

## **ÖZGEÇMİŞ & YAYIN LİSTESİ**

Giresun Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Optisyenlik  
Programı, Çamlık Sosyal Tesisleri, Güre Yerleşkesi, Merkez/GİRESUN  
E-mail: halilgokce.hg@gmail.com, halil.gokce@giresun.edu.tr

Adı Soyadı : Halil GÖKCE

Doğum Yeri ve Yılı : Çivril/DENİZLİ - 18.07.1984

Yabancı Dili : İngilizce

Unvanı : Prof. Dr.

### **Eğitim Durumu:**

- Doçentlik** : Üniversitelerarası Kurul Başkanlığı, 05.04.2016, Fizik - Atom ve Molekül Fiziği
- Doktora** : Süleyman Demirel Üniversitesi, Fen Bilimleri Ens., Fizik A.B.D., 2009-2013,  
ISPARTA (Tez Adı: Antioksidanların ve Çeşitli Bileşiklerin Kuramsal ve  
Deneysel Kırmızıaltı ve Mikro-Raman Spektroskopik ve Kuantum Kimyasal  
İncelenmeleri, Danışman: Prof. Dr. Semiha BAHÇELİ)
- Yüksek Lisans** : Süleyman Demirel Üniversitesi, Fen Bilimleri Ens., Fizik A.B.D., 2007-2009,  
ISPARTA (Tez Adı: Bazı Amonyum Türevi Bileşiklerin Kuramsal ve Deneysel  
Kırmızıaltı ve Raman Spektroskopileri İle İncelenmesi, Danışman: Prof. Dr.  
Semiha BAHÇELİ)
- Lisans** : Süleyman Demirel Üniversitesi, Fen-Edebiyat Fak., Fizik Bölümü, 2002-2006,  
ISPARTA
- Lise** : Çivril Lisesi, 1998-2001, Çivril/DENİZLİ

### **İş Deneyimi:**

- > Temmuz 2006-Mayıs 2012 Süleyman Demirel Üniversitesi, Fen-Edebiyat Fak., Fizik Bölümü,  
Spektroskopi Laboratuvarı (Laborant)
- > Haziran 2012-Ekim 2013 Giresun Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu,  
Optisyenlik Programı (Öğretim Görevlisi)
- > Ekim 2013-Nisan 2016 Giresun Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu,  
Optisyenlik Programı (Yrd. Doç. Dr.)
- > 5 Nisan 2016-11 Ağustos 2021 Giresun Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu,  
Optisyenlik Programı (Doç. Dr.)

> 11 Ağustos 2021- ..... Giresun Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Optisyenlik Programı (Prof. Dr.)

### **İdari Görevler;**

- > Ağustos 2012-Mayıs 2016 Giresun Üniversitesi, Fındık Araştırma ve Uygulama Merkezi (GİFAM) Müdür Yardımcılığı
- > Haziran 2013-... Giresun Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Optisyenlik Program Başkanlığı
- > Haziran 2014-Eylül 2020 Giresun Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Terapi ve Rehabilitasyon Bölüm Başkanlığı
- > Mayıs 2016-Ocak 2017 Giresun Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Müdür Yardımcılığı
- > Ekim 2020-... Giresun Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölüm Başkanlığı

### **Çalışma alanları ve ilgi alanları;**

- > Kuantum kimyasal hesaplamalar
- > Moleküler yapı ve moleküler spektroskopisi (NMR, IR, Raman ve UV)
- > Molekül modelleme
- > Kuantum fiziği
- > Atom ve molekül fiziği
- > Metal kompleks bileşikleri
- > Moleküler docking
- > İlaç benzerliği
- > *in silico* ADME-T

### **A. SCI-Expanded Kapsamında Uluslararası Hakemli Dergilerde Yayımlanan Makaleler;**

- A.1.** **H. Gökce**, S. Bahçeli, Vibrational Analysis of Trimethylphenyl Ammonium Chloride. *Zeitschrift für Naturforschung A-A Journal of Physical Sciences*, **64a** (2009) 127-131.
- A.2.** **H. Gökce**, S. Bahçeli, Analysis of Molecular Structure and Vibrational Spectra of 1(2H)-Phthalazinone. *Journal of Molecular Structure*, **967 (1-3)** (2010) 42-46.
- A.3.** **H. Gökce**, S. Bahçeli, Quantum Chemical Computations of 1,3-Phenylenediacetic Acid. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **78 (2)** (2011) 803-808.

