

## Prof. Dr. Ayşen ÖZEL

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAD-2778-2020

Yoksis Araştırmacı ID: 110745

### Eğitim Bilgileri

Doktora, İstanbul Üniversitesi, Fen Bilimleri, Fizik/Atom Ve Molekül Fiziği, Türkiye 1988 - 1996

Yüksek Lisans, İstanbul Üniversitesi, Fen Bilimleri, Fizik, Türkiye 1986 - 1988

Lisans, İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 1984 - 1986

Ön Lisans, İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 1982 - 1984

### Yabancı Diller

İngilizce, B1 Orta

Fransızca, B2 Orta Üstü

### Yaptığı Tezler

Doktora, Serbest ve Kompleks Yapıda Bazı MOleküllerin Titreşim Frekans ve Kiplerinin Saptanması, İstanbul Üniversitesi, Fen Fakültesi, Fizik/Atom Ve Molekül Fiziği Anabilim Dalı, 1996

Yüksek Lisans, Yeni bir Model ve Kompleks tuzlara Uygulaması, İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü/Atom Ve Molekül Fiziği Anabilim Dalı, 1988

### Araştırma Alanları

Fizik, Atom ve Molekül Fiziği, Atomik ve moleküler etkileşimler, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2008 - Devam Ediyor

Doç. Dr., İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2002 - 2008

Yrd. Doç. Dr., İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1998 - 2002

Araştırma Görevlisi, İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1987 - 1998

### Akademik İdari Deneyim

Bölüm Akademik Teşvik Değerlendirme Komisyonu Başkanı, İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2023 - Devam Ediyor  
Bölüm FEDEK Komisyonu Üyesi, İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2023 - Devam Ediyor  
Fakülte Kurulu Üyesi, İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2023 - Devam Ediyor  
Bölüm Başkanı, İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2023 - Devam Ediyor  
Anabilim/Bilim Dalı Başkanı, İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2022 - Devam Ediyor  
İstanbul Üniversitesi, Fen Fakültesi, , 2006 - 2008

## Verdiği Dersler

Spektral Analiz Yöntemleri, Lisans, 2020 - 2021  
Seminer, Doktora, 2018 - 2019  
İleri Fizik Uygulamaları, Lisans, 2017 - 2018  
Biyolojik aktif moleküllerde teorik konformasyon analizi, Doktora, 2017 - 2018  
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## Yönetilen Tezler

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## Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınavı, İstanbul Üniversitesi, Kasım, 2020

Tez Savunma (Doktora), Yıldız Teknik Üniversitesi, Yıldız Teknik Üniversitesi, Nisan, 2014

Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya atama, İstanbul Teknik Üniversitesi, Şubat, 2013

Doçentlik Sınavı, Doçentlik Sözlü sınavı, Üniversiteler arası Kurul, Üniversitelerarası Kurul Başkanlığı, Aralık, 2012

Doçentlik Sınavı, Doçentlik Eser İnceleme jürisi, Üniversiteler arası Kurul, Üniversitelerarası Kurul Başkanlığı, Nisan, 2012

Tez Savunma (Doktora), Tez savunma jürisi, İstanbul Üniversitesi, Mart, 2012

Doçentlik Sınavı, Doçentlik Sözlü sınavı, Üniversiteler arası Kurul, Üniversitelerarası Kurul Başkanlığı, Ocak, 2011

Tez Savunma (Doktora), Tez savunma jürisi, İstanbul Üniversitesi, Aralık, 2010

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Tez Savunma (Yüksek Lisans), Tez savunma jürisi, İstanbul Üniversitesi, Ağustos, 2009

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Tez Savunma (Yüksek Lisans), Tez savunma jürisi, İstanbul Üniversitesi, Ocak, 2003

Tez Savunma (Yüksek Lisans), Tez savunma jürisi, İstanbul Üniversitesi, Haziran, 2002

