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International Researcher IDs

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Publons / Web Of Science ResearcherID: N-8432-2017

Yoksis Researcher ID: 110526



Learning Knowledge

Doctorate 2005 - 2009	Istanbul University, Institute of Graduate Studies In Sciences, Fizik Anabilim Dalı Atom Ve Molekül Fiziği Programı, Turkey
Postgraduate 2002 - 2005	Istanbul University, Institute of Graduate Studies In Sciences, Fizik Anabilim Dalı Atom Ve Molekül Fiziği Programı, Turkey
Undergraduate 1998 - 2002	Istanbul University, Faculty Of Science, Department Of Physics, Turkey

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Eğiticinin Eğitimi, Uludağ Üniversitesi, 2018

Education Management and Planning, Computer Aided Drug Design 2017, Sanko Üniversitesi, 2017

Occupational Health and Safety, İş Güvenliği Eğitimi 2017, İstanbul Üniv. Fen Fakültesi, 2017

Education Management and Planning, Patent Eğitim Seti, Türk Patent Enstitüsü, 2014

Education Management and Planning, Girişimcilik, Tubitak/TÜSSİDE, 2013

Education Management and Planning, Arkeolojik sanat eserlerinin Raman spektroskopisi ile incelenmesi, Belçika / Ghent Üniversitesi, 2012

Education Management and Planning, Teorik Konformasyon Analiz Yöntemiyle Biyolojik Moleküllerin Yapı -Fonksiyon İlişkilerini İnceleme, Azerbaycan / Bakü Qafqaz (Kafkas) Üniversitesi, 2008, 2008

Dissertations

Doctorate, “Pro-Tyr, Glu-Asn ve Ala-Gln Dipeptidlerinin Konformasyon Analizi ve Ab-Initio Dft Yöntemleri ile Titreşim Frekans ve Kiplerinin İncelenmesi”, Istanbul University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Atom Ve Molekül Fiziği Programı, 2009

Postgraduate, ‘Kinaldin (Quinaldine) Molekülünün Titreşimsel Spektrumunun, Kuantum Kimyasal Hesaplama Yöntemleri ile Yorumlanması.’, Istanbul University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Atom Ve Molekül Fiziği Programı, 2005

Academic Titles / Tasks

Associate Professor 2017 - Continues	Istanbul University, Faculty of Science, Department of Physics
Assistant Professor 2010 - 2018	Istanbul University, Faculty of Science, Department of Physics
Research Assistant PhD 2009 - 2010	Istanbul University, Faculty of Science, Department of Physics
Research Assistant 2005 - 2009	Istanbul University, Faculty of Science, Department of Physics