- A.4.** **H. Gökce**, S. Bahçeli, A Study on Quantum Chemical Calculations of 3-, 4-Nitrobenzaldehyde Oximes. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **79 (5)** (2011) 1783-1793.
- A.5.** **H. Gökce**, S. Bahçeli, Analysis of Molecular Structure and Vibrational Spectra 2-(2'-Thienyl)pyridine. *Journal of Molecular Structure*, **1005 (1-3)** (2011) 100-106.
- A.6.** **H. Gökce**, S. Bahçeli, A Study of Molecular Structure and Vibrational Spectra of Copper (II) Halide Complex of 2-(2'-Thienyl)Pyridine. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **96** (2012) 139-147.
- A.7.** **H. Gökce**, S. Bahçeli, O. Akyıldırım, H. Yüksek, Ö.G. Kol, The Syntheses, Molecular Structures, Spectroscopic Properties (IR, Micro-Raman, NMR and UV-vis) and DFT Calculations of Antioxidant 3-alkyl-4-[3-methoxy-4-(4-methylbenzoxy)benzylidenamino]-4,5-dihydro-1H-1,2,4-triazol-5-one Molecules. *Letters in Organic Chemistry*, **10 (6)** (2013) 395-441.
- A.8.** **H. Gökce**, S. Bahçeli, FT-IR, Micro-Raman and UV-vis. Sectroscopic and Quantum Chemical Investigations of Free 2,2'-Dithiodipyridine and Its Metal (Co, Cu and Zn) Halide Complexes. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **114** (2013) 61-73.
- A.9.** **H. Gökce**, S. Bahçeli, Analysis of Molecular Structure, Spectroscopic Properties (FT-IR, Micro-Raman and UV-vis.) and Quantum Chemical Calculations of Free and Ligand 2-Thiopheneglyoxylic Acid in Metal Halides (Cd, Co, Cu, Ni and Zn). *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **116** (2013) 242-250.
- A.10.** A. Abbas, S. Bahçeli, **H. Gökce**, M. Bolte, S. Hussain, M.K. Rauf, Crystallographic Structure and Quantum Chemical Computations of 1-(3,4-Dimethylphenyl)-3-phenyl-5-(4-methoxyphenyl)-2-pyrazoline. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **116** (2013) 599-609.
- A.11.** **H. Gökce**, S. Bahçeli, Molecular Structure, Spectroscopic Properties and DFT Calculations of 2-(Methylthio)nicotinic Acid. *Optics and Spectroscopy*, **115 (4)** (2013) 469-483.
- A.12.** **H. Gökce**, S. Bahçeli, The Molecular Structures, Vibrational Spectroscopies (FT-IR and Raman) and Quantum Chemical Calculations of n-Alkyltrimethylammonium Bromides. *Optics and Spectroscopy*, **115 (5)** (2013) 10-22.
- A.13.** **H. Gökce**, O. Akyıldırım, S. Bahçeli, H. Yüksek, Ö.G. Kol, The 1-acetyl-3-methyl-4-[3-methoxy-4-(4-methylbenzoxy)benzylidenamino]-4,5-dihydro-1H-1,2,4-triazol-5-one Molecule Investigated by a Joint Spectroscopic and Quantum Chemical Calculations. *Journal of Molecular Structure*, **1056-1057** (2014) 273-284

- A.14.** S. Bahçeli, **H. Gökce**, A Study on Spectroscopic and Quantum Chemical Calculations of Levosimendan. *Indian Journal of Pure and Applied Physics*, **52 (04)** (2014) 224-235.
- A.15.** **H. Gökce**, S. Bahçeli, Molecular Structure, Spectroscopic Properties (FT-IR, Micro-Raman and UV-vis.) and DFT Calculations of Minaprine. *Optics and Spectroscopy*, **117 (1)** (2014) 82-95.
- A.16.** A. Güder, H. Korkmaz, **H. Gökce**, Y.B. Alpaslan, G. Alpaslan, Isolation, Characterization, Spectroscopic Properties and Quantum Chemical Computations of an Important Phytoalexin Resveratrol as Antioxidant Component from *Vitis labrusca* L. and Their Chemical Compositions. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **133** (2014) 378-395.
- A.17.** **H. Gökce**, S. Bahçeli, Spectroscopic and Quantum Chemical Studies on Bromopyrazone. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **133** (2014) 741-751.
- A.18.** A. Abbas, **H. Gökce**, S. Bahçeli, M.M. Naseer, Spectroscopic (FT-IR, Raman, NMR and UV-vis.) and Quantum Chemical Investigations of (E)-3-[4-(Pentyloxy)phenyl]-1-phenylprop-2-en-1-one. *Journal of Molecular Structure*, **1075** (2014) 352-364.
- A.19.** S. Bahçeli, **H. Gökce**, An IR Study of 4(3H)-Pyrimidinone in Solution Adsorbed on NaX, NaY and ZSM-5 Zeolites. *Optics and Spectroscopy*, **118 (1)** (2015) 59-63.
- A.20.** E. Temel, C. Alaşalvar, **H. Gökce**, A. Güder, Ç. Albayrak, Y.B. Alpaslan, G. Alpaslan, N. Dilek, DFT Calculations, Spectroscopy and antioxidant activity studies on (E)-2-nitro-4-[(phenylimino)methyl]phenol. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **136 Part B** (2015) 534-546.
- A.21.** Y.B. Alpaslan, **H. Gökce**, M. Macit, G. Alpaslan, N. Özdemir, Molecular structure, spectroscopic characterization and DFT calculations of a novel (Z)-1-[(2-Ethylphenylamino)methylene]naphthalene-2(1H)-one. *Journal of Molecular Structure*, **1096** (2015) 43-54.
- A.22.** Y.B. Alpaslan, **H. Gökce**, G. Alpaslan, M. Macit, Spectroscopic Characterization and Density Functional Studies of (Z)-1-[(2-Methoxy-5-(trifluoromethyl)phenylamino)methylene]naphthalene-2(1H)-one. *Journal of Molecular Structure*, **1097** (2015) 171-180.
- A.23.** A. Abbas, **H. Gökce**, S. Bahçeli, Spectroscopic (Vibrational, NMR and UV-vis.) and Quantum Chemical Investigations on 4-Hexyloxy-3-methoxybenzaldehyde. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **152** (2016) 596-607.
- A.24.** **H. Gökce**, N. Öztürk, M. Taşan, Y.B. Alpaslan, G. Alpaslan, Spectroscopic Characterization and Quantum Chemical Computations of 5-(4-Pyridyl)-1*H*-1,2,4-Triazole-

