

## Prof. METİN ZORA

### Personal Information

**Email:** zora@metu.edu.tr

**Web:** <https://avesis.metu.edu.tr/zora>

### International Researcher IDs

ScholarID: rZqd64oAAAAJ

ORCID: 0000-0001-7764-2288

Publons / Web Of Science ResearcherID: ABB-7678-2020

ScopusID: 6603747040

Yoksis Researcher ID: 3197

### Education Information

Doctorate, University of Maryland, College Park, Department Of Chemistry And Biochemistry, United States Of America  
1989 - 1994

Postgraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 1985 -  
1988

Undergraduate, Ataturk University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1980 - 1985

### Dissertations

Doctorate, Development of new methodologies for the synthesis of cyclopentenediones and cycloheptadienones by Fischer carbene complexes, University Of Maryland, College Park, Department Of Chemistry And Biochemistry, 1994

Postgraduate, The synthesis and condensation reactions of norbornene-5,6-dicarbonyl compounds, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1988

### Research Areas

Chemistry, Organic Chemistry, Chemistry of Heterocyclic Compounds, Natural Sciences

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2006 - Continues  
Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2000 -  
2006

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1994 -  
2000

Research Assistant, University of Maryland, College Park, Chemical And Life Sciences, Department Of Chemistry And  
Biochemistry, 1989 - 1994

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1986 - 1994

## Academic and Administrative Experience

Fakülte Kurulu Üyesi, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2018 - 2021

Staj Koordinatörü, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1995 - 2021

Fakülte Kurulu Üyesi, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2015 - 2018

Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2006 - 2010

## Advising Theses

ZORA M., Synthesis of spiro-pyrrolopyridazines, Postgraduate, B.AYŞEN(Student), 2021

Zora M., Synthesis of new pyrrole derivatives from npropargylic  $\beta$ -enaminones, Postgraduate, N.KANOVA(Student), 2020

Zora M., Development of new methods for the synthesis of five-, six- and seven-membered heterocyclic compounds, Doctorate, E.KARADENİZ(Student), 2019

Zora M., FACILE SYNTHESIS OF (4-NITROPHENYL)THIO-SUBSTITUTED 1-PYRROLINES, Postgraduate, E.KORKMAZ(Student), 2019

ZORA M., Synthesis of highly substituted alkynylpyridines and development of new methodologies for the synthesis of 1,4-oxazepines, 1,4-thiazepines and 5-methylpyridines /, Doctorate, Y.KELGÖKMEN(Student), 2018

ZORA M., Synthesis of alkynyl-substituted pyrrole and 1,4-thiazepine derivatives, Postgraduate, E.SEREL(Student), 2018

ZORA M., Synthesis of 6-halogen-substituted 2-methylene-2,3-dihydro-1,4-oxazepine derivatives, Postgraduate, Ö.İBİŞ(Student), 2017

ZORA M., Synthesis of iodo-substituted spiro-fused pyridine derivatives, Postgraduate, E.TEKE(Student), 2014

ZORA M., Synthesis of 2-iodomethylene-2,3-dihydro-1,4-oxazepine derivatives, Postgraduate, E.DİKMEN(Student), 2014

ZORA M., Synthesis of pyrroloquinoxalino-fused benzoxazepines and ester-containing iodopyridines, Postgraduate, N.ESRA(Student), 2013

ZORA M., Development of new methods for the synthesis of pyrazoles, 4-iodopyrazoles, isoxazoles and 1,2,4-oxadiazoles, Doctorate, A.KIVRAK(Student), 2011

ZORA M., Synthesis of 4-phenylselenyl-1H-pyrazoles by electrophilic cyclization, Postgraduate, D.DEMİRCİ(Student), 2011

ZORA M., Synthesis of 5-ferrocenyl-4-((4-nitrophenyl)sulfonyl)-1H-pyrazoles by electrophilic cyclization, Postgraduate, F.KARAHAN(Student), 2011

ZORA M., Synthesis of ferrocenyl substituted pyrazoles by Sonogashira and Suzuki-Miyaura cross-coupling reactions, Postgraduate, S.KARABIYIKOĞLU(Student), 2010

ZORA M., Synthesis of 4-iodopyrazole derivatives, Postgraduate, C.YAZICI(Student), 2008