Supported Projects

1. ALBENİZ I., ÇELİKOK Y., ERTAŞ T., TÜRKER ŞENER L., ÖZEL A., KECEL GÜNDÜZ S., ALBENİZ G., Project Supported by Higher Education Institutions, MCF-7 ve MDA-MB231 Meme Kanseri Hücre Soyları Üzerinde Anti-Proliferatif Etkili Metforminin Moleküler Modelleme Çalışmaları, 2018 - Continues
2. Dardeniz Arıkan G., Akalın E., Kecel Gündüz S., Project Supported by Higher Education Institutions, Technological Reflections of Socio-Political Structuring in the Early Bronze Age, 2023 - 2026
3. Bıçak B., Kecel Gündüz S., Perçin Özkurucuklu S., Kızılkaya B., Project Supported by Higher Education Institutions, İstanbul Silivri bölgesinde yetiştirilen lavanta türlerine ait uçucu yağların yapısal ve antioksidan özelliklerinin spektroskopik ve in silico yöntemlerle belirlenmesi, 2023 - 2025
4. Kecel Gündüz S., Kılınç Y., Altuntaş E., Kaymaz F. A., Köse Ş., Project Supported by Other Official Institutions, Anti-Sars-CoV-2 IgY Antikorlarının Üretimi, Profilaktik Özellikli Formülasyonların Geliştirilmesi ve Etkinliğinin İncelenmesi, 2022 - 2024
5. Kecel Gündüz S., Kılınç Y., Erdoğan A., Can Karanlık C., Karanlık G., Project Supported by Other Official Institutions, Hibrit BODIPY-Ftalosiyanın Bileşikler : Fotodinamik Antikanser Tedavi ve Fotodinamik Antibakteriyel İlaç Özelliklerinin İncelenmesi, 2022 - 2024
6. Kecel Gündüz S., Kılınç Y., TUBITAK Project, BOR BİLEŞİĞİ İÇEREN KONTROLLÜ SALIM SİSTEMİNE DAYALI YENİ NESİL GÜBRE GELİŞTİRİLMESİ, 2021 - 2023
7. Kecel Gündüz S., Kılınç Y., Project Supported by Higher Education Institutions, Nanoemülsiyon Dozaj Formunda Kozmesötik Formülasyon Geliştirilmesi ve Etkinliğinin Değerlendirilmesi, 2021 - 2022
8. Kecel Gündüz S., Kılınç Y., Yılmaz Atalı P., Kartal M., Gök B., Project Supported by Higher Education Institutions, Diş Çürüğü Profilaksisinde Kullanılmak Üzere Fitoterapötik Özellikli Nanopartikül Dozaj Formunda Formülasyon Geliştirilmesi, Etkinliğinin İn Silico ve İn Vitro Yöntemlerle İncelenmesi, 2021 - 2022
9. MÜLAYİM A., KECEL GÜNDÜZ S., YÜCEDAĞ E., Project Supported by Higher Education Institutions, Gemlik Körfezi Sedimenti ve Ticari Balık Türlerinde Mikroplastik Kirliliğinin Mikroskopik ve Spektroskopik Yöntemlerle İncelenmesi, 2021 - 2022

