

# Prof. Ayşen ÖZEL

## Personal Information

**Office Phone:** [+90 212 455 5700](tel:+902124555700) Extension: 15235

**Email:** [aozel@istanbul.edu.tr](mailto:aozel@istanbul.edu.tr)

**Web:** <http://aves.istanbul.edu.tr/aozel/>

## Education Information

Doctorate, İstanbul Üniversitesi, Fen Bilimleri, Fizik/Atom Ve Molekül Fiziği, Turkey 1988 - 1996

Post Graduate, İstanbul Üniversitesi, Fen Bilimleri, Fizik, Turkey 1986 - 1988

Under Graduate, İstanbul Üniversitesi, Faculty of Science, Department of Physics, Turkey 1984 - 1986

Associate Degree, İstanbul Üniversitesi, Faculty of Science, Department of Physics, Turkey 1982 - 1984

## Foreign Languages

French, B2 Upper Intermediate

English, B1 Intermediate

## Dissertations

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

Post Graduate, Yeni bir Model ve Kompleks tuzlara Uygulaması, İstanbul 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, İstanbul University, Faculty of Science, Department of Physics, 2008 - Continues

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

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

Research Assistant, İstanbul Üniversitesi, Faculty of Science, Department of Physics, 1987 - 1998

## Professional Experience

Vice Dean, İstanbul Üniversitesi, Faculty of Science, , 2006 - 2008

## Courses

Spektral Analiz Yöntemleri, Under Graduate, 2020 - 2021

Seminer, Doctorate, 2018 - 2019

İleri Fizik Uygulamaları, Under Graduate, 2017 - 2018

Biyolojik aktif moleküllerde teorik konformasyon analizi, Doctorate, 2017 - 2018

Spektral Analiz, Under Graduate, 2017 - 2018  
Fizikl, Under Graduate, 2017 - 2018  
İleri Molekül Fiziği, Post Graduate, 2017 - 2018  
Fizikl, Under Graduate, 2017 - 2018  
Atom ve Mol.Fizl(İ.Ö), Under Graduate, 2012 - 2013  
İleri Fizik Uygulamaları, Under Graduate, 1998 - 1999, 1999 - 2000, 2000 - 2001, 2001 - 2002, 2002 - 2003, 2003 - 2004, 2004 - 2005, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2012 - 2013  
Atom ve Mol.Fizl, Under Graduate, 2012 - 2013  
Biyolojik aktif moleküllerde Teorik konformasyon analizi, Doctorate, 2012 - 2013  
Fizikl Lab, Associate Degree, 2012 - 2013  
Fizikl, Associate Degree, 2012 - 2013  
İleri Fiz. , Under Graduate, 2008 - 2009, 2011 - 2012  
Atom ve Mol. Fiz.l, Under Graduate, 2011 - 2012  
Atom ve Mol. Fiz.l (İ.Ö), Under Graduate, 2011 - 2012  
Fizikl lab, Associate Degree, 2006 - 2007, 2007 - 2008, 2011 - 2012  
Fizikl, Associate Degree, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011  
İleri Molekül Fiziği, Post Graduate, 2008 - 2009, 2009 - 2010, 2010 - 2011  
Fizik I (İ.Ö), Associate Degree, 2009 - 2010, 2010 - 2011  
Molekül Fiziğinde Hesaplama Yöntemleri , Doctorate, 2006 - 2007, 2007 - 2008, 2008 - 2009  
Kuan. Fiz. Mol. Fiz. Uyg., Post Graduate, 2008 - 2009  
Atom ve Mole. Fiz., Under Graduate, 2008 - 2009  
Kuantum Mekaniğinin Molekül Fiziğine Uygulanması , Doctorate, 2006 - 2007, 2007 - 2008, 2008 - 2009  
Fizikl, Associate Degree, 2006 - 2007  
Fizik, Associate Degree, 2003 - 2004, 2004 - 2005, 2005 - 2006, 2006 - 2007  
Fizik laboratuvarı II, Associate Degree, 2005 - 2006, 2006 - 2007  
Fizikl, Under Graduate, 2005 - 2006  
Spektral Analiz Yöntemleri, Under Graduate, 2000 - 2001, 2002 - 2003, 2003 - 2004  
Spektral Analiz Yöntemleri(İ.Ö), Under Graduate, 2000 - 2001, 2001 - 2002  
Atom ve Molekül Fiziği (İ.Ö), Under Graduate, 1998 - 1999, 1999 - 2000

## Advising Theses

Özel A., Val-Met dipeptidinin moleküler mekanik ve kuantum kimyasal yöntemlerle konformasyon analizi, Post Graduate, V.Durak(Student), 2019  
Özel A., Endometriozis hücre yapılarının spektroskopik yöntemlerle incelenmesi, Post Graduate, G.Yılmaz(Student), 2017  
Özel A., Met-Tyr dipeptidinin konformasyon analizi ve kuantum kimyasal yöntemleri ile titreşim frekans ve kiplerinin incelenmesi, Post Graduate, D.ÇETİN(Student), 2016  
Özel A., Serbest etilparaben molekülünün konformasyon analizi ve kuantum kimyasal yöntemleri ile titreşim frekans ve kiplerinin incelenmesi, Post Graduate, H.Yurdatapan(Student), 2015  
ÖZEL A., BAZI DİPEPTİTLERİN KONFORMASYON ANALİZİ ve DFT YÖNTEMİ İLE TİTREŞİM FREKANS ve KİPLERİNİN İNCELENMESİ, Doctorate, S.ÇELİK(Student), 2011

## Jury Memberships

Doctorate, Yıldız Teknik Üniversitesi, Yıldız Teknik Üniversitesi, April, 2014  
Appointment Academic Staff, 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

Post Graduate, Tez savunma jürisi, İstanbul Üniversitesi, December, 2010

Doctorate, 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

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **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., Bicak B., Kokcu Y., Ozel A., Akyüz S.  
DARU, Journal of Pharmaceutical Sciences, vol.28, pp.139-157, 2020 (Journal Indexed in SCI Expanded)
- **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, 2020 (Journal Indexed in SCI)
- **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, pp.1354-1364, 2020 (Journal Indexed in SCI Expanded)
- **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, pp.756-770, 2020 (Journal Indexed in SCI Expanded)
- **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., Bicak B., Zorlu T., Ozel A., Akyuz S.  
Journal of Molecular Structure, vol.1200, 2020 (Journal Indexed in SCI Expanded)
- **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., Biçak B., Kokcu Y., Kaya Z., Özel A., Akyuz S.  
CURRENT COMPUTER-AIDED DRUG DESIGN, vol.16, pp.104-121, 2020 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI Expanded)
- **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, pp.2515-2526, 2019 (Journal Indexed in SCI Expanded)
- **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 (Journal Indexed in SCI)

- 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 (Journal Indexed in SCI Expanded)
- 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, pp.2407-2423, 2018 (Journal Indexed in SCI Expanded)
- 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, pp.178-183, 2018 (Journal Indexed in SCI Expanded)
- 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 (Journal Indexed in SCI Expanded)
- Dielectric and Raman spectroscopy of TlSe thin films**  
 Ozel A., Deger D., Celik S., Yakut Ş., Karabak B., Akyuz S., Ulutas K.  
 PHYSICA B-CONDENSED MATTER, vol.527, pp.72-77, 2017 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI Expanded)
- 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 (Journal Indexed in SCI Expanded)
- Conduction mechanisms, molecular modelling and micro-Raman studies of TlInSe<sub>2</sub> chalcogenide crystal**  
 Kalkan N., Celik S., Bas H., Ozel A.  
 Journal of Optoelectronics and Advanced Materials, vol.19, pp.234-245, 2017 (Journal Indexed in SCI Expanded)
- 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, pp.585-602, 2017 (Journal Indexed in SCI Expanded)
- Practical aspects**  
 Kecel-Gunduz S., Celik S., Ozel A.  
 NANOBIMATERIALS SCIENCE, DEVELOPMENT AND EVALUATION, pp.281-299, 2017 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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, pp.911-923, 2015 (Journal Indexed in SCI Expanded)
- Structural and vibrational spectroscopic elucidation of sulphur in solid state**  
 Kecel-Gunduz S., Celik S., Ozel A. E. , Akyuz S.  
 JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.33, pp.322-343, 2015 (Journal Indexed in SCI)
- 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, pp.8151-8156, 2013 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)

- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI Expanded)
- **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, pp.151-157, 2010 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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, pp.238-245, 2008 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI Expanded)
- **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, pp.325-332, 2006 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI Expanded)
- **Calculation and analysis of IR spectrum of 2-aminopyridine**  
Buyukmurat Y., Akalin E., Ozel A., Akyüz S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.482, pp.579-584, 1999 (Journal Indexed in SCI)
- **FT-IR and laser Raman spectroscopic investigation of transition metal halide complexes of benzidine**  
Akyuz S., Bulat T., Ozel A., Basar G.  
Vibrational Spectroscopy, vol.14, pp.151-154, 1997 (Journal Indexed in SCI Expanded)
- **Vibrational spectroscopic investigation of mono and tris-2,2'-bipyridyl metal(II) tetracyanonickelate**

## compounds

AKYÜZ S., Ozel A., Davies J., Bakiler M.

