

Prof. SEVİM AKYÜZ

Personal Information

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International Researcher IDs

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

ScopusID: 7005471023

Yoksis Researcher ID: 10127

Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1968 - 1973

Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1962 - 1967

Foreign Languages

English, B2 Upper Intermediate

Dissertations

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

Research Areas

Health Sciences, Social Sciences and Humanities, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, 2007 - Continues

Professor, Istanbul University, Fen Fakültesi, Fizik Bölümü, 1992 - 2007

Professor, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1987 - 1992

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1977 - 1987

Academic and Administrative Experience

Istanbul Kultur University, 2017 - 2023

Istanbul Kultur University, 2017 - 2023

Istanbul University, 2004 - 2007

Istanbul University, 1992 - 2001

Courses

Biyofizik, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Biomoleküler Fizik, Postgraduate, 2023 - 2024
Molecular Physics II, Postgraduate, 2023 - 2024
Genel Fizik 2, Undergraduate, 2023 - 2024, 2022 - 2023
Fizik, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Moleküler simetri ve grup teorisi, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Molecular Physics 1, Postgraduate, 2023 - 2024
Genel Fizik 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2015 - 2016
Biyomoleküler Fizik, Postgraduate, 2022 - 2023, 2021 - 2022
TEMEL FİZİK 1, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Temel Fizik 2, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Physics 1, Undergraduate, 2014 - 2015
Physics 2, Undergraduate, 2014 - 2015

Advising Theses

Akyüz S., ANTI-KANSER İLAÇ ADAYI L-GLU-L-GLN-L-ARG-L-PRO-L-ARG PENTAPEPTİDİNİN MOLEKÜLER MODELLEMESİ ve TİTREŞİMSEL SPEKTRAL ANALİZİ, Doctorate, G.YILMAZ(Student), 2024
SEVİM A., İki eş merkezli küre arasında radyasyon transferi, Postgraduate, A.FAWAZ(Student), 2023
SEVİM A., Bir, iki ve üç boyutlu helyum-4 (He-4) atomunun termodinamik özellikleri, Postgraduate, Y.HUSSEIN(Student), 2023
SEVİM A., Teorik moleküler modelleme ve deneysel FT-IR ve raman spektroskopisi teknikleri ile tarihi eserlerin incelenmesi, Doctorate, A.DEMET(Student), 2022
SEVİM A., Enez arkeolojik kazısından çıkan bazı seramiklerin FTIR ve Raman spektroskopik yöntemleri ile incelenmesi ve pişirilme sıcaklıklarının saptanması, Postgraduate, Ş.BAHADIR(Student), 2021
SEVİM A., Ainos (Enez) siyah figürlü Kylikleri, Doctorate, G.KURAP(Student), 2020
SEVİM A., Pridoksin ve trimetoprim moleküllerinin ab-initio HF ve yoğunluk fonksiyonu teorisi (DFT) ile konformasyon analizi ve titreşim frekans ve kiplerinin incelenmesi, Doctorate, B.ATAK(Student), 2015
SEVİM A., Sülfon ve sülfonamid gruplu moleküllerin konformasyonlarının ve titreşim enerjilerinin kuantum kimyasal yöntemler ile incelenmesi, Doctorate, G.ÖĞRÜÇ(Student), 2008
SEVİM A., Pirimidin ve aminopirimidin moleküllerinin serbest halde ve kompleks yapıdaki titreşim frekanslarının hesaplanması, Doctorate, K.BALCI(Student), 2003
SEVİM A., Nikotinamid molekülünün titreşimsel spektrumunun deneysel ve teorik yöntemlerle incelenmesi, Postgraduate, O.BÖLÜKBAŞI(Student), 2003
SEVİM A., Kiyotorfin dipeptidinin sıcaklığa bağlı FT-IR spektroskopisi ile incelenmesi, Postgraduate, A.YILMAZ(Student), 2003
SEVİM A., Serbest ve kompleks yapıdaki diaminobenzen moleküllerinin teorik ve deneysel kırmızı-altı spektroskopisi ile incelenmesi, Doctorate, E.AKALIN(Student), 2001
SEVİM A., 2-,3- ve 4-aminopridin moleküllerinin titreşim frekanslarının hesabı, Doctorate, Y.BÜYÜKMURAT(Student), 2000
SEVİM A., Sepiyolit ve bentonitik killerin bazı molekülleri yüzeysel soğurmasının kırmızı-altı spektroskopisi ile incelenmesi, Doctorate, A.EZGİ(Student), 1999
SEVİM A., Y-Pikolin molekülünün titreşim frekans ve kiplerinin hesaplanması ve titreşim spektrumunun simülasyonu, Postgraduate, D.SALTER(Student), 1997
SEVİM A., Kiyotorfin dipeptidinin ve bunun (D-Arg)₂ analogunun teorik konformasyon analizi ve incelemesi, Postgraduate, D.GÖKKAYA(Student), 1997
SEVİM A., 2-ve 3-metil pridin moleküllerinin normal koordinat analizi ve titreşim spektrumlarının simülasyonu,

Postgraduate, K.BALCI(Student), 1997
SEVİM A., Serbest ve kompleks yapılı 2-clpy moleküllerinin titreşim frekans ve kiplerinin saptanması, Doctorate, M.BAKİLER(Student), 1996
SEVİM A., Serbest ve kompleks yapıda bazı moleküllerin titreşim frekans ve kiplerinin saptanması, Doctorate, A.ERBÖLÜKBAŞ(Student), 1996
SEVİM A., Bazı biyolojik aktif moleküllerin konformasyon analizi yöntemi ile yapıların incelenmesi, Postgraduate, L.GÜNEL(Student), 1996
SEVİM A., İçerikli bileşiklerde anaörgü-konuk molekül etkileşimlerinin titreşimsel spektroskopisi ile incelenmesi, Doctorate, K.ESMER(Student), 1996
SEVİM A., Geçiş metallerinin bazı tetrasiyanonik bileşiklerinin titreşim frekans ve kiplerinin saptanması, Doctorate, H.PAŞAOĞLU(Student), 1993
SEVİM A., Bentonitin metil pridin ve benzidini yüzeysel soğurmasının kırmızı-altı spektroskopisi ile incelenmesi, Postgraduate, N.KAHVECİ(Student), 1991
SEVİM A., Bazı bor tuzlarının kırmızı-altı spektroskopisi ile incelenmesi, Postgraduate, M.AYGÜN(Student), 1990
SEVİM A., Lüle taşı mineralinin N,N-dimetilanilini soğurması ve oksitlenmesinin kırmızı-altı spektroskopisi ile incelenmesi, Postgraduate, İ.KARTAL(Student), 1989
SEVİM A., Asbest minerallerinin kırmızı-altı spektroskopisi ile incelenmesi, Postgraduate, N.ÖZTÜREL(Student), 1986
SEVİM A., Bazı organometalik bileşenlerinin titreşim frekans ve kiplerinin saptanması ve yapı içindeki etkileşimlerinin incelenmesi, Doctorate, Ş.AĞUSTOSLU(Student), 1985
SEVİM A., Çok atomlu moleküllerin titreşim frekanslarının normal koordinat analizi yöntemi ile incelenmesi, Postgraduate, S.TÜYSÜZOĞLU(Student), 1983

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Kültür Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, December, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- 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.
SPECTROSCOPY LETTERS, 2024 (SCI-Expanded)
- 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, vol.71, no.9, pp.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, vol.42, no.15, pp.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, vol.768, no.5, pp.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.