- 3-Thiol Molecule. *Spectroscopy Letters: An International Journal for Rapid Communication*, **49** (3) (2016) 167-179.
- A.25. Ü. Ceylan, G.Ö. Tari, **H. Gökce**, E. Ağar, Spectroscopic (FT-IR and UV-Vis) and theoretical (HF and DFT) investigation of 2-Ethyl-N-[(5-nitrothiophene-2-yl)methylidene]aniline. *Journal of Molecular Structure*, **1110** (2016) 1-10.
- A.26. A. Abbas, **H. Gökce**, S. Bahçeli, M. Bolte, M.M. Naseer, Solid state structural and theoretical investigations of a biologically active chalcone. *Journal of Molecular Structure*, **1112** (2016) 124-135.
- A.27. **H. Gökce**, N. Öztürk, Ü. Ceylan, Y.B. Alpaslan, G. Alpaslan, Thiol-Thione Tautomeric Analysis, Spectroscopic (FT-IR, Laser-Raman, NMR and UV-vis.) Properties and DFT Computations of 5-(3-Pyridyl)-4H-1,2,4-Triazole-3-Thiol Molecule. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **163** (2016) 170-180.
- A.28. M. Kazici, S. Bozar, S. Yüksel, F. Ongül, **H. Gökce**, S. Güneş, Ç.Y. Göreci, Theoretical and Experimental Investigations of 2-(4-chlorophenyl)-3-{[5-(2-cyano-2-phenylethenyl)]furan-2-yl}acrylonitrile Molecule as a Potential Acceptor in Organic Solar Cells. *Nanotechnology*, **27** (23) (2016) 234003.
- A.29. M. Koç, C. Albay, D. Altın, R. Bayrak, **H. Gökce**, İ. Değirmencioğlu, M. Sökmen, Use of Azomethine-bridged Phenolic Metallo-phthalocyanines for Sensitization of TiO<sub>2</sub>. *Desalination and Water Treatment*, **59** (2017) 191-201.
- A.30. O. Akyıldırım, **H. Gökce**, S. Bahçeli, H. Yüksek, Theoretical and Spectroscopic (FT-IR, NMR and UV-Vis.) Characterizations of 3-p-Chlorobenzyl-4-(4-carboxybenzylidenamino)-4,5-dihydro-1H-1,2,4-triazol-5-one Molecule. *Journal of Molecular Structure*, **1127** (2017) 114-123.
- A.31. C. Alaşalvar, A. Güder, **H. Gökçe**, Ç.A. Kaştaş, R.C. Celik, Theoretical, spectroscopic and antioxidant activity studies on (E)-2-[(2-fluorophenylimino)methyl]-4-hydroxyphenol and (E)-2-[(3-fluorophenylimino)methyl]-4-hydroxyphenol compounds. *Journal of Molecular Structure*, **1133** (2017) 37-48.
- A.32. Y. Sert, N. Öztürk, F.A.M. Al-Omary, C. Alaşalvar, M.M. Al-Shehri, A.A. El-Emam, **H. Gökce**, Experimental (FT-IR, Laser-Raman and NMR) and Theoretical Spectroscopic Analysis of 3-[(N-methylanilino)methyl]-5-(thiophen-2-yl)-1,3,4-oxadiazole-2(3H)-thione. *Journal of Theoretical and Computational Chemistry (JTCC)*, **16** (3) (2017) 1750024 (20 pages).
- A.33. **H. Gökce**, N. Öztürk, M. Kazıcı, Ç.Y. Göreci, S. Güneş, Structural, Spectroscopic, Electronic, Nonlinear Optical and Thermodynamic Properties of a Synthesized Schiff Base

- Compound: A Combined Experimental and Theoretical Approach. *Journal of Molecular Structure*, **1136** (2017) 288-302.
- A.34. Y. Sert, M. Gümüş, V. Kamac, **H. Gökce**, İ. Kani, İ. Koca, Spectroscopic Investigation of 2-(4-Benzoyl-1,5-Diphenyl-1H-Pyrazol-3-yl)-4H-Naphto[2,3-d][1,3]oxazin-4-one Molecule. *Journal of Theoretical and Computational Chemistry (JTCC)*, **16 (5)** (2017) 1750039 (22 pages).
- A.35. M. Gümüş, Y. Sert, Ş. Özdemir, **H. Gökce**, İ. Kani, İ. Koca, Spectroscopic (FT-IR, Laser-Raman and NMR) and Conformational Analysis on Novel Pyrazole  $\beta$ -keto ester Compound. *Journal of Molecular Structure*, **1167** (2018) 280-293.
- A.36. T. Özdemir, **H. Gökce**, FT-IR, Raman and NMR Spectroscopy and DFT Theory of Glimepiride Molecule as a Sulfonylurea Compound. *Journal of Applied Spectroscopy*, **85 (3)** (2018) 560-572.
- A.37. H. Büyükuşlu, F.B. Özdemir, T.Ö. Öge, **H. Gökce**, Indoor and Tap Water Radon ( $^{222}\text{Rn}$ ) Concentration Measurements at Giresun University Campus Areas. *Applied Radiation and Isotopes*, **139** (2018) 285-291.
- A.38. **H. Gökce**, B. Dede, S. Bahçeli, Structural, Spectroscopic and Quantum Chemical Studies on Copper(II) Complex of 4-Ethoxy-2-Methyl-5-(4-Morpholinyl)-3(2H)-Pyridazinone. *Journal of Molecular Structure*, **1171** (2018) 471-480.
- A.39. C. Alaşalvar, N. Öztürk, A.A.-M. Abdel-Aziz, **H. Gökce**, A.S. El-Azab, M.A. El-Gendy, Y. Sert, Molecular Structure, Hirshfeld Surface Analysis, Spectroscopic (FT-IR, Laser-Raman, UV-Vis. and NMR), HOMO-LUMO and NBO Investigations on *N*-(12-Amino-9,10-Dihydro-9,10-Ethanoanthracen-11-yl)-4-Methylbenzenesulfonamide. *Journal of Molecular Structure*, **1171** (2018) 696-705.
- A.40. Y. Sert, M. Gümüş, **H. Gökce**, İ. Kani, İ. Koca, Molecular Docking, Hirshfeld Surface, Structural, Spectroscopic, Electronic, NLO and Thermodynamic Analyses on Novel Hybrid Compounds Containing Pyrazole and Coumarin Cores. *Journal of Molecular Structure*, **1171** (2018) 850-866.
- A.41. **H. Gökce**, Y. Sert, N. Öztürk, A.A.-M. Abdel-Aziz, A.S. ElAzab, A.M. Al-Obaid, Experimental and Theoretical Investigations on Structural, Spectroscopic, Electronic and Thermodynamic Properties of (Adamantan-1-yl)(phenylsulfanyl)methanone. *Journal of Molecular Structure*, **1173** (2018) 596-607.
- A.42. L.H. Al-Wahaibi, N. Öztürk, H.M. Hassan, Y. Sert, A.A. El-Emam, A.-M.S. Al-Tamimi, **H. Gökce**, Experimental (FT-IR, Laser-Raman and NMR) and Theoretical Comparative Study on 2-benzylsulfanyl-4-pentyl-6-(phenylsulfanyl)pyrimidine-5-carbonitrile, a Potential