JOURNAL OF INCLUSION PHENOMENA AND MOLECULAR RECOGNITION IN CHEMISTRY, vol.26, pp.103-109, 1996 (Journal Indexed in SCI)

- **Structural investigation of 1,4-diaminobenzene complexes of nickel and cadmium chloride by FT-IR and Raman spectroscopy**

OZEL A., AKYUZ S., DAVIES J.

Journal of Molecular Structure, vol.348, pp.77-80, 1995 (Journal Indexed in SCI Expanded)

- **Fourier transform Raman and fourier transform ir spectroscopic investigation of pyrazine adsorbed by sepiolite and bentonite from anatolia**

AKYUZ S., AKYUZ T., DAVIES J., ESMER K., OZEL A.

Journal of Raman Spectroscopy, vol.26, pp.883-888, 1995 (Journal Indexed in SCI Expanded)

- **Charged-Soft-Sphere Potentials for Trivalent Metal Halides**

ÖZEL A., Akdeniz Z., Tosi M.

Il Nuovo Cimento D, vol.14, pp.87-97, 1992 (Journal Indexed in SCI)

- **Stability Analysis for Complexes in Calcium-Alkali Bromide Solutions**

Akdeniz Z., DALGIÇ S., ÖZEL A., Tosi M.

Physics and Chemistry of Liquids: An International Journal, vol.19, pp.107-111, 1989 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **IN SILICO ANALYSIS FOR CHARACTERIZING THE STRUCTURE AND BINDING PROPERTIES OF ALA-HIS-LYS (AHK) TRIPEPTIDE**

Kecel Gündüz S., Koç E., Bıçak B., Kökcü Y., Özel A., Akyüz S.

The Online Journal of Science and Technology, vol.10, pp.111-120, 2020 (Refereed Journals of Other Institutions)

- **The Interaction of Ile-Phe Dipeptide with Phosphatidylinositide 3-Kinase (PI3K): Molecular Dynamics and Molecular Docking Studies**

Bıçak B., Kokcu Y., Kecel Gündüz S., Özel A., Akyüz S.

Natural and Engineering Sciences (NESciences), pp.1, 2020 (Refereed Journals of Other Institutions)

- **Coumarin-benzothiazole hybrid as a new scaffold for human gliomas**

Gabr M. T. , ÇELİK S., AKYÜZ S., ÖZEL A.

Medicine in Drug Discovery, vol.1, pp.1-18, 2020 (Refereed Journals of Other Institutions)

- **Molecular Docking and Molecular Dynamics Studies of L-Glycyl-L-Glutamic Acid Dipeptide**

Bıçak B., Kecel Gündüz S., Kokcu Y., Özel A., Akyüz S.

Bilge International Journal of Science and Technology Research, vol.3, pp.1-9, 2019 (Refereed Journals of Other Institutions)

- **COMPUTERISED DESIGNING OF DOXORUBICIN WITH BREAST CANCER CELLS**

Sener L., Gunduz S., Şener A., Bıçak B., Kokcu Y., Ozel A., Albeniz I.

JOURNAL OF ISTANBUL FACULTY OF MEDICINE-ISTANBUL TIP FAKULTESİ DERGISİ, vol.82, pp.40-46, 2019 (Journal Indexed in ESCI)

- **Use of the Comet Assay and Molecular Docking Techniques to Evaluate the Effect of Nicotine in Human Breast Cancer Cell Line**

TÜRKER ŞENER L., KECEL GÜNDÜZ S., Şener A., Çelikok Y., BIÇAK B., KÖKCÜ Y., ÖZEL A., ALBENİZ I.

International Journal of Scientific and Technological Research, vol.4, pp.1-15, 2018 (Refereed Journals of Other Institutions)

- **Non-Linear Optical Properties of Primidone**

ÖZEL A., ÇELİK S., AKYÜZ S.

ASIAN JOURNAL OF CHEMISTRY, vol.27, pp.1932-1934, 2015 (Refereed Journals of Other Institutions)

- **Three-Dimensional Structure of The Cyclic Dipeptides**

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

Journal of Qafqaz University, vol.23, pp.97-102, 2008 (National Refereed University Journal)

- **"Conformation Analysis Of Drug-Based Dipeptides"**

KECEL S., Agaeva G., ÖZEL A., AKYÜZ S.

## Books & Book Chapters

- **Drug delivery nanosystems for neural regenerative medicine**  
Kecel Gündüz S., Bıçak B., Özel A.  
in: NEURAL REGENERATIVE NANOMEDICINE, Mehdi Razavi, Editor, Academic Press , Oxford, pp.89-116, 2020
- **in: Design of Experiments for Chemical, Pharmaceutical, Food, and Industrial Applications**  
ÇELİK S., Albayrak A. T. , AKYÜZ S., ÖZEL A.  
The Role of Multivariant Analysis on the Interpretation of FTIR and Raman Spectra, Gabriela Carrillo-Cedillo E., Rodriguez-Avila J. A., Arredondo-Soto K. C., Manuel Cornejo-Bravo J., Editor, Igi Global Publications, Hershey, pp.104-129, 2019
- **in: Computational Models for Biomedical Reasoning and Problem Solving**  
ÇELİK S., Albayrak A. T. , AKYÜZ S., ÖZEL A.  
The Importance of Ionic Liquids and Applications on Their Molecular Modeling, Chung-Hao C., Sen-Ching Samson C., Editor, Igi Global Publications, Hershey, pp.206-230, 2019
- **in: Computational Models for Biomedical Reasoning and Problem Solving**  
Çelik S., Özkök F., Akyüz S., Özel A.  
The Importance of Anthraquinone and Its Analogues and Molecular Docking Calculation, Chung-Hao Chen, Sen-Ching Samson Cheung, Editor, IGI Global, New-York, pp.177-205, 2019
- **in: Nanobiomaterials Science, Development and Evaluation**  
KECEL GÜNDÜZ S., ÇELİK S., ÖZEL A.  
Practical aspects, Mehdi Razavi, Avnesh Thakor, Editor, Woodhead Publishing, Duxford, pp.281-299, 2017

## Refereed Congress / Symposium Publications in Proceedings

- **Enez Kazısından Çıkarılan Bazı Arkeolojik Seramik ve Killerin FTIR, Mikro-Raman, EDXRF, XRD ve Kemometrik Yöntemler ile Analizi**  
AKYÜZ S., ÇELİK S., ÖZEL A., Başaran S.  
18.ULUSAL KİL SEMPOZYUMU 2019, Kocaeli, Turkey, 25 - 28 September 2019, pp.1
- **Synthesis, DFT, molecular dynamics simulation, molecular docking of caprolactam-zinc chloride ionic liquid (IL)**  
ÇELİK S., Albayrak A. T. , AKYÜZ S., ÖZEL A.  
The 3rd International Conference on Applications in Chemistry and Chemical Engineering (ICACChE), Üsküp, Macedonia, 11 - 15 September 2019, pp.3
- **IN SILICO ANALYSIS OF HAIR GROWTH PEPTIDE**  
KECEL GÜNDÜZ S., KOÇ E., BIÇAK B., ÖZEL A., AKYÜZ S.  
Türk Fizik Derneği 35. Uluslararası Fizik Kongresi, Muğla, Turkey, 4 - 08 September 2019, pp.163
- **Vibrational Spectroscopic Investigations Of Ancient Potteries And Glasses Excavated In Ancient Ainos (Enez)-Turkey**  
ÇELİK S., AKYÜZ S., ÖZEL A., Başaran S.  
International Conferences on Science and Technology (ICONST– NST–2019), Prizren, Kosova, 26 - 30 August 2019, pp.3
- **Investigations of the Neolithic Potteries of 6th Millennium BC from Göytepe Azerbaijan by Spectroscopic and Chemometric Methods**  
AKYÜZ S., Guliyev F., ÇELİK S., ÖZEL A., Alakbarov V.  
International Conferences on Science and Technology (ICONST– NST–2019), Prizren, Kosova, 26 - 30 August 2019, pp.3
- **Conformational Analysis And Vibrational Spectroscopic Investigation Of A Biological Active Dipeptide**  
ÇELİK S., Durak V., ÖZEL A., AKYÜZ S.  
International Conferences on Science and Technology (ICONST– NST–2019), Prizren, Kosova, 26 - 30 August 2019, pp.3

