

## Prof. Dr. SEVİM AKYÜZ

### Kişisel Bilgiler

E-posta: s.akyuz@iku.edu.tr

Web: <https://avesis.iku.edu.tr/s.akyuz>

### Uluslararası Araştırmacı ID'leri

ORCID: 0000-0003-3313-6927

Publons / Web Of Science ResearcherID: J-8176-2016

ScopusID: 7005471023

Yoksis Araştırmacı ID: 10127

### Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Türkiye 1968 - 1973

Lisans, Ankara Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Türkiye 1962 - 1967

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, Bazı Hofmann tipi clathrate'ler ve pyridine Komplekslerinin IR bölgede Spektroskopik incelenmesi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 1973

### Araştırma Alanları

Sağlık Bilimleri, Sosyal ve Beşeri Bilimler, Temel Bilimler, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Prof. Dr., İstanbul Kültür Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2007 - Devam Ediyor

Prof. Dr., İstanbul Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1992 - 2007

Prof. Dr., Ondokuz Mayıs Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1987 - 1992

Doç. Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1977 - 1987

### Akademik İdari Deneyim

İstanbul Kültür Üniversitesi, 2017 - 2023

İstanbul Kültür Üniversitesi, 2017 - 2023

İstanbul Üniversitesi, 2004 - 2007

İstanbul Üniversitesi, 1992 - 2001

## Verdiği Dersler

Biyofizik, Lisans, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Biomoleküler Fizik, Yüksek Lisans, 2023 - 2024  
Molekül Fiziği II, Yüksek Lisans, 2023 - 2024  
Genel Fizik 2, Lisans, 2023 - 2024, 2022 - 2023  
Fizik, Lisans, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
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Molekül Fiziği 1, Yüksek Lisans, 2023 - 2024  
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Temel Fizik 2, Lisans, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015  
Physics 1, Lisans, 2014 - 2015  
Physics 2, Lisans, 2014 - 2015

## Yönetilen Tezler

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SEVİM A., İki eş merkezli küre arasında radyasyon transferi, Yüksek Lisans, A.FAWAZ(Öğrenci), 2023  
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SEVİM A., Pirimidin ve aminopirimidin moleküllerinin serbest halde ve kompleks yapıdaki titreşim frekanslarının hesaplanması, Doktora, K.BALCI(Öğrenci), 2003  
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SEVİM A., 2-ve 3-metil pridin moleküllerinin normal koordinat analizi ve titreşim spektrumlarının simülasyonu, Yüksek Lisans, K.BALCI(Öğrenci), 1997

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SEVİM A., Çok atomlu moleküllerin titreşim frekanslarının normal koordinat analizi yöntemi ile incelenmesi, Yüksek Lisans, S.TÜYSÜZOĞLU(Öğrenci), 1983

## Jüri Üyelikleri

Doktora Tez İzleme Komitesi (TİK) Üyeliği, Doktora Tez İzleme Komitesi (TİK) Üyeliği, İstanbul Kültür Üniversitesi, Aralık, 2022

Doktora Yeterlik Sınavı, Doktora Yeterlik Sınavı, İstanbul Üniversitesi, Aralık, 2022