10. Özel A., Akyüz S., Çelik S., Kecel Gündüz S., Darıcı H., Karaöz E., Ulukaya E., TÜBİTAK International Bilateral Joint Cooperation Program Project, Pirinç Kepeği Türevi Pentapeptidinin Konformasyon Davranışının ve D-Amino Asit Sübstütüsyonlarının Antikanser Aktivitesi Üzerindeki Etkisinin Değerlendirilmesi: Antikanser İlaç Keşfine Yönelik Çıkarımlar, 2020 - 2022
11. KECCEL GÜNDÜZ S., BIÇAK B., ÖZEL A., Project Supported by Higher Education Institutions, Structural analysis molecular dynamics and docking calculations of skin protective tripeptide and design characterization cytotoxicity studies of its PLGA nanoparticles, 2019 - 2022
12. Kecel Gündüz S., Kılınç Y., TUBITAK Project, Saç Beyazlaması Probleminin Giderilmesine Yönelik Bitkisel İçerikli Nanoemülsiyonların Geliştirilmesi, İn Vivo Etkinliğinin Ve Güvenliliğinin Değerlendirilmesi 1001, 2018 - 2022
13. Mülayim A., Kecel Gündüz S., Olguner B., Project Supported by Higher Education Institutions, İstanbul Boğazı Sedimentinde Mikroplastik Kirliliğinin İncelenmesi , 2020 - 2021
14. Kecel Gündüz S., Kandemir M. C., TUBITAK Project, Hidantoin tabanlı ilaç moleküllerinin teorik ve spektroskopik yöntemlerle incelenmesi, 2020 - 2021
15. KECCEL GÜNDÜZ S., Project Supported by Higher Education Institutions, Molecular docking of immunogenic peptide of Toxoplasma gondii and encapsulation with polymer as vaccine candidate, 2019 - 2021
16. KECCEL GÜNDÜZ S., BIÇAK B., BUDAMA KILINÇ Y., Project Supported by Higher Education Institutions, Terapötik Peptid Yüklü Polimerik Nano İlaç Formülasyonlarının Geliştirilmesi ve Moleküler Modelleme Çalışmaları ile İncelenmesi, 2018 - 2021
17. KECCEL GÜNDÜZ S., Project Supported by Higher Education Institutions, Assessment of Nanotoxicity and Safety Profiles of Silver Nanoparticles, 2018 - 2020
18. ÖZEL A., KECCEL GÜNDÜZ S., BIÇAK B., KÖKCÜ Y., Project Supported by Higher Education Institutions, Papain Loaded Polycaprolactone Nanoparticles Insilico and Invitro Studies, 2018 - 2019
19. KECCEL GÜNDÜZ S., BIÇAK B., ÖZEL A., Project Supported by Higher Education Institutions, Computational design of PheTyr dipeptide and preparation characterization cytotoxicity studies of PheTyr dipeptide loaded PLGA nanoparticles for the treatment of hypertension, 2018 - 2019
20. ÖZEL A., KECCEL GÜNDÜZ S., BIÇAK B., Project Supported by Higher Education Institutions, Novel NAC loaded poly lactidecoglycolide acid nanoparticles for cataract treatment preparation characterization evaluation of structure cytotoxicity and molecular docking studies, 2018 - 2019
21. KECCEL GÜNDÜZ S., ÖZEL A., AKYÜZ S., BIÇAK B., ÇELİK S., Project Supported by Higher Education Institutions, Conformational behavior structural and vibrational characterization of the carboxy terminal dipeptide of b-endorphin, 2018 - 2019
22. KECCEL GÜNDÜZ S., AKYÜZ S., BIÇAK B., ÖZEL A., ÇELİK S., Project Supported by Higher Education Institutions, Structural and spectroscopic investigation on antioxidant dipeptide L-Methionyl-L-Serine A combined experimental and DFT study, 2018 - 2019
23. KECCEL GÜNDÜZ S., KOÇ E., Project Supported by Higher Education Institutions, AHK Tripeptidinin Konformasyon Analizi ve Moleküler Modellenmesi, 2017 - 2019
24. KECCEL GÜNDÜZ S., KÖKCÜ Y., BUDAMA KILINÇ Y., Project Supported by Higher Education Institutions, Antitümör ve antioksidant özellikli tripeptid yüklü polimerik nanopartiküllerin geliştirilmesi, 2017 - 2019
25. ÇELİK S., AKYÜZ S., ÖZEL A., KECCEL GÜNDÜZ S., AKYÜZ T., BAŞARAN S., Project Supported by Higher Education Institutions, Investigations of Archaeological Glass Bracelets and Perfume Bottles Excavated in Ancient Ainos (Enez) by Multiple Analytical Techniques, 2018 - 2018
26. KECCEL GÜNDÜZ S., ÖZEL A., ÇELİK S., Project Supported by Higher Education Institutions, Nanobiomaterials Science Development and Evaluation, 2017 - 2018
27. ÖZEL A., AKYÜZ S., KECCEL GÜNDÜZ S., ÇELİK S., Project Supported by Higher Education Institutions, THEORETICAL VIBRATIONAL SPECTRA AND MOLECULAR DOCKING STUDIES WITH PROTEIN AND DNA ON CYCLOHEPTAPEPTIDE, 2017 - 2018
28. KECCEL GÜNDÜZ S., ÖZEL A., Project Supported by Higher Education Institutions, MOLECULAR DYNAMIC MOLECULAR DOCKING HOMOLUMO MEP AND UVVIS ANALYSIS OF PHETYR DIPEPTIDE FOR THE TREATMENT OF HYPERTENSION, 2017 - 2017
29. ÇELİK S., KECCEL GÜNDÜZ S., ALBAYRAK A. T., AKYÜZ S., ÖZEL A., Project Supported by Higher Education Institutions, MOLECULAR MODELLING AND VIBRATIONAL INVESTIGATIONS OF AMMONIUM-BASED IONIC LIQUID

