

## Assoc. Prof. Sefa ÇELİK

### Personal Information

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### Education Information

Doctorate, İstanbul Üniversitesi, Faculty of Science, Fizik / Atom Ve Molekül Fiziği, Turkey 2007 - 2011

Postgraduate, İstanbul Üniversitesi, Faculty of Science, Fizik / Atom Ve Molekül Fiziği, Turkey 2004 - 2007

Undergraduate, İstanbul Üniversitesi, Faculty of Science, Fizik, Turkey 2000 - 2004

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, Protein-Ligand Docking and Molecular Dynamics (MD) Simulations-6th

International BAU Drug Design Congress (Workshop), Bahçeşehir University School of Medicine, 2018

Education Management and Planning, Eğiticinin Eğitimi, Uludağ Üniversitesi, 2018

Education Management and Planning, Ab initio Modeling in Solid State Chemistry-MSSC2015 (International Summer School), Imperial College London, 2015

Education Management and Planning, İş Sağlığı ve Güvenliği, İstanbul Üniversitesi, 2014

Education Management and Planning, Arkeolojik sanat eserlerinin Raman spektroskopisi ile incelenmesi, Belçika / Ghent Üniversitesi, 2012

Education Management and Planning, Teorik Konformasyon Analiz Yöntemiyle Biyolojik Moleküllerin Yapı -Fonksiyon İlişkilerini İnceleme, Azerbaycan / Bakü Qafqaz (Kafkas) Üniversitesi, 2008

Education Management and Planning, Bilgisayar İşletmenlik Sertifikası, Özel Avcılar Akademi, 1998

### Dissertations

Doctorate, Bazı dipeptitlerin konformasyon analizi ve DFT yöntemi ile titreşim frekans ve kiplerinin incelenmesi, İstanbul University, Faculty of Science, Fizik / Atom Ve Molekül Fiziği, 2011

Postgraduate, Serbest yapıdaki 3-,5-,6-,8- Aminokinolin moleküllerinin titreşim frekansı ve kiplerinin kuantum kimyasal yöntem ve kırmızı-altı spektroskopisi ile incelenmesi, İstanbul University, Faculty of Science, Fizik / Atom Ve Molekül Fiziği, 2007

### Research Areas

Physics, Atomic and Molecular Physics, Theory of Atoms and Molecules, Atomic and Molecular Interactions, Natural Sciences

## Academic Titles / Tasks

Associate Professor, Istanbul University, Faculty Of Science, Department Of Physics, 2019 - Continues

Associate Professor, İstanbul University-Cerrahpaşa, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2018 - 2019

Lecturer PhD, Istanbul University, Elektrik-Elektronik Mühendisliği, 2011 - 2018

Lecturer, İstanbul Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2007 - 2011

## Academic and Administrative Experience

Ders Komisyonu Üyesi, Istanbul University, Faculty Of Science, Department Of Physics, 2021 - Continues

Piyasa Araştırma Komisyonu, Istanbul University, Faculty Of Science, Department Of Physics, 2021 - Continues

Dikey Geçiş Komisyon Üyesi, Istanbul University, Faculty Of Science, Department Of Physics, 2020 - Continues

İstanbul Üniversitesi, Sağlık Kültür Ve Spor Daire Başkanlığı, Uzman Üye, 2017 - 2017

## Courses

İLERİ FİZİK UYGULAMALARI II, Undergraduate, 2020 - 2021

FİZİK-IV, Undergraduate, 2020 - 2021

BİYOİNFORMATİKTE BAZI ALGORİTMALAR VE UYGULAMALARI, Doctorate, 2020 - 2021

İYONİK SIVILARIN FİZİĞİ VE İLAÇ -BİYOTEKNOLOJİ ALANINDAKİ UYGULAMALARI, Postgraduate, 2019 - 2020

FİZİK IV, Undergraduate, 2019 - 2020

BİLGİSAYAR I, Undergraduate, 2020 - 2021

İLERİ FİZİK UYGULAMALARI I, Undergraduate, 2020 - 2021

BİLGİSAYAR I, Undergraduate, 2020 - 2021

Bilgisayar I, Undergraduate, 2019 - 2020

FİZİK I, Undergraduate, 2019 - 2020

FİZİK I, Undergraduate, 2019 - 2020

Fizik I, Undergraduate, 2019 - 2020

Fizik II (Bilgisayar Mühendisliği Bölümü), Undergraduate, 2016 - 2017

Fizik I (Bilgisayar Mühendisliği Bölümü), Undergraduate, 2016 - 2017, 2017 - 2018