ZORA M., Reaction of propargyl aldehydes with hydrazinium salts: Synthesis of ferrocenyl and phenyl substituted pyrazoles, Postgraduate, A.NUR(Student), 2008

ZORA M., Synthesis of ferrocenyl substituted quinolines, Postgraduate, Ö.Velioğlu(Student), 2008

ZORA M., Synthesis of ferrocenyl quinones and polyquinanes, Postgraduate, T.ERALP(Student), 2005

ZORA M., Synthesis of ferrocenyl cyclopentenones, Postgraduate, T.ASLI(Student), 2005

ZORA M., Synthesis of ferrocenylidene cyclopentenediones, Postgraduate, M.KÖKTÜRK(Student), 2005

ZORA M., Synthesis of ferrocenyl substituted pyrazoles, Postgraduate, M.GÖRMEN(Student), 2005

ZORA M., Synthesis of ferrocenyl cycloheptadienones, Postgraduate, C.AÇIKGÖZ(Student), 2005

ZORA M., Synthesis of ferrocenyl quinones and ferrocenyl based burning rate catalysts, Postgraduate, S.AÇIKALIN(Student), 2003

ZORA M., The reaction of ferrocenyl chromium carbene complex with cyclobutenediones, Postgraduate, B.YÜCEL(Student), 2002

ZORA M., Investigation of the reactions of ferrocenyl carbene complexes of Cr, Mo and W with alkynes, Postgraduate, M.ELİF(Student), 2001

ÖZKAN İ., ZORA M., Theoretical study of unimolecular rearrangement reactions of 1,2-divinylcyclopropane and 1-cyclopropyl-1,3-butadiene, Postgraduate, M.Fatih(Student), 2000

ZORA M., ÖZKAN İ., Theoretical study of unimolecular rearrangement reactions of 1,2-divinylcyclopropane and 1-cyclopropyl-1,3-butadiene, Postgraduate, M.FATİH(Student), 2000

ZORA M., Reaction of 4-methoxy-4-(1-methylethenyl)-2-cyclobutenone derivatives with 2-lithiopropene: Synthesis of eight-membered ring carbocycles, Postgraduate, İ.Koyuncu(Student), 2000

ZORA M., Reaction of 4-methoxy-4-(1-methylethenyl)-2-cyclobutenone derivatives with 2-lithiopropene: Synthesis of eight-membered ring carbocycles, Postgraduate, İ.KOYUNCU(Student), 2000

ZORA M., Ring expansion reactions of 4-alkoxy-4-hexynyl-2-cyclobuten-1-one derivatives with metal carbene complexes, Postgraduate, F.Şahpaz(Student), 1999

ZORA M., The Investigation of the reactions between cyclobutenone derivatives with 2-lithiopropene and alkynylquinole derivatives with Fischer carbene complexes, Postgraduate, E.Ayşin(Student), 1999

ZORA M., Ring expansion reactions of 4-alkoxy-4-hexynyl-2-cyclobutene-1-one derivatives with metal carbene complexes, Postgraduate, F.ŞAHPAZ(Student), 1999

## Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Muğla Sıtkı Koçman Üniversitesi, September, 2022

