

Prof. Ayşen ÖZEL

Personal Information

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International Researcher IDs

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

Yoksis Researcher ID: 110745

Education Information

Doctorate, Istanbul University, Fen Bilimleri, Fizik/Atom Ve Molekül Fiziği, Turkey 1988 - 1996

Postgraduate, Istanbul University, Fen Bilimleri, Fizik, Turkey 1986 - 1988

Undergraduate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 1984 - 1986

Associate Degree, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 1982 - 1984

Foreign Languages

English, B1 Intermediate

French, B2 Upper Intermediate

Dissertations

Doctorate, Serbest ve Kompleks Yapıda Bazı MOleküllerin Titreşim Frekans ve Kiplerinin Saptanması, Istanbul University, Faculty of Science, Fizik/Atom Ve Molekül Fiziği Anabilim Dalı, 1996

Postgraduate, Yeni bir Model ve Kompleks tuzlara Uygulaması, Istanbul University, Faculty of Science, Fizik Bölümü/Atom Ve Molekül Fiziği Anabilim Dalı, 1988

Research Areas

Physics, Atomic and Molecular Physics, Atomic and Molecular Interactions, Natural Sciences

Academic Titles / Tasks

Professor, Istanbul University, Faculty of Science, Department of Physics, 2008 - Continues

Associate Professor, Istanbul University, Faculty of Science, Department of Physics, 2002 - 2008

Assistant Professor, Istanbul University, Faculty of Science, Department of Physics, 1998 - 2002

Research Assistant, Istanbul University, Faculty of Science, Department of Physics, 1987 - 1998

Academic and Administrative Experience

Bölüm Akademik Teşvik Değerlendirme Komisyonu Başkanı, Istanbul University, Faculty Of Science, Department Of Physics, 2023 - Continues
Fakülte Kurulu Üyesi, Istanbul University, Faculty Of Science, Department Of Physics, 2023 - Continues
Head of Department, Istanbul University, Faculty Of Science, Department Of Physics, 2023 - Continues
Member of Department FEDEK Commission, Istanbul University, Faculty Of Science, Department Of Physics, 2023 - Continues
Head of Department, Istanbul University, Faculty Of Science, Department Of Physics, 2022 - Continues
İstanbul Üniversitesi, Faculty of Science, , 2006 - 2008

Courses

Spektral Analiz Yöntemleri, Undergraduate, 2020 - 2021
Seminer, Doctorate, 2018 - 2019
İleri Fizik Uygulamaları, Undergraduate, 2017 - 2018
Biyolojik aktif moleküllerde teorik konformasyon analizi, Doctorate, 2017 - 2018
Spektral Analiz, Undergraduate, 2017 - 2018
FizikI, Undergraduate, 2017 - 2018
İleri Molekül Fiziği, Postgraduate, 2017 - 2018
FizikI, Undergraduate, 2017 - 2018
Atom ve Mol.FizI(İ.Ö), Undergraduate, 2012 - 2013
İleri Fizik Uygulamaları, Undergraduate, 2012 - 2013, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000, 1998 - 1999
Atom ve Mol.FizI, Undergraduate, 2012 - 2013
Biyolojik aktif moleküllerde Teorik konformasyon analizi, Doctorate, 2012 - 2013
FizikII Lab, Associate Degree, 2012 - 2013
FizikI, Associate Degree, 2012 - 2013
İleri Fiz. , Undergraduate, 2011 - 2012, 2008 - 2009
Atom ve Mol. Fiz.I, Undergraduate, 2011 - 2012
Atom ve Mol. Fiz.I (İ.Ö), Undergraduate, 2011 - 2012
FizikI lab, Associate Degree, 2011 - 2012, 2007 - 2008, 2006 - 2007
FizikI, Associate Degree, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007
İleri Molekül Fiziği, Postgraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009
Fizik I (İ.Ö), Associate Degree, 2010 - 2011, 2009 - 2010
Molekül Fiziğinde Hesaplama Yöntemleri , Doctorate, 2008 - 2009, 2007 - 2008, 2006 - 2007
Kuan. Fiz. Mol. Fiz. Uyg., Postgraduate, 2008 - 2009
Atom ve Mole. Fiz., Undergraduate, 2008 - 2009
Kuantum Mekaniğinin Molekül Fiziğine Uygulanması , Doctorate, 2008 - 2009, 2007 - 2008, 2006 - 2007
FizikII, Associate Degree, 2006 - 2007
Fizik, Associate Degree, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004
Fizik laboratuvarı II, Associate Degree, 2006 - 2007, 2005 - 2006
FizikII, Undergraduate, 2005 - 2006
Spektral Analiz Yöntemleri, Undergraduate, 2003 - 2004, 2002 - 2003, 2000 - 2001
Spektral Analiz Yöntemleri(İ.Ö), Undergraduate, 2001 - 2002, 2000 - 2001
Atom ve Molekül Fiziği (İ.Ö), Undergraduate, 1999 - 2000, 1998 - 1999