Vibrational Spectroscopy, vol.129, 2023 (SCI-Expanded)

- 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.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.292, 2023 (SCI-Expanded)
- 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.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.41, no.10, pp.4321-4343, 2023 (SCI-Expanded)
- VIII. **Molecular modeling, DFT quantum chemical analysis, and molecular docking on edotecarin, an indolocarbazole anticancer agent**
ÇELİK S., AKYÜZ S., ÖZEL A.
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.753, no.1, pp.27-49, 2023 (SCI-Expanded)
- IX. **Vibrational spectroscopic characterization and structural investigations of Cepharanthine, a natural alkaloid**
ÇELİK S., AKYÜZ S., ÖZEL A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1258, 2022 (SCI-Expanded)
- 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.
Spectroscopy Letters, vol.55, no.3, pp.172-182, 2022 (SCI-Expanded)
- XI. **Structural and spectral analysis of anticancer active cyclo(Ala-His) dipeptide**
ÇELİK S., YILMAZ G., ÖZEL A., AKYÜZ S.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.2, pp.660-672, 2022 (SCI-Expanded)
- 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.
Spectroscopy Letters, vol.55, no.4, pp.259-277, 2022 (SCI-Expanded)
- XIII. **Evaluation of anti-cancer and <i>anti</i>-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, vol.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.
INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS, vol.27, no.3, pp.2015-2028, 2021 (SCI-Expanded)
- 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.
JOURNAL OF MOLECULAR STRUCTURE, vol.1236, 2021 (SCI-Expanded)
- 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, vol.68, no.7, pp.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, vol.39, no.7, pp.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 N⁴-tetradentate thiosemicarbazone**
Eglençe-Bakir S., ÇELİK S., ŞAHİN M., ÖZEL A., AKYÜZ S., ÜLKÜSEVEN B.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.39, no.12, pp.4212-4224, 2021 (SCI-Expanded)
- 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, vol.34, no.3, pp.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.
SPECTROSCOPY LETTERS, vol.53, no.9, pp.648-663, 2020 (SCI-Expanded)
- XXI. **Using Raman Spectroscopy to Investigate the Molecular Level Characteristics of Endometriosis**
AKYÜZ S., ÇELİK S., USTA A. T., ÖZEL A., YILMAZ G., Yılmaz S.
OPTICS AND SPECTROSCOPY, vol.128, no.8, pp.1318-1327, 2020 (SCI-Expanded)
- XXII. **Molecular Structure, Vibrational Spectra, Molecular Docking, and ADMET Study of Cellulose Triacetate II**
ÇELİK S., Demirag A. D., ÖZEL A., AKYÜZ S.
OPTICS AND SPECTROSCOPY, vol.128, no.8, pp.1138-1150, 2020 (SCI-Expanded)
- 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.
DARU-JOURNAL OF PHARMACEUTICAL SCIENCES, vol.28, no.1, pp.139-157, 2020 (SCI-Expanded)
- 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.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.38, no.5, pp.1354-1364, 2020 (SCI-Expanded)
- 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.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.38, no.3, pp.756-770, 2020 (SCI-Expanded)
- 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, vol.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, vol.86, no.6, pp.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.
CURRENT COMPUTER-AIDED DRUG DESIGN, vol.16, no.2, pp.104-121, 2020 (SCI-Expanded)
- 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, vol.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.

- JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.37, no.10, pp.2515-2526, 2019 (SCI-Expanded)
- XXXI. **Investigation of adsorption of 5-Chlorouracil onto montmorillonite: An IR and Raman spectroscopic study**
AKYÜZ S., Akyuz T.
APPLIED CLAY SCIENCE, vol.164, pp.54-57, 2018 (SCI-Expanded)
- XXXII. **Structural analysis, spectroscopic characterization and molecular docking studies of the cyclic heptapeptide**
ÇELİK S., KECEL GÜNDÜZ S., AKYÜZ S., ÖZEL A.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.36, no.9, pp.2407-2423, 2018 (SCI-Expanded)
- 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.
JOURNAL OF APPLIED SPECTROSCOPY, vol.85, no.1, pp.178-183, 2018 (SCI-Expanded)
- XXXIV. **FTIR Spectroscopy of Protein Isolates of Salt-Tolerant Soybean Mutants**
AKYÜZ S., Akyuz T., Celik O., Atak C.
JOURNAL OF APPLIED SPECTROSCOPY, vol.84, no.6, pp.1019-1023, 2018 (SCI-Expanded)
- XXXV. **Dielectric and Raman spectroscopy of TlSe thin films**
ÖZEL A., Deger D., ÇELİK S., YAKUT Ş., Karabak B., AKYÜZ S., Ulutas K.
PHYSICA B-CONDENSED MATTER, vol.527, pp.72-77, 2017 (SCI-Expanded)
- XXXVI. **Vibrational spectroscopic and structural investigations of bioactive molecule Glycyl-Tyrosine (Gly-Tyr)**
ÇELİK S., AKYÜZ S., ÖZEL A.
VIBRATIONAL SPECTROSCOPY, vol.92, pp.287-297, 2017 (SCI-Expanded)
- 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.
JOURNAL OF MOLECULAR STRUCTURE, vol.1137, pp.756-770, 2017 (SCI-Expanded)
- 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.
JOURNAL OF CULTURAL HERITAGE, vol.25, pp.180-184, 2017 (SCI-Expanded)
- 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.
VIBRATIONAL SPECTROSCOPY, vol.89, pp.37-43, 2017 (SCI-Expanded)
- XL. **The conformational and vibrational behavior of the inhibitory neuropeptide derived from beta-endorphin**
KECEL GÜNDÜZ S., ÇELİK S., ÖZEL A., AKYÜZ S.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.35, no.3, pp.585-602, 2017 (SCI-Expanded)
- XLI. **The effects of conformation and zwitterionic tautomerism on the structural and vibrational spectral data of anserine**
BALCI K., AKKAYA Y., AKYÜZ S., Collier W. B., Stricker M. C., Stover D. D., Ritzhaupt G., Koch A., Kleinpeter E.
VIBRATIONAL SPECTROSCOPY, vol.86, pp.277-289, 2016 (SCI-Expanded)
- XLII. **Comparative study of antitumor active cyclo(Gly-Leu) dipeptide: A computational and molecular modeling study**
ÇELİK S., ÖZEL A., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.83, pp.57-69, 2016 (SCI-Expanded)
- XLIII. **Investigations of Ancient Terra-cotta Sarcophagi, Excavated in Enez (Ainos) Turkey, by Instrumental Neutron Activation Analysis**
AKYÜZ S., Akyuz T., Mukhamedshina N. M., BALCI K., Mirsagatova A. A., Kurap G., Basarans S.
CROATICA CHEMICA ACTA, vol.88, no.4, pp.421-425, 2015 (SCI-Expanded)

