

Assoc. Prof. Bilge BIÇAK

Personal Information

Office Phone: [+90 212 455 5700](tel:+902124555700) Extension: 13763

Email: bbicak@istanbul.edu.tr

Web: <https://avesis.istanbul.edu.tr/bbicak>

Address: İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, Atom ve Molekül Fiziği A.B.D 34134 Vezneciler İSTANBUL

International Researcher IDs

ScholarID: b5LH_ZcAAAAJ

ORCID: 0000-0003-1147-006X

Publons / Web Of Science ResearcherID: AAC-9032-2020

ScopusID: 57195636945

Yoksis Researcher ID: 277135

Education

Doctorate, İstanbul University, Institute of Graduate Studies In Sciences, Atom Ve Molekül Fiziği Anabilim Dalı, Turkey
2015 - 2021

Postgraduate, İstanbul University, Institute of Graduate Studies In Sciences, Atom Ve Molekül Fiziği Anabilim Dalı, Turkey
2012 - 2014

Undergraduate, İstanbul University, Faculty Of Science, Fizik Bölümü, Pedagojik Formasyon, Turkey 2009 - 2012

Undergraduate, İstanbul University, Faculty Of Science, Department of Physics, Turkey 2008 - 2012

Certificates, Courses and Trainings

Vocational Training, NANOPARTİKÜL KARAKTERİZASYON METOTLARI, Lab Akademi , 2020

IT, Python Eğitimi, İstanbul İşletme Enstitüsü, 2020

IT, Temel Programlamaya Giriş Eğitimi, İstanbul İşletme Enstitüsü, 2020

Education Management and Planning, COMPUTER AIDED DRUG DESIGN, SANKO UNIVERSITY, 2017

Education Management and Planning, QUANTUM MATTER AT ULTRALOW TEMPERATURES, INTERNATIONAL SCHOOL OF PHYSICS "ENRICO FERMI", 2014

Education Management and Planning, 7. Uluslararası Katılımlı Parçacık Hızlandırıcıları ve Dedektörleri Yaz Okulu, Türk Fizik Derneği, 2011

Dissertations

Doctorate, DEVELOPMENT of THERAPEUTIC PEPTIDE-LOADED POLYMERIC NANO DRUG FORMULATIONS and INVESTIGATION of THEIR STRUCTURES with MOLECULAR MODELING STUDIES, İstanbul University, Faculty Of Science, Department of Physics, 2021

Postgraduate, MET-SER DİPEPTİDİNİN TİTREŞİM FREKANS VE KİPLERİNİN KONFORMASYON ANALİZİ VE AB-INITIO DFT YÖNTEMLERİ İLE İNCELENMESİ, İstanbul University, Faculty Of Science, Department of Physics, 2014

Research Areas

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

Academic Positions

Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 2023 - Continues

Research Assistant PhD, Istanbul University, Faculty of Science, Department of Physics, 2021 - 2023

Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 2018 - 2021

Researcher, Freie Universitaet Berlin, Fachbereich Physik, Institut Für Theoretische Physik, 2019 - 2019

Academic and Administrative Experience

Institute Board Member, Istanbul University, Institute of Graduate Studies In Sciences, 2024 - Continues

Assistant Director of the Institute, Istanbul University, Institute of Graduate Studies In Sciences, 2024 - Continues

Courses

Undergraduate

Occupational Health and Safety, Undergraduate, 2024 - 2025, 2023 - 2024

Öğretmenlik Uygulaması, Undergraduate, 2023 - 2024

Bilgisayar Programlama I, Undergraduate, 2023 - 2024

THERMODYNAMICS AND STATISTICAL MECHANICS I, Undergraduate, 2022 - 2023

İleri Fizik Uygulamaları-II, Undergraduate, 2022 - 2023

GENERAL PHYSICS, Undergraduate, 2023 - 2024

ADVANCED PHYSICS APPLICATIONS I, Undergraduate, 2023 - 2024

COMPUTER PROGRAMMING I, Undergraduate, 2022 - 2023

Optics Lab, Undergraduate, 2021 - 2022

Physics Lab-I-Mechanics, Undergraduate, 2021 - 2022

Titreşim ve Dalgalar (TEBİP), Undergraduate, 2021 - 2022, 2019 - 2020

Elektrik ve Manyetizma Laboratuvarı (YÖK TEBİP Üstün Başarı Sınıfları), Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Physics-II (uygulama), Undergraduate, 2020 - 2021