Bioactive Agent. *Journal of Theoretical and Computational Chemistry (JTCC)*, **17 (05)** (2018) 1850035 (22 pages).

- A.43.** H. Gökce, N. Öztürk, Y. Sert, A.S. El-Azab, N.A. AlSaif, A.A.-M. Abdel-Aziz, 4-[(1,3-Dioxoisooindolin-2-yl)methyl]benzenesulfonamide: Full Structural and Spectroscopic Characterization and Molecular Docking with Carbonic Anhydrase II. *ChemisrtySelect*, **3 (35)** (2018) 10113-10124.
- A.44.** Y.B. Alpaslan, N. Süleymanoğlu, R. Ustabaş, A.G. Ertürk, H. Gökce, Spectroscopic Characterization and Density Functional Studies of New Thiadiazole 1,1-dioxide Compounds. *Journal of Molecular Structure*, **1174** (2018) 32-42.
- A.45.** Y. Ünver, H. Gökce, E. Bektaş, F. Çelik, İ. Değirmencioğlu, New Bis 1,3,4-Oxadiazole Derivatives: Syntheses, Characterizations, Computational Studies and Antioxidant Activities. *Canadian Journal of Chemistry*, **96 (12)** (2018) 1047-1059.
- A.46.** N. Öztürk, H. Gökce, Structural, FT-IR, Raman, NMR and DFT, TD-DFT/B3LYP Investigations of 1-(Benzylxy)urea. *Journal of Applied Spectroscopy*, **86 (1)** (2019) 138-146.
- A.47.** G. Alpaslan, M. Macit, N. Özdemir, H. Gökce, Synthesis, Spectroscopic Properties and DFT studies of Copper(II) Complex of (E)-1-((2,4-dichlorophenylimino)methyl)naphthalene-2-ol. *Inorganica Chimica Acta*, **484** (2019) 297-304.
- A.48.** H. Gökce, Y.B. Alpaslan, C.T. Zeyrek, E. Ağar, A. Güder, N. Özdemir, G. Alpaslan, Structural, Spectroscopic, Radical Scavenging Activity, Molecular Docking and DFT Studies of a Synthesized Schiff Base Compound. *Journal of Molecular Structure*, **1179** (2019) 205-215.
- A.49.** S. Kaya, H. Gökce, A.S. El-Azab, Y. Sert, M.M. Alanazi, N. Öztürk, M.H.M. Al-Agamy, A.A.-M. Abdel-Aziz, Structural, spectroscopic, electronic and molecular docking studies on (11*R*,12*S*)-16-Aminotetracyclo[6.6.2.0<sup>2,7</sup>.0<sup>9,14</sup>]hexadeca-2(7),3,5,9(14),10,12-hexaen-15-ol. *ChemisrtySelect*, **4 (3)** (2019) 825-837.
- A.50.** Y. Sert, H. Gökce, Chandra, M. Mahendra, N. Srikantamurthy, Ç. Çırak, Molecular Docking and Vibrational Spectroscopy Studies of (E)-N'-Hydroxy-1,3-diphenyl-4,5-dihydro-1H-pyrazole-5-carboximidamide. *Journal of Molecular Structure*, **1184** (2019) 79-91.
- A.51.** M. Gümüş, Y. Sert, A. Yalkın, H. Gökce, İ. Koca, Synthesis, Experimental and Theoretical Characterization of Novel Pyrimidine-5-Carboxamides. *ChemisrtySelect*, **4 (16)** (2019) 4695-4708.