Fizik I (Elektrik-Elektronik Mühendisliği Bölümü), Undergraduate, 2017 - 2018

Fizik II (Endüstri Mühendisliği Bölümü), Undergraduate, 2016 - 2017

Fizik I (Kimya Bölümü), Undergraduate, 2017 - 2018

Fizik I (Endüstri Mühendisliği Bölümü), Undergraduate, 2016 - 2017, 2017 - 2018

Fizik II (Elektrik-Elektronik Mühendisliği Bölümü), Undergraduate, 2016 - 2017

Fizik II (Makine Mühendisliği Bölümü), Undergraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016

Fizik II (Kimya Mühendisliği Bölümü), Undergraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016

Fizik I (Elektrik-Elektronik Mühendisliği Bölümü-İkinci öğretim), Undergraduate, 2014 - 2015, 2015 - 2016, 2016 - 2017

Fizik I (Elektrik-Elektronik Mühendisliği Bölümü- örgün öğretim), Undergraduate, 2016 - 2017

Fizik II ( İnşaat Mühendisliği Bölümü), Undergraduate, 2014 - 2015, 2015 - 2016

Fizik II (Deniz Ulaştırma İşletme Mühendisliği Bölümü), Undergraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016

Fizik I (İnşaat Mühendisliği Bölümü), Undergraduate, 2014 - 2015, 2015 - 2016

Fizik I (Kimya Mühendisliği Bölümü), Undergraduate, 2014 - 2015, 2015 - 2016

Fizik I (Deniz Ulaştırma İşletme Mühendisliği Bölümü), Undergraduate, 2014 - 2015, 2015 - 2016

Fizik I (Makine Mühendisliği Bölümü), Undergraduate, 2014 - 2015, 2015 - 2016

Fizik I, Undergraduate, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014

Fizik I, Undergraduate, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014

Fizik II, Undergraduate, 2012 - 2013

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Fizik II, Undergraduate, 2010 - 2011  
Fizik I, Undergraduate, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012

## Advising Theses

ÇELİK S., Val-Met Dipeptidinin Moleküler Mekanik ve Kuantum Kimyasal Yöntemlerle Konformasyon Analizi (Eş Danışman), Postgraduate, V.Durak(Student), 2019

## Jury Memberships

Post Graduate, Post Graduate, İstanbul Üniversitesi-Cerrahpaşa, August, 2021  
Post Graduate, Post Graduate, İstanbul Üniversitesi-Cerrahpaşa, August, 2021  
Doctorate, Doktora Tez Savunma, İstanbul Üniversitesi-Cerrahpaşa Lisansüstü Eğitim Enstitüsü Elektrik-Elektronik Mühendisliği, January, 2020  
Post Graduate, Yüksek Lisans Tez Savunma, İstanbul Üniversitesi Fen Bilimleri Enstitüsü Fizik Anabilim Dalı, July, 2019

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

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI Expanded)
- IV. **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 (Journal Indexed in SCI Expanded)
- V. **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 (Journal Indexed in SCI)