Advising Theses

Özel A., Val-Met dipeptidinin moleküler mekanik ve kuantum kimyasal yöntemlerle konformasyon analizi, Postgraduate, V.Durak(Student), 2019

Özel A., Endometriozis hücre yapılarının spektroskopik yöntemlerle incelenmesi, Postgraduate, G.Yılmaz(Student), 2017
Özel A., Met-Tyr dipeptidinin konformasyon analizi ve kuantum kimyasal yöntemleri ile titreşim frekans ve kiplerinin incelenmesi, Postgraduate, D.ÇETİN(Student), 2016
Özel A., Serbest etilparaben molekülünün konformasyon analizi ve kuantum kimyasal yöntemleri ile titreşim frekans ve kiplerinin incelenmesi, Postgraduate, H.Yurdatapan(Student), 2015
ÖZEL A., BAZI DİPEPTİTLERİN KONFORMASYON ANALİZİ ve DFT YÖNTEMİ ile TİTREŞİM FREKANS ve KİPLERİNİN İNCELENMESİ, Doctorate, S.ÇELİK(Student), 2011

Jury Memberships

Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, November, 2020
Doctorate, Yıldız Teknik Üniversitesi, Yıldız Teknik Üniversitesi, April, 2014
Appointment to Academic Staff-Assistant Professorship, Akademik Kadroya atama, İstanbul Teknik Üniversitesi, February, 2013
Associate Professor Exam, Doçentlik Sözlü sınavı, Üniversiteler arası Kurul, Üniversitelerarası Kurul Başkanlığı, December, 2012
Associate Professor Exam, Doçentlik Eser İnceleme jürisi, Üniversiteler arası Kurul, Üniversitelerarası Kurul Başkanlığı, April, 2012
Doctorate, Tez savunma jürisi, İstanbul Üniversitesi, March, 2012
Associate Professor Exam, Doçentlik Sözlü sınavı, Üniversiteler arası Kurul, Üniversitelerarası Kurul Başkanlığı, January, 2011
Doctorate, Tez savunma jürisi, İstanbul Üniversitesi, December, 2010
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, December, 2010
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, June, 2010
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, June, 2010
Doctorate, Tez savunma jürisi, İstanbul Üniversitesi, October, 2009
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, August, 2009
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, May, 2009
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, December, 2008
Doctorate, Tez savunma jürisi, İstanbul Üniversitesi, July, 2008
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, June, 2007
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, June, 2005
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, October, 2004
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, June, 2003
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, January, 2003
Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, June, 2002

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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.
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.1, pp.1-20, 2024 (SCI-Expanded)
- II. **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, vol.1, pp.1-13, 2023 (SCI-Expanded)
- III. **Shedding light into the biological activity of aminopterin, via molecular structural, docking, and molecular dynamics analyses**

Çelik S., Yılmaz G., Akyüz S., Özel A.

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, vol.1, pp.1-22, 2023 (SCI-Expanded)