- 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.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.149, pp.812-821, 2015
(SCI-Expanded)
- XLV. **A vibrational spectroscopy study on 3-aminophenylacetic acid by DFT calculations**
AKKAYA Y., BALCI K., Goren Y., AKYÜZ S.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.147, pp.303-315, 2015
(SCI-Expanded)
- XLVI. **Elemental and spectroscopic characterization of plasters from Fatih Mosque-Istanbul (Turkey) by combined micro-Raman, FTIR and EDXRF techniques**
Akyuz T., AKYÜZ S., Gulec A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.149, pp.744-750, 2015
(SCI-Expanded)
- XLVII. **Structural and vibrational study of primidone based on monomer and dimer calculations**
ÇELİK S., KECEL GÜNDÜZ S., ÖZEL A., AKYÜZ S.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.33, no.4, pp.911-923, 2015 (SCI-Expanded)
- XLVIII. **Structural and vibrational spectroscopic elucidation of sulphiride in solid state**
KECEL GÜNDÜZ S., ÇELİK S., ÖZEL A., AKYÜZ S.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.33, no.2, pp.322-343, 2015 (SCI-Expanded)
- XLIX. **Investigations of the historic textiles excavated from Ancient Ainos (Enez - Turkey) by multiple analytical techniques**
AKYÜZ S., Akyuz T., UÇAR F. B., Basaran S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1073, pp.37-43, 2014 (SCI-Expanded)
- L. **Investigation of Adsorption of 5-Fluorouracil and 5-Bromouracil onto Sepiolite and Loughlinite: An IR Spectroscopic Study**
AKYÜZ S., Akyuz T., AKALIN E.
ASIAN JOURNAL OF CHEMISTRY, vol.26, no.15, pp.4875-4878, 2014 (SCI-Expanded)
- LI. **Adsorption of Isonicotinamide on Loughlinite (Natural Na-Sepiolite): An FT-IR Spectroscopic Study**
AKYÜZ S., Akyuz T.
ASIAN JOURNAL OF CHEMISTRY, vol.26, no.14, pp.4197-4200, 2014 (SCI-Expanded)
- LII. **Structural and Vibrational Study on Monomer and Dimer Forms and Water Clusters of Acetazolamide**
ÖZEL A., KECEL GÜNDÜZ S., ÇELİK S., AKYÜZ S.
JOURNAL OF SPECTROSCOPY, vol.1, 2013 (SCI-Expanded)
- LIII. **FTIR and EDXRF investigations of salt tolerant soybean mutants**
AKYÜZ S., Akyuz T., ÇELİK Ö., ATAK Ç.
JOURNAL OF MOLECULAR STRUCTURE, vol.1044, pp.67-71, 2013 (SCI-Expanded)
- LIV. **New ring-like models and *ab initio* DFT study of the medium-range structures, energy and electronic properties of GeSe₂ glass**
Holomb R., Mitsa V., AKYÜZ S., AKALIN E.
PHILOSOPHICAL MAGAZINE, vol.93, no.19, pp.2549-2562, 2013 (SCI-Expanded)
- LV. ***Ab initio* and Raman study of medium range ordering in GeSe₂ glass**
Holomb R., Mitsa V., AKALIN E., AKYÜZ S., Sichka M.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.373-374, pp.51-56, 2013 (SCI-Expanded)
- LVI. **Counterpoise Correction on the Geometries and Vibrational Frequencies of Acetazolamide Dimers**
ÖZEL A., KECEL GÜNDÜZ S., ÇELİK S., AKYÜZ S.
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.14, pp.8151-8156, 2013 (SCI-Expanded)
- LVII. **EDXRF and FTIR Analysis of Some Glass Fragments Belong to Ottoman Period, Excavated in Ancient Ainos (Enez) Turkey**
Akyuz T., AKYÜZ S., Basaran S., UÇAR F. B.
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.18, pp.10397-10400, 2013 (SCI-Expanded)

- LVIII. **Elemental characterization of PM_{2.5} and PM₁ in dense traffic area in Istanbul, Turkey**
ONAT B., ALVER ŞAHİN Ü., AKYÜZ S.
ATMOSPHERIC POLLUTION RESEARCH, vol.4, no.1, pp.101-105, 2013 (SCI-Expanded)
- LIX. **Vibrational Spectroscopic Investigation of Tetracyanopalladate Bridged Two Dimensional Coordination Polymer Compounds of Pyrimidine**
AKKAYA Y., AKYÜZ S., Akyuz T.
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.16, pp.9185-9188, 2013 (SCI-Expanded)
- LX. **Structural and IR and Raman spectral analysis of cyclo(His-Phe) dipeptide**
ÇELİK S., ÖZEL A., KECEL GÜNDÜZ S., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.61, pp.54-65, 2012 (SCI-Expanded)
- LXI. **Characterization of ancient glass excavated in Enez (Ancient Ainos) Turkey by combined Instrumental Neutron Activation Analysis and Fourier Transform Infrared spectrometry techniques**
AKYÜZ S., Akyuz T., Mukhamedshina N. M., Mirsagatova A. A., Basaran S., UÇAR F. B.
SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.71-72, pp.75-79, 2012 (SCI-Expanded)
- LXII. **Pigment analyses of a portrait and paint box of Turkish artist Feyhaman Duran (1886-1970): The EDXRF, FT-IR and micro Raman spectroscopic studies**
AKYÜZ S., Akyuz T., EMRE G., Gulec A., Basaran S.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.89, pp.74-81, 2012 (SCI-Expanded)
- LXIII. **Excitation energy-dependent nature of Raman scattering spectrum in GaInNAs/GaAs quantum well structures**
EROL A., AKALIN E., SARCAN F., DÖNMEZ Ö., AKYÜZ S., Arikan C. M., Puustinen J., Guina M.
NANOSCALE RESEARCH LETTERS, vol.7, 2012 (SCI-Expanded)
- LXIV. **Neutron Activation Analysis of Surface Sediments From Dardanelles**
ILGAR R., Akyuz T., Mukhamedshina N., AKYÜZ S., Mirsagatova A. A., SARI E.
ASIAN JOURNAL OF CHEMISTRY, vol.24, no.10, pp.4569-4572, 2012 (SCI-Expanded)
- LXV. **A conformational analysis and vibrational spectroscopic investigation on 1,2-bis(*o*-carboxyphenoxy) ethane molecule**
BALCI K., Yapar G., AKKAYA Y., AKYÜZ S., Koch A., Kleinpeter E.
VIBRATIONAL SPECTROSCOPY, vol.58, pp.27-43, 2012 (SCI-Expanded)
- LXVI. **Conformational analysis and vibrational spectroscopic studies on dapsone**
ÖĞRÜÇ İLDİZ G., AKYÜZ S.
OPTICS AND SPECTROSCOPY, vol.113, no.5, pp.495-504, 2012 (SCI-Expanded)
- LXVII. **Conformational analysis and vibrational study of sulfanilamide**
ÖĞRÜÇ İLDİZ G., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.58, pp.12-18, 2012 (SCI-Expanded)
- LXVIII. **Raman micro-spectroscopic investigation of the interaction of cultured HCT116 colon cancer cells with alpha-difluoromethylornithine (DFMO), an irreversible inhibitor of ornithine decarboxylase**
AKYÜZ S., ÖZEL A., BALCI K., Akyuz T., Coker A., Arisan E. D., Palavan-Unsal N., Ozalpan A.
JOURNAL OF MOLECULAR STRUCTURE, vol.993, no.1-3, pp.319-323, 2011 (SCI-Expanded)
- LXIX. **Conformational analysis and vibrational spectroscopic investigation of L-proline-tyrosine (L-Pro-Tyr) dipeptide**
KECEL GÜNDÜZ S., ÖZEL A., AKYÜZ S., ÇELİK S., Agaeva G.
JOURNAL OF MOLECULAR STRUCTURE, vol.993, no.1-3, pp.349-356, 2011 (SCI-Expanded)
- LXX. **Experimental and theoretical vibrational spectroscopic investigation of Zn(II) halide complexes of 3-aminopyridine and 3-chloropyridine**
AKALIN E., AKYÜZ S.
JOURNAL OF MOLECULAR STRUCTURE, vol.993, no.1-3, pp.390-396, 2011 (SCI-Expanded)
- LXXI. **Conformational preferences, experimental and theoretical vibrational spectra of cyclo(Gly-Val) dipeptide**