(CLTOAB), 2017 - 2017

30. KECEL GÜNDÜZ S., Project Supported by Higher Education Institutions, Structural and vibrational spectroscopic elucidation of sulpiride in solid state, 2014 - 2017
31. ÇELİK S., AKYÜZ T., AKYÜZ S., ÖZEL A., KECEL GÜNDÜZ S., KURAP G., BAŞARAN S., Project Supported by Higher Education Institutions, Investigations of Archaeological glass bracelets and perfume bottles excavated in Ancient Ainos (Enez) by Multiple Analytical Techniques, 2016 - 2016
32. KECEL GÜNDÜZ S., ÖZEL A., AKYÜZ S., Project Supported by Higher Education Institutions, Spectroscopic Investigations and Quantum Chemical Computational Study of Antihypertensive Dipeptide, 2016 - 2016
33. KECEL GÜNDÜZ S., BIÇAK B., Project Supported by Higher Education Institutions, MET-SER Dipeptidinin Titreşim Frekans ve Kiplerinin Konformasyon Analizi ve Ab-Initio DFT Yöntemleri ile İncelenmesi, 2014 - 2015
34. KECEL GÜNDÜZ S., Project Supported by Higher Education Institutions, THE CONFORMATIONAL AND VIBRATIONAL BEHAVIOR OF THE INHIBITORY NEUROPEPTIDE DERIVED FROM BETA-ENDORPHIN, 2013 - 2014
35. KECEL GÜNDÜZ S., Project Supported by Higher Education Institutions, CONFORMATIONAL AND VIBRATIONAL SPECTRAL ANALYSES OF GLYCYL-GLUTAMINE DIPEPTIDE, BASED ON IR, RAMAN AND DFT CALCULATIONS, 2012 - 2012
36. KECEL GÜNDÜZ S., Project Supported by Higher Education Institutions, Conformational Analysis and Vibrational Spectroscopic Investigation of L- alanyl-L- glutamine dipeptide, 2011 - 2012
37. KECEL GÜNDÜZ S., Project Supported by Higher Education Institutions, Vibrational and Conformational Analysis of Pyroglutamyl-Asparagine Amide (PGlu-Asn-NH₂) Dipeptide, 2011 - 2011
38. KECEL GÜNDÜZ S., Project Supported by Higher Education Institutions, Structural and spectroscopic elucidation of L-proline tyrosine (L-pro-tyr) dipeptide, 2010 - 2010

Awards

1. KECEL GÜNDÜZ S., ESENOĞLU H. H., Teşekkür Belgesi, Astronomi Öğretmen Seminerleri-III (AÖS-3), Akdeniz Üniversitesi, Antalya, January 2015
2. KECEL GÜNDÜZ S., teşekkür belgesi, .C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, April 2013
3. KECEL GÜNDÜZ S., T.C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi tarafından verilen teşekkür belgesi (2011), T.C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, May 2012
4. ÖZEL A., KECEL GÜNDÜZ S., Conformational Analysis And Vibrational Spectroscopic Investigation of L-Alanyl-L- Glutamine Dipeptide, XIIIth ECSBM The President of the Organizing Committee Prof.Antonio Cupane, September 2009
5. KECEL GÜNDÜZ S., T.C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi tarafından verilen teşekkür belgesi (2008), T.C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, May 2009
6. KECEL GÜNDÜZ S., İstanbul Üniversitesi Bilim Günleri-II, Başarılı Araştırmacı Belgesi (2006), T.C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, May 2007

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2021

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2021

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, August, 2021

Doctorate, Doctorate, İstanbul Üniversitesi, August, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, August, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, August, 2020

Doctoral Examination, Doktora yeterlilik sözlü sınav jüri üyeliği, Yıldız Teknik Üniversitesi Biyomühendislik doktora programı, April, 2018

Doctoral Examination, Doktora yeterlilik sınav jüri üyeliği, İstanbul Üniversitesi Fen Bilimleri Enst. Fizik A.B.D., December, 2016