- Conformational Analysis of A Molecule That Has Anticancer Properties**  
 ÇELİK S., Albayrak A. T. , AKYÜZ S., ÖZEL A.  
 International Conferences on Science and Technology (ICONST– NST–2019), Prizren, Kosova, 26 - 30 August 2019, pp.2
- IN SILICO ANALYSIS FOR CHARACTERIZING THE STRUCTURE,VIBRATIONASSIGNMENT, AND BINDING PROPERTIES OF ALA-HIS-LYS (AHK) TRIPEPTIDE**  
 Kecel Gündüz S., Koç E., Biçak B., Özel A., Akyüz S.  
 International Science and Technology Conference (ISTEC), Praha, Czech Republic, 3 - 05 Temmuz 2019, pp.86
- INTERACTION AND ACTIVE REGION DETERMINATION BETWEEN BACTERIAL CELLULOSE AND VARIOUS CELLULASE ENZYMES**  
 Demirağ A. D. , ÇELİK S., ÖZEL A., AKYÜZ S.  
 International Summit of Innovation in Medicine-4, Gaziantep, Turkey, 11 - 13 October 2018, pp.1
- MOLECULAR STRUCTURE ANALYSIS OF CELLULOSE TRIACETATE AND ITS INTERACTION WITH Bgl ENZYME**  
 Demirağ A. D. , ÇELİK S., ÖZEL A., AKYÜZ S.  
 1st International Symposium on Graduate Research in Science (ISGRS 2018), İstanbul, Turkey, 4 - 06 October 2018, pp.1
- THE THEORETICAL CONFORMATIONAL ANALYSIS AND QUANTUM CHEMICAL CALCULATIONS OF ANTIOXIDANT TRIPEPTIDE**  
 KÖKCÜ Y., BIÇAK B., KECEL GÜNDÜZ S., ÖZEL A.  
 1st International Symposium on Graduate Research in Science, İstanbul, Turkey, 4 - 06 October 2018, pp.9
- THEORETICAL CONFORMATIONAL ANALYSIS OF L-ISOLEUCYL-L-PHENYLALANINE DIPEPTIDE**  
 BIÇAK B., KECEL GÜNDÜZ S., ÖZEL A.  
 1st International Symposium on Graduate Research in Science, İstanbul, Turkey, 4 - 06 October 2018, pp.9
- STRUCTURAL AND IR AND RAMAN SPECTRAL ANALYSIS OF CYCLO(ALA-HIS) DIPEPTIDE**  
 Ektiren Yılmaz G., ÇELİK S., ÖZEL A., AKYÜZ S.  
 1st International Symposium on Graduate Research in Science (ISGRS 2018), İstanbul, Turkey, 4 - 06 October 2018, pp.1
- Analysis of Gemcitabine Molecule by Molecular Dynamic Simulation, and Docking Study**  
 ÇELİK S., AKYÜZ S., ÖZEL A.  
 2nd International Conference on Innovations in Natural Science and Engineering (ICINSE 2018), Kiev, Ukraine, 7 - 10 September 2018, pp.1
- Molecular Docking And Molecular Dynamics Studies of L-Glycyl-L-Glutamic Acid Dipeptide**  
 BIÇAK B., Kokcu Y., KECEL GÜNDÜZ S., ÖZEL A., AKYÜZ S.  
 ICINSE 2018, Kiev, Ukraine, 7 - 10 September 2018, pp.3
- Neuroprotective dipeptide AVP(4-5)-NH<sub>2</sub> loaded Chitosan Nanoparticle; In-silico and In-vitro Studies**  
 KECEL GÜNDÜZ S., ÖZEL A., BIÇAK B., Kokcu Y., Budama Kilinc Y., Çakır Koç R., Zorlu T., AKYÜZ S.  
 ICINSE 2018, Kiev, Ukraine, 7 - 10 September 2018, pp.5
- Structural analysis of Interaction between the N-methyl-2- pyrrolidone and Human Protein Kinase CK2 Holoenzymia**  
 ÇELİK S., ALBAYRAK A. T. , AKYÜZ S., ÖZEL A.  
 2nd International Conference on Innovations in Natural Science and Engineering (ICINSE 2018), Kiev, Ukraine, 7 - 10 September 2018, pp.1
- Conformational Analysis of Clofarabine Molecule and its Interaction with DNA**  
 ÇELİK S., AKYÜZ S., ÖZEL A.  
 2nd International Conference on Innovations in Natural Science and Engineering (ICINSE 2018), Kiev, Ukraine, 7 - 10 September 2018, pp.1
- Molecular Dynamic, Molecular Docking, Characterization And In-Vitro Studies of Sulpiride Loaded Chitosan Nanoparticles**  
 KECEL GÜNDÜZ S., BIÇAK B., Kokcu Y., Budama Kilinc Y., Çakır Koç R., Zorlu T., AKYÜZ S., ÖZEL A.  
 ICINSE 2018, Kiev, Ukraine, 7 - 10 September 2018, pp.1
- MOLECULAR DOCKING AND MOLECULAR DYNAMICS STUDIES OF L-ISOLEUCYL-L-PHENYLALANINE DIPEPTIDE**



BIÇAK B., KECEL GÜNDÜZ S., Kokcu Y., ÖZEL A.

Turkish Physical Society 34 th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, pp.28

- **MOLECULAR DOCKING AND MOLECULAR DYNAMICS STUDIES OF N-TERMINAL FRAGMENT OF THE MAJOR VASOPRESSIN METABOLITE**

KECEL GÜNDÜZ S., BIÇAK B., Kokcu Y., ÖZEL A.

Turkish Physical Society 34 th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, pp.28

- **STRUCTURAL AND CONFORMATIONAL STUDY OF AMINOPTERIN**

Ektiren Yılmaz G., ÇELİK S., ÖZEL A., AKYÜZ S.

Turkish Physical Society 34 th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, pp.1

- **Molecular structural analysis of cellulose triacetate II and influence with aspergillus niger cellulase enzyme**

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

International Conference on Science and Technology(ICONST), Prizren, Kosova, 5 - 09 September 2018, pp.1

- **Structural and docking analysis with nicotinic acetylcholine receptor of thymopentin (Arg-Lys-Asp-Val-Tyr)**

ÇELİK S., AKYÜZ S., ÖZEL A.

2nd International Congress on Advances in Bioscience and Biotechnology (ICABB 2018), 26 - 30 June 2018, pp.1

- **Theoretical structure analysis and DNA interaction of an anticancer molecule**

ÇELİK S., ÖZKÖK F., AKYÜZ S., ÖZEL A.

2nd International Congress on Advances in Bioscience and Biotechnology (ICABB 2018), 26 - 30 June 2018, pp.1

- **PAPAİN LOADED POLYCAPROLACTON NANOPARTICLES: IN-SILICO AND IN-VITRO STUDIES**

BUDAMA-KILINC Y., Çakır Koç R., KECEL GÜNDÜZ S., Zorlu T., Kokcu Y., BIÇAK B., Karavelioğlu Z., ÖZEL A.

2nd International Congress on Advances in Bioscience and Biotechnology (ICABB), 25 - 30 June 2018, pp.1

- **MOLECULAR DOCKING, MOLECULAR DYNAMICS, OPTIMIZATION AND CHARACTERIZATION OF GHK-LOADED POLY(?-CAPROLACTONE) NANOPARTICLES AS POTENTIAL ANTI-CANCEROGENIC EFFECT ON GLIOBLASTOMA CANCER CELLS**

KECEL GÜNDÜZ S., BUDAMA-KILINC Y., Çakır Koç R., Aslan B., Kokcu Y., BIÇAK B., ÖZEL A., AKYÜZ S.

2nd International Congress on Advances in Bioscience and Biotechnology (ICABB), 25 - 30 June 2018, pp.1

- **MOLEKÜLER DİNAMİK SİMÜLASYONLA ANTİKANSER AKTİVİTEYE SAHİP ADRIAMİSİN MOLEKÜLÜNÜN YAPI ANALİZİ VE DOCKING HESABI**

ÇELİK S., AKYÜZ S., ÖZEL A.