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

- I. **Vibrational spectroscopic characterization, quantum chemical, molecular docking and molecular dynamics investigations of cyclo(L-phenylalanyl-L-proline), an anticancer agent**  
Oktemer T. S., Celik S., Ozel A. E., AKYÜZ S., Er A.  
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- II. **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**  
Yilmaz G., ÇELİK S., Ozel A. E., AKYÜZ S.  
JOURNAL OF THE CHINESE CHEMICAL SOCIETY, cilt.71, sa.9, ss.1021-1035, 2024 (SCI-Expanded)
- III. **Shedding light into the biological activity of aminopterin, <i>via</i> molecular structural, docking, and molecular dynamics analyses**  
ÇELİK S., YILMAZ G., AKYÜZ S., ÖZEL A.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, cilt.42, sa.15, ss.7773-7794, 2024 (SCI-Expanded)
- IV. **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., E. Ozel A., Qocayev N. M., Agaeva U.  
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, cilt.768, sa.5, ss.116-131, 2024 (SCI-Expanded)
- V. **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., Basaran S.  
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- VI. **The effects of conformation and intermolecular hydrogen bonding on the structure and IR spectra of flutamide; a study based on the matrix isolation technique, ab initio and DFT calculations**  
Arman C., Balci K., Akkaya Y., Akyuz S., Reaves-Mckee T., Frankamp A. H., Coates J. T., Collier W. B., Ritzhaupt G., Klehm C. E., et al.  
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- VII. **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 GÜNDÜZ S., ÇELİK S., AKYÜZ S., ÖZEL A., Agaeva G., Suleymanova L. M., Agaeva U., Bakhishova M., Aliyev J. A.  
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- VIII. **Molecular modeling, DFT quantum chemical analysis, and molecular docking on edotecarin, an indolocarbazole anticancer agent**  
ÇELİK S., AKYÜZ S., ÖZEL A.  
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- IX. **Vibrational spectroscopic characterization and structural investigations of Cepharanthine, a natural alkaloid**  
ÇELİK S., AKYÜZ S., ÖZEL A.  
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- X. **Raman spectroscopic investigation of the wear effect on the titanium carbonitride/aluminum oxide/titanium nitride coated cutting tool**  
ÇELİK S., BEKÖZ ÜLLEN N., AKYÜZ S., ÖZEL A.  
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- XI. **Structural and spectral analysis of anticancer active cyclo(Ala-His) dipeptide**  
ÇELİK S., YILMAZ G., ÖZEL A., AKYÜZ S.  
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- XII. **Synthesis, vibrational spectroscopic investigation, molecular docking, antibacterial and antimicrobial studies of a new anthraquinone derivative compound**  
ÇELİK S., Vagifli F., AKYÜZ S., ÖZKÖK F., ÖZEL A., DÖŞLER S., ONUL N.  
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- XIII. **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**  
Gasymov O. K., ÇELİK S., Agaeva G., AKYÜZ S., KECEL GÜNDÜZ S., Qocayev N. M., ÖZEL A., Agaeva U., Bakhishova M., Aliyev J. A.  
JOURNAL OF MOLECULAR GRAPHICS & MODELLING, cilt.108, 2021 (SCI-Expanded)
- XIV. **Structural Characterization and Drug Delivery System of Natural Growth-Modulating Peptide Against Glioblastoma Cancer**  
KILINÇ Y., KECEL GÜNDÜZ S., ÇAKIR R., Aslan B., BIÇAK B., Kokcu Y., ÖZEL A., AKYÜZ S.  
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- XV. **Synthesis, FT-IR and NMR Characterization, Antibacterial and Antioxidant Activities, and DNA Docking Analysis of a New Vanillin-Derived imine Compound**  
ÇELİK S., ÖZKÖK F., ÖZEL A., Cakir E., AKYÜZ S.  
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- XVI. **Molecular Structure, Molecular Docking and Absorption, Distribution, Metabolism, Excretion and Toxicity study of cellulose II**  
ÇELİK S., Demirag A. D., ÖZEL A., AKYÜZ S.  
Journal of the Chinese Chemical Society, cilt.68, sa.7, ss.1250-1262, 2021 (SCI-Expanded)
- XVII. **Synthesis, antimicrobial activity, molecular docking and ADMET study of a caprolactam-glycine cluster**