Post Graduate, Yüksek Lisans Tez Savunması, İstanbul Üniv. Fen Bilimleri Enst. Fizik A.B.D, December, 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- 1. Phytochemical profiling, in vitro biological activities, and in silico (molecular docking and absorption, distribution, metabolism, excretion, toxicity) studies of *Polygonum cognatum* Meissn**
Akpınar R., YILDIRIM BAŞTEMUR G., BIÇAK B., ŞANLI N. Ö., MERTOĞLU KAMALI E., PEKMEZ M., KECEL GÜNDÜZ S., Percin oezkorucuklu S.
JOURNAL OF SEPARATION SCIENCE, vol.47, 2024 (SCI-Expanded)
- 2. Microplastic concentration in the sediment of the Istanbul Strait (the Sea of Marmara, Türkiye)**
Olguner B., MÜLAYİM A., KECEL GÜNDÜZ S.
JOURNAL OF SOILS AND SEDIMENTS, vol.23, no.7, pp.2892-2904, 2023 (SCI-Expanded)
- 3. ANTI-AGING ACTIVITY OF SYN-AKE PEPTIDE BY IN SILICO APPROACHES AND IN VITRO TESTS**
Gök B., Kılınç Y., Kecel Gündüz S.
JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, vol.1, no.1, pp.1-18, 2023 (SCI-Expanded)
- 4. Exploring Anticancer Properties of Novel Nano-Formulation of BODIPY Compound, Photophysicochemical, In Vitro and In Silico Evaluations**
Can Karanlık C., Karanlık G., Gök B., Kılınç Y., Kecel Gündüz S., Erdoğan A.
SPECTROCHIMICA ACTA - PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.1, no.1, pp.1-20, 2023 (SCI-Expanded)
- 5. In vitro and in silico evaluation of the design of nano-phyto-drug candidate for oral use against *Staphylococcus aureus***
Kılınç Y., Gök B., Çetin Aluç Ç., Kecel Gündüz S.
PEERJ, vol.1, no.1, pp.1-20, 2023 (SCI-Expanded)
- 6. New Coumarin Derivative with Potential Antioxidant Activity: Synthesis, DNA Binding and In Silico Studies (Docking, MD, ADMET)**
Kecel Gündüz S., Kılınç Y., Bıçak B., Gök B., Belmen B., Aydoğan F., Yolaçan Ç.
ARABIAN JOURNAL OF CHEMISTRY, vol.16, pp.1, 2023 (SCI-Expanded)
- 7. Molecular docking of the pentapeptide derived from rice bran protein as anticancer agent inhibiting both receptor and non-receptor tyrosine kinases**
Gasymov O. K., Kecel-Gunduz S., ÇELİK S., Akyuz S., ÖZEL A., Agaeva G., Suleymanova L. M., Agaeva U., Bakhishova M., Aliyev J. A.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.41, no.10, pp.4321-4343, 2023 (SCI-Expanded)
- 8. Development of nanoformulation for hyperpigmentation disorders: Experimental evaluations, *in vitro* efficacy and *in silico* molecular docking studies**
KILINÇ Y., Gök B., KECEL GÜNDÜZ S., ALTUNTAŞ E.
ARABIAN JOURNAL OF CHEMISTRY, vol.15, no.12, 2022 (SCI-Expanded)
- 9. Microplastic Accumulation in Crayfish *Astacus leptodactylus* (Eschscholtz 1823) and Sediments of Durusu (Terkos) Lake (Turkey)**
MÜLAYİM A., Bat L., Oztekin A., KECEL GÜNDÜZ S., Yucedag E., BIÇAK B.
WATER AIR AND SOIL POLLUTION, vol.233, no.11, 2022 (SCI-Expanded)
- 10. Development of nanoformulation for hyperpigmentation disorders: experimental evaluations, in vitro efficacy and in silico molecular docking studies**

Kılınç Y., Gök B., Kecel Gündüz S., Altuntaş E.

ARABIAN JOURNAL OF CHEMISTRY, vol.1, no.2, pp.1-25, 2022 (SCI-Expanded)