- VI. **Structural and spectral analysis of anticancer active cyclo(Ala-His) dipeptide**  
ÇELİK S., Yılmaz G., ÖZEL A., Akyuz S.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, 2020 (Journal Indexed in SCI)
- VII. **Using Raman Spectroscopy to Investigate the Molecular Level Characteristics of Endometriosis**  
Akyuz S., ÇELİK S., USTA A. T., ÖZEL A., Yılmaz G., Yılmaz S.  
OPTICS AND SPECTROSCOPY, vol.128, no.8, pp.1318-1327, 2020 (Journal Indexed in SCI)
- VIII. **Molecular Structure, Vibrational Spectra, Molecular Docking, and ADMET Study of Cellulose Triacetate II**  
ÇELİK S., Demirag A. D., ÖZEL A., Akyuz S.  
OPTICS AND SPECTROSCOPY, vol.128, no.8, pp.1138-1150, 2020 (Journal Indexed in SCI)
- IX. **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)
- X. **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 (Journal Indexed in SCI Expanded)
- XI. **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., Karaöz E.  
Journal of Biomolecular Structure and Dynamics, vol.38, no.3, pp.756-770, 2020 (Journal Indexed in SCI Expanded)
- XII. **Synthesis, molecular modelling, FT-IR, Raman and NMR characterization, molecular docking and ADMET study of new nickel(II) complex with an N4-tetradentate thiosemicarbazone**  
Eğlence-Bakır S., Celik S., Şahin M., Ozel A., Akyuz S., Ülküseven B.  
Journal of Biomolecular Structure and Dynamics, 2020 (Journal Indexed in SCI)
- XIII. **Molecular Modeling, Dimer Calculations, Vibrational Spectra, and Molecular Docking Studies of 5-Chlorouracil**  
Akalm E., Çelik S., Akyüz S.  
JOURNAL OF APPLIED SPECTROSCOPY, vol.86, pp.975-985, 2020 (Journal Indexed in SCI)
- XIV. **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)
- XV. **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 (Journal Indexed in SCI Expanded)
- XVI. **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 (Journal Indexed in SCI Expanded)
- XVII. **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 (Journal Indexed in SCI Expanded)
- XVIII. **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)

- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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 (Journal Indexed in SCI Expanded)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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 (Journal Indexed in SCI)

### **XXXIII. 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)

## **Articles Published in Other Journals**

- I. **Alzheimer Hastalığı Tedavisinde Etkili Cyclo(Phe-Phe) Dipeptidinin Konformasyon Analizi**  
Çelik S., Akyüz S., Özel A.  
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.1, pp.1-8, 2021 (National Refreed University Journal)
- II. **3-Dimensional Molecular Structure of Cyclo (Trp-Trp) Dipeptide with Antimicrobial and Anticancer Activity**  
Çelik S., Akyüz S., Özel A.  
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.26, no.2, pp.80-87, 2021 (National Refreed University Journal)
- III. **Cyclo(Tyr-Tyr) Dipeptidinin Teorik IR, Raman ve Moleküler Yapı Analizi**  
Çelik S., Akyüz S., Özel A.  
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.25, no.2, pp.401-409, 2021 (National Refreed University Journal)
- IV. **Biological evaluation and pharmacokinetic profiling of a coumarin-benzothiazole hybrid as a new scaffold for human gliomas**  
Gabr M. T. , Çelik S., Akyüz S., Özel A.  
Medicine in Drug Discovery, vol.1, pp.1-18, 2020 (Refereed Journals of Other Institutions)
- V. **Molecular Mechanic Studies on the Zwitterionic and Neutral Conformation Stability of Biological Active Peptide**  
KECEL GÜNDÜZ S., ÇELİK S.  
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.1, pp.1-7, 2017 (National Refreed University Journal)
- VI. **Conformational Analysis of Cyclo(Tyr-Cys) and Cyclo(Phe-Cys) Dipeptides**  
ÇELİK S., KECEL GÜNDÜZ S.  
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.1, pp.1-5, 2017 (National Refreed University Journal)
- VII. **Non-Linear Optical Properties of Primidone**  
ÖZEL A., ÇELİK S., AKYÜZ S.  
ASIAN JOURNAL OF CHEMISTRY, vol.27, no.5, pp.1932-1934, 2015 (Refereed Journals of Other Institutions)
- VIII. **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 (International Refereed University Journal)