- IV. **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.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.41, no.10, pp.4321-4343, 2023 (SCI-Expanded)
- V. **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, vol.1, pp.1-20, 2022 (SCI-Expanded)
- VI. **Vibrational Spectroscopic and Molecular Docking Studies of Amrinone, a Cardiotonic Inotropic Drug**
Çelik S., Akyüz S., Özel A., Akalın E.
OPTICS AND SPECTROSCOPY, vol.130, no.2, pp.215-227, 2022 (SCI-Expanded)
- VII. **Molecular modeling, DFT quantum chemical analysis, and molecular docking on edotecarin, an indolocarbazole anticancer agent**
Çelik S., Akyüz S., Özel A.
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.1, pp.1-23, 2022 (SCI-Expanded)
- VIII. **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.
FOOD AND CHEMICAL TOXICOLOGY, 2022 (SCI-Expanded)
- IX. **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.
SPECTROSCOPY LETTERS, vol.55, no.4, pp.259-277, 2022 (SCI-Expanded)
- X. **Vibrational spectroscopic characterization and structural investigations of Cepharanthine, a natural alkaloid**
Çelik S., Akyüz S., Özel A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1, pp.1-15, 2022 (SCI-Expanded)
- XI. **Raman spectroscopic investigation of the wear effect on the titanium carbonitride/aluminum oxide/titanium nitride coated cutting tool**
Çelik S., Beköz Üllen N., Akyüz S., Özel A.
Spectroscopy Letters, vol.1, pp.1-12, 2022 (SCI-Expanded)
- XII. **Structural and spectral analysis of anticancer active cyclo(Ala-His) dipeptide**
ÇELİK S., Yılmaz G., ÖZEL A., Akyuz S.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.2, pp.660-672, 2022 (SCI-Expanded)
- 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**
K.Gasymov O., Çelik S., Agaeva G., Akyüz S., Kecel Gündüz S., M. Qocayev N., Özel A., Agaeva U., Bakhishova M., A. Aliyev J.
Journal Of Molecular Graphics & Modelling, vol.108, pp.1-15, 2021 (SCI-Expanded)
- XIV. **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.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.39, no.12, pp.4212-4224, 2021 (SCI-Expanded)
- 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, vol.1, no.1, pp.1, 2021 (SCI-Expanded)
- XVI. **Synthesis, FT-IR and NMR Characterization, Antibacterial and Antioxidant Activities, and DNA**

Docking Analysis of a New Vanillin-Derived imine Compound

Celik S., Özkök F., Ozel A. E., Cakir E., Akyüz S.

JOURNAL OF MOLECULAR STRUCTURE, vol.1236, 2021 (SCI-Expanded)

- XVII. **Structural Characterization and Drug Delivery System of Natural Growth-Modulating Peptide against Glioblastoma Cancer**
Kılınç Y., Kecel Gündüz S., Çakır Koç R., Aslan B., Bıçak B., Kökcü Y., Özel A., Akyüz S.
International Journal Of Peptide Research And Therapeutics, vol.1, no.1, pp.1-45, 2021 (SCI-Expanded)
- XVIII. **Molecular Structure, Molecular Docking and Absorption, Distribution, Metabolism, Excretion and Toxicity study of cellulose II**
Çelik S., Demirağ A. D., Özel A., Akyüz S.
Journal Of The Chinese Chemical Society, vol.1, pp.1-13, 2021 (SCI-Expanded)
- XIX. **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, vol.39, no.7, pp.2376-2386, 2021 (SCI-Expanded)
- XX. **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)
- XXI. **Vibrational spectroscopic characterization, quantum chemical and molecular docking studies of Valyl-Methionine dipeptide**
Çelik S., Özel A., Durak V., Akyüz S.
Spectroscopy Letters, vol.1, pp.1-16, 2020 (SCI-Expanded)
- XXII. **Molecular Structure, Vibrational Spectra, Molecular Docking, and ADMET Study of Cellulose Triacetate II**
ÇELİK S., Demirağ A. D., ÖZEL A., Akyuz S.
OPTICS AND SPECTROSCOPY, vol.128, no.8, pp.1138-1150, 2020 (SCI-Expanded)
- 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.
OPTICS AND SPECTROSCOPY, vol.128, no.8, pp.1318-1327, 2020 (SCI-Expanded)
- XXIV. **In Silico design of AVP (4–5) peptide and synthesis, characterization and in vitro activity of chitosan nanoparticles**
Kecel-Gunduz S., Budama-Kilinc Y., Çakır Koç R., Zorlu T., Bıçak B., Kokcu Y., Ozel A., Akyüz S.
DARU, Journal of Pharmaceutical Sciences, vol.28, pp.139-157, 2020 (SCI-Expanded)
- XXV. **Synthesis, molecular docking and ADMET study of ionic liquid as anticancer inhibitors of DNA and COX-2, TOPII enzymes**
Celik S., ALBAYRAK A. T., AKYÜZ S., Ozel A.
Journal of Biomolecular Structure and Dynamics, vol.38, no.5, pp.1354-1364, 2020 (SCI-Expanded)
- XXVI. **Synthesis, FT-IR and NMR characterization, antimicrobial activity, cytotoxicity and DNA docking analysis of a new anthraquinone derivate compound**
Celik S., ÖZKÖK F., Ozel A., ŞAHİN Y. M., AKYÜZ S., DİREN SİĞİRCİ B., BAŞARAN KAHRAMAN B., Darici H., Karaoz E.
Journal of Biomolecular Structure and Dynamics, vol.38, no.3, pp.756-770, 2020 (SCI-Expanded)
- XXVII. **Structural analysis, molecular dynamics and docking calculations of skin protective tripeptide and design, characterization, cytotoxicity studies of its PLGA nanoparticles**
Kokcu Y., Kecel-Gunduz S., Budama-Kilinc Y., Cakir-Koc R., Bıçak B., Zorlu T., Ozel A., Akyuz S.
Journal of Molecular Structure, vol.1200, 2020 (SCI-Expanded)
- XXVIII. **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.
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 Göytepe-Azerbaijan by vibrational spectroscopy and chemometric techniques**

