIRIM H., San N.
 JOURNAL OF APPLIED POLYMER SCIENCE, vol.99, no.4, pp.1802-1807, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. Performance of Chitosan/Carbon Nanotube-Coated Ultrafiltration Membranes for Natural Organic Matter Removal from Drinking Water
 ZENGİN İ. H., ÇAKMAKCI M., BüYÜKBÜEROĞLU F. B. Y., KARADAĞ D., DENKTAŞ C., AVCIATA O., ÇETİNKAYA A. Y.
 JOURNAL OF ANATOLIAN ENVIRONMENTAL AND ANIMAL SCIENCES, vol.9, no.2, pp.257-268, 2024 (Peer-Reviewed Journal)
- II. Investigation of Molecular Dynamics of Peptides Bound with HLA * B51: 01 Protein
 Denkdaş C., Cantürk Rodop M.
 Tamap Journal of Physical Sciences, no.2021, pp.1-11, 2021 (Peer-Reviewed Journal)
- III. Investigation of Binding Free Energy of Different Peptides by Jarzynski's Equation
 Denkdaş C., Cantürk Rodop M.
 Tamap Journal of Physical Science, no.2019, pp.1-7, 2019 (Peer-Reviewed Journal)
- IV. Preparation and Characterization of PDMS/SiO₂ Mixed Matrix Membranes for Separation of Bio-alcohols from Fermentation Broth
 Demet B., Salt Y., Denkdaş C., Özkaia B.
 European Journal of Chemistry, Environment and Engineering Sciences, vol.3, no.1, pp.1-8, 2019 (Peer-Reviewed Journal)
- V. The influence of crosslinking temperature on the spectroscopic, thermal, and mechanical properties of poly(vinyl alcohol)/zeolite composites
 DENKTAŞ C.
 TURKISH JOURNAL OF PHYSICS, vol.43, no.2, pp.196-206, 2019 (ESCI)

Books

- I. Ses Fiziği
 DENKDAŞ C.
 EFE AKADEMİ, 2020

Papers Published in Refereed Scientific Meetings

- I. Investigation of the structure of sodium alginate (SA)/Bifidobacterium animalis subsp. lactis BB-12

- probiotic biohybrid films**
Yılmaz M., Denkdaş C., Yılmaz Baysoy D., Bozdoğan A., Bozkurt H. S., Bozkurt K., Özdemir O.
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.251
- II. Conformational Flexibility of Different Peptides Antigen in Free with HLA-B51 Molecules investigated by molecular dynamics simulations**
DENKDAŞ C.
Turkish Physical Society-35th International Physics Congress (TPS-35), 4 - 08 September 2019
- III. Effect of Pre-Stretching Following Short Term Stress-Relaxation on Mechanical Performance of Polyvinyl Alcohol Membrane Crosslinked with Tartaric Acid**
Aksakal B., Bozdoğan A., Denktaş C., Salt Y.
Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, pp.1
- IV. Effect of crosslinking concentration on mechanical performance of polyvinyl alcoholmembrane crosslinked with tsrtaric acid**
BOZDOĞAN A., AKSAKAL B., DENKDAŞ C., SALT Y.
Turkish physical society 35th international physics congress, Muğla, Turkey, 4 - 08 September 2019, pp.329
- V. Effect of Crosslinking Concentration on Mechanical Performance of Polyvinyl Alcohol Membrane Crosslinked with Tartaric Acid**
Bozdoğan A., Aksakal B., Denktaş C., Salt Y.
Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, pp.1
- VI. Mechanical and Microstructure Behaviors of PDMS/zeolite Composite Membranes**
DENKDAŞ C.
International Conference on Sustainable Energy and Energy Calculations, 12 - 14 April 2019
- VII. Preparation and Characterization of PDMS/SiO₂ Mixed Matrix Membranes for Separation of Bio-alcohols from Fermentation Broth**
demet b., SALT Y., DENKDAŞ C., ÖZKAYA B.
4 th Recycle and Reuse Conference, 24 - 26 October 2018
- VIII. Investigation of Microstructure and Thermal Properties of PVA Polymer Matrices**
DENKDAŞ C.
Turkish Physical Society 34 th Internrtional Physics Congress, 5 - 09 September 2018
- IX. Polyethyleneglycol (PEG) with Chewing Gum Additive For Dielectric Applications**
ÇALIŞKAN M., DENKDAŞ C., KURUOĞLU F., SERİN M.
Turkish Physical Society 34nd International Physics Congrees, Muğla, Turkey, 05 September 2018
- X. Steered Molecular Dynamics (SMD) Simulations to Unravel the Binding Mechanismof Different Peptides to HLA-B51, an Antigen Associated with Behcet's Disease**
DENKDAŞ C., CANTÜRK RODOP M.
7 th International Molecular Biology and Biotechnology Congress, 25 - 27 April 2018
- XI. EuBa₂Ca₂Cu₃O_{9-x} Ceramic Additive on Micro-Structural and Mechanical Properties of Polyvinil Alcohol (PVA)**
Güven Özdemir Z., Süngü Mısırlıoğlu B., Aksakal B., Tırnakçı B., Salt Y., Denkdaş C.
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), Nevşehir, Turkey, 11 - 13 October 2017, pp.49
- XII. 2nd International Conference on Viable Energy Trends (InVENt-2017)**
DENKDAŞ C., GÜVEN ÖZDEMİR Z., SÜNGÜ MISIRLIOĞLU B., Yılmaz Baysoy D., SALT Y.
2nd International Conference on Viable Energy Trends (InVENt-2017), Helsinki, Finland, 28 April 2017, pp.189-197
- XIII. THE IMPACT OF DIFFERENT TYPE OF ZEOLITES ON DIELECTRIC SPECTRUM OF POLYVINYL ALCOHOL**
DENKDAŞ C., GÜVEN ÖZDEMİR Z., SÜNGÜ MISIRLIOĞLU B., Yılmaz Baysoy D., SALT Y.
2nd International Conference on Viable Energy Trends (InVENt-2017), Helsinki, Finland, 28 April 2017, pp.189-197
- XIV. SEMI-EMPIRICAL &RHF GEOMETRY OPTIMIZATION AND MINIMIZATION ANALYSIS OF TAMOXIFEN MOLECULE**

