

# Prof. SEDA GÜNEŞDOĞDU SAĞDINÇ

## Personal Information

Web: <https://avesis.kocaeli.edu.tr/seda.sagdinc>

## International Researcher IDs

ORCID: 0000-0003-4765-6990

Yoksis Researcher ID: 103306

## Education Information

Doctorate, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, Turkey 1998 - 2004

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 1995 - 1998

Undergraduate, Hacettepe University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1990 - 1995

## Foreign Languages

English, B1 Intermediate

## Dissertations

Doctorate, Ofloksasin komplekslerinin ve ofloksasin famotidin ilaç etken maddelerinin etkileşiminin infrared spektroskopisi ve teorik hesaplama yöntemleri ile incelenmesi, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2004

Postgraduate, Termoluminesans yöntemi ile kuvars kristalinin tuzak enerji parametrelerinin belirlenmesi, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 1998

## Research Areas

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

## Academic Titles / Tasks

Professor, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 2017 - Continues

Associate Professor, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 2010 - 2017

Assistant Professor, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 2005 - 2010

Research Assistant, Kocaeli University, Fen Edebiyat Fakültesi, Fizik, 1997 - 2005

Research Assistant, Kocaeli University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, 1996 - 1997

## Courses

Molekül Fiziğinde Teorik Hesaplamalar, Postgraduate, 2023 - 2024

Fizik I, Undergraduate, 2023 - 2024

Fizik I, Undergraduate, 2023 - 2024

Yüksek Lisans Tez, Postgraduate, 2023 - 2024  
Atom ve Molekül Fiziği, Undergraduate, 2018 - 2019  
Moleküler Yapılar, Postgraduate, 2016 - 2017  
FİZİK 2, Undergraduate, 2016 - 2017  
Alternatif Enerji Kaynakları, Undergraduate, 2016 - 2017

## Advising Theses

Güneşdoğdu Sağdınc S., 5-nitro-2-oksindol' ün kristal yapısının yoğunluk fonksiyoneli teorisi (DFT) metodu ve spektroskopik çalışması, Postgraduate, B.KEVSER(Student), 2019  
GÜNEŞDOĞDU SAĞDINÇ S., Imipramin Hidroklorid molekülünün yapısının spektroskopik ve teorik olarak incelenmesi, Postgraduate, C.Azkeskin(Student), 2018  
GÜNEŞDOĞDU SAĞDINÇ S., Sudan Moleküllerin ve Metal Komplekslerinin Deneysel ve Teorik Olarak Yapılarının İncelenmesi, Doctorate, A.Eşme(Student), 2014  
GÜNEŞDOĞDU SAĞDINÇ S., Non-Steoridal Anti-İnflamatuar İlaç (Nsaid) Etken Maddelerinin Korozyon İnbitör Özelliklerinin Kuantum Mekaniksel Yöntemlerle Ve Deneysel Olarak İncelenmesi, Doctorate, F.Kayadibi(Student), 2013  
GÜNEŞDOĞDU SAĞDINÇ S., MİANSERİN VE MİRTAZAPİN MOLEKÜLLERİNİN YAPILARININ DENEYSEL VE TEORİK İNCELENMESİ, Postgraduate, A.Erbay(Student), 2011  
GÜNEŞDOĞDU SAĞDINÇ S., FLURBİPROFEN MOLEKÜLÜ VE METAL KOMPLEKSLERİNİN DENEYSEL VE TEORİK İNCELENMESİ, Postgraduate, H.Pir(Student), 2008