## **Books & Book Chapters**

- I. **Characterization and Spectroscopic Applications of Metal Foams From New Lightweight Materials**  
Çelik S., Beköz Üllen N., Akyüz S., Karabulut G., Özel A.  
in: Handbook of Research on Advancements in the Processing, Characterization, and Application of Lightweight Materials, Kaushik Kumar,B. Sridhar Babu,J. Paulo Davim, Editor, IGI Global, New York, pp.1-25, 2021
- II. **Shedding Light on New Drug Designs by Modeling Peptide Structures via Quantum Chemical Methods**

### **in the Health Field**

Çelik S., Kecel Gündüz S., Akyüz S., Özel A.

in: Emerging Trends of Research in Chemical Sciences, Tanmoy Chakraborty, Shalini Chaudhary, Editor, Apple Academic Press, Florida, pp.123-145, 2021

### **III. Role of Alloying Elements on Powder Metallurgy Steels and Spectroscopic Applications on Them**

Çelik S., Beköz Üllen N., Akyüz S., Özel A.

in: Advanced Surface Coating Techniques for Modern Industrial Applications, Supriyo Roy, Goutam Kumar Bose, Editor, IGI Global, New York, pp.226-246, 2020

### **IV. The Role of Multivariate Analysis on the Interpretation of FTIR and Raman Spectra**

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

in: Design of Experiments for Chemical, Pharmaceutical, Food, and Industrial Applications, 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

### **V. The Importance of Anthraquinone and Its Analogues and Molecular Docking Calculation**

ÇELİK S., ÖZKÖK F., AKYÜZ S., ÖZEL A.

in: Computational Models for Biomedical Reasoning and Problem Solving, Chung-Hao C., Sen-Ching Samson C., Editor, IGI Global, Hershey, pp.177-205, 2019

### **VI. The Importance of Ionic Liquids and Applications on Their Molecular Modeling**

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

in: Computational Models for Biomedical Reasoning and Problem Solving, Chung-Hao C., Sen-Ching Samson C., Editor, IGI Global Publications, Hershey, pp.206-230, 2019

### **VII. Practical aspects**

KECEL GÜNDÜZ S., ÇELİK S., ÖZEL A.

in: Nanobiomaterials Science, Development and Evaluation, Mehdi Razavi, Avnesh Thakor, Editor, Woodhead Publishing, Duxford, pp.281-299, 2017

## **Refereed Congress / Symposium Publications in Proceedings**

### **I. THE MOLECULAR DOCKING STUDY OF PREDNISOLONE INTO DNA AND INTEGRIN**

Çelik S., Durak B., Demirağ A. D., Özel A., Akyüz S.

Turkish Physical Society 37 th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.71

### **II. COVID-19 MAJOR PROTEASE ENZYME AND SARSCOV-2 SPIKE GLYCOPROTEIN MOLECULAR DOCKING ANALYSIS WITH RUXOLITINIB**

Çelik S., Arslan S., Demirağ A. D., Özel A., Akyüz S.

Turkish Physical Society 37 th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.85

### **III. MECHANISM OF COVID19 THERAPY WITH THALIDOMIDE**

Demirağ A. D., Çelik S., Özel A., Akyüz S.

Turkish Physical Society 37 th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.69

### **IV. MOLECULAR DOCKING ANALYSIS OF APIXABAN, EFFECTIVE IN THE TREATMENT OF BLOOD CLOTS, WITH THE MAPK P38 TARGET PROTEIN**

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

Turkish Physical Society 37 th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.77

### **V. Molecular structure and docking analysis of the factor Xa inhibitor Edoxaban**

Çelik S., Avcular E., Demirağ A. D., Özel A., Akyüz S.

Turkish Physical Society 37 th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.76

### **VI. TOXICOLOGICAL AND MOLECULAR DOCKING ANALYSES OF ANTICANCER DRUG CLADRIBINE**

Çelik S., Gökdelen A. C., Demirağ A. D., Özel A., Akyüz S.