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

- I. **InCl<sub>3</sub>-Catalyzed One-Pot Synthesis of Pyrrolo/Indolo- and Benzooxazepino-Fused Quinoxalines**  
Aksakal N. E., ZORA M.  
ACS Omega, vol.9, no.30, pp.33251-33260, 2024 (SCI-Expanded)
- II. **Evaluation of Novel Spiro-pyrrolopyridazine Derivatives as Anticancer Compounds: In Vitro Selective Cytotoxicity, Induction of Apoptosis, EGFR Inhibitory Activity, and Molecular Docking Analysis**  
Atmaca H., İlhan S., Çamlı Pulat Ç., DÜNDAR B. A., ZORA M.  
ACS Omega, vol.9, no.22, pp.23713-23723, 2024 (SCI-Expanded)
- III. **Bioevaluation of Spiro N-Propargylic  $\beta$ -Enaminones as Anti-Breast Cancer Agents: In Vitro and Molecular Docking Studies**  
Atmaca H., İlhan S., DÜNDAR B. A., ZORA M.  
Chemistry and Biodiversity, vol.20, no.11, 2023 (SCI-Expanded)
- IV. **N-Propargylic  $\beta$ -enaminones in breast cancer cells: Cytotoxicity, apoptosis, and cell cycle analyses**  
İlhan S., Atmaca H., Yılmaz E. S., Korkmaz E., Zora M.  
Journal of Biochemical and Molecular Toxicology, vol.37, no.4, 2023 (SCI-Expanded)
- V. **Endoplasmic Reticulum Stress-Induced Apoptotic Effects of Novel 1-Pyrroline (3,4-Dihydro-2H-pyrrole) Derivatives on Breast Cancer Cells**  
Atmaca H., İlhan S., Korkmaz E., Zora M.  
Chemistry and Biodiversity, vol.19, no.7, 2022 (SCI-Expanded)
- VI. **A facile synthesis of a novel family of heterotricyclic hybrids: Spiro-pyrrolopyridazines**  
DÜNDAR B. A., ZORA M.  
SYNTHETIC COMMUNICATIONS, vol.52, no.3, pp.356-367, 2022 (SCI-Expanded)
- VII. **4-Propargyl-substituted 1H-pyrroles induce apoptosis and autophagy via extracellular signal-regulated signaling pathway in breast cancer**  
Atmaca H., İlhan S., YILMAZ E. S., ZORA M.  
Archiv der Pharmazie, vol.354, no.10, 2021 (SCI-Expanded)
- VIII. **One-Pot Synthesis of 2-Acetyl-1 H-pyrroles from N-Propargylic  $\beta$ -Enaminones via Intermediacy of 1,4-Oxazepines**  
Kanova N., Dündar B. A., Kelgokmen Y., Zora M.

Journal of Organic Chemistry, vol.86, no.9, pp.6289-6304, 2021 (SCI-Expanded)

- IX. **A facile one-pot synthesis of 2-(prop-2-yn-1-ylidene)-2,3-dihydro-1,4-thiazepines**  
YILMAZ E. S., ZORA M.  
SYNTHETIC COMMUNICATIONS, vol.51, no.5, pp.709-719, 2021 (SCI-Expanded)
- X. **A new approach for the synthesis of spiro and gem-dimethyl-substituted 1,4-oxazepines from N-propargylic beta-enaminones**  
KARADENİZ E., KELGÖKMEN Y., ZORA M.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.58, no.2, pp.466-477, 2021 (SCI-Expanded)
- XI. **A facile synthesis of 6-[(4-nitrophenyl)thio]-substituted 2-methylene-2,3-dihydro-1,4-oxazepines from N-propargylic beta-enaminones**  
KELGÖKMEN Y., KORKMAZ E., ZORA M.  
SYNTHETIC COMMUNICATIONS, vol.51, no.4, pp.541-552, 2021 (SCI-Expanded)
- XII. **A facile synthesis of 6-chloro-2-methylene-2,3-dihydro-1,4-oxazepines from N-propargylic beta-enaminones**  
Ibis O., ZORA M.  
TETRAHEDRON, vol.76, no.48, 2020 (SCI-Expanded)
- XIII. **Synthesis of 3-[(4-Nitrophenyl)thio]-Substituted 4-Methylene-1-pyrrolines from N-Propargylic beta-Enaminones**  
KORKMAZ E., ZORA M.  
JOURNAL OF ORGANIC CHEMISTRY, vol.85, no.7, pp.4937-4950, 2020 (SCI-Expanded)
- XIV. **A New Strategy for the Synthesis of 4-Propargyl-Substituted 1H-Pyrroles from N-(5-phenyl-2,4-pentadiynyl) beta-Enaminones**  
Yılmaz E. S., Zora M.  
CHEMISTRYSELECT, vol.4, pp.11043-11047, 2019 (SCI-Expanded)
- XV. **One-Pot Synthesis of Spiro-2H-pyrroles from N-Propargylic beta-Enaminones**  
KARADENİZ E., ZORA M.  
SYNLETT, vol.30, no.10, pp.1231-1236, 2019 (SCI-Expanded)
- XVI. **Synthesis of 1-Azaspiro[4.5]deca-1,3-dienes from N-Propargylic beta-Enaminones in Basic Medium**  
KARADENİZ E., ZORA M.  
SYNTHESIS-STUTTGART, vol.51, no.10, pp.2157-2170, 2019 (SCI-Expanded)
- XVII. **A new strategy for the synthesis of pyridines from N-propargylic beta-enaminothiones**  
Kelgokmen Y., Zora M.  
ORGANIC & BIOMOLECULAR CHEMISTRY, vol.17, pp.2529-2541, 2019 (SCI-Expanded)
- XVIII. **Synthesis of 1,4-Thiazepines**  
Kelgokmen Y., Zora M.  
JOURNAL OF ORGANIC CHEMISTRY, vol.83, pp.8376-8389, 2018 (SCI-Expanded)
- XIX. **One-pot synthesis of iodine-substituted 1,4-oxazepines**  
ZORA M., DİKMEN E., KELGÖKMEN Y.  
TETRAHEDRON LETTERS, vol.59, no.9, pp.823-827, 2018 (SCI-Expanded)
- XX. **Y Zinc Chloride Mediated Synthesis of 1,4-Oxazepines from N-Propargylic -Enaminones**  
Kelgokmen Y., Çayan Y., Zora M.  
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, pp.7167-7178, 2017 (SCI-Expanded)
- XXI. **Novel ferrocenyl pyrazoles inhibit breast cancer cell viability via induction of apoptosis and inhibition of PI3K/Akt and ERK1/2 signaling**  
Atmaca H., Ozkan A. N., ZORA M.  
CHEMICO-BIOLOGICAL INTERACTIONS, vol.263, pp.28-35, 2017 (SCI-Expanded)
- XXII. **One-pot synthesis of 2-ferrocenyl-substituted pyridines**  
KARADENİZ E., ZORA M.  
TETRAHEDRON LETTERS, vol.57, no.44, pp.4930-4934, 2016 (SCI-Expanded)
- XXIII. **Facile synthesis of alkynyl-, aryl- and ferrocenyl-substituted pyrazoles via Sonogashira and Suzuki-Miyaura approaches**