11. **Glycyrrhizic acid Poly(D,L-lactide-coglycolide) nanoparticles: anti-aging cosmeceutical formulation for topical applications**
Çetin Aluç Ç., Gök B., Kecel Gündüz S., Kılınç Y.
PEERJ, vol.2, no.1, pp.1-26, 2022 (SCI-Expanded)
12. **Chitosan/calcium nanoparticles as advanced antimicrobial coating for paper documents**
Egil A. C., Ozdemir B., Gunduz S., Altıkatoglu-Yapaoz M., Budama-Kilinc Y., Mostafavi E.
International Journal of Biological Macromolecules, vol.215, pp.521-530, 2022 (SCI-Expanded)
13. **Molecular docking studies of YKT tripeptide and drug delivery system with poly(epsilon-caprolactone) nanoparticles**
Bicak B., Kecel-Gunduz S., Budama-Kilinc Y., Ozdemir B.
ARCHIV DER PHARMAZIE, vol.355, 2022 (SCI-Expanded)
14. **Laurus nobilis L. Essential Oil-Loaded PLGA as a Nanoformulation Candidate for Cancer Treatment**
Ercin E., Kecel Gündüz S., Gök B., Aydın T., Kılınç Y., Kartal M.
Molecules, vol.27, no.1839, pp.1-20, 2022 (SCI-Expanded)
15. **Evaluation of anti-cancer and anti-covid-19 properties of cationic pentapeptide Glu-Gln-Arg-Pro-Arg, from rice bran protein and its d-isomer analogs through molecular docking simulations**
K.Gasymov O., Çelik S., Agaeva G., Akyüz S., Kecel Gündüz S., M. Qocayev N., Özel A., Agaeva U., Bakhishova M., A. Aliyev J.
Journal Of Molecular Graphics & Modelling, vol.108, pp.1-15, 2021 (SCI-Expanded)
16. **STRUCTURAL, SPECTROSCOPIC, IN SILICO, IN VITRO AND DNA BINDING EVALUATIONS OF TYROSYL-LYSYL-THREONINE**
Bıçak B., Kecel Gündüz S., Kılınç Y., Imhof P., Gök B., Akman G., Özel A.
Journal Of Biomolecular Structure & Dynamics, vol.1, no.1, pp.1, 2021 (SCI-Expanded)
17. **Linseed Oil Nanoemulsions for Treatment of Atopic Dermatitis Disease: Formulation, Characterization, In Vitro and In Silico Evaluations**
Kıldacı İ., Kılınç Y., Kecel Gündüz S., Altuntaş E.
Journal Of Drug Delivery Science And Technology, vol.1, no.1, pp.1-15, 2021 (SCI-Expanded)
18. **Structural Characterization and Drug Delivery System of Natural Growth-Modulating Peptide against Glioblastoma Cancer**
Kılınç Y., Kecel Gündüz S., Çakır Koç R., Aslan B., Bıçak B., Kökcü Y., Özel A., Akyüz S.
International Journal Of Peptide Research And Therapeutics, vol.1, no.1, pp.1-45, 2021 (SCI-Expanded)
19. **PEPTIDE BASED NANO-DRUG CANDIDATE FOR CANCER TREATMENT: PREPARATION, CHARACTERIZATION, IN VITRO AND IN SILICO EVALUATION**
Bıçak B., Kılınç Y., Kecel Gündüz S., Zorlu T., Akman G.
JOURNAL OF MOLECULAR STRUCTURE, vol.1240, pp.130573, 2021 (SCI-Expanded)
20. **Computer-Aided Anticancer Drug Design: In vitro and In silico Studies of New Iminocoumarin Derivative**
Kecel Gündüz S., Kılınç Y., Gök B., Bıçak B., Akman G., Arvas B., Aydoğan F., Yolaçan Ç.
JOURNAL OF MOLECULAR STRUCTURE, no.1, pp.1, 2021 (SCI-Expanded)
21. **New nanodrug design for cancer therapy: Its synthesis, formulation, in vitro and in silico evaluations**
KILINÇ Y., Kecel-Gunduz S., Ozdemir B., BIÇAK B., AKMAN G., ARVAS B., AYDOĞAN F., YOLAÇAN Ç.
ARCHIV DER PHARMAZIE, vol.353, no.11, 2020 (SCI-Expanded)
22. **Synthesis, characterization, biological activities and molecular docking of Epilobium parviflorum aqueous extract loaded chitosan nanoparticles**
Egil A. C., Ozdemir B., Gök B., Kecel-Gunduz S., KILINÇ Y.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.161, pp.947-957, 2020 (SCI-Expanded)
23. **In Silico design of AVP (4–5) peptide and synthesis, characterization and in vitro activity of chitosan nanoparticles**