- A.52.** Y. Sert, H.S. Clayton, **H. Gökce**, K.C. Tapala, Combined Experimental and Theoretical Investigations on a Half-Sandwich Organometallic Os(II) Complex. *Journal of Molecular Structure*, **1188** (2019) 86-98.
- A.53.** **H. Gökce**, G. Alpaslan, C. Alaşalvar, Crystal Structure, Spectroscopic Characterization, DFT Computations and Molecular Docking Study of A Synthesized Zn(II) Complex Compound. *Journal of Coordination Chemistry*, **72 (5-7)** (2019) 1075-1096.
- A.54.** **H. Gökce**, Y. Sert, G. Alpaslan, A.S. El-Azab, M.M. Alanazi, M.H.M. Al-Agamy, A.A.-M. Abdel-Aziz, Hirshfeld Surface, Molecular Docking Study, Spectroscopic Characterization and NLO Profile of 2-Methoxy-4,6-Diphenylnicotinonitrile. *ChemisrtySelect*, **4 (33)** (2019) 9857-9870.
- A.55.** Y. Sert, L.H. Al-Wahaibi, **H. Gökce**, H.M. Hassan, A. Alsfouk, A.A. El-Emam, Molecular Docking, Hirshfeld Surface Analysis and Spectroscopic Investigations of 1-(Adamantan-1-yl)-3-(4-fluorophenyl)thiourea: A Potential Bioactive Agent. *Chemical Physics Letters*, **735** (2019) 136762.
- A.56.** M. Karaboyacı, **H. Gökce**, G. Alpaslan, N. Öztürk, Crystal Structure, Hirshfeld Surface, Spectroscopic Analyses, Electronic Properties, NLO Profile and Thermochemical Study of an Antispasmodic Agent Trimebutine. *Journal of Molecular Structure*, **1199** (2020) 127043.
- A.57.** S. Kaya, **H. Gökce**, T. Arslan, G. Alpaslan, Synthesis, Spectroscopic Characterization, DFT Computations, Nonlinear Optical Profile and Molecular Docking Study of a Novel Chalcone Derivative. *Journal of Molecular Structure*, **1202** (2020) 127270.
- A.58.** N.E. Eltayeb, F. Şen, J. Lasri, M.A. Hussein, S.E. Elsilk, B.A. Babgi, **H. Gökce**, Y. Sert, Hirshfeld Surface Analysis, Spectroscopic, Biological Studies and Molecular Docking of (4E)-4-((naphthalen-2-yl)methyleneamino)-1,2-dihydro-2,3-dimethyl-1-phenylpyrazol-5-one. *Journal of Molecular Structure*, **1202** (2020) 127315.
- A.59.** İ. Koca, S. Yiğitcan, M. Gümüş, **H. Gökce**, Y. Sert, A new series of sulfa drugs containing pyrazolyl acylthiourea moiety: Synthesis, experimental and theoretical spectral characterization and molecular docking studies. *Journal of Molecular Structure*, **1204** (2020) 127479.
- A.60.** Y. Sert, S. Lahmidi, M. El Hafi, **H. Gökce**, E.M. Essassi, A. Ejjoumamany, J.T. Mague, Spectral, DFT/B3LYP and Molecular Docking Analyses on Ethyl 2-(5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl)pent-4-enoate. *Journal of Molecular Structure*, **1206** (2020) 127680.
- A.61.** Y. Sert, O.E. Doğan, **H. Gökce**, T. Ağar, F. Ucun, N. Dege, Synthesis, Crystal structure, Hirshfeld surface analysis, Spectral characterizations and Quantum computational

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- A62. Y. Sert, G.A. El-Hiti, **H. Gökce**, F. Ucun, B.F. Abdel-Wahab, B.M. Kariuki, DFT, molecular docking and experimental FT-IR, laser-Raman, NMR and UV investigations on a potential anticancer agent containing triazole ring system. *Journal of Molecular Structure*, **1211** (2020) 128077.
- A63. Y.F. Baba, **H. Gökce**, Y.K. Rodi, S. Hayani, F.O. Chahdi, A. Boukir, J.P. Jasinski, M. Kaur, T. Hökelek, N.K. Sebbar, E.M. Essassi, Syntheses of novel 2-oxo-1,2-dihydroquinoline derivatives: Molecular and crystal structures, spectroscopic characterizations, Hirshfeld surface analyses, molecular docking studies and density functional theory calculations. *Journal of Molecular Structure*. **1217** (2020) 128461.
- A64. M. Gür, S. Yerlikaya, N. Şener, S. Özkinalı, M.C. Baloğlu, **H. Gökce**, Y.C. Altunoglu, S. Demir, İ. Şener, Antiproliferative-antimicrobial properties and structural analysis of newly synthesized Schiff bases derived from some 1,3,4-thiadiazole compounds. *Journal of Molecular Structure*, **1219** (2020) 128570.
- A65. G. Kotan, **H. Gökce**, O. Akyıldırım, H. Yüksek, M. Beytur, S. Manap, H. Medetalibeyoğlu, Synthesis, Spectroscopic and Computational Analysis of 2-[(2-Sulfanyl-1H-benzo[d]imidazol-5-yl)iminomethyl]-phenyl Naphthalene-2-sulfonate. *Russian Journal of Organic Chemistry*, **56(11)** (2020) 1982-1994.
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**B. Uluslararası hakemli dergilerde yayımlanan makaleler (SCI, SCI Expanded, SSCI ve AHCI kapsamı dışındaki uluslararası dergilerde yayımlanan);**

- B.1. S. Bahçeli, **H. Gökce**, Analysis of Molecular Structures, Spectroscopic Properties (FT-IR, Micro-Raman and UV-vis.) and Quantum Chemical Calculations of Free and Ligand Dimethyl Phenylphosphonite in Cd(II) Halide Complex. *Canadian Chemistry Transactions*, **2 (2)** (2014) 175-189.
- B.2. S. Bahçeli, **H. Gökce**, Spectroscopic and quantum chemical characterization of 2-Phenoxyacetohydrazide. *Asian Journal of Physics*, **24 (5)** (2015) 713-720.