Physics-I (Uyg), Undergraduate, 2021 - 2022

Physics-II (Uyg) (Matematik Bölümü), Undergraduate, 2019 - 2020

Calculus-III (Uyg), Undergraduate, 2020 - 2021, 2019 - 2020

Mekanik Laboratuvarı (YÖK TEBİP Üstün Başarı Sınıfları-Fizik Bölümü), Undergraduate, 2019 - 2020, 2017 - 2018

Atom ve Molekül Fiziği Lab (TEBİP), Undergraduate, 2019 - 2020

Ord. and Par. Dif. Equ. (Uyg), Undergraduate, 2020 - 2021, 2019 - 2020

Mekanik Laboratuvarı (YÖK TEBİP Üstün Başarı Sınıfları-Biyoloji ve Kimya Bölümleri Grubu), Undergraduate, 2019 - 2020, 2017 - 2018

Physics-I (Uyg) (Matematik Bölümü), Undergraduate, 2019 - 2020

Fizik III (Astronomi Yeni Müfredat) Uygulama, Undergraduate, 2018 - 2019

Atom ve Molekül Fiziği I (Uygulama), Undergraduate, 2017 - 2018

Temel Bilgi Teknolojileri (Uygulama), Undergraduate, 2017 - 2018

Fizik III (Astronomi Eski Müfredat) Uygulama, Undergraduate, 2018 - 2019

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Syntheses of new ternary complexes with 1-benzoyl-3-(benzimidazoyl)thiourea) and amino acids: Experimental, theoretical, electrochemical, antioxidant, antibacterial, and molecular docking studies**
Tüfekyapan T., Yıldırım Baştemur G., Bıçak B., Akpinar R., Şanlı N. Ö., Kecel Gündüz S., Perçin Özkorucuklu S., Karipcin F.
Inorganic Chemistry Communications, vol.173, 2025 (SCI-Expanded)
- II. **Structural analyses (Spectroscopic and *in silico*), DNA-binding and *in vitro* studies of two popular Sage Species (*Salvia officinalis* and *Salvia fruticosa*)**
BİÇAK B., Gok B., Kecel-Gunduz S., KILINÇ Y., KOÇYİĞİT AVCI M., Inan H. A., KARTAL M.
JOURNAL OF ESSENTIAL OIL BEARING PLANTS, vol.28, no.1, pp.207-223, 2025 (SCI-Expanded)
- III. **Investigation of Hydantoin-Based Drugs Used in the Treatment of Epilepsy Using Quantum Chemical Calculations, Molecular Docking, Molecular Dynamics, ADMET, In Vitro, and Spectroscopic Methods**
Kandemir M. C., BİÇAK B., KECEL GÜNDÜZ S., AKMAN G.
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.124, no.19, 2024 (SCI-Expanded)
- IV. **Phytochemical profiling, *in vitro* biological activities, and *in silico* (molecular docking and absorption, distribution, metabolism, excretion, toxicity) studies of *Polygonum cognatum* Meissn**
Akpinar R., YILDIRIM BAŞTEMUR G., BİÇAK B., ŞANLI N. Ö., MERTOĞLU KAMALI E., PEKMEZ M., KECEL GÜNDÜZ S., Percin oezkorucuklu S.
JOURNAL OF SEPARATION SCIENCE, vol.47, 2024 (SCI-Expanded)
- V. **In silico and *in vitro* studies of Tyr-Lys-Thr tripeptide against human lung cancer cell line (A549)**
BİÇAK B., AKMAN G.
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.125, no.10, pp.597-604, 2024 (SCI-Expanded)
- VI. **New coumarin derivative with potential antioxidant activity: Synthesis, DNA binding and *in silico* studies (Docking, MD, ADMET)**
KECEL GÜNDÜZ S., KILINÇ Y., BİÇAK B., Gok B., Belmen B., AYDOĞAN F., YOLAÇAN Ç.