- ÇELİK S., ÖZEL A., AKYÜZ S., KECEL GÜNDÜZ S., Agaeva G.
JOURNAL OF MOLECULAR STRUCTURE, vol.993, no.1-3, pp.341-348, 2011 (SCI-Expanded)
- LXXII. **Raman micro-spectroscopic analysis of cultured HCT116 colon cancer cells in the presence of roscovitine**
AKYÜZ S., ÖZEL A., BALCI K., Akyuz T., Coker A., Arisan E. D., Palavan-Unsal N., Ozalpan A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.78, no.5, pp.1540-1547, 2011 (SCI-Expanded)
- LXXIII. **Investigation of Adsorption of 5-Bromouracil from Aqueous Solutions to Montmorillonite and Its Interaction with Clay Framework: A FT-IR Spectroscopic Study**
Akyuz T., AKYÜZ S.
ASIAN JOURNAL OF CHEMISTRY, vol.23, no.7, pp.3211-3213, 2011 (SCI-Expanded)
- LXXIV. **DFT and MP2 based quantum mechanical calculations and a theoretical vibrational spectroscopic investigation on roscovitine, a potential drug to treat cancers**
BALCI K., AKKAYA Y., AKYÜZ S., Palavan-Unsal N.
JOURNAL OF RAMAN SPECTROSCOPY, vol.42, no.4, pp.719-732, 2011 (SCI-Expanded)
- LXXV. **Archaeometric Investigations of Terra-Cotta Sarcophages from the Excavations at Ainos (Enez) Turkey: An EDXRF Study**
AKYÜZ S., Akyuz T., Kurap G., Basaran S., Ucar-Cakan B., Kocabas I.
ASIAN JOURNAL OF CHEMISTRY, vol.23, no.7, pp.3235-3239, 2011 (SCI-Expanded)
- LXXVI. **An experimental and theoretical vibrational spectroscopic study on niflumic acid, a non-steroidal anti-inflammatory drug**
BALCI K., AKKAYA Y., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.53, no.2, pp.239-247, 2010 (SCI-Expanded)
- LXXVII. **FT-IR spectroscopic study of terra-cotta sarcophagi recently excavated in Ainos (Enez) Turkey**
Kurap G., AKYÜZ S., Akyuz T., Basaran S., UÇAR F. B.
JOURNAL OF MOLECULAR STRUCTURE, vol.976, no.1-3, pp.161-167, 2010 (SCI-Expanded)
- LXXVIII. **Adsorption of 3-and 4-aminopyridine on loughlinite-An IR spectroscopic study**
AKYÜZ S., Akyuz T.
VIBRATIONAL SPECTROSCOPY, vol.53, no.1, pp.136-139, 2010 (SCI-Expanded)
- LXXIX. **FT-IR and Raman spectroscopic and DFT theoretical investigations on Zn(II) halide complexes of 2-aminopyrimidine**
AKALIN E., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.53, no.1, pp.140-145, 2010 (SCI-Expanded)
- LXXX. **Infrared and Raman spectroscopic and quantum chemical investigations of zinc halide complexes of 3-aminoquinoline**
ÖZEL A., ÇELİK S., AKYÜZ S., KECEL GÜNDÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.53, no.1, pp.151-157, 2010 (SCI-Expanded)
- LXXXI. **Adsorption of isoniazid onto sepiolite-palygorskite group of clays: An IR study**
AKYÜZ S., Akyuz T., AKALIN E.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.75, no.4, pp.1304-1307, 2010 (SCI-Expanded)
- LXXXII. **Vibrational Spectroscopic Investigation of 2,2'-Bipyridine Adsorbed on Loughlinite from Aqueous Suspensions**
AKYÜZ S., AKYÜZ S.
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.1, pp.546-554, 2010 (SCI-Expanded)
- LXXXIII. **Molecular Mechanics Studies of Antihypertensive Val-Tyr Dipeptide**
Akverdieva G. A., Godjayev N. M., AKYÜZ S., Akyuz T., Dogan N. E.
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.1, pp.311-318, 2010 (SCI-Expanded)
- LXXXIV. **Interaction of isoniazid with Al(OH)₃: A DFT study**
AKALIN E., AKYÜZ S., Akyuz T.
Asian Journal of Chemistry, vol.22, no.5, pp.4111-4116, 2010 (SCI-Expanded)

- LXXXV. **Determination of Natural and Artificial Radionuclides in Hot Water Spring Mud of Haymana-Ankara Spa (Turkey)**
AKYÜZ S., Varinlioglu A., Kose A., AKYÜZ S.
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.1, pp.307-310, 2010 (SCI-Expanded)
- LXXXVI. **Conformational analysis and vibrational spectroscopic investigation of L-alanyl-L-glutamine dipeptide**
KECEL GÜNDÜZ S., ÖZEL A., AKYÜZ S., ÇELİK S.
SPECTROSCOPY-AN INTERNATIONAL JOURNAL, no.3-4, pp.219-232, 2010 (SCI-Expanded)
- LXXXVII. **Vibrational spectroscopic study of 4-aminopyrimidine complexes**
AKYÜZ S., AKYÜZ S.
JOURNAL OF MOLECULAR STRUCTURE, vol.924-926, pp.37-41, 2009 (SCI-Expanded)
- LXXXVIII. **FT-IR and EDXRF analysis of wall paintings of ancient Ainos Hagia Sophia Church**
AKYÜZ S., AKYÜZ S., Basaran S., Kocabas I., Gulec A., Cesmeli H., Ucar B.
JOURNAL OF MOLECULAR STRUCTURE, vol.924-926, pp.400-403, 2009 (SCI-Expanded)
- LXXXIX. **Studies on kyotorphin and D-kyotorphin in aqueous solution by Raman spectroscopy**
AKYÜZ S., BAŞAR G., BAŞAR G., Kin S., Kroeger S.
JOURNAL OF MOLECULAR STRUCTURE, vol.924-926, pp.42-46, 2009 (SCI-Expanded)
- XC. **Vibrational spectroscopic investigation of free and coordinated 5-aminoquinoline: The IR, Raman and DFT studies**
ÖZEL A., ÇELİK S., AKYÜZ S.
JOURNAL OF MOLECULAR STRUCTURE, vol.924-926, pp.523-530, 2009 (SCI-Expanded)
- XC.I. **Experimental, *ab initio* and density functional theory studies on sulfadiazine**
ÖĞRÜÇ İLDİZ G., AKYÜZ S., ÖZEL A.
JOURNAL OF MOLECULAR STRUCTURE, vol.924-926, pp.514-522, 2009 (SCI-Expanded)
- XC.II. **Comparative conformational analysis of peptide T analogs**
Akverdieva G., Godjayev N., AKYÜZ S.
JOURNAL OF MOLECULAR STRUCTURE, vol.917, no.1, pp.21-26, 2009 (SCI-Expanded)
- XC.III. **FT-IR and Raman spectroscopic and quantum chemical studies of zinc halide complexes with 2,2'-biquinoline**
ÖZEL A., KECEL GÜNDÜZ S., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.48, no.2, pp.238-245, 2008 (SCI-Expanded)
- XC.IV. **A vibrational spectroscopic investigation on benzocaine molecule**
BALCI K., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.48, no.2, pp.215-228, 2008 (SCI-Expanded)
- XC.V. **Analysis of ancient potteries using FT-IR, micro-Raman and EDXRF spectrometry**
AKYÜZ S., AKYÜZ S., Basaran S., Bolcal C., Gulec A.
VIBRATIONAL SPECTROSCOPY, vol.48, no.2, pp.276-280, 2008 (SCI-Expanded)
- XC.VI. **Vibrational study on Zn(Pyrimidine)₂Cl₂, Pyrimidine-Al(OH)₃ and Pyrimidine-(Al(OH)₃)₂ complexes**
AKALIN E., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.48, no.2, pp.233-237, 2008 (SCI-Expanded)
- XC.VII. **FT-IR and FT-Raman spectroscopic studies of adsorption of isoniazid by montmorillonite and saponite**
AKYÜZ S., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.48, no.2, pp.229-232, 2008 (SCI-Expanded)
- XC.VIII. **Adsorption and interaction of 2-aminopyridine with loughlinite (Na-sepiolite) from Anatolia**
AKYÜZ S., AKYÜZ S.
ASIAN JOURNAL OF CHEMISTRY, vol.20, no.5, pp.3767-3773, 2008 (SCI-Expanded)
- XC.IX. **FT-IR, EDXRF analysis of the Mardin-Mazidag phosphate deposit of Turkey and relations between phosphate, uranium and fluorine**
AKYÜZ S., AKYÜZ S., Caglar H., Caglar N.