- KARABIYIKOĞLU S., ZORA M.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.30, no.10, pp.876-885, 2016 (SCI-Expanded)
- XXIV. **One-pot synthesis of 4-(phenylselanyl)-substituted pyrazoles**  
ZORA M., DEMİRCİ D., KIVRAK A., Kelgokmen Y.  
TETRAHEDRON LETTERS, vol.57, no.9, pp.993-997, 2016 (SCI-Expanded)
- XXV. **Facile synthesis of heavily-substituted alkynylpyridines via a Sonogashira approach**  
Kelgokmen Y., Zora M.  
RSC ADVANCES, vol.6, pp.4608-4621, 2016 (SCI-Expanded)
- XXVI. **Facile synthesis of aryl-substituted pyridines via Suzuki-Miyaura approach**  
KARADENİZ E., ZORA M., KILIÇASLAN N. Z.  
TETRAHEDRON, vol.71, no.47, pp.8943-8952, 2015 (SCI-Expanded)
- XXVII. **Facile synthesis of iodopyridines from N-propargylic beta-enaminones via iodine-mediated electrophilic cyclization**  
KARABIYIKOĞLU S., Kelgokmen Y., ZORA M.  
TETRAHEDRON, vol.71, no.25, pp.4324-4333, 2015 (SCI-Expanded)
- XXVIII. **Electrochemical polymerization of a new low-voltage oxidized thienylenepyrrole-derivative and its electrochromic device application**  
Carbas B. B., KIVRAK A., TEKE E., ZORA M., ÖNAL A. M.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.729, pp.15-20, 2014 (SCI-Expanded)
- XXIX. **A novel one-pot synthesis of ferrocenyl-substituted 1,2,4-oxadiazoles**  
ZORA M., KIVRAK A., Kelgokmen Y.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.759, pp.67-73, 2014 (SCI-Expanded)
- XXX. **A novel synthesis of 1,2,4-oxadiazoles and isoxazoles**  
KIVRAK A., ZORA M.  
TETRAHEDRON, vol.70, no.4, pp.817-831, 2014 (SCI-Expanded)
- XXXI. **Synthesis and electropolymerization of an ion sensing and fluorescent fluorene derivative bearing a quinoxaline moiety and its analogues with different donor units**  
KIVRAK A., Carbas B. B., ZORA M., ÖNAL A. M.  
REACTIVE & FUNCTIONAL POLYMERS, vol.72, no.9, pp.613-620, 2012 (SCI-Expanded)
- XXXII. **Synthesis and electropolymerization of a new ion sensitive ethylenedioxy-substituted terthiophene monomer bearing a quinoxaline moiety**  
Carbas B. B., Kivrak A., ZORA M., ÖNAL A. M.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.677, pp.9-14, 2012 (SCI-Expanded)
- XXXIII. **Synthesis of Pyrazoles via CuI-Mediated Electrophilic Cyclizations of alpha,beta-Alkynic Hydrazones**  
ZORA M., KIVRAK A.  
JOURNAL OF ORGANIC CHEMISTRY, vol.76, no.22, pp.9379-9390, 2011 (SCI-Expanded)
- XXXIV. **Synthesis of Pyrazoles via Electrophilic Cyclization**  
ZORA M., KIVRAK A., YAZICI C.  
JOURNAL OF ORGANIC CHEMISTRY, vol.76, no.16, pp.6726-6742, 2011 (SCI-Expanded)
- XXXV. **Synthesis of a novel fluorescent and ion sensitive monomer bearing quinoxaline moieties and its electropolymerization**  
Carbas B. B., KIVRAK A., ZORA M., ÖNAL A. M.  
REACTIVE & FUNCTIONAL POLYMERS, vol.71, no.5, pp.579-587, 2011 (SCI-Expanded)
- XXXVI. **One-pot synthesis of ferrocenyl substituted 1,2,4-oxadiazoles as potential antitumor substances**  
ZORA M., Kivrak A.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.239, 2010 (SCI-Expanded)
- XXXVII. **ORGN 134-Synthesis of 4-alkynylpyrazoles via Sonogashira coupling of 4-iodopyrazoles with terminal acetylenes**  
ZORA M., Karabiyikoglu S., Kivrak A.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.237, 2009 (SCI-Expanded)
- XXXVIII. **ORGN 236-Synthesis of pyrazoles via electrophilic cyclization of hydrazones of alkynals and**