Turkish Physical Society 37 th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.69

### **VII. MOLECULAR DOCKING STUDY OF MIDOSTAURIN, AN EFFECTIVE DRUG IN THE TREATMENT OF MYELOID LEUKEMIA**

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

Turkish Physical Society 37 th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.78

- VIII. **CONFORMATIONAL, TOXIC, PHYSICOCHEMICAL AND MOLECULAR DOCKING ANALYSIS OF THE ANTICANCER ACALABRUTINIB MOLECULE**  
Arslan S., Çelik S., Demirağ A. D. , Özel A., Akyüz S.  
International Online Conferences on Engineering and Natural Sciences (IOCENS21), Gümüşhane, Turkey, 5 - 07 July 2021, pp.1
- IX. **ANALYSIS OF THE CONFORMATIONAL AND TOXIC PROPERTIES OF THE ANTI-INFLAMMATORY CICLESONIDE MOLECULE**  
Gökdelen A. C. , Çelik S., Demirağ A. D. , Özel A., Akyüz S.  
International Online Conferences on Engineering and Natural Sciences (IOCENS21), Gümüşhane, Turkey, 5 - 07 July 2021, pp.1
- X. **MOLECULAR DOCKING ANALYSIS OF CYCLO(ALA-HIS) DIPEPTIDE WITH B-DNA AND  $\alpha 5\beta 1$  INTEGRIN**  
Yılmaz G., Çelik S., Özel A., Akyüz S.  
International Online Conferences on Engineering and Natural Sciences (IOCENS21), Gümüşhane, Turkey, 5 - 07 July 2021, pp.1
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- LXXXVII. **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
- LXXXVIII. **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
- LXXXIX. **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
- XC. **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
- XCI. **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
- XCII. **Structural and Vibrational Study on Amrinone Dimers and Amrinone-H<sub>2</sub>O Complexes**  
Atak B., Akalm E., Akyüz S., Çelik S.  
31th European Congress on Molecular Spectroscopy (EUCMOS 2012), Cluj-Napoca, Romania, 3 - 07 September 2012, pp.29
- XCIII. **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
- XCIV. **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

**XCIV. 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

**XCVI. 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

**XCVII. 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

**XCVIII. onformational 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

**XCIX. 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

**C. 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

**CI. 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

**CII. 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

**CIII. Vibrational And Conformational Analysis of Acetazolamide -H2O Complexes**

KECEL S., ÖZEL A., ÇELİK S., AKYÜZ S.

28th International Physics Congress, Turkey, 1 - 04 September 2011, pp.82

**CIV. 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

**CV. 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

**CVI. Spectroscopic (FTIR and Raman) analysis and vibrational study on amrinone using DFT (B3LYP) calculations**

Atak B., Akalın E., Akyüz S., Çelik S.

Colloquium Spectroscopicum Internationale XXXVII, Rio-De-Janeiro, Brazil, 28 August - 02 September 2011, pp.40

**CVII. Vibrational and conformational analysis of Pyroglutamyl-asparagine amide ( P<sub>Glu</sub>-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

**CVIII. 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

**CIX. 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
- CX. **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
- CXI. **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
- CXII. **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
- CXIII. **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
- CXIV. **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
- CXV. **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
- CXVI. **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
- CXVII. **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
- CXVIII. **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
- CXIX. **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
- CXX. **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
- CXXI. **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
- CXXII. **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
- CXXIII. **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
- CXXIV. **Theoretical and Vibrational Analysis of 3-, 5-, 6- and 8-Aminoquinoline**



## 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., AKYÜZ 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

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

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

KECECI 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

KECECI 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

ÇELİK S., AKYÜZ S., ÖZEL A., KECECI 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

KECECI 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., KECECI 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

ÇELİK S., KECECI 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., KECECI 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

ÇELİK S., Project Supported by Higher Education Institutions, Structural and vibrational study of primidone based on monomer and dimer calculations, 2014 - 2016

ÇELİK S., Project Supported by Higher Education Institutions, Spectroscopic Identification of the Ancient Glasses excavated in Enez (Ancient Ainos) Turkey, 2015 - 2015

