

Assoc. Prof. Cenk DENKTAŞ

Personal Information

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International Researcher IDs

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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

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

Advising 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 ARTIFICIAL TISSUE FOR SPINAL CORD APPLICATIONS, Postgraduate,
B.ÖZER(Student), Continues
Denktaş C., PREPARATION OF COLLAGEN-BASED ARTIFICIAL MUSCLE, Postgraduate, B.DİLAN(Student), Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluation of the Mechanical Strength and Cell Adhesion Capacity of POSS Doped PVA/CMC Hernia Patch**
Akkurt Yıldırım M., Özer B., TÜRKÖĞLU N., DENKTAŞ C.
Macromolecular Bioscience, vol.24, no.10, 2024 (SCI-Expanded)
- II. **Fabrication of electrospun nanofibrous clinoptilolite doped thermoplastic polyurethane scaffolds for skeletal muscle tissue engineering**
Akkurt Yıldırım M., Türkoğlu N., Denkdaş C.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.140, no.1, pp.1-13, 2023 (SCI-Expanded)
- III. **Improving dielectric properties of composites thin films with polylactic acid and PZT microparticles induced by interfacial polarization**
Bouiri E. M., Farhan R., Chakhchaoui 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)
- IV. **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)
- V. **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)
- VI. **Biodegradation of microplastic by probiotic bifidobacterium**
Bozkurt H. S., CİVELEK YÖRÜKLÜ H., BOZKURT K., Denktas C., BOZDOĞAN A., ÖZDEMİR O., ÖZKAYA B.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.26, no.4, pp.429-443, 2022 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **Polyvinyl Alcohol/EuBa₂Ca₂Cu₃O_{9-x} Composites: Dielectric and Mechanical Properties**
Süngü Mısırlıoğlu B., Ozdemir Z., Aksakal B., Salt Y., Tırnakçı B., Denктаş C.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, pp.1968-1979, 2018 (SCI-Expanded)
- X. **Effect of IR heating and the annealing time on the optical transmittance of polystyrene/Na-Alginate polymer composite films**
Yargı Ö., Gelir A., Şarlı B., Sahinturk U., Aksakal B., Denктаş C.
PROGRESS IN ORGANIC COATINGS, vol.117, pp.146-153, 2018 (SCI-Expanded)
- XI. **Effect of multi wall carbon nanotube on electrical properties 4-[4-((S)-Citronellyloxy)benzoyloxy]benzoic acid liquid crystal host**
Denктаş C., Ocak H., Okutan M., Yıldız A., Eran B. B., Koysal O.
Composites Part B: Engineering, vol.82, pp.173-177, 2015 (SCI-Expanded)
- XII. **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)
- XIII. **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)

- XIV. **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., ŞAHİNKAYA E.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.6, pp.222-233, 2014 (SCI-Expanded)
- XV. **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)
- XVI. **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., BÜYÜKBÜBEROĞLU 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., Özkaya 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 & Book Chapters

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

Refereed Congress / Symposium Publications in Proceedings

- 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 alcohol membrane crosslinked with tartaric 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 International 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 34th International Physics Congress, Muğla, Turkey, 05 September 2018
- X. **Steered Molecular Dynamics (SMD) Simulations to Unravel the Binding Mechanism of 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 Polyvinyl Alcohol (PVA)**
Güven Özdemir Z., Süngü Mısırlıoğlu B., Aksakal B., Tırnakçı B., Salt Y., Denktaş 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 Optimizat on 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 International 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 International 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 Physicsl Union, 03 September 2006

Scientific Refereeing

Project Supported by Higher Education Institutions, BAP Infrastructure, Turkish - German University, Turkey, May 2021

Metrics

Publication: 46

Citation (WoS): 60

Citation (Scopus): 100

H-Index (WoS): 5

H-Index (Scopus): 6

Congress and Symposium Activities

EuBa2Ca2Cu3O9-x Ceramic Additive on Micro-structural and Mechanical properties of Polyvinil 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