ARABIAN JOURNAL OF CHEMISTRY, vol.16, no.2, 2023 (SCI-Expanded)
- VII. **Structural, spectroscopic, molecular docking, ADME, molecular dynamics studies of Val-Trp dipeptide**
BİÇAK B.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.41, no.23, pp.13873-13890, 2023 (SCI-Expanded)
- VIII. **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., BİÇAK B.
WATER AIR AND SOIL POLLUTION, vol.233, no.11, 2022 (SCI-Expanded)
- IX. **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)
- X. **Structural, spectroscopic, *in silico*, *in vitro* and DNA binding evaluations of tyrosyl-lysyl-threonine**
BİÇAK B., KECEL GÜNDÜZ S., KILINÇ Y., Imhof P., Gok B., AKMAN G., ÖZEL A.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.22, pp.12148-12164, 2022 (SCI-Expanded)
- XI. **Peptide based nano-drug candidate for cancer treatment: Preparation, characterization, *in vitro* and *in silico* evaluation**
BİÇAK B., KILINÇ Y., KECEL GÜNDÜZ S., Zorlud T., AKMAN G.
JOURNAL OF MOLECULAR STRUCTURE, vol.1240, 2021 (SCI-Expanded)
- XII. **Computer-aided anticancer drug design: *In vitro* and *in silico* studies of new iminocoumarin derivative**
KECEL GÜNDÜZ S., KILINÇ Y., Gok B., BİÇAK B., AKMAN G., Arvas B., AYDOĞAN F., YOLAÇAN Ç.
JOURNAL OF MOLECULAR STRUCTURE, vol.1239, 2021 (SCI-Expanded)

- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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., Bicak B., Kokcu Y., Kaya Z., Özal A., Akyuz S.
 CURRENT COMPUTER-AIDED DRUG DESIGN, vol.16, no.2, pp.104-121, 2020 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **Structural and spectroscopic investigation on antioxidant dipeptide, L-Methionyl-L-Serine: A combined experimental and DFT study**
 Kecel-Gunduz S., Bicak B., Celik S., Akyuz S., Ozel A.
 Journal of Molecular Structure, vol.1137, pp.756-770, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **The Determination of Molecular Electrostatic Potential and Anticancer Properties of Eugenol: A Theoretical Study**
 Bicak B.
 Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.20, no.4, pp.116-122, 2024 (Peer-Reviewed Journal)
- II. **Geometry Optimization, Molecular Docking and ADMET Studies of Echimidine Molecule**
 Bicak B.
 CUMHURIYET SCIENCE JOURNAL, vol.45, no.3, pp.591-597, 2024 (Peer-Reviewed Journal)
- III. **A Study of The Anticancer Effect of 1,8 Cineole: Molecular Docking Analysis**
 Bicak B.
 Bilge International Journal of Science and Technology Research, vol.8, no.1, pp.50-55, 2024 (Peer-Reviewed Journal)
- IV. **A Theoretical Study: DNA Binding and ADMET Profile of Some Hydroxycinnamic Acids**
 Bicak B., Kecel Gündüz S.
 Physics and Astronomy Reports, vol.1, no.2, pp.74-84, 2023 (Peer-Reviewed Journal)
- V. **INTERACTION OF GHK TRipeptide WITH RECEPTORS TARGETED IN SOME CANCER STUDIES: A THEORETICAL APPROACH WITH MOLECULAR DOCKING**