ASIAN JOURNAL OF CHEMISTRY, vol.20, no.5, pp.4085-4091, 2008 (SCI-Expanded)

- C. **Determinatio of elemental concentrations in fish and sediments from Rize-Ardesen area of the east Black Sea**
AKYÜZ S., AKYÜZ S.
ASIAN JOURNAL OF CHEMISTRY, vol.20, no.5, pp.3657-3662, 2008 (SCI-Expanded)
- CI. **Toxic and trace element analysis of surface sediments from the Gulf of Saros by INAA and XRF methods**
Akyuz T., Mukhamedshina N., AKYÜZ S., SARI E., Mirsagatova A. A.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.273, no.3, pp.747-751, 2007 (SCI-Expanded)
- CII. **Adsorption and interaction of 5-fluorouracil with montmorillonite and saponite by FT-IR spectroscopy**
AKALIN E., AKYÜZ S., AKYÜZ S.
JOURNAL OF MOLECULAR STRUCTURE, vol.834-836, pp.477-481, 2007 (SCI-Expanded)
- CIII. **FT-IR and micro-Raman spectroscopic study of decorated potteries from VI and VII century BC, excavated in ancient Ainos - Turkey**
AKYÜZ S., AKYÜZ S., Basaran S., Bolcal C., Gulec A.
JOURNAL OF MOLECULAR STRUCTURE, vol.834-836, pp.150-153, 2007 (SCI-Expanded)
- CIV. **Infrared and Raman spectroscopic study of 4-aminopyrimidine tetracyanonickelate complexes**
AKYÜZ S., AKYÜZ S., AKKAYA Y., AKALIN E.
JOURNAL OF MOLECULAR STRUCTURE, vol.834-836, pp.403-407, 2007 (SCI-Expanded)
- CV. **Neutron activation analysis of the metals from ancient coins dating back to Roman age**
Akyuz T., Mukhamedshina N., Basaran S., AKYÜZ S., Mirsagatova A. A., Bolcal C., Gulec A.
ASIAN JOURNAL OF CHEMISTRY, vol.19, no.3, pp.1832-1836, 2007 (SCI-Expanded)
- CVI. **FT-IR spectroscopic investigations of adsorption of 2-, 3- and 4-pyridinecarboxamide on montmorillonite and saponite from Anatolia**
AKYÜZ S., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.42, no.2, pp.387-391, 2006 (SCI-Expanded)
- CVII. **Study on the interaction of nicotinamide with sepiolite, loughlinite and palygorskite by IR spectroscopy**
AKYÜZ S., Akyuz T.
JOURNAL OF MOLECULAR STRUCTURE, vol.744-747, pp.47-52, 2005 (SCI-Expanded)
- CVIII. **Raman spectroscopic study of two dimensional polymer compounds of 2-aminopyrimidine**
AKYÜZ S., AKYÜZ S.
JOURNAL OF MOLECULAR STRUCTURE, vol.744-747, pp.277-281, 2005 (SCI-Expanded)
- CIX. **FT-IR spectra of natural loughlinite (Na-sepiolite) and adsorption of pyrimidine on loughlinite**
AKYÜZ S., Akyuz T.
JOURNAL OF MOLECULAR STRUCTURE, vol.705, no.1-3, pp.147-151, 2004 (SCI-Expanded)
- CX. **FT-IR spectroscopic investigations adsorption of pyrazinamide and 4-aminopyrimidine by clays**
AKYÜZ S., Akyuz T.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.48, no.1-2, pp.75-80, 2004 (SCI-Expanded)
- CXI. **Energy dispersive X-ray fluorescence and neutron activation analyses of sediments from the Turkish coast of the west Black Sea**
Akyuz T., AKYÜZ S., Mukhamedshina N., Mirsagatova A.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.12, no.12, pp.1505-1510, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Molecular Docking and Molecular Dynamics Simulations of Molnupiravir Against Covid-19**
Öktemer T. S., ÖNEM Z. Ç., ÇELİK S., ÖZEL A., AKYÜZ S.

Muş Alparslan Üniversitesi Fen Bilimleri Dergisi, vol.12, no.2, pp.134-141, 2024 (Peer-Reviewed Journal)

- II. **Investigation of Adsorption of the Cardiotonic Drug Milrinone Onto Montmorillonite: An FTIR and Raman Spectroscopic Study**
Akyüz S.
Physics and Astronomy Reports, vol.2, no.1, pp.37-40, 2024 (Peer-Reviewed Journal)
- III. **In Silico Evaluation of ERQ Bioactive Tripeptide as an Anticancer Agent and an Inhibitor of SARS-CoV-2 Enzymes**
Yılmaz G., Çelik S., Özel A., Akyüz S.
European Journal of Biology, vol.1, no.1, pp.1-8, 2024 (Scopus)
- IV. **The inhibitory activity of Ruxolitinib against COVID-19 major protease enzyme and SARS CoV-2 spike glycoprotein: A molecular docking study**
Demirağ A. D., Çelik S., Aslan S., Özel A., Akyüz S.
Open Journal of Nano, vol.8, no.2, pp.1-9, 2023 (Peer-Reviewed Journal)
- V. **Computational Investigation of the Interaction Mechanism of Some anti-Alzheimer Drugs with the Acetylcholinesterase Enzyme**
Çelik S., Demirağ A. D., Coşkun A. O., Özel A., Akyüz S.
Open Journal nano, vol.8, no.1, pp.11-21, 2023 (Peer-Reviewed Journal)
- VI. **Molecular Docking Study of Midostaurin, an Effective Drug in the Treatment of Myeloid Leukemia**
ÇELİK S., YILMAZ G., ÖZEL A., AKYÜZ S.
Open Journal of Nano, vol.8, no.1, pp.1-9, 2022 (Peer-Reviewed Journal)
- VII. **Molecular Docking Analysis on the Antiviral Effects of Curcumin on SARS-CoV-2**
DEMİR AĞ A. D., ÇELİK S., ÖZEL A., AKYÜZ S.
Bayburt Üniversitesi, 2022 (Peer-Reviewed Journal)
- VIII. **Miyeloid Lösemi Tedavisinde Etkili Bir İlaç Olan Midostaurinin Moleküler Kenetlenme Çalışması**
ÇELİK S., YILMAZ G., ÖZEL A., AKYÜZ S.
Open Journal of Nano, 2022 (Peer-Reviewed Journal)
- IX. **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**
Gasymov O. K., Agaeva U., Qocayev N., ÇELİK S., AKYÜZ S., KECEL GÜNDÜZ S., ÖZEL A., Agaeva U., Bakhishova M., Aliyev J. A.
Transactions of Azerbaijan National Academy of Sciences, vol.42, no.2, pp.23-32, 2022 (Peer-Reviewed Journal)
- X. **Clarification of the Structure of 1,4-Bis(2-Chloro-4-Nitrophenyl)Piperazine Molecule and Its Molecular Docking Analysis with DNA**
DEMİR AĞ A. D., ÇELİK S., İLGIN B., ÖZEL A., AKYÜZ S.
Bayburt Üniversitesi Fen Bilimleri Dergisi, vol.5, no.1, pp.19-25, 2022 (Peer-Reviewed Journal)
- XI. **Conformational, Toxic, Physicochemical and Molecular Docking Analysis of the Anticancer Acalabrutinib Molecule**
ÇELİK S., DEMİR AĞ A. D., Arslan S., ÖZEL A., AKYÜZ S.
Open Journal of Nano, vol.-7, no.1, pp.2-9, 2022 (Peer-Reviewed Journal)
- XII. **Molecular Docking Analysis Of N-[2-(3-Methylthio(1,2,4-Thiadiazol-5-Ylthio))Acetyl] Benzamide Molecule with Integrin and DNA**
DEMİR AĞ A. D., ÇELİK S., ÖZEN D., ÖZEL A., AKYÜZ S.
Open Journal of Nano, vol.6, no.2, pp.19-27, 2021 (Peer-Reviewed Journal)
- XIII. **Molecular Structure And Docking Analysis Of The Integrin Inhibitor Cyclo (Arg-Gly-Asp-D-Phe-Val) Peptide**
ÇELİK S., DEMİR AĞ A. D., Civelek H., ÖZEL A., AKYÜZ S.
Open Journal of Nano, vol.6, no.2, pp.1-6, 2021 (Peer-Reviewed Journal)
- XIV. **Antimikrobiyal ve Antikanser Aktiviteye Sahip Cyclo(Trp-Trp) Dipeptidinin 3-Boyutlu Moleküler Yapısı**
ÇELİK S., AKYÜZ S., ÖZEL A.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.26, no.2, pp.80-87, 2021 (Peer-Reviewed Journal)