- Uzun B., Denktaş C., Cantürk Rodop M.
 FROM COMPUTATIONAL BIOPHYSICS TO SYSTEMS BIOLOGY, Ankara, Turkey, 23 - 25 December 2016, pp.41
- XV. Effect of Surface Coating on Drinking Water Production Performance of UF Membrane
 zengin i., YAMAN F. B., DENKDAŞ C., KARADAĞ D., ÇAKMAKCI M.
 International Symposium of Water and Wastewater Management, 26 - 28 October 2016
- XVI. INVESTIGATION OF TAMOXIFEN MOLECULE BINDING TO ESTROGEN RECEPTOR ALPHA AND BETA USING STEERED MOLECULAR DYNAMICS
 uzun b., DENKDAŞ C., CANTÜRK RODOP M.
 32nd International Physics Congress, 6 - 09 September 2016
- XVII. INVESTIGATION OF TAMOXIFEN MOLECULE BINDING TO ESTROGEN RECEPTOR ALPHA AND BETA USING STEERED MOLECULAR DYNAMICS
 DENKTAŞ C., UZUN B., CANTÜRK RODOP M.
 Turkish Physical Society 32nd International Physics Congress, Bodrum, Turkey, 6 - 09 September 2016
- XVIII. Mikrobiyal Yakıt Hücreleri
 DENKDAŞ C.
 akademik Seminer, 01 June 2016
- XIX. Semi Empirical RHF Geometry Optimizaton and Minimization Analysis of Tamoxifen Molecule
 uzun b., DENKDAŞ C., CANTÜRK RODOP M.
 From Computational Biophysics to Systems biology CBSB16, 23 - 25 May 2016
- XX. Electrical mechanism of Basalts with Polyaniline pani composites
 Karabul Y., Yılmaz M. A., Denktaş C., Okutan M., İçelli O.
 1st İnternational Conference on Organic Electronic Material Technologies (OEMT'2015), Elazığ, Turkey, 25 - 28 March 2015
- XXI. DOSE RATE DEPENDENT EFFECTS OF BETA AND GAMMA IRRADIATION ONCHITOSAN FILMS
 DENKDAŞ C., YILMAZ BAYSOY D., KAM E.
 4 th International Conference Mechanical Technology and Structural Materials 2014, 25 - 26 September 2014
- XXII. Preparation and Characterization of PVA/ZnO Nanohybrid Membrane
 Can N., Okur N., Elgün G., Gök H., Y.Baysoy D., Kam E., Denktaş C.
 Turkish Physical Society 29th International Physics Congress (TFD29) 5-8 September, Muğla, Turkey, 5 - 08 September 2012, pp.375
- XXIII. Preparation and Characterization of Sodium Alginate/ZnO Bio-Nanohybrid Membranes
 Y. Baysoy D., Gök H., KAM E., Denktaş C.
 Turkish Physical Society 29th İnternational Physical Congress, 01 September 2012
- XXIV. The study of the effect of solvents absorption in PET packaging films
 DENKDAŞ C., YILDIRIM H.
 6 th international conference of the Balkan Physicls Union, 03 September 2006

Supported Projects

DENKTAŞ C., TÜRKOĞLU N., CAN ÖMÜR B., YILMAZ BAYSOY D., ÇELİKKAYA N., AKKÖSE M., ALEMDAR A., Project Supported by Higher Education Institutions, Mür Yağı Katkilandırılmış İpek Fibroinden İpek İplik Üretimi, 2024 - Continues

CAN N., DENKTAŞ C., CAN ÖMÜR B., ALEMDAR A., Çelikkaya N., VARLI MA H. S., Project Supported by Higher Education Institutions, Yeşil Kimya ile Üretilen Altın Nanopartikülle Katkilandırılmış Agaroz Hyaluronik Asit Yara Örtüsü Geliştirmek ve Karakterize Etmek, 2024 - Continues