## Jury Memberships

Associate Professor Exam, Doçetlik Sözlü Jürisi, Amasya Üniversitesi, February, 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Structural, Quantum Chemical, Spectroscopic (UV, FT-IR, FT-Raman and NMR) and Molecular Docking Studies of Diphenylpyraline Hydrochloride as Antihistaminic Drug**  
Topaloglu S., GÜNEŞDOĞDU SAĞDINÇ S.  
Polycyclic Aromatic Compounds, vol.44, no.7, pp.4305-4335, 2024 (SCI-Expanded)
- II. **The analyses of solvent effects on infrared spectra and thermodynamic parameters, Hirshfeld surface, reduced density gradient and molecular docking of ketoprofen as a member of nonsteroidal anti-inflammatory drugs**  
Isik I. B., TEKİN N., Sagdinc S.  
Journal of Molecular Structure, vol.1250, 2022 (SCI-Expanded)
- III. **Theoretical (Hirshfeld surface, molecular docking, structural, electronic properties, NBO and NLO analyses) and spectroscopic studies of 6-chloro-2-oxindole in monomeric and dimeric forms**  
Isik I. B., Sagdinc S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1245, 2021 (SCI-Expanded)
- IV. **Characterization of Solvent Effects on C=O Stretching Vibrations of Ketoprofen by Empirical Solvent Parameters**  
Sagdinc S., Tekin N.  
JOURNAL OF APPLIED SPECTROSCOPY, vol.88, no.4, pp.855-862, 2021 (SCI-Expanded)
- V. **The Crystal Structure, Spectral, and Density Functional Theory Studies of [3-(3-Bromophenyl)-cis-4,5-Dihydroisoxazole-4,5-Diyl]bis(Methylene)Diacetate**  
KARA Y. S., EŞME A., Sagdinc S.  
JOURNAL OF APPLIED SPECTROSCOPY, vol.88, no.3, pp.633-644, 2021 (SCI-Expanded)

- VI. **Single-crystal X-ray structural characterization, Hirshfeld surface analysis, electronic properties, NBO, and NLO calculations and vibrational analysis of the monomeric and dimeric forms of 5-nitro-2-oxindole**  
GÜNEŞDOĞDU SAĞDINÇ S., Akcay B. K., YILDIZ S. Z., BALDAN IŞIK İ.  
NEW JOURNAL OF CHEMISTRY, vol.45, pp.10070-10088, 2021 (SCI-Expanded)
- VII. **EXPERIMENTAL AND THEORETICAL STUDY OF THE SUBSTITUENT TYPE AND POSITION EFFECTS ON 3-(SUBSTITUTED PHENYL)-CIS-(4,5-DIHYDROISOXAZOLE- 4,5-DIYL)BIS(METHYLENE)DIACETATE DERIVATIVES**  
EŞME A., Sagdinc S., KARA Y. S.  
JOURNAL OF STRUCTURAL CHEMISTRY, vol.62, no.6, pp.865-875, 2021 (SCI-Expanded)
- VIII. **Theoretical and Experimental Study of the Acid Corrosion Inhibition of Copper by Aspirin (Acetylsalicylic Acid)**  
Kayadibi F., Sagdinc S., ZOR S.  
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.56, no.1, pp.202-213, 2020 (SCI-Expanded)
- IX. **Conformational, spectroscopic (FT-IR, FT-Raman, and UV-Vis), and molecular docking studies of N-(2-hydroxyethyl) succinimide**  
Eşme A., Sagdinc S.  
Journal of Molecular Structure, vol.1195, pp.451-461, 2019 (SCI-Expanded)
- X. **Hirshfeld surface analysis of diclofenac acid**  
GÜNEŞDOĞDU SAĞDINÇ S., baylan d.  
AIP Conference Proceedings, vol.2178, 2019 (SCI-Expanded)
- XI. **Theoretical and spectroscopic studies of a tricyclic antidepressant, imipramine hydrochloride**  
Sagdinc S., AZKESKİN C., EŞME A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1161, pp.169-184, 2018 (SCI-Expanded)
- XII. **Molecular structures, spectroscopic (FT-IR, NMR, UV) studies, NBO analysis and NLO properties for tautomeric forms of 1,3-dimethyl-5-(phenylazo)-6-aminouracil by density functional method**  
EŞME A., Sagdinc S.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.188, pp.443-455, 2018 (SCI-Expanded)
- XIII. **Quantum Chemical Calculations of the Spectroscopic Properties and Nonlinear Optical Activity of 2,6-Dibromo-3-Chloro-4-Fluoroaniline**  
EŞME A., Sagdinc S.  
JOURNAL OF APPLIED SPECTROSCOPY, vol.84, no.6, pp.1098-1107, 2018 (SCI-Expanded)
- XIV. **Theoretical Studies of Molecular Structures, Infrared Spectra, NBO and NLO Properties of Some Novel 5-aryloxy-6-hydroxy-4-phenyl-3-cyano-2-pyridone Dyes**  
EŞME A., Sagdinc S.  
ACTA PHYSICA POLONICA A, vol.130, no.6, pp.1273-1287, 2016 (SCI-Expanded)
- XV. **Experimental and theoretical evaluation of the inhibition properties of ketoprofen for the corrosion of a copper surface in hydrochloric acid**  
Kayadibi F., Zor S., Sagdinc S.  
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.52, pp.356-371, 2016 (SCI-Expanded)
- XVI. **Infrared Spectrum and UV-Induced Photochemistry of Matrix-Isolated 5-Hydroxyquinoline**  
Kus N., Sagdinc S., Fausto R.  
JOURNAL OF PHYSICAL CHEMISTRY A, vol.119, pp.6296-6308, 2015 (SCI-Expanded)
- XVII. **FT-IR and FT-Raman spectra, molecular structure and first-order molecular hyperpolarizabilities of a potential antihistaminic drug, cyproheptadine HCl**  
Sagdinc S., Erdas D., Gündüz I., Sahinturk A. E.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.134, pp.350-360, 2015 (SCI-Expanded)
- XVIII. **Density functional theory studies on the corrosion inhibition of benzoin, benzil, benzoin-(4-**

