

## Assoc. Prof. YEŞİM SANIYE KARA

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: F-5511-2018

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### Education Information

Doctorate, Kocaeli University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2002 - 2009

Postgraduate, Kocaeli University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1998 - 2001

Undergraduate, Istanbul University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1985 - 1989

### Dissertations

Doctorate, Nitril oksit ve amidoksim kullanarak yeni hetero halkalı bileşiklerin sentezi, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2009

Postgraduate, Bazı N-substitue amidoksimlerin sentez ve reaksiyonları, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2001

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Associate Professor, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2018 - Continues

Assistant Professor, Kocaeli University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2016 - 2018

### Courses

Genel Kimya I, Undergraduate, 2016 - 2017

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

- Synthesis of novel 1,2,4-oxadiazine derivatives and the substituent effect study on <sup>13</sup>C NMR spectra**  
Kara Y. S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1310, no.138309, pp.1-8, 2024 (SCI-Expanded)

- II. **4-(4-methoxyphenyl)-6-methyl-3-phenyl-4H-1,2,4-oxadiazin-5(6H)-one: Synthesis, crystal structure, Hirshfeld surface analysis, noncovalent, ADMET studies and biological evaluation**  
EŞME A., KARA Y. S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1282, 2023 (SCI-Expanded)
- III. **Structural and Spectroscopic Characterization of 3-[4-(Trifluoromethyl)Phenyl]-3a,4,8,8a-Tetrahydro-6H-[1,3] Dioxepino[5,6-d][1,2]Oxazole Compound: An Experimental and Density Functional Theory Study**  
GÜMÜŞ H., TEKİN N., KARA Y. S.  
JOURNAL OF APPLIED SPECTROSCOPY, vol.89, no.6, pp.1150-1157, 2023 (SCI-Expanded)
- IV. **Synthesis and substituent effect study on C-13 NMR chemical shifts of 4-(substitue-phenyl)-6-methyl-3-phenyl-4H-1,2,4-oxadiazin-5(6H)-one**  
KARA Y. S., Yildiz B.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1250, 2022 (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. **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)
- VII. **Synthesis of 4-(4-ethyl-phenyl)-3-(4-methyl-phenyl)-1,2,4-oxadiazol-5(4H)-one and 4-(4-ethyl-phenyl)-3-(4-methyl-phenyl)-1,2,4-oxadiazole-5(4H)-thione and solvent effects on their infrared spectra in organic solvents**  
KARA Y. S., ÜNSAL M., TEKİN N., EŞME A.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.251, 2021 (SCI-Expanded)
- VIII. **Dynamic and static fluorescence quenching on the inclusion complex formed by [3-(4-methylphenyl)-4,5-dihydro-1,2-oxazole-4,5-diyl] bis (methylene) diacetate and methyl-beta-cyclodextrin in aqueous media**  
Ay Ü., Sarli S. E., KARA Y. S.  
SPECTROSCOPY LETTERS, vol.53, no.9, pp.692-704, 2020 (SCI-Expanded)
- IX. **Substituent effect study on the experimental C-13 NMR chemical shifts of 3-(substituted phenyl)-3a,4,8,8a-tetrahydro-1,3-dioxepino[5,6-d] [1,2] isoxazoles**  
KARA Y. S., Yalduz S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1193, pp.158-165, 2019 (SCI-Expanded)
- X. **Substituent effect study on experimental C-13 NMR chemical shifts of (3-(substituted phenyl)-cis-4,5-dihydroisoxazole-4,5-diyl)-bis(methylene)diacetate derivatives**  
Kara Y. S.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.151, pp.723-730, 2015 (SCI-Expanded)
- XI. **C-13 NMR substituent-induced chemical shifts in 4-(substituted phenyl)-3-phenyl-1,2,4-oxadiazol-5(4H)-ones (thiones)**  
Kara Y. S.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.149, pp.920-927, 2015 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **Comparison of molecular structures with DFT and HF of isoxazoline and isoxazolidine**  
KARA Y. S., Sagdinc S.  
Asian Journal of Chemistry, vol.25, no.14, pp.7904-7910, 2013 (SCI-Expanded)
- XVI. **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)
- XVII. **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)
- XVIII. **C-13 NMR study of substituent effects in 1,2,4-oxadiazole and 1,2,4-thiadiazole derivatives**  
Agirbas H., Kara Y. S.  
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.179, no.7, pp.1435-1443, 2004 (SCI-Expanded)