AKYÜZ S., Guliyev F., Celik S., Ozel A., Alakbarov V.

Vibrational Spectroscopy, vol.105, 2019 (SCI-Expanded)

- XXX. **Molecular modelling and vibrational investigations of ammonium-based ionic liquid (CLTOAB)**
Celik S., ALBAYRAK A. T., AKYÜZ S., Ozel A.
Journal of Biomolecular Structure and Dynamics, vol.37, no.10, pp.2515-2526, 2019 (SCI-Expanded)
- XXXI. **Papain Loaded Poly(epsilon-Caprolactone) Nanoparticles: In-silico and In-Vitro Studies**
Budama-Kilinc Y., Cakir-Koc R., Kecel-Gunduz S., Zorlu T., Kokcu Y., Bicak B., Karavelioglu Z., Ozel A. E.
JOURNAL OF FLUORESCENCE, vol.28, pp.1127-1142, 2018 (SCI-Expanded)
- XXXII. **Computational design of Phe-Tyr dipeptide and preparation, characterization, cytotoxicity studies of Phe-Tyr dipeptide loaded PLGA nanoparticles for the treatment of hypertension**
Kecel-Gunduz S., Budama-Kilinc Y., Koc R. C., Kokcu Y., Bicak B., Aslan B., Ozel A.
Journal of Biomolecular Structure and Dynamics, vol.36, pp.2893-2907, 2018 (SCI-Expanded)
- XXXIII. **Structural analysis, spectroscopic characterization and molecular docking studies of the cyclic heptapeptide**
Celik S., Kecel-Gunduz S., AKYÜZ S., Ozel A.
Journal of Biomolecular Structure and Dynamics, vol.36, no.9, pp.2407-2423, 2018 (SCI-Expanded)
- XXXIV. **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.
Journal of Applied Spectroscopy, vol.85, no.1, pp.178-183, 2018 (SCI-Expanded)
- XXXV. **Novel NAC-loaded poly(lactide-coglycolide acid) nanoparticles for cataract treatment: Preparation, characterization, evaluation of structure, cytotoxicity, and molecular docking studies**
Budama-Kilinc Y., Cakir-Koc R., Kecel-Gunduz S., Kokcu Y., Bicak B., Mutlu H., E O.
PeerJ, vol.2018, 2018 (SCI-Expanded)
- XXXVI. **Dielectric and Raman spectroscopy of TlSe thin films**
Ozel A., Deger D., Celik S., Yakut S., Karabak B., Akyuz S., Ulutas K.
PHYSICA B-CONDENSED MATTER, vol.527, pp.72-77, 2017 (SCI-Expanded)
- XXXVII. **Vibrational spectroscopic and structural investigations of bioactive molecule Glycyl-Tyrosine (Gly-Tyr)**
Celik S., AKYÜZ S., Ozel A.
Vibrational Spectroscopy, vol.92, pp.287-297, 2017 (SCI-Expanded)
- XXXVIII. **Structural and spectroscopic investigation on antioxidant dipeptide, L-Methionyl-L-Serine: A combined experimental and DFT study**
Kecel-Gunduz S., Bicak B., Celik S., Akyuz S., Ozel A.
Journal of Molecular Structure, vol.1137, pp.756-770, 2017 (SCI-Expanded)
- XXXIX. **Conduction mechanisms, molecular modelling and micro-Raman studies of TlInSe₂ chalcogenide crystal**
Kalkan N., Celik S., Bas H., Ozel A.
Journal of Optoelectronics and Advanced Materials, vol.19, pp.234-245, 2017 (SCI-Expanded)
- XL. **The conformational and vibrational behavior of the inhibitory neuropeptide derived from beta-endorphin**
Kecel-Gunduz S., Celik S., Ozel A., AKYÜZ S.
Journal of Biomolecular Structure and Dynamics, vol.35, no.3, pp.585-602, 2017 (SCI-Expanded)
- XLI. **Practical aspects**
Kecel-Gunduz S., Celik S., Ozel A.
NANOBIOMATERIALS SCIENCE, DEVELOPMENT AND EVALUATION, pp.281-299, 2017 (SCI-Expanded)
- XLII. **Comparative study of antitumor active cyclo(Gly-Leu) dipeptide: A computational and molecular modeling study**
ÇELİK S., ÖZEL A., Akyuz S.
Vibrational Spectroscopy, vol.83, pp.57-69, 2016 (SCI-Expanded)
- XLIII. **Structural and vibrational study of primidone based on monomer and dimer calculations**