- ÇELİK S., ALBAYRAK A. T., AKYÜZ S., ÖZEL A., DİREN SİĞİRCİ B.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, cilt.39, sa.7, ss.2376-2386, 2021 (SCI-Expanded)
- XVIII. **Synthesis, molecular modelling, FT-IR, Raman and NMR characterization, molecular docking and ADMET study of new nickel(II) complex with an N<sup>4</sup>-tetradentate thiosemicarbazone**  
Eglençe-Bakır S., ÇELİK S., ŞAHİN M., ÖZEL A., AKYÜZ S., ÜLKÜSEVEN B.  
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- XIX. **INTERACTIONS MECHANISM OF COMMONLY USED DRUGS FOR THE TREATMENT OF COVID-19**  
ÇELİK S., Demirag A. D., ÖZEL A., AKYÜZ S.  
BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA, cilt.34, sa.3, ss.613-623, 2021 (SCI-Expanded)
- XX. **Vibrational spectroscopic characterization, quantum chemical and molecular docking studies of Valyl-Methionine dipeptide**  
ÇELİK S., ÖZEL A., Durak V., AKYÜZ S.  
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- XXI. **Using Raman Spectroscopy to Investigate the Molecular Level Characteristics of Endometriosis**  
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- XXII. **Molecular Structure, Vibrational Spectra, Molecular Docking, and ADMET Study of Cellulose Triacetate II**  
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- XXIII. **In Silico design of AVP (4-5) peptide and synthesis, characterization and in vitro activity of chitosan nanoparticles**  
KECEL GÜNDÜZ S., KILINÇ Y., ÇAKIR R., Zorlu T., BIÇAK B., Kokcu Y., ÖZEL A., AKYÜZ S.  
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- XXIV. **Synthesis, molecular docking and ADMET study of ionic liquid as anticancer inhibitors of DNA and COX-2, TOPII enzymes**  
ÇELİK S., ALBAYRAK A. T., AKYÜZ S., ÖZEL A.  
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- XXV. **Synthesis, FT-IR and NMR characterization, antimicrobial activity, cytotoxicity and DNA docking analysis of a new anthraquinone derivate compound**  
ÇELİK S., ÖZKÖK F., ÖZEL A., ŞAHİN Y. M., AKYÜZ S., DİREN SİĞİRCİ B., BAŞARAN KAHRAMAN B., Darici H., Karaoz E.  
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- XXVI. **Structural analysis, molecular dynamics and docking calculations of skin protective tripeptide and design, characterization, cytotoxicity studies of its PLGA nanoparticles**  
Kokcu Y., KECEL GÜNDÜZ S., KILINÇ Y., ÇAKIR R., BIÇAK B., Zorlu T., ÖZEL A., AKYÜZ S.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1200, 2020 (SCI-Expanded)
- XXVII. **Molecular Modeling, Dimer Calculations, Vibrational Spectra, and Molecular Docking Studies of 5-Chlorouracil**  
AKALIN E., ÇELİK S., AKYÜZ S.  
JOURNAL OF APPLIED SPECTROSCOPY, cilt.86, sa.6, ss.975-985, 2020 (SCI-Expanded)
- XXVIII. ***In silico* Analysis of Sulpiride, Synthesis, Characterization and *In vitro* Studies of its Nanoparticle for the Treatment of Schizophrenia**  
KECEL GÜNDÜZ S., KILINÇ Y., ÇAKIR R., Zorlu T., BIÇAK B., Kokcu Y., Kaya Z., ÖZEL A., AKYÜZ S.  
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- XXIX. **Investigations of the Neolithic potteries of 6th millennium BC from Goytepe-Azerbaijan by vibrational spectroscopy and chemometric techniques**  
AKYÜZ S., Guliyev F., ÇELİK S., ÖZEL A., Alakbarov V.  
VIBRATIONAL SPECTROSCOPY, cilt.105, 2019 (SCI-Expanded)
- XXX. **Molecular modelling and vibrational investigations of ammonium-based ionic liquid (CLTOAB)**  
ÇELİK S., ALBAYRAK A. T., AKYÜZ S., ÖZEL A.  
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- XXXI. **Investigation of adsorption of 5-Chlorouracil onto montmorillonite: An IR and Raman spectroscopic study**  
AKYÜZ S., Akyuz T.  
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- XXXII. **Structural analysis, spectroscopic characterization and molecular docking studies of the cyclic heptapeptide**  
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- XXXIII. **Investigations of Archaeological Glass Bracelets and Perfume Bottles Excavated in Ancient Ainos (Enez) by Multiple Analytical Techniques**  
ÇELİK S., Akyuz T., AKYÜZ S., ÖZEL A., KECEL GÜNDÜZ S., Basaran S.  
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- XXXIV. **FTIR Spectroscopy of Protein Isolates of Salt-Tolerant Soybean Mutants**  
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- XXXV. **Dielectric and Raman spectroscopy of TiSe thin films**  
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- XXXVI. **Vibrational spectroscopic and structural investigations of bioactive molecule Glycyl-Tyrosine (Gly-Tyr)**  
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- XXXVII. **Structural and spectroscopic investigation on antioxidant dipeptide, L-Methionyl-L-Serine: A combined experimental and DFT study**  
KECEL GÜNDÜZ S., BIÇAK B., ÇELİK S., AKYÜZ S., ÖZEL A.  
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- XXXVIII. **Investigations of historical textiles from the Imperial Pavilion (Hunkar Kasri) of the new mosque Eminonu-Istanbul (Turkey) by multiple analytical techniques**  
Akyuz T., AKYÜZ S., BALCI K., Gulec A.  
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- XXXIX. **Investigations on Empire series postage stamps of Ottomans (printed 1880-1890) by vibrational spectroscopic and energy dispersive X-ray fluorescence techniques**  
Akyuz T., AKYÜZ S.  
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- XL. **The conformational and vibrational behavior of the inhibitory neuropeptide derived from beta-endorphin**  
KECEL GÜNDÜZ S., ÇELİK S., ÖZEL A., AKYÜZ S.  
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- XLI. **The effects of conformation and zwitterionic tautomerism on the structural and vibrational spectral data of anserine**  
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- XLII. **Comparative study of antitumor active cyclo(Gly-Leu) dipeptide: A computational and molecular modeling study**  
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- XLIII. **Investigations of Ancient Terra-cotta Sarcophagi, Excavated in Enez (Ainos) Turkey, by Instrumental Neutron Activation Analysis**  
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- XLIV. **A vibrational spectroscopy study on anserine and its aqueous solutions**

- AKKAYA Y., BALCI K., Goren Y., AKYÜZ S., Stricker M. C., Stover D. D., Ritzhaupt G., Collier W. B.  
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