- XV. **Theoretical IR, Raman and Molecular Structure Analysis of Cyclo (Tyr-Tyr) Dipeptide**
ÇELİK S., Akyuz S., OZEL A.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.25, no.2, pp.401-409, 2021 (Peer-Reviewed Journal)
- XVI. **Molecular Docking Analysis of Used Drugs for the Treatment of Cancer**
Demirag A. D., CELİK S., Akyuz S., OZEL A.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.25, no.3, pp.539-547, 2021 (Peer-Reviewed Journal)
- XVII. **Conformational Analysis of Cyclo (Phe-Phe) Dipeptide Effective in the Treatment of Alzheimer's Disease**
CELİK S., Akyuz S., OZEL A.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.26, no.3, pp.135-142, 2021 (Peer-Reviewed Journal)
- XVIII. **RAMAN SPECTROSCOPIC INVESTIGATION OF THE EFFECT OF ELECTRICAL STIMULATION ON DESTROYING LIPID MEMBRANE OF VIRUSES**
ÇELİK S., AKYÜZ S., ÖZEL A., TURHAN M., Tunç S.
Eurasian Academy of Sciences Eurasian Business Economics Journal, vol.23, pp.84-89, 2020 (Peer-Reviewed Journal)
- XIX. **The Interaction of Ile-Phe Dipeptide with Phosphatidylinositide 3-Kinase (PI3K): Molecular Dynamics and Molecular Docking Studies**
BIÇAK B., Kökcü Y., KECEL GÜNDÜZ S., ÖZEL A., AKYÜZ S.
Natural and Engineering Sciences, vol.5, no.1, pp.18-29, 2020 (Peer-Reviewed Journal)
- XX. **Coumarin-benzothiazole hybrid as a new scaffold for human gliomas**
Gabr M., ÇELİK S., AKYÜZ S., ÖZEL A.
MEDICINE IN DRUG DISCOVERY, vol.7, pp.100012, 2020 (Scopus)
- XXI. **Investigation of the Degradation Stages of Archaeological and Historical Silk Textiles: An ATR-FTIR Spectroscopic Study**
AKYÜZ S.
Archaeology Anthropology Open Access, vol.3, no.1, pp.1-5, 2019 (Peer-Reviewed Journal)
- XXII. **THE VIBRATIONAL ANALYSIS OF PYRIDOXINE AND ITS H₂O CLUSTERS BY AB-INITIO DENSITY FUNCTIONAL METHOD**
Bulbul B. A., AKYÜZ S.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, no.1, pp.139-147, 2015 (ESCI)
- XXIII. **Non-linear optical properties of primidone**
ÖZEL A., ÇELİK S., AKYÜZ S.
Asian Journal of Chemistry, vol.27, no.5, pp.1932-1934, 2015 (Scopus)
- XXIV. **ab initio density functional theory calculations on pyridoxine and its water clusters**
Atak-Bulbul B., AKYÜZ S.
Asian Journal of Chemistry, vol.26, 2014 (Scopus)

Books & Book Chapters

- I. **Foods Including Polycyclic Aromatic Hydrocarbons (PAHs) and Spectroscopic Identifications of PAHs**
Er A., Çakır E., Çelik S., Özel A., Akyüz S.
in: Cancer treatment: An Interdisciplinary Approach, Rezaei, Nima, Editor, Springer Nature, Dubendorf, pp.1-20, 2024
- II. **Atom ve Molekül Fiziği**
Akyüz S., Çelik S.
Nobel Yayın Dağıtım, İstanbul, 2023

- III. **Coronaviruses: Molecular Modeling and Docking Studies of Potential Drug Candidates Showing Anti-Covid-19 Activity**
Çelik S., Demirağ A. D., Akyüz S., Özel A.
in: Biological active small molecules, Modern Applications and Therapeutic Perspectives, Mahapatra Debarshi Kar, Bharti Sanjay Kumar, Editor, APPLE ACADEMIC PRESS, New York, pp.59-84, 2023
- IV. **FONKSİYONEL GIDA ZEYTİNYAĞININ ÖNEMİ, SAĞLIK ÜZERİNDEKİ ETKİLERİ VE SPEKTROSKOPİK ANALİZİ**
Çelik S., Çakır E., Er A., Özel A., Akyüz S.
in: MÜHENDİSLİK ALANINDA YENİLİKÇİ ÇALIŞMALAR - I., ÇAYLI GÖKHAN, Editor, Artikel Akademi, İstanbul, pp.49-64, 2023
- V. **The Importance of Polymers in Medicine and Their FTIR and Raman Spectroscopic Investigations**
Çelik S., Akyüz S., Özel A.
in: Development, Properties, and Industrial Applications of 3D Printed Polymer Composites, Keshavamurthy R., Tambrallimath Vijay, Davim Paulo., Editor, IGI Global, New York, pp.170-187, 2023
- VI. **Flavonoids: Their Anticarcinogenic Effects and Molecular Modelling Studies**
Çelik S., Çakır E., Akyüz S., Özel A.
in: Handbook of Research on Natural Products and Their Bioactive Compounds as Cancer Therapeutics, Pandurangan, Ashok Kumar; Anandasadagopan, Suresh Kumar; Alhumaydhi, Fahad A., Editor, IGI-GLOBAL, New York, pp.297-318, 2022
- VII. **Shedding Light on New Drug Designs by Modeling Peptide Structures via Quantum Chemical Methods in the Health Field**
ÇELİK S., KECEL GÜNDÜZ S., AKYÜZ S., ÖZEL A.
in: EMERGING TRENDS OF RESEARCH IN CHEMICAL SCIENCES, Chakraborty, Tanmoy and Chaudhary, Shalini, Editor, Apple Academic Press, Florida, pp.123-146, 2021
- VIII. **The role of multivariate analysis on interpretation of FTIR and Raman spectra**
ÇELİK S., ALBAYRAK A. T., AKYÜZ S., ÖZEL A.
in: Design of experiments for chemical, Pharmaceutical, food and Industrial applications, G. Cerrillo-Cedillo, J.A. Rodriguez-Avila, K.C. Arredondo-Soto, J.M. Cornejo-Bravo, Editor, IGI Global, USA, Hershey PA, USA 17033, pp.104-129, 2020
- IX. **Role of Alloying Elements on Powder Metallurgy Steels and Spectroscopic Applications on Them**
ÇELİK S., BEKÖZ ÜLLEN N., AKYÜZ S., ÖZEL A.
in: Advanced Surface Coating Techniques for Modern Industrial Applications, S. Roy, G. K. Bose, Editor, IGI Global, pp.1-13, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **CONFORMATIONAL AND MOLECULAR DOCKING ANALYSIS OF PERTUZUMAB MOLECULE, HAVING ANTITUMOR EFFECT**
YILMAZ G., ÇELİK S., AKYÜZ S., ÖZEL A.
V. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Nevşehir, Turkey, 5 - 07 November 2023, pp.1400-1405
- II. **MOLECULAR DOCKING ANALYSIS OF OXYTETRACYCLINE WITH CYTOCHROME C OXIDASE**
YILMAZ G., ÇELİK S., ÖZEL A., AKYÜZ S.
Turkish Physical Society 39 th International Physics Congress, Muğla, Turkey, 31 August - 04 September 2023, pp.83
- III. **MOLECULAR DOCKING ANALYSIS OF FARNESOL WITH CYTOCHROME P450**
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Turkish Physical Society 39 th International Physics Congress, 31 - 04 August 2023, pp.300

