



SEFA ÇELİK

PROF.

Email : scelik@istanbul.edu.tr

Office Phone : [+90 212 455 5700](tel:+902124555700) Extension: 13773

International Researcher IDs

ScholarID: tqnFv2EAAAAJ

ORCID: 0000-0001-6216-1297

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ScopusID: 55421873200

Yoksis Researcher ID: 110147



Supported Projects

1. ÇELİK S., AKYÜZ S., ALBAYRAK A. T., Project Supported by Higher Education Institutions, Molecular modelling and vibrational investigations of ammonium-based ionic liquid (CLTOAB), 2020 - 2024
2. ÖZEL A., KALKAN N., ÇELİK S., Project Supported by Higher Education Institutions, Conduction mechanisms molecular modelling and microRaman studies of TlInSe₂ chalcogenide crystal, 2018 - 2019
3. 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
4. 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
5. ÇELİK S., AKYÜZ S., ÖZEL A., KECEL 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
6. ÇELİK S., AKYÜZ S., ÖZEL A., Project Supported by Higher Education Institutions, Vibrational Spectroscopic and Structural Investigations of Bioactive Molecule Glycyl-Tyrosine(Gly-Tyr), 2018 - 2018
7. ÖZEL A., ÇELİK S., Project Supported by Higher Education Institutions, Nanobiomaterials Science Development and Evaluation, 2017 - 2018
8. ÇELİK S., AKYÜZ S., Project Supported by Higher Education Institutions, BINDING INTERACTIONS OF TYR-ILE-GLY-SER-ARG LIGAND WITH LAMININ RECEPTOR MODELS, 2017 - 2018
9. AKYÜZ S., KECEL 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
10. ÇELİK S., AKYÜZ S., ÖZEL A., Project Supported by Higher Education Institutions, Comparative study of antitumor active cyclo(Gly-Leu) dipeptide : A computational and molecular modeling study, 2017 - 2017
11. ÇELİK S., AKYÜZ S., Project Supported by Higher Education Institutions, CONFORMATIONAL STABILITY AND SPECTROSCOPIC ANALYSIS OF THE CYCLIC HEPTAPEPTIDE, 2016 - 2016
12. 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
13. ÇELİK S., Project Supported by Higher Education Institutions, Structural and vibrational study of primidone based

on monomer and dimer calculations, 2014 - 2016

14. ÇELİK S., Project Supported by Higher Education Institutions, Spectroscopic Identification of the Ancient Glasses excavated in Enez (Ancient Ainos) Turkey, 2015 - 2015
15. ÇELİK S., Project Supported by Higher Education Institutions, CONFORMATIONAL PREFERENCES AND STRUCTURAL ELUCIDATION OF BIOLOGICALLY ACTIVE PENTAPEPTIDE, 2014 - 2014
16. ÇELİK S., Project Supported by Higher Education Institutions, QUANTUM CHEMICAL AND CONFORMATIONAL INVESTIGATION ON HYDROGEN BONDING INTERACTION OF H-GLY-TYR-OH DIMER AT VARIOUS MUTUAL ORIENTATION, 2013 - 2013
17. ÇELİK S., Project Supported by Higher Education Institutions, Conformational preferences, experimental and theoretical vibrational spectra of cyclo(Gly?Val) dipeptide, 2012 - 2012
18. ÇELİK S., Project Supported by Higher Education Institutions, CONFORMATIONAL PREFERENCES AND VIBRATIONAL SPECTRA OF GLYCYL-TYROSINE DIPEPTIDE, 2012 - 2012
19. ÇELİK S., Project Supported by Higher Education Institutions, Conformational Analysis of Cyclo (GLY-LEU): Comparison of Experimental and DFT Vibrational Spectra, 2011 - 2011

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1. **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**
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2. **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**
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3. **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.
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4. **Shedding light into the biological activity of aminopterin, via molecular structural, docking, and molecular dynamics analyses**
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6. **Vibrational Spectroscopic and Molecular Docking Studies of Amrinone, a Cardiotonic Inotropic Drug**
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7. **Structural and vibrational investigations and molecular docking studies of a vinca alkaloid, vinorelbine**
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8. **Molecular modeling, DFT quantum chemical analysis, and molecular docking on edotecarin, an indolocarbazole anticancer agent**
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14. **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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15. **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**
Eğlence-Bakır S., Celik S., Şahin M., Ozel A., Akyuz S., Ülküseven B.
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17. **Molecular Structure, Molecular Docking and Absorption, Distribution, Metabolism, Excretion and Toxicity study of cellulose II**
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18. **Synthesis, antimicrobial activity, molecular docking and ADMET study of a caprolactam-glycine cluster**
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19. **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, vol.34, no.3, pp.613-623, 2020 (SCI-Expanded)
20. **Vibrational spectroscopic characterization, quantum chemical and molecular docking studies of Valyl-Methionine dipeptide**
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21. **Molecular Structure, Vibrational Spectra, Molecular Docking, and ADMET Study of Cellulose Triacetate II**
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22. **Using Raman Spectroscopy to Investigate the Molecular Level Characteristics of Endometriosis**

- Akyuz S., ÇELİK S., USTA A. T., ÖZEL A., Yılmaz G., Yılmaz S.
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23. **Synthesis, molecular docking and ADMET study of ionic liquid as anticancer inhibitors of DNA and COX-2, TOPII enzymes**
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25. **Molecular Modeling, Dimer Calculations, Vibrational Spectra, and Molecular Docking Studies of 5-Chlorouracil**
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26. **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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29. **Investigations of Archaeological Glass Bracelets and Perfume Bottles Excavated in Ancient Ainos (Enez) by Multiple Analytical Techniques**
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30. **Dielectric and Raman spectroscopy of TlSe thin films**
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31. **Vibrational spectroscopic and structural investigations of bioactive molecule Glycyl-Tyrosine (Gly-Tyr)**
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32. **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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33. **Conduction mechanisms, molecular modelling and micro-Raman studies of TlInSe₂ chalcogenide crystal**
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 41. **Conformational preferences, experimental and theoretical vibrational spectra of cyclo(Gly-Val) dipeptide**
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2. **The Inhibitory Activity of Ruxolitinib Against COVID-19 Major Protease Enzyme and SARS Cov-2 Spike Glycoprotein: A Molecular Docking Study**
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 5. **Molecular Docking Analysis on the Antiviral Effects of Curcumin on SARS-CoV-2**
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 7. **Comparative Conformational Analysis of Anticancer Pentapeptide Glu-Gln-Arg-Pro-Arg Isolated From Rice Bran Protein and Its Single- and All D-Amino Acid Isomers Analogs**
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