### Articles Published in Other Journals

- I. **TDOS/PDOS/OPDOS, reduced density gradient (RDG) and molecular docking studies of [3-(3-bromophenyl)-cis-4,5-dihydroisoxazole-4,5-diy]bis(methylene) diacetate**  
Saniye Kara Y. S., Eşme A., Güneşdoğdu Sağdınç S.  
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.24, no.1, pp.100-110, 2022 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Substituent Effect Study on 1,2,4-Thiadiazole Ring with Theoretical <sup>13</sup>C-NMR Chemical Shifts Using DSP Correlation Method**  
Kara Y. S., Tekin N.  
6 th INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Antalya, Turkey, 2 November - 05 December 2023, pp.99
- II. **Characterization of Solvent Effects on P=O Stretching Vibrations of Trimethyl Phosphate by Multiparametric Methods**  
Tekin N., Kara Y. S.  
6 th INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Antalya, Turkey, 2 - 05 November 2023, pp.98
- III. **INVESTIGATION OF SUBSTITUENT EFFECTS IN 1,2,4-OXADIAZINE DERIVATIVES**  
Diran D., Kara Y. S.  
International Marmara Sciences Congress, Kocaeli, Turkey, 9 - 10 June 2023, pp.91-96
- IV. **SUBSTITUENT EFFECT STUDY WITH THEORETICAL <sup>13</sup>C-NMR CHEMICAL SHIFTS (SCS) ON THE 1,2,4-THIADIAZOLE RING**

Kara Y. S.

International Marmara Sciences Congress, Kocaeli, Turkey, 9 - 10 June 2023, pp.113-117

- V. **4-(SÜBSTİTÜE-FENİL)-6-METİL-3-FENİL-4H-1,2,4-OXSADİAZİN-5(6H)-ON BİLEŞİKLERİNİN 13C NMR KİMYASAL KAYMA DEĞERLERİ ÜZERİNDE SÜBSTİTÜENT ETKİ ÇALIŞMASI**  
Kara Y. S., Yıldız B.  
International Antalya Science Research and Innovative Studies Congress, Antalya, Turkey, 18 - 21 December 2021, pp.387-388
- VI. **6-METİL-3,4-DİFENİL-4H-1,2,4-OXSADİAZİN-5(6H)-ON BİLEŞİĞİNİN SENTEZİ VE YAPISINI AYDINLATILMASI**  
Yıldız B., Kara Y. S.  
International Antalya Scientific Research and Innovative Studied Congree, Antalya, Turkey, 18 - 21 December 2021, pp.389-390
- VII. **4-(4-etil-fenil)-3-(4-metil-fenil)-1,2,4-oksadiazol-5(4H)-on ve 4-(4-etil-fenil)-3-(4-metil-fenil)-1,2,4-oksadiazol-5(4H)-tiyon' un C=O/C=N ve C=S/C=N Gerilme Titreşimlerine Çözücü Etkilerinin Araştırılması**  
Ünsal M., Kara Y. S., Tekin N.  
International Marmara Sciences Congress (Spring 2020), Kocaeli, Turkey, 19 - 20 June 2020, pp.93-94
- VIII. **Novel Phthalocyanines Bearing N,N-Bis(propyleneoxy)aniline Moieties: Synthesis and Characterization)**  
KARA Y. S., BİLGİN A., YAĞCI Ç.  
International Science and Technology Conference (ISTEC 2018, Paris, France, 18 - 20 July 2018
- IX. **Nitril Oksidin 4,7-dihidro-2H-1,3-dioksepin Bileşiğine 1,3 Dipolar Siklokatılma Reaksiyonunun İncelenmesi**  
Yalduz S., Kara Y. S.  
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018
- X. **Substituent effect study on experimental 13C NMR chemical shifts of 3-(substituted phenyl)-3a,4,8,8a-tetrahydro-[1,3]dioxepino[5,6-d] [1,2] isoxazole derivatives**  
KARA Y. S.  
International Science and Technology Conference (ISTEC 2018), Paris, France, 18 - 20 July 2018
- XI. **SSP DSP DSP NLR analyses on 13C NMR chemical shifts of 1 2 4 oxadiazole derivatives**  
KARA Y. S.  
Uluslararası Trans Mediterranean Colloquium on Heterocyclic Chemistry, 11 - 15 November 2015
- XII. **SSP DSP analyses on 13C NMR chemical shifts on diacetate derivatives**  
KARA Y. S.  
Uluslararası Trans Mediterranean Colloquium on Heterocyclic Chemistry, 11 - 15 November 2015
- XIII. **4 Sübstitüe fenil 3 fenil 1 2 4 oksadiazol 5 on ve 5 tiyon Bileşiklerinde Sübstitüent Etkinin SSP Analizi Yöntemiyle İncelenmesi**  
KARA Y. S.  
27.Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015
- XIV. **3 Sübstitüe fenil cis 4 5 dihidroisoksazol 4 5 il bis metilen diasetat Bileşiklerinin Sentezi Yapılarının Aydınlatılması**  
KARA Y. S.  
27.Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015
- XV. **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
- XVI. **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