**phenylthiosemicarbazone) and benzil-(4-phenylthiosemicarbazone) of mild steel in hydrochloric acid**

Kayadibi F., Sagdinc S., Kara Y. S.

PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.51, pp.143-154, 2015 (SCI-Expanded)

- XIX. **Theoretical study of 11-thiocyanatoundecanoic acid phenylamide derivatives on corrosion inhibition efficiencies**  
Sagdinc S., Kara Y. S., Kayadibi F.  
CANADIAN JOURNAL OF CHEMISTRY, vol.92, pp.876-887, 2014 (SCI-Expanded)
- XX. **Experimental and Theoretical Study of Sulfathiazole as Environmentally Friendly Inhibitor on Aluminum Corrosion in NaCl**  
Zor S., Sagdinc S.  
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.50, pp.244-253, 2014 (SCI-Expanded)
- XXI. **Experimental and theoretical studies on Sudan Red G [1-(2-methoxyphenylazo)-2-naphthol] and its Cu(II) complex** *Journal of Molecular Structure*  
Güneşdoğdu Sağdınc S., Eşme A.  
*Journal Of Molecular Structure*, vol.1075, pp.264-278, 2014 (SCI-Expanded)
- XXII. **Theoretical elucidation on corrosion inhibition efficiency of 11-cyano undecanoic acid phenylamide derivatives: DFT study**  
Sagdinc S., Kara Y. S.  
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.50, pp.111-116, 2014 (SCI-Expanded)
- XXIII. **The vibrational studies and theoretical investigation of structure, electronic and non-linear optical properties of Sudan III [1-[[4-(phenylazo) phenyl]azo]-2-naphthalenol]**  
EŞME A., Sagdinc S.  
*JOURNAL OF MOLECULAR STRUCTURE*, vol.1048, pp.185-195, 2013 (SCI-Expanded)
- XXIV. **Experimental and theoretical investigations of 4 chloro N 2 methoxyphenyl benzamidoxime**  
KARA Y. S., GÜNEŞDOĞDU SAĞDINÇ S., KARADAYI N.  
*Spectrochimica Acta Part A-Molecular And Biomolecular Spectroscopy*, vol.110, pp.351-363, 2013 (SCI-Expanded)
- XXV. **Molecular structure, FT-IR, FT-Raman, NMR studies and first order molecular hyperpolarizabilities by the DFT method of mirtazapine and its comparison with mianserin**  
GÜNEŞDOĞDU SAĞDINÇ S., ERBAY ŞAHİNTÜRK A.  
*SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*, vol.104, pp.222-234, 2013 (SCI-Expanded)
- XXVI. **Study of the solvent effects on the molecular structure and C=O stretching vibrations of flurbiprofen**  
TEKİN N., Pir H., Sagdinc S.  
*SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*, vol.98, pp.122-131, 2012 (SCI-Expanded)
- XXVII. **Theoretical study on the relationship between the molecular structure and corrosion inhibition efficiency of long alkyl side chain acetamide and isoxazolidine derivatives**  
KARA Y. S., Sagdinc S., EŞME A.  
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.48, no.6, pp.710-721, 2012 (SCI-Expanded)
- XXVIII. **Density functional theory and vibrational studies of mianserin and its hydrochloride and hydrobromide salts**  
Güneşdoğdu Sağdınc S., Erbay Şahintürk A.  
*Journal Of Molecular Structure*, vol.1021, pp.53-62, 2012 (SCI-Expanded)
- XXIX. **Experimental and Quantum Chemical Studies of 5-Fluoroisatin-3-(N-Cyclohexylthiosemicarbazone) and Its Metal Complexes**  
GÜNEŞDOĞDU SAĞDINÇ S., Kandemirli f., Köksoy B., Bayarı S.  
*PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS*, vol.10, pp.1243-1260, 2012 (SCI-Expanded)
- XXX. **Theoretical and vibrational studies of 4,5-diphenyl-2-oxazole propionic acid (oxaprozin)**