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Turkish Physical Society 39 th International Physics Congress, Muğla, Turkey, 31 August - 04 December 2023, pp.96
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Turkish Physical Society 39 th International Physics Congress, 31 August - 04 September 2023, pp.97
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ER A., Başaklı Z., ÇELİK S., ÖZEL A., AKYÜZ S.
Turkish Physical Society 39 th International Physics Congress, 31 August - 04 September 2023, pp.299
- VIII. **MOLECULAR DOCKING STUDY OF MIDOSTAURIN, AN EFFECTIVE DRUG IN THE TREATMENT OF MYELOID LEUKEMIA**
YILMAZ G., ÇELİK S., ÖZEL A., AKYÜZ S.
Turkish Physical Society 37 th International Physics Congress, Muğla, Turkey, 01 September 2021
- IX. **MOLECULAR DOCKING ANALYSIS OF APIXABAN, EFFECTIVE IN THE TREATMENT OF BLOOD CLOTS, WITH THE MAPK P38 TARGET PROTEIN**
YILMAZ G., ÇELİK S., ÖZEL A., AKYÜZ S.
Turkish Physical Society 37 th International Physics Congress, Muğla, Turkey, 01 September 2021
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AKYÜZ S., ÇELİK S., ÖZEL A., Başaran S.
7th Balkan Symposium on Archaeometry, Athens, Greece, 22 September 2020, pp.17
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7th Balkan Symposium on Archaeometry, Athens, Greece, 22 September 2020, pp.23
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KECEL GÜNDÜZ S., koç e., BIÇAK B., ÖZEL A., AKYÜZ S.
Türk Fizik Derneği 35. Uluslararası Fizik Kongresi, 4 - 08 September 2019
- XIII. **Enez Kazısından Çıkarılan Bazı Arkeolojik Seramik ve Killerin FTIR, Mikro-Raman, EDXRF, XRD ve Kemometrik Yöntemler ile Analizi**
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18 inci Ulusal kil sempozyumu, Kocaeli, Turkey, 25 - 28 September 2019, pp.83
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International Conference on Natural Sciences and Technology ICONST- NST, Prizren, Serbia, 26 - 30 August 2019, pp.2
- XV. **IN SILICO ANALYSIS FOR CHARACTERIZING THE STRUCTURE,VIBRATIONASSIGNMENT, AND 86 BINDING PROPERTIES OF ALA-HIS-LYS (AHK) TRIPEPTIDE**
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ISTEC, 3 - 05 July 2019
- XVI. **FTIR Spectroscopic and Chemometric Investigations of Ancient Potteries, belonging to 4th-6th Century BC, excavated in Ancient Ainos (Enez)-Turkey**
AKYÜZ S., Başaran S.
2nd International Conference on Innovations in Natural Science and Engineering ICINSE2018, Kiev, Ukraine, 7 - 10 September 2018, pp.35
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SANKO University Innovation in Medicine Summit—4, Gaziantep, Turkey, 11 - 13 October 2018, pp.104
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ICINSE 2018, Ukraine, 7 - 10 September 2018
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ICINSE 2018, Ukraine, 7 - 10 September 2018
- XXII. **Conformational analysis of clofarabine molecule and its interaction with DNA**
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2nd International Conference on Innovations in Natural Science and Engineering ICINSE2018, Kyev, Ukraine, 7 - 10 September 2018, pp.166
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International Conference on Science and Technology, ICONST 2018, Prizren, Serbia, 5 - 09 September 2018, pp.944
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Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018
- XXVI. **A theoretical and experimental investigation on the effects of metal-ligand coordination on the structure and vibrational spectra of 4-aminopyrimidine molecule**
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Turkish Physical Society 34th International Physics Congress, 5 - 09 September 2018
- XXIX. **STRUCTURAL AND IR AND RAMAN SPECTRAL ANALYSIS OF CYCLO(ALA-HIS) DIPEPTIDE**
YILMAZ G., ÖZEL A., AKYÜZ S., ÇELİK S.
1st International Symposium on Graduate Research in Science (ISGRS 2018), 4 - 06 September 2018, pp.1
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ÇELİK S., ÖZKÖK F., AKYÜZ S., ÖZEL A.

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ADIM Fizik Günleri VII, Turkey, 23 May - 25 August 2018

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Demirağ D., ÇELİK S., ÖZEL A., AKYÜZ S.

1st Light and Light-Based Technologies Workshop, 15 May 2018

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7th INTERNATIONAL MOLECULAR BIOLOGY and BIOTECHNOLOGY CONGRESS, 25 - 27 April 2018

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BALCI K., AKKAYA Y., AKYÜZ S., COLLIER W. B., KING H. M., KNIGHT E. A., COATES J. T., RITZHAUPT G.

Turkish Physical Society 33rd International Physics Congress, BODRUM, Turkey, 6 - 10 September 2017, pp.535

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Turkish Physical Society 33 th International Physics Congress, 6 - 10 September 2017

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7th Cambridge Symposium on Nucleic Acids Chemistry and Biology, Cambridge, Canada, 3 - 06 September 2017
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ÇELİK S., KECEL GÜNDÜZ S., ALBAYRAK A. T., AKYÜZ S., ÖZEL A.
The 25 th Colloquium on High-Resolution Molecular Spectroscopy HRMS 2017, 20 - 25 August 2017
- XLVII. **Anharmonic DFT study of the vibrational wavenumbers of 5-Chlorouracil**
AKALIN E., AKYÜZ S.
The 25th Colloquium on High-Resolution Molecular Spectroscopy, 20 - 25 August 2017
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The 25th Colloquium on High-Resolution Molecular Spectroscopy, HRMS-2017, Helsinki, Finland, 20 - 25 August 2018, pp.46
- XLIX. **Theoretical Vibrational Spectra and Molecular docking studies with protein and DNA on cyclo-heptapeptide**
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The 25 th Colloquium on High-Resolution Molecular Spectroscopy HRMS 2017, 20 - 25 August 2017
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AKYÜZ S., Akyüz T.
5th Mediterranean Clay Meeting - MCM2016, 25 - 29 September 2016, pp.14
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5th Mediterranean Clay Meeting - MCM2016, 25 - 29 September 2016, pp.13
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YILMAZ G., AKYÜZ S., ÇELİK S., ÖZEL A.
Turkish Physical Society 32th International Physics Congress, 6 - 09 September 2016
- LIII. **Protein Structure Predictions of Historical silk textiles by ATR-FTIR spectroscopy**
AKYÜZ S., AKYÜZ Z. T., ÇAKAN F. B., BAŞARAN S.
Third International Conference on Advances in Bio-Informatics, Bio-Technology and Environmental Engineering-ABBE, New York, United States Of America, 25 May 2017 - 27 May 2015, vol.2, pp.39-41
- LIV. **Conformational Analysis and Experimental and Theoretical Vibrational Study of Free and Hydrogen Bonded Complexes of Sulfanilamide**
ÖĞRÜÇ İLDİZ G., AKYÜZ S.
5th International Conference on Advanced Vibrational Spectroscopy (ICAVS 5), Melbourne, Australia, 12 - 17 July 2009, pp.144
- LV. **Conformational Anlysis and Experimental and Theoretical Vibrational Studies on Dapsone**
ÖĞRÜÇ İLDİZ G., AKYÜZ S.
5th International Conference on Advanced Vibrational Spectroscopy konferansı (ICAVS 5), Melbourne, Australia, 12 July - 17 August 2009, pp.143
- LVI. **Experimental ab initio and Density Functional Theory Studies on Sulfadiazine**
ÖĞRÜÇ İLDİZ G., AKYÜZ S., ÖZEL A.
XXIX European Congress on Molecular Spectroscopy (EUCMOS 2008), OPATIJA, Croatia, 31 August - 05 September 2008, pp.311
- LVII. **Theoretical Studies of Molecular Structure and Vibrational Spectra of Free and Hydrogen Bonded Complexes of Free Sulfanilamide**
ÖĞRÜÇ İLDİZ G., AKALIN E., ÖZEL A., AKYÜZ S.