ADIM Fizik Günleri VII, Aydın, Turkey, 23 - 25 May 2018, pp.1

- **ANTİTÜMÖR AKTİVİTEYE SAHİP NETROPSİN MOLEKÜLÜNÜN KUANTUM MEKANİK VE MOLEKÜLER DİNAMİK MODELLEMESİ İLE DNA ETKİLEŞİMİ**

ÇELİK S., AKYÜZ S., ÖZEL A.

ADIM Fizik Günleri VII, Aydın, Turkey, 23 - 25 May 2018, pp.1

- **Investigation of Cellulose Molecular Structure and Docking Study With Bgl Enzyme**

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

1st Light and Light-Based Technologies Workshop, Ankara, Turkey, 15 May 2018, pp.71

- **Antioxidant peptide Loaded poly(lactic-coglycolic acid) Nanoparticles: Molecular Design, Characterization and Molecular Docking Study**

KECEL GÜNDÜZ S., KÖKCÜ Y., BIÇAK B., BUDAMA KILINÇ Y., ÇAKIR KOÇ R., ÖZEL A.

International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018, pp.1280-1281

- **Antioxidant peptide Loaded poly(lactic-coglycolic acid) Nanoparticles: Molecular Design, Characterization and Molecular Docking Study**

KECEL GÜNDÜZ S., Kokcu Y., Biçak B., Budama Kilinc Y., Çakır Koç R., ÖZEL A.

International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), İstanbul, Turkey, 26 - 27 April 2018, pp.1280-1281

- **Structural and Spectroscopic Analysis of ?-Caprolactam Molecule and Docking Studies on Ndm-1**

ALBAYRAK A. T. , ÇELİK S., AKYÜZ S., ÖZEL A.

7th INTERNATIONAL MOLECULAR BIOLOGY and BIOTECHNOLOGY CONGRESS, Konya, Turkey, 25 - 27 April 2018, pp.21

- **Structural and Spectroscopic Analysis of E-Caprolactam Molecule and Docking Studies on Ndm-1**  
 ALBAYRAK A. T. , ÇELİK S., AKYÜZ S., ÖZEL A.  
 7th INTERNATIONAL MOLECULAR BIOLOGY and BIOTECHNOLOGY CONGRESS, Konya, Turkey, 25 - 27 April 2018, pp.21
- **Molecular Modelling of Biologically Active Toab Compound And Docking Calculation On DNA-Toab Interactions**  
 ÇELİK S., ALBAYRAK A. T. , AKYÜZ S., ÖZEL A.  
 7th INTERNATIONAL MOLECULAR BIOLOGY and BIOTECHNOLOGY CONGRESS, Konya, Turkey, 25 - 27 April 2018, pp.50
- **DOCKING STUDIES OF CYCLOHEPTAPEPTIDE WITH ANTICANCER ACTIVITY**  
 ÇELİK S., AKYÜZ S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, vol.1, pp.1
- **INTERACTION OF ANTICANCER ARG-LYS-ASP-VAL WITH NICOTINIC ACETYLCHOLINE**  
 ÇELİK S., AKYÜZ S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, vol.1, pp.1
- **BINDING INTERACTIONS OF TYR-ILE-GLY-SERARG LIGAND WITH LAMININ RECEPTOR MODELS**  
 ÇELİK S., AKYÜZ S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, vol.1, pp.1
- **A THEORETICAL INVESTIGATION OF SER-HIS DIPEPTIDE**  
 Demirağ A. D. , KECEL GÜNDÜZ S., ÇELİK S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, vol.1, pp.1
- **MOLECULAR DYNAMIC MOLECULAR DOCKING HOMOLUMO MEP AND UVVIS ANALYSIS OF PHETYR DIPEPTIDE FOR THE TREATMENT OF HYPERTENSION**  
 Bıçak B.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.251
- **STRUCTURE-BASED CONFORMATIONAL PREFERENCES OF LEU, LYS AND THR AMINO ACIDS**  
 Karanfil S., Tüysüz B., Akıncı O., ÇELİK S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, vol.1, pp.1
- **THE CONFORMATIONAL ANALYSIS OF METIONIN AS A LIPOTROPIC MOLECULE**  
 BARIŞ E., KECEL GÜNDÜZ S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.574
- **MOLECULAR MODELING OF FAGAAGSAKSAAGTASHVSI PEPTIDE**  
 KÖKCÜ Y., BIÇAK B., KECEL GÜNDÜZ S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2017, pp.1
- **THE ELUCIDATION OF THEORETICAL STRUCTURAL ANALYSIS OF MET-GLY**  
 Demirağ A. D. , ÇELİK S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, vol.1, pp.1
- **MOLECULAR DYNAMIC AND DOCKING STUDIES OF RGD PEPTIDE**  
 BIÇAK B., KÖKCÜ Y., KECEL GÜNDÜZ S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2017, pp.1
- **STRUCTURAL ANALYSIS OF SDKGATLTIKKEAFPAESKS PEPTIDE**  
 BIÇAK B., KÖKCÜ Y., KECEL GÜNDÜZ S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2017, pp.1
- **MOLECULAR DYNAMIC SIMULATION OF NAC MOLECULE**  
 KÖKCÜ Y., BIÇAK B., KECEL GÜNDÜZ S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2017, pp.1
- **CONFORMATIONAL ANALYSIS OF LINEAR AND CYCLIC DIPEPTIDES**  
 ÇELİK S., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, vol.1, pp.1
- **COMPUTATIONAL DESIGN OF IMMUNOGENIC PEPTIDE**  
 KECEL GÜNDÜZ S., KÖKCÜ Y., BIÇAK B., ÖZEL A.  
 Turkish Physical Society 33 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2017, pp.1
- **Theoretical Vibrational Spectra and Molecular docking studies with protein and DNA on cyclo-**

## heptapeptide

ÇELİK S., KECEL GÜNDÜZ S., AKYÜZ S., ÖZEL A.

The 25 th Colloquium on High-Resolution Molecular Spectroscopy HRMS 2017, Helsinki, Finland, 20 - 25 August 2017, pp.1

- **Molecular Modelling and vibrational Investigations of ammonium-based ionic liquid (CLTOAB)**

ÇELİK S., KECEL GÜNDÜZ S., ALBAYRAK A. T. , AKYÜZ S., ÖZEL A.

The 25 th Colloquium on High-Resolution Molecular Spectroscopy HRMS 2017, Helsinki, Finland, 20 - 25 August 2017, pp.1

- **TİROZİN İÇEREN HALKA VE AÇIK UÇLU BAZI DİPEPTİTLERİN TEORİK KONFORMASYON ANALİZİ**

ÇELİK S., ÖZEL A.

ADIM Fizik Günleri VI, Balıkesir, Turkey, 19 - 21 July 2017, pp.1

- **ALZHEİMER HASTALIĞINA KARŞI AKTİVİTE GÖSTEREN CYCLO(PHE-PHE) DİPEPTİDİNİN YAPI VE ENERJİ ANALİZİ**

ÇELİK S., ÖZEL A.

ADIM Fizik Günleri VI, Balıkesir, Turkey, 19 - 21 July 2017, pp.1

- **CYCLO(TRP-TRP) DİPEPTİDİNİN FARKLI METOTLARLA TEORİK KONFORMASYON ANALİZİ**

ÇELİK S., ÖZEL A.

ADIM Fizik Günleri VI, Balıkesir, Turkey, 19 - 21 July 2017, pp.1

- **Structural Analysis of the Cysteine Containing Some Dipeptides**

ÇELİK S., KECEL GÜNDÜZ S., ÖZEL A.

Turkish Physical Society 32 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2016, pp.1

- **CONFORMATIONAL STABILITY OF NAC MOLECULE**

Kokcu Y., KECEL GÜNDÜZ S., ÖZEL A.

32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016, pp.16

- **DETERMINATION OF CONFORMATIONAL AND STRUCTURAL FEATURES OF L-GLY-L-GLU DIPEPTIDE**

BIÇAK B., KECEL GÜNDÜZ S., ÖZEL A.

32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016, pp.1

- **Structural and Conformational Study of Dienogest**

Ektiren Yılmaz G., ÇELİK S., ÖZEL A.

Turkish Physical Society 32 th International Physics Congress, Muğla, Turkey, 6 - 09 September 2016, pp.1

- **DETERMINATION OF CONFORMATIONAL AND STRUCTURAL FEATURES OF L-GLY-L-GLU DIPEPTIDE**

Biçak B., KECEL GÜNDÜZ S., ÖZEL A.