- XVII. **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
- XVIII. **THE DFT STUDY OF THE MOLECULAR PROPERTIES 11 THIOCYANATO UNDECANOIC ACID PHENYLAMIDE DERIVATIVES ON CORROSION INHIBITION EFFICIENCIES**  
GÜNEŞDOĞDU SAĞDINÇ S., KARA Y. S.  
Türk Fizik Derneği 28.Uluslararası Fizik Kongresi, 6 - 09 September 2011
- XIX. **THEORETICAL ELUCATION ON CORROSION INHIBITION EFFICIENCY OF 11 CYNA UNDECANOIC ACID PHENYLAMIDE DERIVATIVES A DFT STUDY**  
GÜNEŞDOĞDU SAĞDINÇ S., KARA Y. S.  
Türk Fizik Derneği 28.Uluslararası Fizik Kongresi, 6 - 09 September 2011
- XX. **QUANTUM CHEMICAL STUDIES ON THE CORROSION INHIBITION OF ISOXAZOLINE DERIVATIVES**  
KARA Y. S., GÜNEŞDOĞDU SAĞDINÇ S.  
25.Ulusal Kimya Kongresi, Turkey, 27 June - 02 July 2011
- XXI. **3 Sübstitüe fenil 4 m tolil 1 2 4 oksadiazol 5 on ve 5 tiyon Bileşiklerindeki C N C O ve C S Gruplarının13C NMR Kimyasal Kaymalarına Sübstitüent Etkisinin İncelenmesi**  
AĞIRBAŞ H., KARA Y. S.  
24.Ulusal Kimya Kongresi, Turkey, 27 June - 02 July 2010

## Supported Projects

MERT O., KARAYÜNLÜ BOZBAŞ S., KARA Y. S., ÖZKAZANÇ H., Project Supported by Higher Education Institutions, Polimer ve Malzeme Ar Ge Laboratuvarı, 2020 - 2020

KARA Y. S., YALDUZ S., Project Supported by Higher Education Institutions, 4,7-DİHİDRO-2H-1,3-DİOKSEPİN BİLEŞİĞİNE NİTRİL OKSİDİN SİKLO KATILMA REAKSİYONUN İNCELENMESİ VE ELDE EDİLECEK ÜRÜNLERİN YAPILARININ AYDINLATILMASI, 2018 - 2018

KARA Y. S., Project Supported by Higher Education Institutions, 3-(4-BROMOFENİL)-4,5-DİHİDROİSOKSAZOL-4,5-İL)-BİS(METİLEN) DİASETAT BİLEŞİĞİNİN X-RAY ÇALIŞMASI, 2016 - 2017

KARA Y. S., Project Supported by Higher Education Institutions, 4-( sübstitüefenil)-3-fenil-1,2,4-okzadiazol-5-on ve 4-(sübstitüefenil)-3-fenil-1,2,4-okzadiazol-5-tiyon türevlerinin 13 C NMR kimyasal kaymaları üzerinde sübstitüent etkinin deneysel ve teorik olarak incelenmesi, 2014 - 2016

KARA Y. S., Project Supported by Higher Education Institutions, {4-[(asetiloksi)metil]-3-sübstitüefenil-4,5-dihidroizoksazol-5-il}metil asetat türevlerinin 13 C NMR kimyasal kaymaları üzerinde sübstitüent etkinin deneysel ve teorik olarak incelenmesi, 2013 - 2015

KARA Y. S., Project Supported by Higher Education Institutions, 3-(4-KLOROFENİL) 4-(2-METOKSİFENİL)-1,2,4-OKSADİAZOL-5(4H)-ON BİLEŞİĞİNİN KRİSTAL YAPISININ DENEYSEL OLARAK İNCELENMESİ, 2014 - 2014

KARA Y. S., Project Supported by Higher Education Institutions, N-Hidroksi-N-(4-Metoksifenil) Benzimidamid ve Metal Komplekslerinin Teorik ve Deneysel Olarak Yapılarının İncelenmesi, 2011 - 2013

## Metrics

Publication: 40

Citation (WoS): 94

Citation (Scopus): 106

H-Index (WoS): 7

H-Index (Scopus): 7