- Kecel-Gunduz S., Budama-Kilinc Y., Çakır Koç R., Zorlu T., Bicak B., Kokcu Y., Ozel A., Akyüz S.
DARU, Journal of Pharmaceutical Sciences, vol.28, pp.139-157, 2020 (SCI-Expanded)
24. **Structural analysis, molecular dynamics and docking calculations of skin protective tripeptide and design, characterization, cytotoxicity studies of its PLGA nanoparticles**
Kokcu Y., Kecel-Gunduz S., Budama-Kilinc Y., Cakir-Koc R., Bicak B., Zorlu T., Ozel A., Akyuz S.
Journal of Molecular Structure, vol.1200, 2020 (SCI-Expanded)
 25. **In silico Analysis of Sulpiride, Synthesis, Characterization and In vitro Studies of its Nanoparticle for the Treatment of Schizophrenia**
Kecel-Gunduz S., Budama-Kilinc Y., Cakir-Koc R., Zorlu T., Bıçak B., Kokcu Y., Kaya Z., Özel A., Akyuz S.
CURRENT COMPUTER-AIDED DRUG DESIGN, vol.16, no.2, pp.104-121, 2020 (SCI-Expanded)
 26. **Papain Loaded Poly(epsilon-Caprolactone) Nanoparticles: In-silico and In-Vitro Studies**
Budama-Kilinc Y., Cakir-Koc R., Kecel-Gunduz S., Zorlu T., Kokcu Y., Bicak B., Karavelioglu Z., Ozel A. E.
JOURNAL OF FLUORESCENCE, vol.28, pp.1127-1142, 2018 (SCI-Expanded)
 27. **Computational design of Phe-Tyr dipeptide and preparation, characterization, cytotoxicity studies of Phe-Tyr dipeptide loaded PLGA nanoparticles for the treatment of hypertension**
Kecel-Gunduz S., Budama-Kilinc Y., Koc R. C., Kokcu Y., Bicak B., Aslan B., Ozel A.
Journal of Biomolecular Structure and Dynamics, vol.36, pp.2893-2907, 2018 (SCI-Expanded)
 28. **Structural analysis, spectroscopic characterization and molecular docking studies of the cyclic heptapeptide**
Celik S., Kecel-Gunduz S., AKYÜZ S., Ozel A.
Journal of Biomolecular Structure and Dynamics, vol.36, no.9, pp.2407-2423, 2018 (SCI-Expanded)
 29. **Investigations of Archaeological Glass Bracelets and Perfume Bottles Excavated in Ancient Ainos (Enez) by Multiple Analytical Techniques**
Celik S., Akyuz T., Akyuz S., Ozel A., Kecel-Gunduz S., Basaran S.
Journal of Applied Spectroscopy, vol.85, no.1, pp.178-183, 2018 (SCI-Expanded)
 30. **Novel NAC-loaded poly(lactide-coglycolide acid) nanoparticles for cataract treatment: Preparation, characterization, evaluation of structure, cytotoxicity, and molecular docking studies**
Budama-Kilinc Y., Cakir-Koc R., Kecel-Gunduz S., Kokcu Y., Bicak B., Mutlu H., E O.
PeerJ, vol.2018, 2018 (SCI-Expanded)
 31. **Molecular docking of immunogenic peptide of Toxoplasma gondii and encapsulation with polymer as vaccine candidate**
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Courses