32nd International Physics Congress, Muğla, Turkey, 6 - 09 September 2016, pp.42

- **Conformational Stability and Spectroscopic Analysis of the Cyclic Heptapeptide**

ÇELİK S., ÖZEL A., AKYÜZ S.

33th European Congress on Molecular Spectroscopy (EUCMOS 2016), Szeged, Hungary, 30 July - 04 August 2016, pp.1

- **SPECTROSCOPIC INVESTIGATIONS AND QUANTUM CHEMICAL COMPUTATIONAL STUDY OF ANTIHYPERTENSIVE DIPEPTIDE**

KECEL GÜNDÜZ S., ÖZEL A., AKYÜZ S.

(EUCMOS 2016) 33rd European Congress on Molecular Spectroscopy, Szeged, Hungary, 30 July - 04 August 2016, pp.145

- **Investigations of Archaeological glass bracelets and perfume bottles excavated in Ancient Ainos (Enez) by Multiple Analytical Techniques**

ÇELİK S., Akyüz T., AKYÜZ S., Kurap G., Başaran S., ÖZEL A., KECEL GÜNDÜZ S.

33th European Congress on Molecular Spectroscopy (EUCMOS 2016), Szeged, Hungary, 30 July - 04 August 2016, pp.1

- **HALKA YAPILI ANTİTÜMÖR AKTİVİTEYE SAHİP BAZI DİPEPTİTLERİN KONFORMASYONEL KARARLILIĞI VE YAPISAL PARAMETRELERİ**

ÇELİK S., ÖZEL A., AKYÜZ S.

ADIM Fizik Günleri V, Eskişehir, Turkey, 21 - 23 April 2016, pp.26

- **BAZI NÖROTRANSMİTTER ÖZELLİKTEKİ DİPEPTİDLERİN GEOMETRİK YAPILARININ TEORİK AÇIKLAMASI**

KECEL GÜNDÜZ S., ÖZEL A., AKYÜZ S.

ADIM Fizik Günleri V, Eskişehir, Turkey, 21 - 23 April 2016, pp.28

• **IDENTIFICATION OF GAS BUBBLES IN GLASS PRODUCTS BY MICRO RAMAN SPECTROSCOPY**

Yurdatapan H., ÖZEL A., AKALIN E., Oran M., Ökten A.

Balkan Fizik Birliği 9. Uluslararası Fizik Konferansı, İstanbul, Turkey, 24 - 27 August 2015, pp.5

• **Structural Analysis of Biologically Active Tetrapeptide**

ÇELİK S., ÖZEL A.

9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.354

• **THEORETICAL AND EXPERIMENTAL VIBRATIONAL STUDY OF MET-SER DIPEPTIDE**

BIÇAK B., KECEL GÜNDÜZ S., ÖZEL A., ÇELİK S.

9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.1

• **Conformational Analysis of Biologically Active Cyclopeptide**

ÖZEL A., ÇELİK S.

9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.361

• **Micro-Raman and FT-IR spectroscopic analysis of ancient terra-cotta findings from ancient Ainos (Turkey)**

AKYÜZ S., ÖZEL A., ÇELİK S., Akyüz T., KECEL GÜNDÜZ S., Kurap G., Başaran S., Vandenabeele P., Lycke S.

4th WORLD CONFERENCE on DESIGN and ARTS - WCDA-2015, St. Petersburg, Russia, 26 - 28 June 2015, pp.19

• **Spectroscopic Identification of the Ancient Glasses excavated in Enez (Ancient Ainos) Turkey**

AKYÜZ S., ÇELİK S., Akyüz T., ÖZEL A., Kurap G., KECEL GÜNDÜZ S., Başaran S.

4th WORLD CONFERENCE on DESIGN and ARTS - WCDA-2015, St. Petersburg, Russia, 26 - 28 June 2015, pp.19

• **Conformational Preferences And Structural Elucidation Of Biologically Active Pentapeptide**

ÇELİK S., ÖZEL A., AKYÜZ S.

2nd International Conference on Global Trends in Pure and Applied Chemical Sciences, Hong Kong, Hong Kong, 3 - 04 October 2014, pp.109

• **NON LINEAR OPTICAL PROPERTIES OF PRIMIDONE**

ÖZEL A., ÇELİK S., KECEL GÜNDÜZ S., AKYÜZ S.

2nd International Conference on Global Trends in Pure and Applied Chemical Sciences, Hong Kong, Hong Kong, 3 - 04 October 2014, pp.108

• **THEORETICAL CONFORMATIONAL ANALYSIS OF CYCLO(PHE-PRO)**

ÇELİK S., ÖZEL A.

Turkish Physical Society 31 th International Physics Congress, Muğla, Turkey, 21 - 24 July 2014, pp.279

• **THE CONFORMATIONAL, VIBRATIONAL SPECTROSCOPIC STUDY AND NBO ANALYSIS ON INHIBITORY NEUROPEPTIDE**

KECEL S., ÇELİK S., ÖZEL A.

Turkish Physical Society 30 th International Physics Congress, Turkey, 1 - 04 September 2013, pp.360

• **THEORETICAL CONFORMATIONAL ANALYSIS AND STRUCTURE -ACTIVITY RELATIONSHIPS OF CYCLO(His-Gly)**

ÇELİK S., KECEL S., ÖZEL A.

Turkish Physical Society 30 th International Physics Congress, Turkey, 1 - 04 September 2013, pp.333

• **The Conformational and Vibrational Behavior of the Inhibitory Neuropeptide Derived From Beta-Endorphin**

KECEL S., ÇELİK S., ÖZEL A., AKYÜZ S.

15th European Conference on the Spectroscopy of Biological Molecules (ECSBM), United Kingdom, 1 - 04 August 2013, pp.169

• **The Conformational And Vibrational Behavior Of The Inhibitory Neuropeptide Derived From Beta-Endorphin**

KECEL GÜNDÜZ S., ÇELİK S., ÖZEL A., AKYÜZ S.

15th European Conference on the Spectroscopy of Biological Molecules (ECSBM), United Kingdom, 1 - 04 August 2013, pp.169

• **Quantum Chemical and Conformational Investigation On Hydrogen Bonding Interaction of H-Gly-Tyr-OH**

### **Dimer At Various Mutual Orientation**

ÇELİK S., KECEL S., ÖZEL A., AKYÜZ S.

15th European Conference on the Spectroscopy of Biological Molecules (ECSBM), United Kingdom, 1 - 04 August 2013, pp.158

- **Counterpoise Correction on The Geometries and Vibrational Frequencies of Acetazolamide Dimers**

ÖZEL A., KECEL S., ÇELİK S., AKYÜZ S.

SPEC 2012 - Shedding New Light on Disease, Thailand, 1 - 04 November 2012, pp.12

- **Conformational and Vibrational Studies of Sulpiride Dimer: Comparison with Monomer**

ÖZEL A., KECEL S., ÇELİK S., AKYÜZ S.

Turkish Physical Society 29 th International Physics Congress, Turkey, 1 - 04 October 2012, pp.382

- **Conformational Analysis Of L-Methionyl-L-Serine Dipeptide**

BIÇAK B., KECEL GÜNDÜZ S., ÖZEL A.

29th International Physics Congress, Muğla, Turkey, 5 - 08 September 2012, pp.1

- **Dft Computations, Vibrational Spectra, Monomer-Dimer And Conformational Analysis Of Gly-Gln Dipeptide**

KECEL S., ÖZEL A., ÇELİK S., AKYÜZ S.

Turkish Physical Society 29 th International Physics Congress, Turkey, 1 - 04 September 2012, pp.69

- **Conformational And Vibrational Studies Of Sulpiride Dimer: Comparison With Monomer**

ÖZEL A., KECEL S., ÇELİK S., AKYÜZ S.

Turkish Physical Society 29 th International Physics Congress, Turkey, 1 - 04 September 2012, pp.382

- **Theoretical Conformational Analysis of Monomer and Dimers of Gly-Tyr Dipeptide**

ÇELİK S., KECEL S., ÖZEL A., AKYÜZ S.

Turkish Physical Society 29 th International Physics Congress, Turkey, 1 - 04 September 2012, pp.377

- **Theoretical Conformational Analysis Of Monomer And Dimers Of Gly-Tyr Dipeptide**

ÇELİK S., KECEL S., ÖZEL A., AKYÜZ S.

Turkish Physical Society 29 th International Physics Congress, Turkey, 1 - 04 September 2012, pp.377

- **DFT Computations, Vibrational Spectra, Monomer-Dimer and Conformational Analysis of Gly-Gln Dipeptide**

KECEL S., ÖZEL A., ÇELİK S., AKYÜZ S.