BOZKURT K., EREN T., AY H., DENKTAŞ C., VARLI MA H. S., Project Supported by Higher Education Institutions, Antarktika Horseshoe Adasından izole edilen yeni Aktinobakteri türleri ile farklı konsantrasyonlarda Bifidobakterileri kullanarak elde edilecek polimer tabanlı biyofilmlerin üretilmesi karakterizasyonu ve biyobozunurluğu, 2024 - Continues

DENKTAŞ C., ACARTÜRK A. B., YILMAZ BAYSOY D., TÜRKOĞLU N., AKKÖSE M., Project Supported by Higher Education Institutions, Katran Reçinesi Katkilandırılmış İletken Yara Örtüsü, 2024 - Continues

DENKTAŞ C., AYDIN A., Project Supported by Higher Education Institutions, İLETKEN YAPAY KEMİK, 2024 - Continues
Ay H., Sel S., Türkoğlu N., Denktaş C., TUBITAK Project, Production of Microbial Melanin from Novel Actinobacteria with Potential Application in Pharmaceutics and Industry, 2024 - 2026

Yüce S., Denktaş C., Sezer Y., Türkoğlu N., Karaçay İ. E., Acartürk A. B., Aydin , Ghaffarı Vahdat K. Z., Project Supported by Higher Education Institutions, Üç Boyutlu Yazıcıda Basılmış Scutoid Yapıarda Hücre Davranışının İncelenmesi, 2024 - 2025

Denkdaş C., Türkoğlu N., Akkurt Yıldırım M., Çelikkaya N., Project Supported by Higher Education Institutions, PRODUCTION OF PROBIOTIC-IMPROVED THERMOPLASTIC STARCH (TPN)/POLYVINYL ALCOHOL (PVA) BASED BONE SCAFFOLDING, 2023 - 2025

DENKTAŞ C., TÜRKOĞLU N., AKKURT YILDIRIM M., ÖZER B., Project Supported by Higher Education Institutions, Fıtık Onarımında Kullanılmak Üzere Membranların Hazırlanması ve Karakterize Edilmesi, 2023 - 2024

Denkdaş C., Gökkaya M. E., Aluç T., Aksan M., TUBITAK Project, Investigation of Deterioration Behavior of Tannic Acid Crosslinked Carboxymethyl-Starch/Zeolite Composite Films under UV Light, 2023 - 2024

Denkdaş C., Özer B., Project Supported by Higher Education Institutions, Developing polymer-based artificial tissue for spinal cord application, 2023 - 2024

Denkdaş C., Bozkurt K., Özkaia B., Türkoğlu N., Kantürk Figen A., Development Agency, Recovery Test and Research Center (GETAM), 2023 - 2024

DENKTAŞ C., SALT Y., BOZDOĞAN A., AKSAKAL B., ÇALIŞKAN M., YARGI Ö., Project Supported by Higher Education Institutions, PVA Tabanlı Karışık Matriks Membranların KMM Mekanik ve Termal Davranışlarının İncelenmesi, 2020 - 2023

DENKTAŞ C., Project Supported by Higher Education Institutions, HLA-B*51:01 ile ilişkili olan peptitlerinin moleküler dinamik simülasyon yöntemi ile incelemesi, 2015 - 2018

DENKTAŞ C., Project Supported by Higher Education Institutions, HLA*B52:01 proteini ile bağlı olan peptidlerin sistemlerinin Yönlendirmeli Moleküler Dinamik İncelenmesi, 2015 - 2017

Denkdaş C., Çakmakçı M., TUBITAK Project, Yüzeyi Kaplanmış Ultrafiltrasyon Membranları ile İçme Suyu Kaynaklarındaki Organik Maddelerin Arıtılabilirliği, 2012 - 2014

Özkaia B., Karadağ D., Denktaş C., Çetinkaya A. Y., Baysoy D. Y., TUBITAK Project, Yeni Geliştirilen Çapraz Akışlı Çoklu Tüp Mikrobiyal Yakıt Hücresi İle Evsel Atıksu Akımından Elektrik Enerjisi Üretimi, 2012 - 2014

Scientific Project Refereeing

Project Supported by Higher Education Institutions, BAP Infrastructure, May 2021

Metrics

Publication: 47

Citation (WoS): 60

Citation (Scopus): 102

H-Index (WoS): 5

H-Index (Scopus): 6

Congress and Symposium Activities

EuBa₂Ca₂Cu₃O_{9-x} Ceramic Additive on Micro-structural and Mechanical properties of Polyvinyl Alcohol (PVA), Attendee, Nevşehir, Turkey, 2017

THE IMPACT OF DIFFERENT TYPE OF ZEOLITES ON DIELECTRIC SPECTRUM OF POLYVINYL ALCOHOL, Attendee, Helsinki, Finland, 2017

Akademik seminer, Invited Speaker, İstanbul, Turkey, 2016

Awards

Denktaş C., Özkaya B., Çakmakçı M., Electricity generating capacity and performance deterioration of a microbial fuel cell fed with beer brewery wastewater, The Society Of Biotechnology Japan, November 2015