- Bıçak B., Kecel Gündüz S.
Hittite Journal of Science and Engineering, vol.10, no.3, pp.1, 2023 (Peer-Reviewed Journal)
- VI. INVESTIGATION OF THE EFFICACY OF H-PHE-TYR-OH DIPEPTIDE IN THE TREATMENT OF HYPERTENSION USING IN SILICO METHODS**
Bıçak B., Kecel Gündüz S.
CUMHURIYET SCIENCE JOURNAL, no.4, pp.1-12, 2022 (Peer-Reviewed Journal)
- VII. Conformational Analysis of Tyrosyl-Lysyl-Threonine Tripeptide Using MM, MD and QM Methods and Its Hyperpolarizability Study**
Bıçak B., Kecel Gündüz S.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.26, no.4, pp.745-756, 2022 (Peer-Reviewed Journal)
- VIII. IN SILICO ANALYSIS FOR CHARACTERIZING THE STRUCTURE AND BINDING PROPERTIES OF ALA-HIS-LYS (AHK) TRIPEPTIDE**
Kecel Gündüz S., Koç E., Bıçak B., Kökcü Y., Özel A., Akyüz S.
The Online Journal of Science and Technology, vol.10, no.3, pp.111-120, 2020 (Peer-Reviewed Journal)
- IX. The Interaction of Ile-Phe Dipeptide with Phosphatidylinositide 3-Kinase (PI3K): Molecular Dynamics and Molecular Docking Studies**
Bıçak B., Kokcu Y., Kecel Gündüz S., Özel A., Akyüz S.
Natural and Engineering Sciences (NESciences), no.1, pp.1, 2020 (Peer-Reviewed Journal)
- X. Molecular Docking and Molecular Dynamics Studies of L-Glycyl-L-Glutamic Acid Dipeptide**
Bıçak B., Kecel Gündüz S., Kokcu Y., Özel A., Akyüz S.
Bilge International Journal of Science and Technology Research, vol.3, no.1, pp.1-9, 2019 (Peer-Reviewed Journal)
- XI. COMPUTERISED DESIGNING OF DOXORUBICIN WITH BREAST CANCER CELLS**
Sener L., Gunduz S., Şener A., Bicak B., Kokcu Y., Ozel A., Albeniz I.
JOURNAL OF ISTANBUL FACULTY OF MEDICINE-ISTANBUL TIP FAKULTESI DERGİSİ, vol.82, no.1, pp.40-46, 2019 (ESCI)
- XII. Use of the Comet Assay and Molecular Docking Techniques to Evaluate the Effect of Nicotine in Human Breast Cancer Cell Line**
TÜRKER ŞENER L., KECEL GÜNDÜZ S., Şener A., Çelikok Y., BIÇAK B., KÖKCÜ Y., ÖZEL A., ALBENİZ I.
International Journal of Scientific and Technological Research, vol.4, no.10, pp.1-15, 2018 (Scopus)

Books

- I. In Silico Methods and Targeted Receptors Used in Cancer Studies**
Bıçak B., Kecel Gündüz S.
in: Interdisciplinary Cancer Research, Nima Rezaei, Editor, Springer Nature, Zürich, pp.1-22, 2024
- II. An Overview Of The Genus Rosa With Molecular Modeling Studies**
Bıçak B., Kecel Gündüz S.
in: Rosa, mine koçyiğit,yağmur emre arıcan,yusuf kenan haspolat, Editor, Orient Publications, Ankara, pp.48-56, 2023
- III. An Overview Of The Economic Potential Of Medicinal Plants**
Bıçak B., Kecel Gündüz S.
in: Medicinal and Aromatic Plants, Mine Koçyiğit,Yusuf Kenan Haspolat, Editor, Orient Publications, Ankara, pp.9-18, 2023
- IV. Importance Of Medicinal And Aromatic Plants In Drug Discovery And Development**
Kecel Gündüz S., Bıçak B.
in: Medicinal and Aromatic Plants, Mine koçyiğit,Yusuf Kenan Haspolat, Editor, Orient Publications, Ankara, pp.1-8, 2023
- V. Nanoparticles and Plant-Microbe Interactions: Current Status and Overview**
Bıçak B., Kecel Gündüz S., Çekiç F. Ö., Gören Sağlam N.
in: Nanoparticles and plant-microbe interactions: An environmental perspective, Seena .Sahadeva, Editor, Elsevier