ÇELİK S., Project Supported by Higher Education Institutions, CONFORMATIONAL PREFERENCES AND STRUCTURAL

ELUCIDATION OF BIOLOGICALLY ACTIVE PENTAPEPTIDE, 2014 - 2014

ÇELİK S., Project Supported by Higher Education Institutions, QUANTUM CHEMICAL AND CONFORMATIONAL INVESTIGATION ON HYDROGEN BONDING INTERACTION OF H-GLY-TYR-OH DIMER AT VARIOUS MUTUAL ORIENTATION, 2013 - 2013

ÇELİK S., Project Supported by Higher Education Institutions, Conformational preferences, experimental and theoretical vibrational spectra of cyclo(Gly?Val) dipeptide, 2012 - 2012

ÇELİK S., Project Supported by Higher Education Institutions, CONFORMATIONAL PREFERENCES AND VIBRATIONAL SPECTRA OF GLYCYL-TYROSINE DIPEPTIDE, 2012 - 2012

ÇELİK S., Project Supported by Higher Education Institutions, Conformational Analysis of Cyclo (GLY-LEU): Comparison of Experimental and DFT Vibrational Spectra, 2011 - 2011

## Patent

Çelik S., ÖZEL A., RAMAN SPEKTROSKOPİ YÖNTEMİNİN KANSER TANISINDA KULLANILMASI, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2020/02931 , Initial 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 , Initial Registration, 2019

Çelik S., ÖZEL A., ANTİMİKROBİYAL ETKİ VE ANTİOKSİDAN AKTİVİTEYE SAHİP VANİLİN TÜREVİ İMİN BİLEŞİĞİNİN SENTEZİ VE MOLEKÜLER MODELLEMESİ, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2019/09350 , 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, The Invention Recourse Number: 2019/01121 , Initial Registration, 2019

Çelik S., Özel A., Özkök F., Akyüz S., Şahin Y. M. , Diren Sığırıcı 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 , Initial Registration, 2018

## Memberships / Tasks in Scientific Organizations

Turkish Physical Society International Physics Congress, Turkish Physical Society, Member, 2012 - Continues

## Scientific Refereeing

ARABIAN JOURNAL OF CHEMISTRY, SCI Journal, September 2021

MOLECULAR DIVERSITY, SCI Journal, September 2021

JOURNAL OF CHEMISTRY, SCI Journal, August 2021

JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, August 2021

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, August 2021

European Journal of Chemistry, Other Indexed Journal, August 2021

JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, August 2021

Project Supported by Higher Education Institutions, BAP Research Project, Canakkale Onsekiz Mart University, Turkey, August 2021

JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, July 2021

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, July 2021

JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, June 2021

JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, June 2021  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, May 2021  
Advancements in the Processing, Characterization, and Application of Lightweight Materials, Chapter Scientific / Professional Book Published by Renowned Publishing Houses, May 2021  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, May 2021  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, April 2021  
SPECTROSCOPY LETTERS, SCI Journal, April 2021  
Biomedicine & Pharmacotherapy, SCI Journal, April 2021  
Heliyon, Journal Indexed in ESCI, April 2021  
ARABIAN JOURNAL OF CHEMISTRY, SCI Journal, April 2021  
ROYAL SOCIETY OPEN SCIENCE, SCI Journal, March 2021  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, March 2021  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, March 2021  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, February 2021  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, February 2021  
Journal Of Biomolecular Structure & Dynamics, SCI Journal, February 2021  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, February 2021  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, January 2021  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, January 2021  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, January 2021  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, November 2020  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, October 2020  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, October 2020  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, September 2020  
SCIENTIFIC REPORTS, SCI Journal, September 2020  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, July 2020  
The Natural Products Journal, Other Indexed Journal, July 2020  
CHEMISTRYSELECT, SCI Journal, May 2020  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, May 2020  
Advanced Surface Coating Techniques for Modern Industrial Applications, Chapter Scientific / Professional Book Published by Renowned Publishing Houses, April 2020  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, SCI Journal, April 2020  
Advanced Surface Coating Techniques for Modern Industrial Applications, Chapter Scientific / Professional Book Published by Renowned Publishing Houses, April 2020  
The Natural Products Journal, Other Indexed Journal, March 2020  
Journal of Molecular Structure, SCI Journal, January 2020  
Spectroscopy Letters An International Journal for Rapid Communication, SCI Journal, December 2019  
Chemistry Journal of Moldova, Other Indexed Journal, November 2019  
Biophysical Journal, SCI Journal, October 2019  
Journal of Biomolecular Structure & Dynamics, SCI Journal, October 2019  
Journal of Molecular Structure, SCI Journal, October 2019  
American Journal of Applied Chemistry, Other Indexed Journal, September 2019  
Journal of Biomolecular Structure & Dynamics, SCI Journal, September 2019  
Journal of Biomolecular Structure & Dynamics, SCI Journal, July 2019  
Design of Experiments for Chemical, Pharmaceutical, Food, and Industrial Applications, Scientific / Professional Book Published by Renowned Publishing Houses, July 2019  
Journal of Biomolecular Structure & Dynamics, SCI Journal, June 2019  
Journal of Biomolecular Structure & Dynamics, SCI Journal, May 2019  
Biotechnic & Histochemistry, SCI Journal, March 2019  
The Natural Products Journal , Other Indexed Journal, March 2019  
Journal of Biomolecular Structure & Dynamics, SCI Journal, March 2019

Journal of Biomolecular Structure & Dynamics, SCI Journal, December 2018  
Current Trends in Chemical Engineering and Processing Technology, Other Indexed Journal, December 2018  
Current Trends in Chemical Engineering and Processing Technology, Other Indexed Journal, December 2018  
Journal of Biomolecular Structure & Dynamics, SCI Journal, November 2018  
Journal of Biomolecular Structure & Dynamics, SCI Journal, October 2018  
The Natural Products Journal, Other Indexed Journal, October 2018  
Journal of Biomolecular Structure & Dynamics, SCI Journal, September 2018  
Journal of Biomolecular Structure & Dynamics , SCI Journal, August 2018  
New Journal of Chemistry, SCI Journal, August 2018  
Computational Models for Biomedical Reasoning and Problem Solving, Scientific / Professional Book Published by  
Renowned Publishing Houses, July 2018  
Journal of Biomolecular Structure & Dynamics, SCI Journal, June 2018  
Journal of Biomolecular Structure & Dynamics, SCI Journal, April 2018  
Journal of Biomolecular Structure & Dynamics, SCI Journal, April 2018  
Journal of Biomolecular Structure & Dynamics, SCI Journal, February 2018  
Journal of Physics and Chemistry of Solids, SCI Journal, February 2018  
Journal of Physics and Chemistry of Solids, SCI Journal, January 2018  
Journal of Biomolecular Structure & Dynamics, SCI Journal, December 2017  
Journal of Biomolecular Structure & Dynamics , SCI Journal, November 2017  
Journal of Biomolecular Structure & Dynamics, SCI Journal, October 2017  
Journal of Biomolecular Structure & Dynamics , SCI Journal, October 2017  
Journal of Biomolecular Structure & Dynamics , SCI Journal, September 2017  
Journal of Biomolecular Structure & Dynamics, SCI Journal, September 2017  
Journal of Biomolecular Structure & Dynamics , SCI Journal, September 2017  
Journal of Physics and Chemistry of Solids, SCI Journal, April 2017  
Journal of Physics and Chemistry of Solids, SCI Journal, June 2016  
Arabian Journal of Chemistry, SCI Journal, September 2015  
Arabian Journal of Chemistry, SCI Journal, November 2014