Turkish Physical Society 29 th International Physics Congress, Turkey, 1 - 04 September 2012, pp.69

- **Conformational Analysis of L-Methionyl-L-Serine Dipeptide**

Biçak B., KECEL S., ÖZEL A.

29th International Physics Congress, Turkey, 1 - 04 September 2012, pp.369

- **Conformational Analysis of L-Alanyl-L-Glutamine Dipeptide**

Yurdatapan H., ÖZEL A., KECEL S.

29th International Physics Congress, Turkey, 1 - 04 September 2012, pp.457

- **Conformational and Vibrational Spectral Analysis of Glycyl-Glutamine Dipeptide, Based on IR, RAMAN and DFT Calculations**

KECEL S., ÖZEL A., ÇELİK S., AKYÜZ S.

31th European Congress on Molecular Spectroscopy (EUCMOS 2012), Romania, 1 - 04 August 2012, pp.31

- **Conformational Preferences And Vibrational Spectra Of Glycyl-Tyrosine Dipeptide**

ÇELİK S., KECEL S., ÖZEL A., AKYÜZ S.

31th European Congress on Molecular Spectroscopy (EUCMOS 2012), Romania, 1 - 04 August 2012, pp.29

- **Conformational And Vibrational Spectral Analysis Of Glycyl-Glutamine Dipeptide, Based On Ir, Raman And Dft Calculations**

KECEL S., ÖZEL A., ÇELİK S., AKYÜZ S.

31th European Congress on Molecular Spectroscopy (EUCMOS 2012), Romania, 1 - 04 August 2012, pp.31

- **Conformational Preferences and Vibrational Spectra of Glycyl-Tyrosine Dipeptide**

ÇELİK S., KECEL S., ÖZEL A., AKYÜZ S.

31th European Congress on Molecular Spectroscopy (EUCMOS 2012), Romania, 1 - 04 August 2012, pp.29

- **Structural, Vibrational And Conformational Analysis of Primidone**

ÖZEL A., ÇELİK S., KECEL S., AKYÜZ S.

28th International Physics Congress, Turkey, 1 - 04 September 2011, pp.512

- **Vibrational And Conformational Analysis of Acetazolamide -H<sub>2</sub>O Complexes**  
KECEL S., ÖZEL A., ÇELİK S., AKYÜZ S.  
28th International Physics Congress, Turkey, 1 - 04 September 2011, pp.82
- **Conformational Restrictions And Structural Investigation Of Biologically Active Dipeptide**  
ÇELİK S., ÖZEL A., KECEL S., AKYÜZ S.  
Turkish Physical Society 28 th International Physics Congress, Turkey, 1 - 04 September 2011, pp.53-54
- **Conformational Restrictions and Structural Investigation of Biologically Active Dipeptide**  
ÇELİK S., ÖZEL A., KECEL S., AKYÜZ S.  
Turkish Physical Society 28 th International Physics Congress, Turkey, 1 - 04 September 2011, pp.53-54
- **Vibrational and Conformational Analysis of Primidone and Primidone-H<sub>2</sub>O Complexes**  
ÖZEL A., ÇELİK S., KECEL S., AKYÜZ S.  
Colloquium Spectroscopicum Internationale XXXVII, Brazil, 1 - 04 August 2011, pp.40
- **Vibrational And Conformational Analysis Of Pyroglutamyl-Asparagine Amide ( Pglu-Asn-NH<sub>2</sub> ) Dipeptide**  
KECEL S., ÖZEL A., ÇELİK S., AKYÜZ S.  
14th European Conference on the Spectroscopy of Biological Molecules, Portugal, 1 - 04 August 2011, pp.2
- **Conformational Analysis Of Cyclo(Gly-Leu):Comparison Of Experimental And Dft Vibrational Spectra**  
ÇELİK S., ÖZEL A., KECEL S., AKYÜZ S.  
14th European Conference on the Spectroscopy of Biological Molecules, Portugal, 1 - 04 August 2011, pp.1
- **Structural And Vibrational Study On Acetazolamide And Acetazolamide-H<sub>2</sub>O Complexes**  
ÖZEL A., KECEL S., ÇELİK S., AKYÜZ S.  
Colloquium Spectroscopicum Internationale XXXVII, Brazil, 1 - 04 August 2011, pp.40
- **Conformational Analysis of Cyclo(Gly-Leu):Comparison of Experimental and DFT Vibrational Spectra**  
ÇELİK S., ÖZEL A., KECEL S., AKYÜZ S.  
14th European Conference on the Spectroscopy of Biological Molecules, Portugal, 1 - 04 August 2011, pp.1
- **Vibrational And Conformational Analysis Of Primidone And Primidone-H<sub>2</sub>O Complexes**  
ÖZEL A., ÇELİK S., KECEL S., AKYÜZ S.  
Colloquium Spectroscopicum Internationale XXXVII, Brazil, 1 - 04 August 2011, pp.40
- **Structural and Vibrational Study on Acetazolamide and Acetazolamide-H<sub>2</sub>O Complexes**  
ÖZEL A., KECEL S., ÇELİK S., AKYÜZ S.  
Colloquium Spectroscopicum Internationale XXXVII, Brazil, 1 - 04 August 2011, pp.40
- **Vibrational and conformational analysis of Pyroglutamyl-asparagine amide ( PGLU-Asn-NH<sub>2</sub> ) dipeptide**  
KECEL S., ÖZEL A., ÇELİK S., AKYÜZ S.  
14th European Conference on the Spectroscopy of Biological Molecules, Portugal, 1 - 04 August 2011, pp.2
- **Three – Dimensional Structure and Quantum Chemical Calculations of Some Dipeptides'**  
ÇELİK S., ÖZEL A., AKYÜZ S., KECEL S., Agaeva G.  
27 th International Physics Congress, Turkey, 1 - 04 September 2010, pp.436
- **Quantum Chemical Calculation and Conformational Analysis of Some Drug-Based Dipeptides'**  
KECEL S., ÖZEL A., AKYÜZ S., ÇELİK S., Agaeva G.  
27 th International Physics Congress, Turkey, 1 - 04 September 2010, pp.463
- **Micro Raman spectroscopic investigation of the interaction of cultured HCT116 colon cancer cells with alpha-difluoromethylornithine (DFMO), an irreversible inhibitor of ornithine decarboxylase**  
Akyuz S., Özel A., Balcı K., Akyuz T., Coker A., Damla Arisan E., Palavan-Unsal N., Ozalpan A.  
30th European Congress on Molecular Spectroscopy (EUCMOS 2010), Florence, Italy, 29 August - 03 September 2010, no.21, pp.107
- **Structural and spectroscopic elucidation of L-proline tyrosine (L-pro-tyr) dipeptide**  
KECEL S., ÖZEL A., AKYÜZ S., ÇELİK S., Agaeva G.  
30th European Congress on Molecular Spectroscopy (EUCMOS 2010), Italy, 1 - 04 August 2010, pp.133
- **Conformational preferences, experiment and theoretical vibrational spectra of cyclo(gly-val) dipeptide**  
ÇELİK S., ÖZEL A., AKYÜZ S., KECEL S., Agaeva G.  
30th European Congress on Molecular Spectroscopy (EUCMOS 2010), Italy, 1 - 04 August 2010, pp.131
- **Combined micro-Raman and EDXRF study of characterization of mineralized tissue of human bone of osteoporosis patients**  
Özel M. S. , ÖZEL A., AKYÜZ S., Akyüz T.