- Science, Oxford/Amsterdam , Amsterdam, pp.1-36, 2022
- VI. **Computer-Aided Drug Design of Plant-Based Compounds**
Bıçak B., Kecel Gündüz S.
in: Isolation, Characterization, and Therapeutic Applications of Natural Bioactive Compounds, Ajeet Singh, Editor, IGI Global, Pennsylvania, pp.320-345, 2022
- VII. **A Contribution of Spectrophotometric Methods to Medicinal Plant Taxonomy**
Koçyiğit Avcı M., Geçimli F., Bıçak B., Vatandaşlar Ö., Kecel Gündüz S.
in: Isolation, Characterization, and Therapeutic Applications of Natural Bioactive Compounds, Ajeet Singh, Editor, IGI Global, Pennsylvania, pp.297-319, 2022
- VIII. **Molecular Modeling of Nanoparticles**
Bıçak B., Gök B., Kecel Gündüz S., Kilinç Y.
in: Computer Aided Pharmaceutics and Drug Delivery, Vikas Anand Saharan, Editor, Springer, London/Berlin , New Delhi, pp.35-50, 2021
- IX. **Targeted Drug Delivery in Cancer Treatment**
Bıçak B., Kecel Gündüz S., Özel A.
in: Advancements in Cancer Therapeutics , Dr. Sumit Kumar,Dr. Saurabh Verma,Prof. Moshahid Alam Rizvi, Editor, IGI Global, Pennsylvania, pp.382-412, 2021
- X. **Computational Drug Design Methods Used in Cancer Studies**
Kecel Gündüz S., Bıçak B., Özel A.
in: Advancements in Cancer Therapeutics, Dr. Sumit Kumar,Dr. Saurabh Verma,Prof. Moshahid Alam Rizvi, Editor, IGI Global, Pennsylvania, pp.89-115, 2021
- XI. **Drug delivery nanosystems for neural regenerative medicine**
Kecel Gündüz S., Bıçak B., Özel A.
in: NEURAL REGENERATIVE NANOMEDICINE, Mehdi Razavi, Editor, Academic Press , Oxford, pp.89-116, 2020

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **DUAL INHIBITION OF CXCR4 AND CLAUDIN-18 ISOFORM X1 IN GASTRIC ADENOCARCINOMA: AN IN SILICO STUDY**
Demirağ A. D., Kaya V., Aksoy R. A., Bıçak B., Şahin F., Yıldırım M.
14TH INTERNATIONAL GASTROINTESTINAL CANCERS CONFERENCE, İstanbul, Turkey, 28 November - 01 December 2024, pp.30-31, (Summary Text)
- II. **DOPAMİN D2 RESEPTÖR ANTAGONİZMİNİN KÜÇÜK HÜCRELİ AKÇİĞER KARSİNOMUNDA İMMÜNOMODÜLATÖR VE ANTİNEOPLASTİK ETKİLERİ: MOLEKÜLER KENETLENME VE İN SILICO ANALİZLERLE TÜMÖR MİKROÇEVRESİNİN YENİDEN PROGRAMLANMASI**
Demirağ A. D., Yıldırım M., Bıçak B., Şahin F.
8. ULUSAL İMMÜNOTERAPİ ve ONKOLOJİ KONGRESİ, İskele, Cyprus (Kktc), 30 October - 03 November 2024, pp.41-42, (Summary Text)
- III. **Raman ve FT-IR spektroskopisi ile Küçük Hücreli Dışı Akciğer Kanserinde Non-İnvaziv Tanı: Yenilikçi Bir Moleküler Yaklaşım**
DEMİRAG A. D., YILDIRIM M., ŞAHİN F., BIÇAK B., ELBEYLİ L.
ON TARGETED MASTER ONCOLOGY, Muğla, Turkey, 26 - 29 September 2024, (Summary Text)
- IV. **INVESTIGATION OF THE ANTIVIRAL EFFECT OF AMENTOFLAVONE BY MOLECULAR DOCKING METHOD**
Yıldırım N. B., Bıçak B.
TÜRK FİZİK DERNEĞİ 40. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 2 - 06 September 2024, pp.341, (Summary Text)
- V. **EVALUATION OF THE ANTITUMOR EFFECT OF BETA- CARYOPHYLLENE: IN SILICO METHODS**
Bıçak B.
7. Uluslararası Ankara Multidisipliner Bilimsel Çalışmalar Kongresi, Ankara, Turkey, 5 - 06 March 2024, pp.1,