## **Edit Congress and Symposium Activities**

International Conferences on Science and Technology (ICONST- NST-2019), Attendee, Prizren, Kosova, 2019  
İstanbul Üniversitesi Fen Fakültesi Fizik Kulübü - 9. Fizik Çalıştayı, Attendee, İstanbul, Turkey, 2019  
Protein-Ligand Docking and Molecular Dynamics (MD) Simulations-6th International BAU Drug Design Congress  
(Workshop), Attendee, İstanbul, Turkey, 2018  
2nd International Conference on Innovations in Natural Science and Engineering (ICINSE 2018), Attendee, Kyiv,  
Ukraine, 2018  
2nd International Congress on Advances in Bioscience and Biotechnology (ICABB 2018), Attendee, Podgorica, Serbia  
And Montenegro, 2018  
ADIM Fizik Günleri VII, Attendee, Aydın, Turkey, 2018  
İstanbul Üniversitesi Fen Fakültesi Fizik Kulübü - 8. Fizik Çalıştayı, Attendee, İstanbul, Turkey, 2018  
Turkish Physical Society 33 th International Physics Congress, Attendee, Muğla, Turkey, 2017  
The 25 th Colloquium on High-Resolution Molecular Spectroscopy HRMS 2017, Attendee, Helsinki, Finland, 2017  
Adım Fizik Günleri VI, Attendee, Balıkesir, Turkey, 2017  
İstanbul Üniversitesi Fen Fakültesi Fizik Kulübü - 7. Fizik Çalıştayı, Attendee, İstanbul, Turkey, 2017  
TÜBİTAK 1000 Projeleri AR-GE Strateji Çalıştayı, Attendee, İstanbul, Turkey, 2016  
33th European Congress on Molecular Spectroscopy (EUCMOS 2016), Attendee, Szeged, Hungary, 2016  
XVI. International Symposium on "Disordered Systems: Theory and Its Applications", Attendee, İstanbul, Turkey, 2016  
Adım Fizik Günleri V, Attendee, Eskişehir, Turkey, 2016  
İstanbul Üniversitesi Fen Fakültesi Fizik Kulübü - 6. Fizik Çalıştayı, Attendee, İstanbul, Turkey, 2016

Ab initio Modeling in Solid State Chemistry-MSSC2015 (International Summer School), Attendee, İngiltere-Londra, United Kingdom, 2015  
9th International Physics Conference of the Balkan Physical Union, Attendee, İstanbul, Turkey, 2015  
4th World Conference on Design and Arts - WCDA-2015, Attendee, St. Petersburg, Russia, 2015  
2nd International Conference on Global Trends in Pure and Applied Chemical Sciences, Attendee, Hong Kong, Turkey, 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  
15th European Conference on the Spectroscopy of Biological Molecules, Attendee, Oxford, United Kingdom, 2013  
Turkish Physical Society 29 th International Physics Congress, Attendee, Muğla , Turkey, 2012  
31th European Congress on Molecular Spectroscopy, Attendee, Cluj-Napoca, Romania, 2012  
Turkish Physical Society 28 th International Physics Congress, Attendee, Muğla, Turkey, 2011  
14th European Conference on the Spectroscopy of Biological Molecules, Attendee, Coimbra, Portugal, 2011  
Turkish Physical Society 27 th International Physics Congress, Attendee, İstanbul , Turkey, 2010  
30th European Congress on Molecular Spectroscopy, Attendee, Florensa, Italy, 2010  
XIII European Conference on the Spectroscopy of Biological Molecules, Attendee, Palermo, Italy, 2009  
The International Congress on Spectroscopic Methods for Conservation of Cultural Heritage, Attendee, İstanbul , Turkey, 2007  
XXVIII European Congress on Molecular Spectroscopy, Attendee, İstanbul, Turkey, 2006  
Workshop on Neutron spin-echo (NSE2005), Attendee, Grenoble, France, 2005

## Citations

Total Citations (WOS):165

h-index (WOS):7

## Awards

Çelik S., T.C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi tarafından verilen teşekkür belgesi (2015), T.C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, May 2015  
ÇELİK S., T.C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi tarafından verilen teşekkür belgesi (2013), T.C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, April 2013  
ÇELİK S., T.C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi tarafından verilen teşekkür belgesi (2011), T.C. İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, May 2011