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- C.1. N. Öztürk, **H. Gökce**, Structural and Spectroscopic (FT-IR and NMR) Analyses on (E)-pent-2-enoic Acid. *Bilge International Journal of Science and Technology Research*, **1 (1)** (2017) 9-15.
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- C.3. N. Öztürk, T. Özdemir, Y.B. Alpaslan, **H. Gökce**, G. Alpaslan, Experimental (FT-IR, Raman and NMR) and Theoretical (B3LYP, B3PW91, M06-2X and CAM-B3LYP) Analyses of P-Tert-Butylphenyl Salicylate. *Bilge International Journal of Science and Technology Research*, **2 (1)** (2018) 56-73.

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**D. Uluslararası Bilimsel Toplantılarda Sunulan ve Bildiri Kitabında (Proceedings) Yayımlanan Bildiriler;**

- D.1. **H. Gökce**, S. Bahçeli, Molecular Structure and Vibrational Spectra of Tetradecyltrimethyl Ammonium Bromide (TTAB), *24. International Physics Congress*, 28-31 August 2007, İnönü University, Malatya, page: 252.
- D.2. **H. Gökce**, S. Bahçeli, 2008. Vibrational Analysis of Phthalazone, *Chemical Physics Conference VIII*, 24-25 April, İstanbul Technical University, İstanbul, P36.
- D.3. **H. Gökce**, S. Bahçeli, Molecular Structure and Vibrational Spectral Analysis of Dodecyltrimethylammonium Bromide (DTAB), *25. International Physics Congress*, 25-29 August 2008, Bodrum/Muğla, page: 334.
- D.4. **H. Gökce**, G. Toprak, S. Bahçeli, Molecular Geometry and Vibrational Spectra of 2'-Chloroacetanilide, *25. International Physics Congress*, 25-29 August 2008, Bodrum/Muğla, page: 335.
- D.5. E. Özen, B. Kocaman, **H. Gökce**, Molecular Structure and Vibrational Frequencies of Phenol-4X (X: F, Cl, I) Complexes by Hartree-Fock and Density Functional Theory Calculation, *25. International Physics Congress*, 25-29 August 2008, Bobrum/Muğla, page: 69.
- D.6. **H. Gökce**, S. Bahçeli, Analysis of Molecular Structure and Vibrational Spectral of Hexadecyl(cetyl)trimethylammonium Bromide (CTAB), *26. International Physics Congress*, 24-27 September 2009, Bodrum/Muğla, page: 303.

- D.7.** **H. Gökce**, S. Bahçeli, Quantum Chemical Calculations of 2-, 3-, 4-Nitrobenzaldehyde Oxime, 27. *International Physics Congress*, 14-17 September 2010, İstanbul University, İstanbul, page: 445.
- D.8.** **H. Gökce**, S. Bahçeli, A Study on Molecular Structure, Conformational Stability, Vibrational Spectroscopy and DFT Calculations of 2-(Methylthio)nicotinic Acid, 28. *International Physics Congress (Turkish Physics Society)*, 6-9 September 2011, Bodrum/Muğla, page: 465.
- D.9.** **H. Gökce**, S. Bahçeli, Infrared and Raman Spectroscopic and Quantum Chemical Studies of Copper (II) Halide Complex of 2-(2'-Thienyl)pyridine, 28. *International Physics Congress (Turkish Physics Society)*, 6-9 September 2011, Bodrum/Muğla, page: 466.
- D.10.** **H. Gökce**, S. Bahçeli, O. Akyıldırım, H. Yüksek, The Molecular Structure, Spectroscopic Properties and Quantum Chemical Calculations of 3-Methyl-4-[3-Methoxy-4-(4-Methylbenzoxy)Benzylidenamino]-4,5-Dihydro-1H-1,2,4-Triazol-5-Ones Molecule, 2<sup>nd</sup> *International Conference on Computation for Science and Technology (ICCST-2)*, 09-11 July 2012, Niğde, PP-17, page: 160.
- D.11.** O. Akyıldırım, H. Yüksek, **H. Gökce**, S. Bahçeli, The Molecular Structure, Spectroscopic Properties and Quantum Chemical Calculations of 1-Acetyl-3-Methyl-4-[3-Methoxy-4-(4-Methylbenzoxy)Benzylidenamino]-4,5-Dihydro-1H-1,2,4-Triazol-5-Ones Molecule. 2<sup>nd</sup> *International Conference on Computation for Science and Technology (ICCST-2)*, 09-11 July 2012, Niğde, PP-17, page: 159.
- D.12.** N. Çolak, N. Marım, G. Alpaslan, **H. Gökce**, M. Yıldız, H. Ünver, Synthesis, Crystal strycrure and Quantum Chemical Studies of a Nowel Schiff Base Derived 2-Amino Thiophene and Salicylaldehyde, *Molecular Modelling in Chemistry and Biochemistry*, 13-15 November 2014, Cluj-Napoca, Romania, P-4, page: 36.
- D.13.** Ü. Ceylan, **H. Gökce**, N. Öztürk, Y.B. Alpaslan, G. Alpaslan, Thiol-Thione Tautomeric Analysis, Spectroscopic (FT-IR, Laser-Raman, NMR and UV-vis). Properties and DFT Computations of 5-(3-Pyridyl)-4H-1,2,4-Triazole-3-Thiol Molecule. *XIII<sup>th</sup> International Conference on Molecular Spectroscopy*, P10, page: 79, 09-13 September 2015, Wroclaw, Poland.
- D.14.** Ü. Ceylan, Y.B. Alpaslan, N. Öztürk, G. Alpaslan, **H. Gökce**, M. Macit, Quantum Chemical Investigations of (E)-2-[(4-chlorophenyl)iminomethyl]-4-(trifluoromethoxy)-phenol. *TURCMOS-II. International Turkish Congress on Molecular Spectroscopy*, 0122/P-076, page: 145, 13-18 September 2015, Antalya, Turkey.
- D.15.** **H. Gökce**, M.A. Gürdal, N. Öztürk, A.Ö. Yıldırım, FT-IR, Raman and UV-Vis. Spectroscopic Analyses and DFT Computations of Metal Momplexes with MCl<sub>2</sub> (M= Fe,