Uygulamalı Girişimcilik, Undergraduate, 2020 - 2021
PHYSICS II, Undergraduate, 2020 - 2021
MOLEKÜL FİZİĞİ, Undergraduate, 2020 - 2021
MOLECULAR PHYSICS, Undergraduate, 2020 - 2021
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Biopolimer Fiziği, Postgraduate, 2020 - 2021
UYGULAMALI GİRİŞİMCİLİK, Undergraduate, 2019 - 2020
MOLECULAR PHYSICS, Undergraduate, 2019 - 2020
PHYSICS I, Undergraduate, 2020 - 2021
İLAÇ TAŞIYICI SİSTEMLER VE MOLEKÜLER ETKİLEŞİMLER, Postgraduate, 2020 - 2021
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İleri Fizik Uygulamaları II, Undergraduate, 2019 - 2020
MOLEKÜL FİZİĞİ, Undergraduate, 2019 - 2020
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İlaç Taşıyıcı Sistemler ve Moleküler Etkileşimler, Postgraduate, 2019 - 2020
Polimerler ve İlaç Tasarımında Uygulamaları, Undergraduate, 2019 - 2020
İleri Fizik Uygulamaları, Undergraduate, 2017 - 2018
Uygulamalı Girişimcilik (i.ö), Undergraduate, 2017 - 2018
Molekül Fiziği, Undergraduate, 2017 - 2018
Polimerler ve İlaç Tasarımında Uygulamaları, Undergraduate, 2018 - 2019
Uygulamalı Girişimcilik, Undergraduate, 2017 - 2018, 2016 - 2017
Uzmanlık Alan Dersi Doktora, Doctorate, 2018 - 2019
Uygulamalı Girişimcilik İ.Ö, Undergraduate, 2016 - 2017
Fizik-I, Undergraduate, 2017 - 2018
İLERİ FİZİK, Undergraduate, 2016 - 2017
Analiz-I, Undergraduate, 2017 - 2018
Fizikte Özel Konular, Undergraduate, 2016 - 2017
Seminer, Postgraduate, 2016 - 2017
Fizik II (Matematik Bölümü), Undergraduate, 2013 - 2014
Fizik II (Matematik Bölümü-II.Ö), Undergraduate, 2013 - 2014
Fizik II (Matematik Bölümü I.Ö.), Undergraduate, 2012 - 2013
İLERİ FİZİK, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011
Fizik II (Matematik Bölümü II.Ö.), Undergraduate, 2012 - 2013
Fizik (Hava Harp Akademisi), Undergraduate, 2011 - 2012
Fizik II (Matematik Bölümü), Undergraduate, 2011 - 2012, 2010 - 2011
SEMİNER, Postgraduate, 2011 - 2012
ÖĞRETMENLİK UYGULAMASI, Undergraduate, 2010 - 2011
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Congress and Symposium Activities

ISTE2019, Attendee, Praha, Czech Republic, 2019
 ICINSE 2018, Attendee, Kyiv, Ukraine, 2018
 International Congress on Advances in Bioscience and Biotechnology (ICABB), Attendee, Podgorica, Serbia And Montenegro, 2018
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 Innovation in Medicine Summit-3, Attendee, Gaziantep, Turkey, 2017
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 İstanbul Üniversitesi Fen Fakültesi Fizik Kulübü - 6. Fizik Çalıştayı, Attendee, İstanbul, Turkey, 2016
 Turkish Physical Society 30 th International Physics Congress, Attendee, İstanbul, Turkey, 2013
 15th European Conference on the Spectroscopy of Biological Molecules,, Attendee, OXFORD, United Kingdom, 2013

SPEC 2012 - Shedding New Light on Disease, Attendee, Chiang Mai, Thailand, Thailand, 2012
29th International Physics Congress, Attendee, Bodrum , Turkey, 2012
31th EUCMOS 2012 (European Conference on Molecular Spectroscopy), Attendee, Cluj-Napoca, Romania, 2012
Colloquium Spectroscopicum Internationale 37, (CSIXXXVII), Attendee, Rio de Janeiro, Brazil, 2011
28th International Physics Congress, Attendee, Bodrum , Turkey, 2011
14th ECSBM 2011 (European Conference on the Spectroscopy of Biological Molecules), Attendee, Coimbra, Portugal, 2011
27 th International Physics Congress, Attendee, İstanbul, Turkey, 2010
30th European Congress on Molecular Spectroscopy (EUCMOS 2010), Attendee, Floransa, Italy, 2010
XIII European Conference on the Spectroscopy of Biological Molecules, Attendee, Palermo, Italy, 2009
International Conference on Advanced Vibrational Spectroscopy (ICAVS-5), Attendee, Melbourne, Australia, 2009
24th International Physics Congress, Attendee, Malatya, Turkey, 2007
The Fourth International Conference on Advanced Vibrational Spectroscopy (ICAVS-4), Attendee, Korfu, Greece, 2007
The International Congress on Spectroscopic Methods for Conservation of Cultural Heritage, Attendee, İstanbul, Turkey, 2007
Australian Institute of Physics (AIP) 17th National Congress, Attendee, Brisbane, Australia, 2006
XXVIII European Congress on Molecular Spectroscopy, Attendee, İstanbul, Turkey, 2006
The Third International Conference on Advanced Vibrational Spectroscopy' (ICAVS-3), Attendee, Wisconsin, United States Of America, 2005

Research Areas

Physics, Atomic and Molecular Physics, Theory of Atoms and Molecules, Atomic and Molecular Interactions, Natural Sciences