- Celik S., Kecel-Gunduz S., Ozel A., Akyuz S.
Journal of Biomolecular Structure and Dynamics, vol.33, no.4, pp.911-923, 2015 (SCI-Expanded)
- XLIV. **Structural and vibrational spectroscopic elucidation of sulpiride in solid state**
Kecel-Gunduz S., Celik S., Ozel A. E., Akyuz S.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.33, no.2, pp.322-343, 2015 (SCI-Expanded)
- XLV. **Counterpoise Correction on the Geometries and Vibrational Frequencies of Acetazolamide Dimers**
Ozel A., Gunduz S., Celik S., Akyuz S.
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.14, pp.8151-8156, 2013 (SCI-Expanded)
- XLVI. **Structural and Vibrational Study on Monomer and Dimer Forms and Water Clusters of Acetazolamide**
Ozel A., Gunduz S., Celik S., Akyuz S.
JOURNAL OF SPECTROSCOPY, 2013 (SCI-Expanded)
- XLVII. **Structural and IR and Raman spectral analysis of cyclo(His-Phe) dipeptide**
Celik S., Ozel A., Kecel S., Akyuz S.
VIBRATIONAL SPECTROSCOPY, vol.61, pp.54-65, 2012 (SCI-Expanded)
- XLVIII. **Conformational analysis and vibrational spectroscopic investigation of L-proline-tyrosine (L-Pro-Tyr) dipeptide**
Kecel S., Ozel A., Akyuz S., Celik S., Agaeva G.
JOURNAL OF MOLECULAR STRUCTURE, vol.993, pp.349-356, 2011 (SCI-Expanded)
- XLIX. **Raman micro-spectroscopic investigation of the interaction of cultured HCT116 colon cancer cells with alpha-difluoromethylornithine (DFMO), an irreversible inhibitor of ornithine decarboxylase**
Akyuz S., Ozel A., Balci K., Akyuz T., Coker A., Arisan E. D., Palavan-Unsal N., Ozalpan A.
JOURNAL OF MOLECULAR STRUCTURE, vol.993, pp.319-323, 2011 (SCI-Expanded)
- L. **Conformational preferences, experimental and theoretical vibrational spectra of cyclo(Gly-Val) dipeptide**
Celik S., Ozel A., Akyuz S., Kecel S., Agaeva G.
JOURNAL OF MOLECULAR STRUCTURE, vol.993, pp.341-348, 2011 (SCI-Expanded)
- LI. **Raman micro-spectroscopic analysis of cultured HCT116 colon cancer cells in the presence of roscovitine**
Akyuz S., Ozel 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, pp.1540-1547, 2011 (SCI-Expanded)
- LII. **Conformational analysis and vibrational spectroscopic investigation of L-alanyl-L-glutamine dipeptide**
Kecel S., Ozel A., Akyuz S., Celik S.
Spectroscopy, vol.24, pp.219-232, 2010 (SCI-Expanded)
- LIII. **Infrared and Raman spectroscopic and quantum chemical investigations of zinc halide complexes of 3-aminoquinoline**
Ozel A., Celik S., Akyuz S., Kecel S.
VIBRATIONAL SPECTROSCOPY, vol.53, no.1, pp.151-157, 2010 (SCI-Expanded)
- LIV. **Experimental, ab initio and density functional theory studies on sulfadiazine**
Ogruc-Ildiz G., Akyuz S., Ozel A.
JOURNAL OF MOLECULAR STRUCTURE, vol.924, pp.514-522, 2009 (SCI-Expanded)
- LV. **Vibrational spectroscopic investigation of free and coordinated 5-aminoquinoline: The IR, Raman and DFT studies**
Ozel A., Celik S., Akyuz S.
JOURNAL OF MOLECULAR STRUCTURE, vol.924, pp.523-530, 2009 (SCI-Expanded)
- LVI. **FT-IR and Raman spectroscopic and quantum chemical studies of zinc halide complexes with 2,2'-biquinoline**
Ozel A., Kecel S., Akyuz S.
VIBRATIONAL SPECTROSCOPY, vol.48, no.2, pp.238-245, 2008 (SCI-Expanded)