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- D.16.** H. Gökce, N. Çolak, Y.B. Alpaslan, N. Marım, M. Yıldız, H. Ünver, Syntheses, Spectroscopic Characterizations and Quantum Chemical Investigations of Some Schiff Base Compounds. *32. International Physics Congress (Turkish Physics Society)*, 6-9 September 2016, Bodrum/Muğla, page: 288.
- D.17.** Y.B. Alpaslan, H. Gökce, A Study on Spectroscopic (FT-IR, Raman and NMR) Properties and Quantum Chemical Computations of p-Tert-butylphenyl Salicylate Molecule. *2<sup>nd</sup> International Congress on the World of Technology and Advanced Materials (WITAM-2016)*, 28 September-02 October 2016, Kırşehir/TURKEY, page: PP14.
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- D.23.** N. Öztürk, H. Gökce, G. Alpaslan, Y.B. Alpaslan, C. Alaşalvar, Structural, Spectroscopic (FT-IR, Raman and NMR) and Computational Studies on N-Phenylpropanamide. *1. International Technological Sciences and Design Symposium (ITESDES-2018)*, 27-29 June 2018, page: 69, Giresun.
- D.24.** E. Temel, S. Demir, M.S. Engin, H. Gökce, Synthesis and Characterization of Copper(II) Perchlorate Complex of 2-Picolylamine. *1. International Technological Sciences and Design Symposium (ITESDES-2018)*, 27-29 June 2018, page: 221, Giresun.

- D.25.** C. Alaşalvar, N. Öztürk, A.A.-M. Abdelaziz, Y. Sert, **H. Gökce**, Theoretical and Computational Investigations of Structural, Spectroscopic (FT-IR, Laser-Raman, UV-Vis. and NMR) and Electronic Properties of *N*-(12-amino-9,10-dihydro-9,10-ethanoanthracen-11-yl)-4-methylbenzenesulfonamide. *1. International Technological Sciences and Design Symposium (ITESDES-2018)*, 27-29 June 2018, page: 216, Giresun.
- D.26.** G. Alpaslan, M. Macit, Y.B. Alpaslan, N. Özdemir, **H. Gökce**, X-Ray and Molecular Modelling Studies on New Schiff Base Cu(II) Complex. *1. International Technological Sciences and Design Symposium (ITESDES-2018)*, 27-29 June 2018, page: 234, Giresun.
- D.27.** Y.B. Alpaslan, S. Demir, A. Güder, G. Alpaslan, Ü. Ceylan, **H. Gökçe**, Syntheses, Molecular Structures, Spectral Properties and DFT Computations of Cu(II), Zn(II) And Pd(II) Complexes of 5-Methyl-3-(2-Pyridyl)-1,2,4-Oxadiazole. *1. International Technological Sciences and Design Symposium (ITESDES-2018)*, 27-29 June 2018, page: 238, Giresun.
- D.28.** G. Alpaslan, E. Ağar, **H. Gökce**, A. Güder, N. Özdemir, Y.B. Alpaslan, X-Ray, Radical Scavenging Activities and Theoretical Studies on New Schiff Base Compound. *1. International Technological Sciences and Design Symposium (ITESDES-2018)*, 27-29 June 2018, page: 262, Giresun.
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**E. Ulusal Bilimsel Toplantılarda Sunulan ve Bildiri Kitabında (*Proceedings*) Yayımlanan Bildiriler;**

- E.1.** **H. Gökce**, S. Bahçeli, 2-Fenoksiasetilhidrazin Molekülünün Yapısı ile Kırmızıaltı, Raman, NMR ve UV-vis Spektroskopilerinin Ab Initio Hesaplamaları, *Adım Fizik Günleri I Sempozyumu*, 21-22 Mayıs 2010, Afyonkarahisar, Sayfa: 81.
- E.2.** **H. Gökce**, S. Bahçeli, 2-(2'-Tienil)pridin Molekülünün Deneysel ve Kuramsal Molekül Yapısı ve Kırmızıaltı Titreşim İncelemesi, *Adım Fizik Günleri I Sempozyumu*, 21-22 Mayıs 2010, Afyonkarahisar, Sayfa: 82.
- E.3.** **H. Gökce**, S. Bahçeli, O. Akyıldırım, H. Yüksek, 3-Benzil-4-[3-Metoksi-4-(4-Metilbenzoksi)Benzilidenamino]-4,5-Dihidro-1H-1,2,4-Triazol-5-On Bileşığının Molekül Yapısı, Spektroskopik Özellikleri ve Kuantum Kimyasal Hesaplamaları, *Adım Fizik Günleri II Sempozyumu*, 26-28 Nisan 2012, Denizli, Sayfa: 103.