- Sagdinc S., EŞME A.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.75, no.4, pp.1370-1376, 2010 (SCI-Expanded)
- XXXI. **Spectroscopic and DFT studies of flurbiprofen as dimer and its Cu(II) and Hg(II) complexes**  
Sagdinc S., Pir H.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.73, no.1, pp.181-194, 2009 (SCI-Expanded)
- XXXII. **Theoretical and spectroscopic studies of 5-fluoro-isatin-3-(N-benzylthiosemicarbazone) and its zinc(II) complex**  
Sagdinc S., Koksoy B., Kandemirli F., Bayari S. H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.917, pp.63-70, 2009 (SCI-Expanded)
- XXXIII. **IR spectroscopic studies on the transmission of substituent effects to carbonyl and thiocarbonyl stretching frequencies in 4-substituted phenyl-4,5-dihydrobenzo [f] [1,4] oxazepin-3 (2H)-ones (thiones)**  
Ağırbaş H., Kemal B., GÜNEŞDOĞDU SAĞDINÇ S., Bilgiç S.  
VIBRATIONAL SPECTROSCOPY, vol.50, pp.307-311, 2009 (SCI-Expanded)
- XXXIV. **Molecular structure and vibrational spectra of gamma-oxo [1,1'-biphenyl]-4-butanoic acid (fenbufen) and its interaction with ofloxacin**  
BAYARI S., Sagdinc S.  
STRUCTURAL CHEMISTRY, vol.19, no.3, pp.381-390, 2008 (SCI-Expanded)
- XXXV. **Synthesis and theoretical study of bis(fluoroisatinato) mercury(II)**  
Kandemirli f., Köksoy B., Arslan T., GÜNEŞDOĞDU SAĞDINÇ S., Berber H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.921, pp.172-177, 2008 (SCI-Expanded)
- XXXVI. **Synthesis, infrared spectral studies and theoretical calculations of 4-phenyl-4,5-dihydrobenzo[f] [1,4]oxazepin-3(2H)-one (thione)**  
Ağırbaş H., GÜNEŞDOĞDU SAĞDINÇ S., Kandemirli f., Kemal B.  
JOURNAL OF MOLECULAR STRUCTURE, vol.892, pp.132-139, 2008 (SCI-Expanded)
- XXXVII. **Theoretical study of corrosion inhibition of amides and thiosemicarbazones**  
KANDEMİRLİ F., Sagdinc S.  
CORROSION SCIENCE, vol.49, no.5, pp.2118-2130, 2007 (SCI-Expanded)
- XXXVIII. **Synthesis, IR spectral studies and quantum-chemical calculations on 1,2-dihydronaphto[1,2-e]oxazine-3-thiones and 3,4-dihydrobenzo[e][1,3]oxazine-2-thione**  
Agirbas H., Sagdinc S., Kandemirli F., Ozturk D.  
JOURNAL OF MOLECULAR STRUCTURE, vol.830, pp.116-125, 2007 (SCI-Expanded)
- XXXIX. **Ab initio and density functional computations of the vibrational spectrum, molecular geometry and some molecular properties of the antidepressant drug (zoloft) hydrochloride**  
Güneşdoğdu Sağdınç S., Kandemirli F., Bayarı S.  
Spectrochimica Acta Part A-Molecular And Biomolecular Spectroscopy, vol.188, pp.443-455, 2007 (SCI-Expanded)
- XL. **Experimental and Theoretical Infrared Spectra of Famotidine and Its Interaction with Ofloxacin**  
GÜNEŞDOĞDU SAĞDINÇ S., BAYARI S.  
JOURNAL OF MOLECULAR STRUCTURE, pp.369-376, 2005 (SCI-Expanded)
- XLI. **Spectroscopic studies on the interaction of ofloxacin with metals**  
Sagdinc S., BAYARI S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.691, pp.107-113, 2004 (SCI-Expanded)
- XLII. **Theoretical study of ofloxacin: Geometrical parameters and vibrational wavenumbers**  
Sagdinc S., Bayarı S.  