- (Summary Text)
- VI. INVESTIGATION OF THE ANTITUMOR EFFECT OF VIRIDIFLOROL WITH MOLECULAR DOCKING METHOD
Bıçak B.
3.Uluslararası Çankaya Bilimsel Çalışmalar Kongresi, Ankara, Turkey, 28 - 29 February 2024, pp.1, (Summary Text)
- VII. INVESTIGATION OF ANTIHYPERTENSIVE MECHANISMS OF VALYLTRYPTOPHAN DIPEPTIDE BY MOLECULAR DOCKING METHOD
Bıçak B.
AVRASYA 8th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Tbilisi, Georgia, 14 - 16 July 2023, pp.1, (Summary Text)
- VIII. Molecular Docking and ADME Analyses of Antihypertensive Dipeptide
Bıçak B., Kecel Gündüz S.
14. International Conference on Mathematics Engineering Natural and Medical Sciences-EJONS, Paris, France, 6 - 07 July 2022, pp.1, (Summary Text)
- IX. GLY-HIS-LYS TRİPEPTİDİNİN ANJİYOTENSİN DÖNÜŞTÜRÜCÜ ENZİM İLE ETKİLEŞİMLERİNİN MOLEKÜLER KENETLENME YÖNTEMİ İLE İNCELENMESİ
Bıçak B., Kecel Gündüz S.
5. ULUSAL BAŞKENT DİSİPLİNLER ARASI BİLİMSEL ÇALIŞMALAR KONGRESİ, Ankara, Turkey, 21 - 22 June 2022, pp.1, (Full Text)
- X. IN SILICO ANALYSIS OF HAIR GROWTH PEPTIDE
Kecel Gündüz S., Koç E., Bıçak B., Özel A., Akyüz S.
Türk Fizik Derneği 35. Uluslararası Fizik Kongresi, Muğla, Turkey, 4 - 08 September 2019, pp.162, (Summary Text)
- XI. MOLECULAR DOCKING CALCULATIONS OF PIXANTRONE WITH TOPOISOMERASE II
Saları A., Kandemir M. C., BIÇAK B., KECEL GÜNDÜZ S.
Türk Fizik Derneği 35. Uluslararası Fizik Kongresi, Muğla, Turkey, 4 - 08 September 2019, pp.166, (Full Text)
- XII. DNA INTERACTION OF SOME HYDANTOIN-BASED DRUGS WITH MOLECULAR DOCKING CALCULATIONS
Kandemir M. C., Saları A., BIÇAK B., KECEL GÜNDÜZ S.
Türk Fizik Derneği 35. Uluslararası Fizik Kongresi, Muğla, Turkey, 4 - 08 September 2019, pp.158, (Full Text)
- XIII. MOLECULAR DOCKING INVESTIGATION OF PIXANTRONE WITH B-DNA DODECAMER
Saları A., Kandemir M. C., BIÇAK B., KECEL GÜNDÜZ S.
Türk Fizik Derneği 35. Uluslararası Fizik Kongresi, Muğla, Turkey, 4 - 08 September 2019, pp.331, (Full Text)
- XIV. MOLECULAR DOCKING STUDIES OF PHENYTOIN, MEPHENYTOIN, AND ETHOTOIN WITH CYTOCHROME P450 3A4
Kandemir M. C., Saları A., BIÇAK B., KECEL GÜNDÜZ S.
Türk Fizik Derneği 35. Uluslararası Fizik Kongresi, Muğla, Turkey, 4 - 08 September 2019, pp.331, (Full Text)
- XV. THEORETICAL CONFORMATIONAL ANALYSIS OF L-ISOLEUCYL-L-PHENYLALANINE DIPEPTIDE
BIÇAK B., KECEL GÜNDÜZ S., ÖZEL A.
1st International Symposium on Graduate Research in Science, İstanbul, Turkey, 4 - 06 October 2018, pp.9, (Full Text)
- XVI. MOLECULAR DYNAMIC AND DOCKING STUDIES OF RGD PEPTIDE
BIÇAK B., KÖKCÜ Y., KECEL GÜNDÜZ S., ÖZEL A.
Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2017, pp.1, (Full Text)
- XVII. MOLECULAR MODELING OF FAGAAGSAKSAAAGTASHVSI PEPTIDE
KÖKCÜ Y., BIÇAK B., KECEL GÜNDÜZ S., ÖZEL A.
Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2017, pp.1, (Full Text)
- XVIII. STRUCTURAL ANALYSIS OF SDKGATLTIKKEAFFPAESKS PEPTIDE
BIÇAK B., KÖKCÜ Y., KECEL GÜNDÜZ S., ÖZEL A.
Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2017, pp.1, (Full Text)