- LVII. Vibrational analysis and quantum chemical calculations of 2,2'-bipyridine Zinc(II) halide complexes**
Ozel A., Kecel S., Akyuz S.
Journal of Molecular Structure, pp.548-554, 2007 (SCI-Expanded)
- LVIII. Molecular structure and vibrational assignment of 2-,4-,6-methylquinoline by density functional theory (DFT) and ab initio Hartree-Fock (HF) calculations**
Ozel A., Kecel S., AKYÜZ S.
VIBRATIONAL SPECTROSCOPY, vol.42, no.2, pp.325-332, 2006 (SCI-Expanded)
- LIX. Infrared-spectra and normal-coordinate analysis of quinoline and quinoline complexes**
Ozel A., Buyukmurat Y., Akyuz S.
Journal of Molecular Structure, pp.455-462, 2001 (SCI-Expanded)
- LX. Calculation and analysis of IR spectrum of 2-aminopyridine**
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Çelik S., ÖZEL A., RAMAN SPEKTROSKOPİ YÖNTEMİNİN KANSER TANISINDA KULLANILMASI, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2020/02931 , Standard Registration, 2020

Çelik S., ÖZEL A., ANTİBAKTERİYEL AKTİVİTEYE SAHİP KAPROLAKTAM-GLİSİN İYONİK SIVISI, MOLEKÜLER MODELLEMESİ VE KULLANIMLARI, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2019/00595 , Standard Registration, 2019

Çelik S., ÖZEL A., S. AUREUS, E. FAECALIS, E. COLI, K. PNEUMONIAE, P. AERUGINOSA VE B. SUBTILIS BAKTERİLERİNE KARŞI ANTİBAKTERİYEL ETKİ ARZ EDEN N-METİL PİROLİDON-SALİSİLİK ASİT İYONİK SIVISI VE MOLEKÜLER MODELLEMESİ, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2019/01121 , Standard Registration, 2019

Çelik S., Özel A., Özkök F., Akyüz S., Şahin Y. M., Diren Sığırcı B., Başaran Kahraman B., Darıcı H., Karaöz E., ANTİBAKTERİYEL VE ANTİMİKOTİK ETKİ ARZ EDEN AMİNO ANTRAKİNON ANALOĞU VE BUNUN MOLEKÜLER MODELLEMESİ, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2018/06753 , Standard Registration, 2018