**alkynones**

ZORA M., KIVRAK A.

ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.237, 2009 (SCI-Expanded)

**XXXIX. Synthesis of ferrocenyl quinolines**

ZORA M., VELİOĞLU O.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.693, no.12, pp.2159-2162, 2008 (SCI-Expanded)

**XL. Synthesis of ferrocenyl pyrazoles by the reaction of 3-ferrocenylpropynal with hydrazinium salts**

ZORA M., PİNAR A. N., Odabasoglu M., Bueyuekguengoer O., Turgut G.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.693, no.1, pp.145-154, 2008 (SCI-Expanded)

**XLI. Synthesis of ferrocenyl pyrazoles by the reaction of (2-formyl-1-chlorovinyl)ferrocene with hydrazines**

Zora M., Goermen M.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.692, no.22, pp.5026-5032, 2007 (SCI-Expanded)

**XLII. Coupling of cyclopropylcarbene-chromium complex with ferrocenyl alkynes: synthesis of 5-ferrocenyl-5-hydroxy-2-cyclopentenones and 4-ferrocenyl-4-cyclopentene-1,3-diones**

Zora M., Tumay T. A., Bueyuekguengoer O.

TETRAHEDRON, vol.63, no.19, pp.4018-4026, 2007 (SCI-Expanded)

**XLIII. Efficient one-pot synthesis of cyanoferrocene from ferrocenecarboxaldehyde using NH<sub>2</sub>OH center dot HCl/KI/ZnO/CH<sub>3</sub>CN system**

KIVRAK A., Zora M.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.692, no.11, pp.2346-2349, 2007 (SCI-Expanded)

**XLIV. Coupling of pentacarbonyl[(cyclopropyl)methoxymethylene]molybdenum complex with ferrocenylalkynes: Synthesis of ferrocenyl-substituted cycloheptadienones and cycloheptenediones**

Zora M., Acikgoez C., Odabasoglu M., Bueyuekguengoer O.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.692, no.7, pp.1571-1578, 2007 (SCI-Expanded)

**XLV. Synthesis of 2-ferrocenylidene-4-cyclopentene-1,3-diones**

Zora M., KÖKTÜRK M., Eralp T.