- Text)
- XIX. **COMPUTATIONAL DESIGN OF IMMUNOGENIC PEPTIDE**
KECEL GÜNDÜZ S., KÖKCÜ Y., BIÇAK B., ÖZEL A.
Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2017, pp.1, (Full Text)
- XX. **DETERMINATION OF CONFORMATIONAL AND STRUCTURAL FEATURES OF L-GLY-L-GLU DIPEPTIDE**
BIÇAK B., KECEL GÜNDÜZ S., ÖZEL A.
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- XXI. **VIBRATIONAL SPECTROSCOPIC INVESTIGATION OF PROLINE-TYROSINE DIPEPTIDE**
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10th International Student Conference Of The Balkan Physical Union, İstanbul, Turkey, 3 - 05 September 2013, pp.18, (Full Text)
- XXII. **Vibrational Spectroscopic Studies Of Analgesic Peptide**
BIÇAK B., KECEL GÜNDÜZ S.
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Funded Projects

- Biçak B., Kecel Gündüz S., Perçin Özkorucuklu 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
- KECEL 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
- KECEL 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
- ÖZEL A., KECEL GÜNDÜZ S., BIÇAK B., KÖKCÜ Y., Project Supported by Higher Education Institutions, Papain Loaded Polyecaprolactone Nanoparticles Insilico and Invitro Studies, 2018 - 2019
- KECEL 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
- ÖZEL A., KECEL 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
- KECEL 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
- 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

Patent

Gündüz U., Biçak B., Kecel Gündüz S., Çok Fonksiyonlu Etkinlik ve Toplantı İzleme, Dinleme, Kayıt, Eğitim ve Sanal Etkileşim Gözüğü, Utility Model, CHAPTER A Human Needs, The Invention Registration Number: TR 2018 21325 A2 , Standard Registration, 2022

Student Project

R & D Project, Antihipertansif İle-Tyr dipeptidinin in silico ve spektroskopik çalışmaları, İstanbul University, Faculty Of Science, Department of Physics, Turkey, 2023 - 2024

R & D Project, Raynaud Sendromunda kullanılan nifedipin molekülünün moleküler modelleme ve spektroskopik çalışmaları, İstanbul University, Faculty Of Science, Department of Physics, Turkey, 2023 - 2024