- E.4.** H. Gökce, S. Bahçeli, Biyolojik Olarak Aktif Bromür Pirazon'un Spektroskopik ve Kuantum Kimyasal İncelenmesi, *XIII. Ulusal Spektroskopi Kongresi*, 15-18 Mayıs 2013, Burdur, Sayfa: 93.
- E.5.** O. Akyıldırım, H. Gökce, S. Bahçeli, H. Yüksek, 3-p-Klorobenzil-4-(4-Karboksibenzilidenamino)-4,5-Dihidro-1H-1,2,4-Tiazol-5-One Molekülünün Deneysel ve Kuramsal Spektroskopik Özelliklerinin İncelenmesi, *2. Ulusal Hesaplamalı Kimya Kongresi*, 02-05 Haziran 2015, Kars, Sayfa: 68

**F. Görev Aldığı Projeler;**

- F.1.** Halka İçi ve Halka Dışı Azot, Sülfür ve Fosfor İçeren Aromatik Bileşiklerin Metal (Cd, Co, Cu, Mn ve Zn vs.) Halidlerinin Kırmızıaltı (IR), mikro-Raman ve Mor Ötesi Görünür Bölge (UV-vis.) Spektroskopileri ile İncelenmesi, 111T683 nolu TÜBİTAK projesi, Başlama Tarihi: Kasım 2011, Bitiş Tarihi: Kasım 2012, Yardımcı Personel ve Bursiyer
- F.2.** Antioksidanları ve Çeşitli Bileşiklerin Kuramsal ve Deneysel Kırmızıaltı ve Mikro-Raman Spektroskopik ve Kuantum Kimyasal İncelenmeleri, 3083-D-12 nolu BAP projesi, Başlama tarihi: 20.02.2012, Bitiş Tarihi: 20.02.2014, Yardımcı Personel (Süleyman Demirel Üniversitesi)
- F.3.** Piridin ve Triazol İçeren Organik ve İnorganik Bileşiklerin Moleküller Simülasyonu, FEN-BAP-A-250414-51 nolu BAP projesi, Başlama tarihi: 14.05.2014, Bitiş tarihi: 08.11.2015, Yürüttü (Giresun Üniversitesi)
- F.4.** Piridin Türevi Organik Moleküllerin Metal Komplekslerinin Sentezi, Spektroskopik Karakterizasyonu, Kuantum Kimyasal Hesaplamaları ve Antioksidan Aktivitelerinin İncelenmesi, FEN-BAP-A-140316-45 nolu BAP projesi, Başlama tarihi: 22.03.2016, Bitiş tarihi: 25.09.2018, Yürüttü (Giresun Üniversitesi).
- F.5.** Giresun Üniversitesi'nde Bina İçinde ve Su Örneklerinde Radon (Rn-222) Gazi Seviyesi Ölçümü, FEN-BAP-A-140316-50 nolu BAP projesi, Başlama tarihi: 22.03.2016, Bitiş tarihi: 22.09.2017, Yardımcı Personel (Giresun Üniversitesi).
- F.6.** Bir Dimedon Türevinin Sentezi, Karakterizasyonu, Tautomerik Analizi, Kuantum Mekaniksel Hesaplamaları ve Moleküller Docking Çalışmaları, FEN-BAP-A-270220-03 nolu BAP projesi, Başlama tarihi: 01.04.2020, Bitiş tarihi: 01.05.2021, Yardımcı Personel (Giresun Üniversitesi).

**G. Bilimsel ve Mesleki Kuruluşlara Üyelikler**

- G.1.** Türk Fizik Derneği (TFD)

- H. Uluslararası Hakemli Dergilerdeki Hakemlikler;**
- H.1.** Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
- H.2.** Journal of Molecular Structure
- H.3.** ChemistrySelect
- H.4.** Chemical Data Collections
- H.5.** Spectroscopy Letters
- H.6.** Letters in Organic Chemistry
- H.7.** Arabian Journal of Chemistry
- H.8.** Cogent Chemistry
- H.9.** RSC Advances
- H.10.** Spectroscopy and Spectral Analysis
- H.11.** Journal of Theoretical and Computational Chemistry (JTCC)
- H.12.** New Journal of Chemistry
- H.13.** Indian Journal of Pure and Applied Physics
- H.14.** Canadian Journal of Chemistry
- H.15.** Russian Journal of Inorganic Chemistry
- H.16.** CrystEngComm

- I. Ulusal Hakemli Dergilerdeki Editörlük ve Hakemlikler;**
- I.1.** Bilge International Journal of Science and Technology (Editor Kurulu Üyeliği)
- I.2.** Celal Bayar University Journal of Science
- I.3.** Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi
- I.4.** Avrupa Bilim ve Teknoloji Dergisi
- I.5.** İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi
- I.6.** Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi
- I.7.** Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi
- I.8.** Sigma Journal of Engineering and Natural Sciences
- I.9.** Hittite Journal of Science and Engineering

- J. Verilen Dersler;**
- J.1.** Fizik I (Mekanik)
- J.2.** Fizik II (Elektrik ve Magnetizma)
- J.3.** Geometrik Optik
- J.4.** Optisyenliğe Giriş
- J.5.** Optisyenlik I

- J.6.** Optisyenik II
- J.7.** Optisyenik III
- J.8.** Optik Aletler ve Malzeme Bilgisi
- J.9.** Kontakt Lensler
- J.10.** Görüntüleme Cihaz Teknikleri
- J.11.** Araştırma Yöntem ve Teknikleri
- J.12.** Optisyenlikte Paket Programlar
- J.13.** Meslek Etiği
- J.14.** Bilgi ve İletişim Teknolojileri

**K. Ödüller;**

- K.1.** TÜBİTAK Yayın Teşvik Ödülü
- K.2.** Adım Fizik Günleri I Sempozyumu Poster Birinciliği
- K.3.** Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü 2013-2014 En İyi Tez Ödülü