Memberships / Tasks in Scientific Organizations

Türk Fizik Derneği, Member, 2011 - Continues

Scientific Refereeing

Journal of Molecular Structure, SCI Journal, September 2015

Arabian Journal of Chemistry, SCI Journal, September 2015

Journal of Molecular Structure, SCI Journal, August 2015

Journal of Molecular Structure, SCI Journal, June 2015

Arabian Journal of Chemistry, SCI Journal, December 2014

Project Supported by Higher Education Institutions, May 2014

Journal of Molecular Structure, SCI Journal, December 2013

Journal of Molecular Structure, SCI Journal, November 2013

Journal of Molecular Structure, SCI Journal, October 2013

Journal of Molecular Structure, SCI Journal, July 2013

BALKAN PHYSICS LETTERS , National Scientific Refreed Journal, July 2013

Chemical Physics, SCI Journal, July 2013

Spectroscopy letters, SCI Journal, June 2013

J. MOLECULAR AND CELLULAR BIOCHEMISTRY, SCI Journal, March 2013

Project Supported by Higher Education Institutions, February 2009

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Metrics

Publication: 280

Citation (WoS): 476

Citation (Scopus): 472

H-Index (WoS): 13

H-Index (Scopus): 13

Congress and Symposium Activities

33th European Congress on Molecular Spectroscopy (EUCMOS 2016), Attendee, Hungary, 2016

4th World Conference on Design and Arts - WCDA-2015, Attendee, Russia, 2015

2nd International Conference on Global Trends in Pure and Applied Chemical Sciences, Attendee, Hong Kong, 2014

Turkish Physical Society 31 th International Physics Congress, Attendee, Muğla, Turkey, 2014

Turkish Physical Society 30 th International Physics Congress, Attendee, İstanbul, Turkey, 2013

SPEC 2012 - Shedding New Light on Disease, Attendee, Chiang Mai, Thailand, 2012

29th International Physics Congress, Attendee, Bodrum, Turkey, 2012

31th EUCMOS 2012 (European Conference on Molecular Spectroscopy), Attendee, Cluj-Napoca, Romania, 2012

28th International Physics Congress, Attendee, Turkey, 2011

Colloquium Spectroscopicum Internationale 37, (CSIXXXVII), Attendee, Brazil, 2011

14th ECSBM 2011 (European Conference on the Spectroscopy of Biological Molecules), Attendee, Coimbra, Portugal, 2011

27 th International Physics Congress, Attendee, Turkey, 2010

30th European Congress on Molecular Spectroscopy (EUCMOS 2010), Attendee, Italy, 2010

XIII European Conference on the Spectroscopy of Biological Molecules,, Attendee, Palermo, Italy, 2009

International Conference on Advanced Vibrational Spectroscopy (ICAVS-5), Attendee, Australia, 2009

XXIX European Congress on Molecular Spectroscopy, Attendee, Opatija, Croatia, 2008

24th International Physics Congress, Attendee, Turkey, 2007

4th International Conference on Advanced Vibrational Spectroscopy, Attendee, Corfu, Greece, 2007

The Fourth International Conference on Advanced Vibrational Spectroscopy (ICAVS-4), Attendee, Korfu, Greece, 2007

The International Congress on Spectroscopic Methods for Conservation of Cultural Heritage, Attendee, Turkey, 2007

Australian Institute of Physics (AIP) 17th National Congress, Attendee, Brisbane, Australia, 2006

XXVIII European Congress on Molecular Spectroscopy, Attendee, İstanbul, Turkey, 2006

The Third International Conference on Advanced Vibrational Spectroscopy' (ICAVS-3), Attendee, United States Of America, 2005

XXVII European Congress on Molecular Spectroscopy, Attendee, Krakow, Poland, 2004

XXVI European Congress on Molecular Spectroscopy, Attendee, Villeneuve d'Asq, France, 2002

XXV European Congress on Molecular Spectroscopy, Attendee, Coimbra, Portugal, 2000

XXIV European Congress on Molecular Spectroscopy, Attendee, Prag, Czech Republic, 1998

Lamp Symposium on Laser, Atomic and Molecular Physics, Attendee, İstanbul, Turkey, 1997

VI th International Seminar on Inclusion Compounds, Attendee, İstanbul, Turkey, 1995

22nd European Congress on Molecular Spectroscopy, Attendee, Germany, 1994

4th International Summer School on Supramolecular Chemistry, Attendee, Polanya, Turkey, 1993

Awards

ÖZEL A., KECEL GÜNDÜZ S., Conformational Analysis And Vibrational Spectroscopic Investigation of L-Alanyl-L-Glutamine Dipeptide, XIIIth ECSBM The President of the Organizing Committee Prof. Antonio Cupane, September 2009