Memberships and Roles in Scientific Organizations

Türk Fizik Derneği, Member, 2018 - Continues, Turkey

Peer Reviews in Scientific Publications

Kahramanmaraş Sütçü İmam Üniversitesi Tarım ve Doğa Dergisi, Journal Indexed in ESCI, June 2024

EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, Journal Indexed in SCI-E, December 2023

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, Journal Indexed in SCI-E, August 2023

Genel Tıp Dergisi, National Scientific Refreed Journal, June 2023

ANKARA UNIVERSITESI ECZACILIK FAKULTESI DERGİSİ, Other Indexed Journal, May 2023

JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS, Journal Indexed in SCI-E, May 2023

COMBINATORIAL CHEMISTRY AND HIGH THROUGHPUT SCREENING, Journal Indexed in SCI-E, May 2023

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, Journal Indexed in SCI-E, October 2022

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, September 2022

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, September 2022

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, Journal Indexed in SCI-E, July 2022

European Journal of Biology, Other Indexed Journal, June 2022

International Journal of Pure and Applied Sciences, Other Indexed Journal, May 2022

International Journal of Secondary Metabolite, Other Indexed Journal, April 2022

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, Journal Indexed in SCI-E, December 2021

International Journal of Secondary Metabolite, Other Indexed Journal, December 2021

BMC CHEMISTRY, Journal Indexed in SCI-E, October 2021

IGI Global, Chapter Scientific / Professional Book Published by Renowned Publishing Houses, April 2020

IGI Global, Chapter Scientific / Professional Book Published by Renowned Publishing Houses, April 2020

Metrics

Publication: 65

Citation (WoS): 103

Citation (Scopus): 183

H-Index (WoS): 7

H-Index (Scopus): 9

Congress and Symposium Activities

EJONS 14th INTERNATIONAL CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL & MEDICAL SCIENCES, Attendee, Paris, France, 2022

5. ULUSAL BAŞKENT DİSİPLİNLER ARASI BİLİMSEL ÇALIŞMALAR KONGRESİ, Attendee, Ankara, Turkey, 2022

35. Uluslararası Fizik Kongresi, Attendee, İstanbul, Turkey, 2019

Elsevier Yazar Çalıştayı, Attendee, İstanbul, Turkey, 2018

International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018),
Attendee, İstanbul, Turkey, 2018

BİYOTEKNOLOJİK İLAÇLARDA GELECEK VE TÜRKİYE SEMPOZYUMU, Attendee, İstanbul, Turkey, 2018

ELSEVIER PATHWAY STUDIO ÇALIŞTAYI, Attendee, İstanbul, Turkey, 2018

33. TFD ULUSLARARASI FİZİK KONGRESİ, Attendee, Muğla, Turkey, 2017

Innovation in Medicine Summit-3, Attendee, Gaziantep, Turkey, 2017

32. TFD ULUSLARARASI FİZİK KONGRESİ, Attendee, Muğla, Turkey, 2016

İ.Ü. 4. FİZİK ÇALIŞTAYI, Attendee, Turkey, 2014

30. TFD ULUSLARARASI FİZİK KONGRESİ, Attendee, Turkey, 2013

10. INTERNATIONAL STUDENT CONFERENCE OF THE BALKAN PHYSICAL UNION, Attendee, İstanbul, Turkey, 2013

İ.Ü. 3. FİZİK ÇALIŞTAYI, Attendee, Turkey, 2013

İ.Ü. 2. FİZİK ÇALIŞTAYI, Attendee, İstanbul, Turkey, 2012

7. Uluslararası Katılımlı Parçacık Hızlandırıcıları ve Dedektörleri Yaz Okulu, Attendee, Muğla, Turkey, 2011

İ.Ü. FİZİK ÇALIŞTAYI, Attendee, İstanbul, Turkey, 2011

Scholarships

Araştırma Görevlileri İçin Yurt Dışı Araştırma Bursları (YUDAB), University, 2019 - 2019