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Molecular docking and molecular dynamics studies of Glu-Glu-Arg, Glu-Pro-Arg, and Pro-Arg-Pro tripeptides to reveal their anticancer and antiviral potentials**  
Yılmaz G., ÇELİK S., ÖZEL A., AKYÜZ S.  
Journal of the Chinese Chemical Society, cilt.71, sa.9, ss.1021-1035, 2024 (SCI-Expanded)
- II. **Conformational analysis of milk derived tripeptides, IPP, VPP and LPP, and investigation of their anti-COVID-19 potentials by molecular docking and molecular dynamics studies**  
Çelik S., Akyüz S., Agaeva G., Özel A., Qocayev N., Agaeva U.  
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- III. **Investigations of black and red figure pottery shards and local clay, excavated at Ainos (Enez-Turkey), by multiple analytical techniques**  
Akyüz S., Çelik S., Kurap G., Özel A., Başaran S.  
VIBRATIONAL SPECTROSCOPY, cilt.1, ss.1-13, 2023 (SCI-Expanded)
- IV. **Shedding light into the biological activity of aminopterin, via molecular structural, docking, and molecular dynamics analyses**

- Çelik S., Yılmaz G., Akyüz S., Özel A.  
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- V. **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.  
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- VI. **Structural and vibrational investigations and molecular docking studies of a vinca alkaloid, vinorelbine**  
Çelik S., Akyüz S., Özel A.  
JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, cilt.1, ss.1-20, 2022 (SCI-Expanded)
- VII. **Vibrational Spectroscopic and Molecular Docking Studies of Amrinone, a Cardiotonic Inotropic Drug**  
Çelik S., Akyüz S., Özel A., Akalın E.  
OPTICS AND SPECTROSCOPY, cilt.130, sa.2, ss.215-227, 2022 (SCI-Expanded)
- VIII. **Molecular modeling, DFT quantum chemical analysis, and molecular docking on edotecarin, an indolocarbazole anticancer agent**  
Çelik S., Akyüz S., Özel A.  
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- IX. **Lupeol inhibits pesticides induced hepatotoxicity via reducing oxidative stress and inflammatory markers in rats**  
Çöremen M., Türkyılmaz İ. B., Us H., Sezen Us A., Çelik S., Özel A., Bulan N. Ö., Yanardağ R.  
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- X. **Synthesis, vibrational spectroscopic investigation, molecular docking, antibacterial and antimicrobial studies of a new anthraquinone derivative compound**  
Çelik S., Vagifli F., Akyuz S., Ozkok F., Özel A., Döşler S., Onul N.  
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- XI. **Vibrational spectroscopic characterization and structural investigations of Cepharanthine, a natural alkaloid**  
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- XII. **Raman spectroscopic investigation of the wear effect on the titanium carbonitride/aluminum oxide/titanium nitride coated cutting tool**  
Çelik S., Beköz Ülken N., Akyüz S., Özel A.  
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- XIII. **Structural and spectral analysis of anticancer active cyclo(Ala-His) dipeptide**  
ÇELİK S., Yılmaz G., ÖZEL A., Akyuz S.  
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- XIV. **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.  
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- XV. **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, cilt.1, sa.1, ss.1, 2021 (SCI-Expanded)
- XVI. **Synthesis, molecular modelling, FT-IR, Raman and NMR characterization, molecular docking and ADMET study of new nickel(II) complex with an N-4-tetradentate thiosemicarbazone**  
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- XVII. **Synthesis, FT-IR and NMR Characterization, Antibacterial and Antioxidant Activities, and DNA**