Journal of Molecular Structure: THEOCHEM, vol.668, pp.93-99, 2004 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Principal component analysis of quantum mechanical descriptors data to reveal the pharmacological activities of oxindole derivatives**  
Köse E., Erkan Köse M. E., GÜNEŞDOĞDU SAĞDINÇ S.  
Results in Chemistry, vol.5, 2023 (ESCI)
- II. **Theoretical and experimental investigation of <sup>13</sup>C NMR and J(C, H) coupling constants for 2-substituted derivatives of diphenylpyraline**  
Alpaslan Ş. C., GÜNEŞDOĞDU SAĞDINÇ S.  
AIP Conference Proceedings, 2019 (Peer-Reviewed Journal)
- III. **The linear, nonlinear optical properties and quantum chemical parameters of some sudan dyes**  
Eşme A., Güneşdoğdu Sağdınç S.  
BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.16, no.1, pp.47-75, 2014 (Peer-Reviewed Journal)
- IV. **5-Nitro-1h-İndol-2,3-Dion-3-(NFeniltiyosemikarbazon) molekülünün infrared spektroskopisi ve teorik incelenmesi**  
GÜNEŞDOĞDU SAĞDINÇ S., KANDEMİRLİ F., Karalı N., Dimiglo A.  
BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.9, pp.3-16, 2007 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Temel Bileşen Analiz Yöntemiyle Oksindol Türevlerinin Farmakolojik Etkilerinin İncelenmesi**  
Köse E., Güneşdoğdu Sağdınç S., Köse M. E.  
34.Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.281
- II. **Theoretical study of new schiff base 3-(1-N-dithiooxamide)iminoisatins with morpholine or diphenylamine as corrosion inhibitors**  
GÜNEŞDOĞDU SAĞDINÇ S., EŞME A., KÖKSOY B.  
TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS(TPS-35), bodrum, Turkey, 4 - 08 September 2019
- III. **BENZAMİD VE TİYOASETAMİD' İN ÇELİK KOROZYONU ÜZERİNDEKİ İNHİBİSYONU VE YOĞUNLUK FONKSİYONEL TEORİSİ ÜZERİNE KUANTUM KİMYASAL ÇALIŞMALARI**  
GÜNEŞDOĞDU SAĞDINÇ S., ZOR S., YILDIZ E. A.  
XV. International Corrosion Symposium, 26 - 28 September 2018
- IV. **Spectroscopic (FT-IR, FT-Raman, UV-Vis) Analysis on Monomeric and Dimeric Structures of 4-Pyridazinecarboxylic Acid by HF and DFT Methods**  
EŞME A., GÜNEŞDOĞDU SAĞDINÇ S.  
XXXIV EUROPEAN CONGRESS ON MOLECULAR SPECTROSCOPY - EUCMOS 2018, 19 - 24 August 2018
- V. **The Study of Vibrational Spectroscopies for 5-Bromo-2-oxindole (5Br2O) Dimer**  
EŞME A., GÜNEŞDOĞDU SAĞDINÇ S.  
XXXIV EUROPEAN CONGRESS ON MOLECULAR SPECTROSCOPY - EUCMOS 2018, 19 - 24 August 2018
- VI. **AN EXPERİMENTAL STUDY ON İNHİBİTİON EFFECT OF ASPIRIN ON COPPER IN 0.5 M HYDROCHLORIC ACID SOLUTION**  
GÜNEŞDOĞDU SAĞDINÇ S., KAYADİBİ F., ZOR S.  
2nd INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE AND TECHNOLOGY, 11 - 13 October 2017, pp.755
- VII. **Density Functional Theory and Spectroscopic Studies of 5-Nitro-2-Oxindole**  
YILDIRIMGEÇ B., GÜNEŞDOĞDU SAĞDINÇ S.  
International Turkish Congress on Molecular spectroscopy (TURCMOS2013), 26 - 29 August 2017
- VIII. **Theoretical and vibrational studies of a tricyclic antidepressant, Imipramine hydrochloride**  
GÜNEŞDOĞDU SAĞDINÇ S., AZKESKİN C.  
III. International Turkish Congress on Molecular spectroscopy (TURCMOS2017), 26 - 29 August 2017
- IX. **Theoretical Studies Of Molecular Structures, Infrared Spectra And Nlo Properties Of Some Novel 5-Arylazo-6-Hydroxy-4-Phenyl-3-Cyano-2-Pyridone Dyes**