TETRAHEDRON, vol.62, no.44, pp.10344-10351, 2006 (SCI-Expanded)

**XLVI. Propynylferrocene and (phenylethynyl)ferrocene**

Zora M., Acikgoz C., Tumay T. A., Odabasoglu M., Buyukgungor O.

ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.62, 2006 (SCI-Expanded)

**XLVII. 2-pyridiniohydrazinium dichloride**

Zora M., Turgut G., Odabasoglu M., Buyukgungor O.

ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.62, 2006 (SCI-Expanded)

**XLVIII. A comparison of the Cope rearrangements of cis-1,2-divinyleyelopropane, cis-2,3-divinylaziridine, cis-2,3-divinyloxirane, cis-2,3-divinylphosphirane, and cis-2,3-divinylthiirane: A DFT study**

Zora M.

JOURNAL OF ORGANIC CHEMISTRY, vol.70, no.15, pp.6018-6026, 2005 (SCI-Expanded)

**XLIX. (2-Hydroxyethyl)hydraziniurn(2+) dichloride**

Turgut G., Zora M., Odabasoglu M., Ersanli C., Buyukgungor O.

ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.61, 2005 (SCI-Expanded)

**L. NICS evaluation for Cope rearrangements of cis-1,2-divinylcyclopropane and cis-1,2-divinylcyclobutane**

Zora M.

JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.681, pp.113-116, 2004 (SCI-Expanded)

**LI. Transition structures, energetics, and nucleus-independent chemical shifts for 6 pi electrocyclizations of dienylketenes to cyclohexadienones: A DFT study**

Zora M.

JOURNAL OF ORGANIC CHEMISTRY, vol.69, no.6, pp.1940-1947, 2004 (SCI-Expanded)

**LII. Transition structures, energetics, and nucleus-independent chemical shifts for divinylcyclobutene-to-cyclooctatriene rearrangement: A DFT study**

- Zora M.  
JOURNAL OF ORGANIC CHEMISTRY, vol.69, no.3, pp.857-862, 2004 (SCI-Expanded)
- LIII. **Transition structures, energetics, and secondary kinetic isotope effects for cope rearrangements of cis-1,2-divinylcyclobutane and cis-1,2-divinylcyclopropane: A DFT study**  
Ozkan I., Zora M.  
JOURNAL OF ORGANIC CHEMISTRY, vol.68, no.25, pp.9635-9642, 2003 (SCI-Expanded)
- LIV. **Nucleus-independent chemical shift evaluation for benzo- and dibenzo-fused pyrrole, furan and thiophene derivatives**  
ZORA M., ÖZKAN İ.  
Journal of Molecular Structure: THEOCHEM, vol.638, pp.157-162, 2003 (SCI-Expanded)
- LV. **Transition structures and energetics for the Cope rearrangement of cis-1,2-divinylcyclopropane: an ab initio study**  
Zora M., Ozkan I., Danisman M.  
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.636, pp.9-13, 2003 (SCI-Expanded)
- LVI. **Transition structures and energetics for the Cope rearrangement of cis-1,2-divinylcyclobutane: an ab initio study**  
Zora M., Ozkan I.  
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.625, pp.251-256, 2003 (SCI-Expanded)
- LVII. **Synthesis of ferrocenyl quinones**  
Zora M., Yucel B., Acikalin S.  
TETRAHEDRON LETTERS, vol.44, no.10, pp.2237-2241, 2003 (SCI-Expanded)
- LVIII. **A theoretical study of the cycloaddition between cyclopentadiene and allylideneammonium cation: An AM1 study**  
ZORA M.  
Journal of Molecular Structure: THEOCHEM, vol.619, pp.121-133, 2002 (SCI-Expanded)
- LIX. **A theoretical study of electrocyclizations of dienyketenes to cyclohexadienones: an AM1 study**  
Zora M., Sahpaz F., Ozarslan E.  
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.589, pp.111-123, 2002 (SCI-Expanded)
- LX. **Coupling of ferrocenyl chromium carbene complex with cyclobutenediones**  
ZORA M., YÜCEL B., Bekir Peynircioglu N.  
Journal of Organometallic Chemistry, vol.656, pp.11-17, 2002 (SCI-Expanded)
- LXI. **Substituent effects on the transannular ring closure of 2,4-cyclooctadienones to 5,5-fused ring systems: an AM1 study**  
Zora M., Ozkan K.  
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, vol.583, pp.233-239, 2002 (SCI-Expanded)
- LXII. **Reaction of ferrocenylcarbene complexes of Cr, Mo and W with alkynes: Synthesis of ferrocenylcyclobutenones, ferrocenylfurans and ferrocenylketoesters**  
ZORA M., ÜNSAL GÜNGÖR E.  
Tetrahedron Letters, vol.42, no.28, pp.4733-4735, 2001 (SCI-Expanded)
- LXIII. **Ring expansion in the coupling of Fischer-carbene complexes with 1-alkynyl-1-hydroxy cyclic compounds**  
Zora M., Herndon J., Li Y., Rossi J.  
TETRAHEDRON, vol.57, no.24, pp.5097-5107, 2001 (SCI-Expanded)
- LXIV. **Reaction of 4-methoxy-4-(1-methylethenyl)-2-cyclobutenone derivatives with 2-lithiopropene and alpha-lithiostyrene: synthesis of eight-membered ring carbocycles**  
Zora M., Koyuncu I., Yucel B.  
TETRAHEDRON LETTERS, vol.41, no.36, pp.7111-7114, 2000 (SCI-Expanded)
- LXV. **Coupling of cyclobutenediones with Fischer carbene complexes: A one-step synthesis of cyclopentenediones and/or 5-alkylidene-furanones via net insertion of the carbene unit into a C-C bond**  
Zora M., LI Y., HERNDON J. W.