### **Docking Analysis of a New Vanillin-Derived imine Compound**

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- XVIII. Structural Characterization and Drug Delivery System of Natural Growth-Modulating Peptide against Glioblastoma Cancer**  
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International Journal Of Peptide Research And Therapeutics, cilt.1, sa.1, ss.1-45, 2021 (SCI-Expanded)
- XIX. Molecular Structure, Molecular Docking and Absorption, Distribution, Metabolism, Excretion and Toxicity study of cellulose II**  
Çelik S., Demirağ A. D., Özel A., Akyüz S.  
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- XX. Synthesis, antimicrobial activity, molecular docking and ADMET study of a caprolactam-glycine cluster**  
ÇELİK S., Albayrak A. T., Akyuz S., ÖZEL A., Sigirci B. D.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, cilt.39, sa.7, ss.2376-2386, 2021 (SCI-Expanded)
- XXI. Interactions mechanism of commonly used drugs for the treatment of Covid-19**  
Çelik S., Demirağ A. D., Özel A., Akyüz S.  
Bulletin Of The Chemical Society Of Ethiopia, cilt.34, sa.3, ss.613-623, 2020 (SCI-Expanded)
- XXII. Vibrational spectroscopic characterization, quantum chemical and molecular docking studies of Valyl-Methionine dipeptide**  
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- XXIII. Using Raman Spectroscopy to Investigate the Molecular Level Characteristics of Endometriosis**  
Akyuz S., ÇELİK S., USTA A. T., ÖZEL A., Yilmaz G., Yilmaz S.  
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- XXIV. Molecular Structure, Vibrational Spectra, Molecular Docking, and ADMET Study of Cellulose Triacetate II**  
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- XXV. In Silico design of AVP (4–5) peptide and synthesis, characterization and in vitro activity of chitosan nanoparticles**  
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- XXVI. Synthesis, molecular docking and ADMET study of ionic liquid as anticancer inhibitors of DNA and COX-2, TOPII enzymes**  
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- XXVII. Synthesis, FT-IR and NMR characterization, antimicrobial activity, cytotoxicity and DNA docking analysis of a new anthraquinone derivate compound**  
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- XXVIII. Structural analysis, molecular dynamics and docking calculations of skin protective tripeptide and design, characterization, cytotoxicity studies of its PLGA nanoparticles**  
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- XXIX. 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.  
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- XXX. Investigations of the Neolithic potteries of 6th millennium BC from Göytepe-Azerbaijan by vibrational spectroscopy and chemometric techniques**

- AKYÜZ S., Guliyev F., Celik S., Ozel A., Alakbarov V.  
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- XXXI. **Molecular modelling and vibrational investigations of ammonium-based ionic liquid (CLTOAB)**  
Celik S., ALBAYRAK A. T., AKYÜZ S., Ozel A.  
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- XXXII. **Papain Loaded Poly(epsilon-Caprolactone) Nanoparticles: In-silico and In-Vitro Studies**  
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- XXXIII. **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.  
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- XXXIV. **Structural analysis, spectroscopic characterization and molecular docking studies of the cyclic heptapeptide**  
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Journal of Biomolecular Structure and Dynamics, cilt.36, sa.9, ss.2407-2423, 2018 (SCI-Expanded)
- XXXV. **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.  
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- XXXVI. **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.  
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- XXXVII. **Dielectric and Raman spectroscopy of TlSe thin films**  
Ozel A., Deger D., Celik S., Yakut Ş., Karabak B., Akyuz S., Ulutas K.  
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- XXXVIII. **Vibrational spectroscopic and structural investigations of bioactive molecule Glycyl-Tyrosine (Gly-Tyr)**  
Celik S., AKYÜZ S., Ozel A.  
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- XXXIX. **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.  
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- XL. **Conduction mechanisms, molecular modelling and micro-Raman studies of TlInSe<sub>2</sub> chalcogenide crystal**  
Kalkan N., Celik S., Bas H., Ozel A.  
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- XLI. **The conformational and vibrational behavior of the inhibitory neuropeptide derived from beta-endorphin**  
Kecel-Gunduz S., Celik S., Ozel A., AKYÜZ S.  
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- XLII. **Practical aspects**  
Kecel-Gunduz S., Celik S., Ozel A.  
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- XLIII. **Comparative study of antitumor active cyclo(Gly-Leu) dipeptide: A computational and molecular modeling study**  
ÇELİK S., ÖZEL A., Akyuz S.  
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- XLIV. **Structural and vibrational study of primidone based on monomer and dimer calculations**

- Celik S., Kecel-Gunduz S., Ozel A., Akyuz S.  
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- XLV. **Structural and vibrational spectroscopic elucidation of sulphiride in solid state**  
Kecel-Gunduz S., Celik S., Ozel A. E., Akyuz S.  
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- XLVI. **Counterpoise Correction on the Geometries and Vibrational Frequencies of Acetazolamide Dimers**  
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- XLVII. **Structural and Vibrational Study on Monomer and Dimer Forms and Water Clusters of Acetazolamide**  
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- XLVIII. **Structural and IR and Raman spectral analysis of cyclo(His-Phe) dipeptide**  
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- XLIX. **Conformational analysis and vibrational spectroscopic investigation of L-proline-tyrosine (L-Pro-Tyr) dipeptide**  
Kecel S., Ozel A., Akyuz S., Celik S., Agaeva G.  
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