- EŞME A., GÜNEŞDOĞDU SAĞDINÇ S.  
III. International Turkish Congress on Molecular Spectroscopy (TURCMOS 2017), 26 - 29 August 2017
- X. **The studies of solvent effect on molecular structure and C O stretching vibrations of ketoprofen**  
TEKİN N., GÜNEŞDOĞDU SAĞDINÇ S.  
33rd European Congress on Molecular Spectroscopy, 30 June - 04 August 2016
- XI. **Study of the solvent effects on the molecular structure and C O stretching vibrations of ketoprofen**  
TEKİN N., GÜNEŞDOĞDU SAĞDINÇ S.  
33rd European Congress on Molecular Spectroscopy (EUCMOS 2016), 30 July - 04 August 2016
- XII. **Experimental Study for Inhibition of Copper Corrosion in Hydrochloric Acid Solution by Ketoprofen**  
KAYADİBİ F., GÜNEŞDOĞDU SAĞDINÇ S., ZOR S.  
Uluslararası Malzeme Bilimi ve Teknolojisi Konferansı, 6 - 08 April 2016
- XIII. **An Experimental Study For Inhibition of Copper Corrosion in Hydrochloric Acid Solution by Ketoprofen**  
KAYADİBİ F., GÜNEŞDOĞDU SAĞDINÇ S., ZOR S.  
International Conference on Material Science and Thechnology in Cappadocia, 6 - 08 April 2016
- XIV. **QUANTUM CHEMICAL STUDIES ON THE CORROSION INHIBITION OF ACETYLSALICYLIC ACID ASPIRIN BY DENSITY FUNCTIONAL THEOR**  
KAYADİBİ F., GÜNEŞDOĞDU SAĞDINÇ S., ZOR S.  
Computational Chemistry (CC) Symposium-The main symposium of ICCMSE 2016-, 17 - 20 March 2016
- XV. **Spectroscopic studies on Cu II coordination compound of Sudan Red G 1 2 methoxyphenylazo 2 naphthol**  
EŞME A., GÜNEŞDOĞDU SAĞDINÇ S., YILDIZ S. Z.  
II. International Turkish Congress on Molecular Spectroscopy, Antalya, Turkey, 13 - 18 September 2015
- XVI. **Vibrational spectra first order molecular hyperpolarizability of a potential antihistaminic drug Diphenylpyraline hydrochloride Di HCl**  
GÜNEŞDOĞDU SAĞDINÇ S., ERDAŞ D.  
International Conference on Advances in Vibrational Spectroscopy, 13 - 15 July 2015
- XVII. **Enhancement of Raman Signal of Sudan Molecule by Adding Metallic Nanoparticles**  
ARZU A., DİLEK E., KAÇAR E., GÜNEŞDOĞDU SAĞDINÇ S.  
XXIV ICORS 2014, 10 - 15 August 2014, pp.203
- XVIII. **The DFT and vibrational studies of Sudan Red G**  
EŞME A., GÜNEŞDOĞDU SAĞDINÇ S.  
international turkish congress on molecular spectroscopy (TURCMOS 2013), 15 - 20 September 2013
- XIX. **4 Kloro N 2 metoksifenil benzamidoksim in Sentezi ve Moleküler Yapısının İncelenmesi**  
KARA Y. S., GÜNEŞDOĞDU SAĞDINÇ S., KARADAYI N.  
26.Ulusal Kimya Kongresi, Turkey, 1 - 06 October 2012
- XX. **Density functional theory studies on the corrosion inhibition of benzoin benzil benzoin 4 phenylthiosemicarbazone and benzil 4 phenylthiosemicarbazone of mild steel in hydrochloric acid**  
KAYADİBİ F., GÜNEŞDOĞDU SAĞDINÇ S., KARA Y. S.  
The European Corrosion Congress, 9 - 13 September 2012
- XXI. **The FT IR 1H NMR and 13C NMR spectra studies on 4 chloro N 2 methoxyphenyl benzamidoxime**  
GÜNEŞDOĞDU SAĞDINÇ S., KARADAYI N., KARA Y. S.  
Türk Fizik Derneği 29.Uluslararası Fizik Kongresi, 5 - 08 September 2012
- XXII. **THEORETICAL ELUCATION ON CORROSION INHIBITION EFFICIENCY OF 11 CYNA UNDECANOIC ACID PHENYLAMIDE DERIVATIVES A DFT STUDY**  
GÜNEŞDOĞDU SAĞDINÇ S., KARA Y. S.  
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