- ORGANOMETALLICS, vol.18, no.21, pp.4429-4436, 1999 (SCI-Expanded)
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- II. **One-pot synthesis of functionalized 1,4-thiazepine derivatives from N-(2,4-pentadiynyl)- $\beta$ -enaminones**  
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256th National Meeting and Exposition of the American-Chemical-Society (ACS) - Nanoscience, Nanotechnology and Beyond, Massachusetts, United States Of America, 19 - 23 August 2018, vol.256
- V. **Development of a new methodology for synthesis of 1,4-thiazepines**  
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- VIII. **N-Proparjilik  $\beta$ -Enaminon Bileşiklerinden Proparjil Süstitüye PiroL Türevlerinin Sentezi**  
YILMAZ E. S., ZORA M.  
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- IX. **Spiro-2H-pirol Türevlerinin Yeni Bir Metotla Sentezi**  
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- XIII. **Development of a new methodology for synthesis of 1,4-oxazepines**  
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- XIV. **Synthesis of 2-(iodomethylene)-2,3-dihydro-1,4-oxazepines**  
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- XV. **2-(İyodometilen)-2,3-dihidro-1,4-oksazepin Türevlerinin N-Proparjilik  $\beta$ -Enaminon Bileşiklerinden Sentezi**  
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- XVIII. **Synthesis of propargyl-substituted pyrroles**  
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- XXVII. **Polymerization of novel donor acceptor type functional fluorene derivatives at C-9 position**  
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- XXVIII. **Synthesis of highly substituted pyridines by Pd-catalyzed Sonogashira and Suzuki-Miyaura couplings of 4-iodopyridines**  
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- XXIX. **Synthesis of 4,5-dihydropyrrolo[1,2-a]quinoxaline and pyrrolo[1,2-a]quinoxaline derivatives**  
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- XXX. **Synthesis of pyridines via electrophilic cyclization of N-propargylic beta-enaminones**

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## Supported Projects

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ZORA M., KORKMAZ E., Project Supported by Higher Education Institutions, N-PROPARJİL-B-ENAMİNON TÜREVLERİNİN SENTEZİ, 2018 - 2019

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ZORA M., Project Supported by Higher Education Institutions, HALOJEN SÜBSTİTÜYE N-PROPARJİLİK B-ENAMİNONLARIN SENTEZİ, 2017 - 2017