30th European Congress of Molecular Spectroscopy, Italy, 1 - 04 August 2010, pp.1

- **Conformational Analysis And Vibrational Spectroscopic Investigation of L-Alanyl-L-Glutamine Dipeptide**  
KECEL S., ÖZEL A., AKYÜZ S., ÇELİK S.  
XIII European Conference on the Spectroscopy of Biological Molecules, Italy, 1 - 04 September 2009, pp.79
- **Conformational Analysis, FT-IR and Raman Spectroscopic Study of Cyclo (His-Phe) Dipeptide**  
ÇELİK S., ÖZEL A., AKYÜZ S., KECEL S.  
XIII European Conference on the Spectroscopy of Biological Molecules, Italy, 1 - 04 August 2009, pp.70
- **Conformational analysis and vibrational spectroscopic investigation of L-Alanyl- L-Glutamine dipeptide**  
KECEL S., ÖZEL A., AKYÜZ S., ÇELİK S.  
XIII European Conference on the Spectroscopy of Biological Molecules, Italy, 1 - 04 August 2009, pp.79
- **Micro Raman Spectroscopic Investigation of the interaction of cultured Hct116 Colon Cancer Cells With Roscovitine**  
Akyuz S., Akyuz T., Damla Arisan E., Balci K., Coker A., Özel A., Ozalpan A.  
5th International Conference on Advanced Vibrational Spectroscopy, Melbourne, Australia, 12 - 17 July 2009, no.31, pp.86
- **FT-IR , Raman Spectroscopic and Quantum Chemical Investigations of Zinc Halide Complexes of 3-aminoquinoline**  
ÖZEL A., AKYÜZ S., ÇELİK S., KECEL S.  
5th International Conference on Advanced Vibrational Spectroscopy, Australia, 1 - 04 July 2009, pp.146
- **FT-IR , Micro-Raman Spectroscopic And Quantum Chemical Investigation of Zinc Halide Complexes with 3-Aminoquinoline'**  
ÖZEL A., AKYÜZ S., ÇELİK S., KECEL S.  
. International Conference on Advanced Vibrational Spectroscopy (ICAVS-5), Australia, 1 - 04 July 2009, pp.146
- **Infrared-Spectra and Vibrational Assignment of 2,4-Dimethylquinoline, 2,6 Dimethylquinoline, 2,7-Dimethylquinoline with Ab-Initio Calculations**  
KECEL S., ÖZEL A.  
International Physics Congress 2007, Turkey, 1 - 04 August 2007, pp.421
- **Fourier Transform Infrared and Quantum Chemical Study of Zinc Halide Complexes with 2,2'-Biquinoline**  
ÖZEL A., KECEL S., AKYÜZ S.  
The Fourth International Conference on Advanced Vibrational Spectroscopy (ICAVS-4), Greece, 1 - 04 June 2007, pp.165
- **Theoretical and Vibrational Analysis of 3-, 5-, 6- and 8-Aminoquinoline**  
ÖZEL A., ÇELİK S., AKYÜZ S.  
4th International Conference on Advanced Vibrational Spectroscopy, Greece, 1 - 04 June 2007, pp.247
- **Vibrational Analysis and Quantum Chemical Calculation of 2,2'-Bipyridine Zn(II) Cu(II)Fe(II) Halide Complexes'**  
ÖZEL A., KECEL S., AKYÜZ S.  
Australian Institute of Physics (AIP) 17th National Congress 2006, Australia, 1 - 04 December 2006, pp.146
- **Vibrational Analysis and Quantum Chemical Calculations of 2,2-Bipyridine Zinc(II) Halide Complexes'**  
ÖZEL A., KECEL S., AKYÜZ S.  
XXVII European Congress on Molecular Spectroscopy, Turkey, 1 - 04 September 2006, pp.278
- **Theoretical Studies of Molecular and Vibrational Spectra of free and Hydrogen Bonded Complexes of Sulfanilamide**  
Öğrünç İldiz G., Akalin E., Özel A., Akyüz S.  
XXVIII European Congress on Molecular Spectroscopy, İstanbul, Turkey, 1 - 04 Eylül 2006, pp.1
- **28- 'Molecular Structure and Vibrational Assignment of 2-,4-,6-Methyl Quinoline by Density Functional Theory (DFT) and Ab-initio Hartree-Fock (HF) Calculation.**  
ÖZEL A., KECEL S., AKYÜZ S.  
The Third International Conference on Advanced Vibrational Spectroscopy' (ICAVS-3), United States Of America, 1 - 04 August 2005, pp.272
- **Molecular Structure and Vibrational Assignment of 2-,4-,6-Methyl Quinoline by Density Functional Theory (DFT) and Ab-initio Hartree-Fock (HF) Calculation**  
ÖZEL A., KECEL S., AKYÜZ S.

The Third International Conference on Advanced Vibrational Spectroscopy' (ICAVS-3), United States Of America, 1 - 04 August 2005, pp.272

- **Vibrational Analysis of Hydralazine**

ÖZEL A., Can A., YALÇINKAYA O., YILMAZ A., AKYÜZ S.

XXVII European Congress on Molecular Spectroscopy, Poland, 1 - 04 September 2004, pp.1

- **Force Field and Assignment of the Vibrational Spectra of 2,2'-Biquinoline**

ÖZEL A., AKYÜZ S.

XXVI European Congress on Molecular Spectroscopy, France, 1 - 04 September 2002, pp.1

- **Infrared Spectra and Normal Coordinate Analysis of Quinoline and Quinoline Complexes**

ÖZEL A., AKKAYA Y., AKYÜZ S.

XXV European Congress on Molecular Spectroscopy, Portugal, 1 - 04 August 2000, pp.405

- **Calculation and Analysis of IR Spectra of 2-Aminopyridine**

AKKAYA Y., AKALIN E., ÖZEL A., AKYÜZ S.

XXIV European Congress on Molecular Spectroscopy, Czech Republic, 1 - 04 August 1998, pp.69

- **Calculation And Analysis Of Ir Spectrum Of 2-Aminopyridine**

AKKAYA Y., AKALIN E., ÖZEL A., Akyüz S.

XXIV European Congress on Molecular Spectroscopy, Czech Republic, 1 - 04 Ağustos 1998, pp.69

- **Vibrational Spectroscopic Investigation of Mono and Tris-2,2'-BipyridylMetal (II)Tetracyanonickellate Clathrates**

ÖZEL A., AKYÜZ S., Davies J. E. D. , Bakiler M.

Lamp Symposium on Laser, Turkey, 1 - 04 September 1997, pp.37

- **Vibrational Spectroscopic Investigation of Tris-2,2'-Bipridyl Metal (II) Tetracyanonickellate Clathrates**

AKYÜZ S., ÖZEL A., Davies J. E. D. , Bakiler M.

VI th International Seminar on Inclusion Compounds, Turkey, 1 - 04 August 1995, pp.62

- **Structural Investigation of 1,4-Diaminobenzene Complexes of Nickel and Cadmium Chloride by FT-IR and Raman Spectroscopy**

ÖZEL A., AKYÜZ S., Davies J. E. D.

EUCMOS XXII, 22nd European Congress on Molecular Spectroscopy, Germany, 1 - 04 September 1994, pp.141

- **Vibrational Spectroscopic Study of 2,2'-Biquinoline by Smectite Group Clay Minerals From Turkey**

AKYÜZ S., Akyüz T., Davies J. E. D. , ÖZEL A.

4th International Summer School on Supramolecular Chemistry, Poland, 1 - 04 June 1993, pp.43

## Supported Projects

ÖZEL A., 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 - Continues

ÇELİK S., ÖZEL A., AKYUZ S., ALBAYRAK A. T. , Project Supported by Higher Education Institutions, The Role of Multivariate Analysis on the Interpretation of FTIR and Raman Spectra, 2020 - Continues

KECEL GÜNDÜZ S., BIÇAK B., ÖZEL A., Project Supported by Higher Education Institutions, Structural analysis molecular dynamics and docking calculations of skin protective tripeptide and design characterization cytotoxicity studies of its PLGA nanoparticles, 2019 - Continues

ÖZEL A., AKYÜZ S., DEMİRGAĞ A. D. , Project Supported by Higher Education Institutions, Teorik Moleküler Modelleme ve Deneysel FT-IR ve Raman Spektroskopisi Teknikleri ile Tarihi Eserlerin İncelenmesi, 2019 - Continues

ALBENİZ İ., ÇELİKOK Y., ERTAŞ T., TÜRKER ŞENER L., ÖZEL A., KECEL GÜNDÜZ S., ALBENİZ G., Project Supported by Higher Education Institutions, MCF-7 ve MDA-MB231 Meme Kanseri Hücre Soyları Üzerinde Anti-Proliferatif Etkili Metforminin Moleküler Modelleme Çalışmaları, 2018 - Continues

Özel A., Akyüz S., Çelik S., Kecel Gündüz S., Darıcı H., Karaöz E., Ulukaya E., TÜBİTAK International Bilateral Joint Cooperation Program Project, Piriñ Kepeği Türevi Pentapeptidinin Konformasyon Davranışının ve D-Amino Asit Süstitüsyonlarının Antikanser Aktivitesi Üzerindeki Etkisinin Değerlendirilmesi: Antikanser İlaç Keşfine Yönelik Çıkarımlar, 2020 - 2022

ÖZEL A., Project Supported by Higher Education Institutions, The Importance of Ionic Liquids and Applications on Their Molecular Modeling, 2019 - 2019

ÖZEL A., KECEL GÜNDÜZ S., BIÇAK B., KÖKCÜ Y., Project Supported by Higher Education Institutions, Papain