Supported Projects

- AKYÜZ S., Project Supported by Higher Education Institutions, THEORETICAL VIBRATIONAL SPECTRA AND MOLECULAR DOCKING STUDIES WITH PROTEIN AND DNA ON CYCLOHEPTAPEPTIDE, 2017 - Continues
- Akyüz S., TÜBİTAK International Bilateral Joint Cooperation Program Project, Pirinç kepeği pentapeptidinin konformasyon davranışının ve D-amino asit süstitüsyonlarının antikanser aktivitesi üzerindeki etkisinin değerlendirilmesi: Antikanser ilaç keşfine yönelik çıkarımlar, 2020 - 2022
- AKYÜZ S., Project Supported by Higher Education Institutions, Conformational behavior structural and vibrational characterization of the carboxy terminal dipeptide of b-endorphin, 2018 - 2019
- AKYÜZ 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
- Akyüz S., Project Supported by Higher Education Institutions, BINDING INTERACTIONS OF TYR-ILE-GLY-SER-ARG LIGAND WITH LAMININ RECEPTOR MODELS, 2017 - 2017
- AKYÜZ S., Project Supported by Higher Education Institutions, MOLECULAR MODELLING AND VIBRATIONAL INVESTIGATIONS OF AMMONIUM-BASED IONIC LIQUID (CLTOAB), 2017 - 2017
- AKYÜZ S., Project Supported by Higher Education Institutions, Comparative study of antitumor active cyclo(Gly-Leu) dipeptide : A computational and molecular modeling study, 2017 - 2017
- AKYÜZ S., Project Supported by Higher Education Institutions, CONFORMATIONAL STABILITY AND SPECTROSCOPIC ANALYSIS OF THE CYCLIC HEPTAPEPTIDE, 2016 - 2016
- AKYÜZ 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
- AKYÜZ S., İstanbul Üniversitesi Bilimsel Araştırma Projeleri, 2012 - 2016
- AKYÜZ S., TUBİTAK Project, Atmosfere Yollanan Gazları Kontrol Eden Girişim Filtrelerinin Geliştirilmesi için Yüksek Kıırma İndisli Nano Yapılı Amorf Tabaka Oluşumunun DFT Hesaplamaları IR ve Raman Spektroskopik İncelenmesi, 2010 - 2013
- AKYÜZ S., TUBİTAK Project, Membran ve Nöropeptidlerin Raman Tweezers Spektrumunun, 2006 - 2009
- AKYÜZ S., TUBİTAK Project, Enez Edirne Arkeolojik Kazısından Bulunan Keramik ve Cam Buluntularının EDXRF ve FT IR Spektroskopileri İle İncelenmesi, 2006 - 2008
- AKYÜZ S., TUBİTAK Project, Spectroscopic manifestation on the structural aspects in some inclusion compounds:Hofmann type clathrates, clay organic complexes and self clathrates, 2004 - 2006
- AKYÜZ S., TUBİTAK Project, Experimental and theoretical study of host guest interaction in Hofmann type clathrates, 2000 - 2003
- AKYÜZ S., TUBİTAK Project, Biyolojik Aktif Makromoleküllerin Titreşimsel Spektroskopi ve Teorik Konformasyon Analizi Yöntemleri ile Detaylı İncelenmesi, 1995 - 1997

Patent

- Sevim A., Raman Spektroskopi Yönteminin Kanser Tanısında Kullanılması, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR 2020 02931 B , Standard Registration, 2024
- Sevim A., ANTİBAKTERİYEL AKTİVİTEYE SAHİP KAPROLAKTAM-GLİSİN İYONİK SIVISI, MOLEKÜLER MODELLEMESİ VE KULLANIMLARI, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR 2029 00595 B , Standard Registration, 2023
- SEVİM A., ANTİMİKROBİYAL ETKİ VE ANTIOKSİDAN AKTİVİTEYE SAHİP VANİLİN TÜREVİ İMİN BİLEŞİĞİNİN SENTEZİ VE MOLEKÜLER MODELLEMESİ, Patent, CHAPTER C Chemistry; Metallurgy, 2022
- SEVİM A., S. AUREUS, E. FAECALIS, E. COLI, K. PNEUMONIAE, P. AERUGINOSA VE B. SUBTILIS BAKTERİLERİNE KARSI ANTİBAKTERİYEL ETKİ ARZ EDEN N-METİL PIROLİDON-SALİSİLİKASIT İYONİK SIVISI VE MOLEKÜLER MODELLEMESİ,

Patent, CHAPTER C Chemistry; Metallurgy, 2019

SEVİM A., ANTİBAKTERİYEL VE ANTİMİKOTİK ETKİ ARZ EDEN AMİNO ANTRAKİNON ANALOGU VE BUNUN MOLEKÜLER MODELLEMESİ, Patent, CHAPTER C Chemistry; Metallurgy, 2018

Activities in Scientific Journals

VIBRATIONAL SPECTROSCOPY, Scientific Committee Membership, 2007 - Continues

Memberships / Tasks in Scientific Organizations

Turkish Biophysical society, Member, 1994 - Continues, Turkey

Scientific Refereeing

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, November 2023

Universities of Other Countries Supported Project, Czech Science Foundation, Czech Republic, September 2023

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, July 2023

SPECTROSCOPY LETTERS, SCI Journal, June 2023

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, June 2023

Universities of Other Countries Supported Project, Czech Science Foundation „, Czech Republic, June 2023

SPECTROSCOPY LETTERS, SCI Journal, May 2023

SPECTROSCOPY LETTERS, SCI Journal, May 2023

SPECTROSCOPY LETTERS, SCI Journal, April 2023

VIBRATIONAL SPECTROSCOPY, SCI Journal, March 2023

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, March 2023

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, February 2023

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, January 2023

VIBRATIONAL SPECTROSCOPY, SCI Journal, January 2023

VIBRATIONAL SPECTROSCOPY, SCI Journal, January 2023

JOURNAL OF RAMAN SPECTROSCOPY, SCI Journal, January 2023

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Congress and Symposium Activities

5th International Cappodocia Scientific Research Congress, Invited Speaker, Niğde, Turkey, 2023

19. Ulusal Kil sempozyumu, Invited Speaker, Eskişehir, Turkey, 2023

Invited Talks

FTIR (Fourier DönüŖümlü Kızılötesi Spektroskopisi): Temel İlkeleri, Çalışma Prensipleri ve Uygulamaları', Workshop, İstanbul Kültür Üniversitesi, Turkey, January 2024

Geçmişten günümüze fizik bölümünde yolculuk, Seminar, İstanbul Üniversitesi, Turkey, November 2023