ZORA M., Project Supported by Higher Education Institutions, N-(2,4- PENTADİİNİL) -B-ENAMİNON BİLEŞİKLERİNİN SENTEZİ VE TÜREVLENDİRİLMESİ, 2017 - 2017

GÜNBAŞ E. G., DOĞAN Ö., AKDAĞ A., ÖZÇUBUKÇU S., TANYELİ C., ZORA M., Project Supported by Higher Education Institutions, ORGANİK ELEKTRONİK ALANI İÇİN YENİ BİR YAPITAŞININ TASARIMI VE SENTEZİ, 2017 - 2017

ZORA M., Project Supported by Higher Education Institutions, SÜLFENİL SÜBSTİTÜYE B-ENAMİNON TÜREVLERİNİN SENTEZİ, 2017 - 2017

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ZORA M., YAZICI N. E., Project Supported by Higher Education Institutions, DİESTER FONKSİYONEL GRUBU İÇEREN PİRİDİN TÜREVLERİNİN SENTEZİ, 2013 - 2013

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ZORA M., TEKE E., Project Supported by Higher Education Institutions, BİYOLOJİK OLARAK ÖNEMLİ PİROLODİAZEPİN TÜREVLERİNİN SENTEZLENMESİ, 2013 - 2013

ZORA M., KARADENİZ E., Project Supported by Higher Education Institutions, METAL KENETLENME TEPKİMELERİYLE 5-İYOTPİRİDİN BİLEŞİKLERİNİN TÜREVLENDİRİLMESİ, 2013 - 2013

ZORA M., Project Supported by Higher Education Institutions, Asitilenik Hidrazon Bileşiklerinden 5-Ferrosenil-4-(4-Nitrofenilsulfenil) Pirazol Türevlerinin Sentezi, 2011 - 2011

## Activities in Scientific Journals

TURKISH JOURNAL OF CHEMISTRY, Committee Member, 2015 - 2024

## Scientific Refereeing

JOURNAL OF ORGANIC CHEMISTRY, Journal Indexed in SCI-E, November 2023

TETRAHEDRON LETTERS, Journal Indexed in SCI-E, November 2023

TETRAHEDRON LETTERS, Journal Indexed in SCI-E, September 2023

TETRAHEDRON LETTERS, Journal Indexed in SCI-E, July 2023

ORGANIC AND BIOMOLECULAR CHEMISTRY, Journal Indexed in SCI-E, June 2023

JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, November 2022

SYNTHESIS (Stuttgart), Journal Indexed in SCI-E, November 2022

EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, September 2022

JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, July 2022

JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, April 2022

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TURKISH JOURNAL OF CHEMISTRY, SCI Journal, November 2020

EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, September 2020

ARKIVOC, SCI Journal, June 2020

TETRAHEDRON LETTERS, SCI Journal, April 2020

ARKIVOC, SCI Journal, April 2020

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TETRAHEDRON LETTERS, SCI Journal, January 2020

TETRAHEDRON LETTERS, SCI Journal, November 2019

EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, October 2019

ORGANIC COMMUNICATIONS, Other Indexed Journal, September 2019

EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, September 2019

ORGANIC COMMUNICATIONS, Other Indexed Journal, July 2019

TETRAHEDRON LETTERS, SCI Journal, June 2019

SYNTHESIS-STUTTGART, SCI Journal, June 2019

NEW JOURNAL OF CHEMISTRY, SCI Journal, March 2019

JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, January 2019

TETRAHEDRON LETTERS, SCI Journal, December 2018

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SCIENCE, SCI Journal, June 2018  
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ORGANIC & BIOMOLECULAR CHEMISTRY, SCI Journal, May 2018  
JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, January 2018

## **Metrics**

Publication: 111  
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H-Index (Scopus): 25

## **Congress and Symposium Activities**

7. Uluslararası İlaç Kimyası Kongresi, Working Group, Antalya, Turkey, 2019  
256th American Chemical Society Meeting, Working Group, Massachusetts, United States Of America, 2018

## **Invited Talks**

7. Uluslararası İlaç Kimyası Kongresi, Conference, Orta Doğu Teknik Üniversitesi, Turkey, March 2019