Loaded Polycaprolactone Nanoparticles Insilico and Invitro Studies, 2018 - 2019

KECEL GÜNDÜZ S., BIÇAK B., ÖZEL A., Project Supported by Higher Education Institutions, Computational design of PheTyr dipeptide and preparation characterization cytotoxicity studies of PheTyr dipeptide loaded PLGA nanoparticles for the treatment of hypertension, 2018 - 2019

ÖZEL A., KALKAN N., ÇELİK S., Project Supported by Higher Education Institutions, Conduction mechanisms molecular modelling and microRaman studies of TlInSe<sub>2</sub> chalcogenide crystal, 2018 - 2019

ÖZEL A., KECEL GÜNDÜZ S., BIÇAK B., Project Supported by Higher Education Institutions, Novel NAC loaded poly lactidecoglycolide acid nanoparticles for cataract treatment preparation characterization evaluation of structure cytotoxicity and molecular docking studies, 2018 - 2019

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

KECEL GÜNDÜZ S., 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

ÖZEL A., ÇELİK S., Project Supported by Higher Education Institutions, Val-Met dipeptidinin Moleküler Mekanik ve Kuantum Kimyasal Yöntemlerle Konformasyon Analizi, 2015 - 2019

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

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

KECEL GÜNDÜZ S., ÖZEL A., ÇELİK S., Project Supported by Higher Education Institutions, Nanobiomaterials Science Development and Evaluation, 2017 - 2018

ÖZEL A., 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

ÖZEL A., 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

ÖZEL A., Project Supported by Higher Education Institutions, Structural and Vibrational Study on Monomer and Dimer Forms and Water Clusters of Acetazolamide, 2014 - 2018

GEZER M., TAŞ F., SAYLAN S., AKALIN E., ÖZEL A., Project Supported by Higher Education Institutions, Ulusal Kırmızı Altı ve Raman Spektroskopi Veritabanı ve Ulusal Yazılımı Geliştirilmesi, 2014 - 2018

KECEL GÜNDÜZ S., ÖZEL A., Project Supported by Higher Education Institutions, MOLECULAR DYNAMIC MOLECULAR DOCKING HOMOLUMO MEP AND UVVIS ANALYSIS OF PHETYR DIPEPTIDE FOR THE TREATMENT OF HYPERTENSION, 2017 - 2017

ÇELİK S., KECEL GÜNDÜZ S., ALBAYRAK A. T. , AKYÜZ S., ÖZEL A., Project Supported by Higher Education Institutions, MOLECULAR MODELLING AND VIBRATIONAL INVESTIGATIONS OF AMMONIUM-BASED IONIC LIQUID (CLTOAB), 2017 - 2017

ÇELİK S., ÖZEL A., Project Supported by Higher Education Institutions, TİROZİN İÇEREN HALKA VE AÇIK UÇLU BAZI DİPEPTİTLERİN TEORİK KONFORMASYON ANALİZİ, 2017 - 2017

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

ÖZEL A., ÇELİK S., AKYÜZ S., Project Supported by Higher Education Institutions, CONFORMATIONAL STABILITY AND SPECTROSCOPIC ANALYSIS OF THE CYCLIC HEPTAPEPTIDE, 2016 - 2016

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

KECEL GÜNDÜZ S., ÖZEL A., AKYÜZ S., Project Supported by Higher Education Institutions, Spectroscopic Investigations and Quantum Chemical Computational Study of Antihypertensive Dipeptide, 2016 - 2016

ÖZEL A., Project Supported by Higher Education Institutions, Met-Tyr Dipeptidinin Konformasyon Analizi ve Kuantum Kimyasal Yöntemleri ile Titreşim Frekans ve Kiplerinin İncelenmesi, 2014 - 2016

ÖZEL A., Project Supported by Higher Education Institutions, Micro-Raman and FT-IR spectroscopic analysis of ancient

terra-cotta findings from ancient Ainos (Turkey), 2015 - 2015

ÖZEL A., Project Supported by Higher Education Institutions, Serbest etilparaben molekülünün konformasyon analizi ve kuantum kimyasal yöntemleri ile titreşim frekans ve kiplerinin incelenmesi, 2014 - 2015

ÖZEL A., Project Supported by Higher Education Institutions, Non Linear Optical Properties of Primidone, 2014 - 2014

ÖZEL A., Project Supported by Higher Education Institutions, Infrared and Raman spectroscopic and quantum chemical investigations of zinc halide complexes of 3-aminoquinoline, 2011 - 2013

ÖZEL A., AKKAYA Y., BALCI K., Project Supported by Higher Education Institutions, IR VE RAMAN SPEKTROSKOPİSİ YÖNTEMLERİ İLE MOLEKÜLER YAPILARIN İNCELENMESİ, 2008 - 2013

ÖZEL A., Project Supported by Higher Education Institutions, COUNTERPOISE CORRECTION ON THE GEOMETRIES AND VIBRATIONAL FREQUENCIES OF ACETAZOLAMIDE DIMERS, 2012 - 2012

ÖZEL A., Project Supported by Higher Education Institutions, Vibrational and conformational analysis of Primidone and Primidone-H<sub>2</sub>O Complexes, 2011 - 2011

ÖZEL A., Project Supported by Higher Education Institutions, BAZI DİPEPTİTLERİN KONFORMASYON ANALİZİ VE DFT YÖNTEMİ İLE TİTREŞİM FREKANS VE KİPLERİNİN İNCELENMESİ, 2010 - 2011

ÖZEL A., Project Supported by Higher Education Institutions, 2,2'-Biquinolin ve Cu Halid Kompleksinin Fourier Transform , Raman Spektroskopik ve Kuantum Kimyasal Hesaplamaları, 2008 - 2011

ÖZEL A., Project Supported by Higher Education Institutions, 2,2'-Bipridin Bakır Halid Komplekslerinin (Cu(2,2'-Bipyridine)<sub>2</sub> (X=Cl, Br)) Titreşimsel Analiz Ve Kuantum Kimyasal Hesaplamaları, 2008 - 2011

ÖZEL A., Project Supported by Higher Education Institutions, Combined micro-Raman and EDXRF study of characterization of mineralized tissue of human bone of osteoporosis patients, 2010 - 2010

ÖZEL A., Project Supported by Higher Education Institutions, PRO-TYR GLU-ASN ve ALA-GLN DİPEPTİTLERİNİN KONFORMASYON ANALİZİ VE AB INITIO DFT YÖNTEMLERİ İLE TİTREŞİM FREKANS VE KİPLERİNİN İNCELENMESİ, 2009 - 2010

ÖZEL A., Project Supported by Higher Education Institutions, FT-IR , MICRO-RAMAN SPEKTROSKOPİK AND QUANTUM CHEMICAL INVESTIGATION OF ZINC HALIDE COMPLEXES WITH 3-AMINOQUINOLINE, 2009 - 2009

ÖZEL A., Project Supported by Higher Education Institutions, Vibrational Spectroscopic Investigation of Free and Coordinated 5- Aminoquinoline:The IR, Raman and DFT Studies, 2008 - 2008

## Patent

Çelik S., ÖZEL A., RAMAN SPEKTROSKOPİ YÖNTEMİNİN KANSER TANISINDA KULLANILMASI, Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration, 2020

Çelik S., ÖZEL A., ANTİMİKROBİYAL ETKİ VE ANTİOKSİDAN AKTİVİTEYE SAHİP VANİLİN TÜREVİ İMİN BİLEŞİĞİNİN SENTEZİ VE MOLEKÜLER MODELLEMESİ, Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration, 2019

Çelik S., ÖZEL A., ANTİBAKTERİYEL AKTİVİTEYE SAHİP KAPROLAKTAM-GLİSİN İYONİK SIVISI, MOLEKÜLER MODELLEMESİ VE KULLANIMLARI, Patent, CHAPTER C Chemistry; Metallurgy, Initial 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, Initial 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, Initial Registration, 2018

## Memberships / Tasks in Scientific Organizations

Türk Fizik Derneği, Member, 2011 - Continues

## Scientific Refereeing

Arabian Journal of Chemistry, SCI Journal, September 2015

Journal of Molecular Structure, 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  
Project Supported by Higher Education Institutions, September 2007

### **Invited 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  
30th European Congress on Molecular Spectroscopy (EUCMOS 2010), Attendee, Italy, 2010  
27 th International Physics Congress, Attendee, Turkey, 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 Eropcan Congress on Molecular Spectroscopy, Attendee, Germany, 1994  
4th International Summer School on Supramoleclar Chemistry, Attendee, Polanya, Turkey, 1993

## **Citations**

Total Citations (WOS):313

h-index (WOS):11

## **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