

# Prof. Dr. ZEYNEL SEFEROĞLU

## Kişisel Bilgiler

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## Eğitim Bilgileri

Doktora, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Türkiye 2001 - 2006

Yüksek Lisans, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Türkiye 1998 - 2001

Lisans, Hacettepe Üniversitesi, Eğitim Fakültesi, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, Türkiye 1992 - 1998

## Yabancı Diller

Almanca, A2 Temel

İngilizce, B2 Orta Üstü

## Yaptığı Tezler

Doktora, Bazı indol türevlerinden heterosiklik azo boyarmaddelerin sentezi ve özelliklerinin incelenmesi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 2006

Yüksek Lisans, Synthesis of tetracyclic strychnos alkaloids, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2001

## Araştırma Alanları

Organik Kimya, Boya ve Boyarmaddeler Kimyası, Heterosiklik Bileşikler Kimyası, Organik Bileşiklerin Fotokimyası, Organik Reaksiyon Mekanizmaları, Organik Spektroskopi, Temel Bilimler, Mühendislik ve Teknoloji

## Akademik Unvanlar / Görevler

Prof. Dr., Gazi Üniversitesi, Fen Fakültesi, Kimya, 2017 - Devam Ediyor

Prof. Dr., Universitaet Siegen, Chemistry-Biology Faculty, Organic Chemistry, 2022 - 2024

Doç. Dr., Gazi Üniversitesi, Fen Fakültesi, Kimya, 2010 - 2017

Doç. Dr., University of Florida, Kimya, 2016 - 2016

Doç. Dr., Universitaet Siegen, Kimya-Biyoloji Fakültesi, 2012 - 2013

Yrd. Doç. Dr., Gazi Üniversitesi, Fen Fakültesi, Kimya, 2007 - 2010

Öğretim Görevlisi Dr., Gazi Üniversitesi, Fen Bilimleri Enstitüsü, -, 2006 - 2007

Araştırma Görevlisi, Gazi Üniversitesi, Fen Bilimleri Enstitüsü, -, 2005 - 2006

Araştırma Görevlisi, Hacettepe Üniversitesi, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 1999 - 2005

## Akademik İdari Deneyim

Teknopark Yönetim Kurulu, Gazi Üniversitesi, Fen Fakültesi, Kimya, 2021 - 2022

Döner Sermaye Yönetim Kurulu, Gazi Üniversitesi, Fen Fakültesi, Kimya, 2021 - 2022

Proje Koordinasyon Uygulama ve Araştırma Merkezi Danışma Kurulu Üyesi, Gazi Üniversitesi, Fen Fakültesi, Kimya, 2020 - 2022

Rektörlük Stratejik Plan Komisyonu Üyesi, Gazi Üniversitesi, Fen Fakültesi, Kimya, 2020 - 2022

Rektörlük Kalite Komisyonu Üyesi, Gazi Üniversitesi, Fen Fakültesi, Kimya, 2020 - 2022

Döner Sermaye Projeleri Komisyonu Üyesi, Gazi Üniversitesi, Fen Fakültesi, Kimya, 2020 - 2022

BAP Bilimsel Komisyon Üyesi, Gazi Üniversitesi, Fen Fakültesi, Kimya, 2020 - 2022

Araştırma ve Geliştirme Kurum Koordinatörü, Gazi Üniversitesi, Fen Fakültesi, Kimya, 2020 - 2022

Gazi Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2008 - 2009

## Verdiği Dersler

YÜKSEK LİSANS TEZ ÇALIŞMASI, Yüksek Lisans, 2021 - 2022

ORGANİK KİMYADA SENTEZ TASARIMI, Lisans, 2021 - 2022, 2019 - 2020, 2018 - 2019

DOKTORA TEZİNE HAZIRLIK, Doktora, 2021 - 2022

ORGANİK KİMYA 1, Lisans, 2021 - 2022, 2017 - 2018

YÜKSEK LİSANS TEZİNE HAZIRLIK, Yüksek Lisans, 2021 - 2022

ORGANİK BOYAR MADDELER , Doktora, 2021 - 2022

DOKTORA TEZ ÇALIŞMASI, Doktora, 2021 - 2022

GENEL KİMYA, Lisans, 2021 - 2022

ARAŞTIRMA PROJESİ, Lisans, 2021 - 2022

HETERO BİLEŞİKLERİN KİMYASI, Yüksek Lisans, 2020 - 2021, 2016 - 2017, 2015 - 2016

KİMYA LABORATUVARI, Lisans, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2015 - 2016

KİMYA, Lisans, 2019 - 2020

ORGANİK KİMYA, Lisans, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2015 - 2016

HETEROSİKLİK BİLEŞİKLER KİMYASI, Lisans, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016

KİMYA, Lisans, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2015 - 2016

ORGANİK KİMYA LABORATUVARI, Lisans, 2018 - 2019, 2016 - 2017

ORGANİK KİMYAYA GİRİŞ, Lisans, 2019 - 2020

ORGANİK KİMYA LABORATUVARI 1, Lisans, 2017 - 2018

ORGANİK KİMYA 2, Lisans, 2018 - 2019, 2017 - 2018

KİMYA 1, Lisans, 2017 - 2018, 2016 - 2017

ORGANİK KİMYA LABORATUVARI 2, Lisans, 2017 - 2018, 2015 - 2016

## Yönetilen Tezler

Seferoğlu Z., DONÖR-AKSEPTÖR- $\pi$ -DONÖR (D-A- $\pi$ -D) SİSTEMİNE SAHİP FLORESAN DİSİYANOMETİLENVİNİL-1,3-DİKUMARİN BİLEŞİKLERİNİN SENTEZİ VE FOTOFİZİKSEL, KEMOSENSÖR, DOĞRUSAL OLMAYAN OPTİK VE ISISAL ÖZELLİKLERİNİN İNCELENMESİ, Yüksek Lisans, R.METİN(Öğrenci), 2022

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Doktora, M.YAHYA(Öğrenci), 2022

SEFEROĞLU Z., 3-Amino-1-Hetarilflorene/Florenon Ve Türevlerinin Sentezi, Fotofiziksel Özelliklerinin Ve Çift Sarmal/G4-Dna'ya Karşı Etkileşim Mekanizmalarının Spektroskopik Yöntemlerle Belirlenmesi, Yüksek Lisans, H.DUYAR(Öğrenci), 2019

Seferoğlu Z., Merabet N., Synthesis of coumarin-thiophene derived and isatin derived Schiff bases: Application as cyanide chemosensors, DFT calculations and antibacterial activity, Doktora, M.Chemchem(Öğrenci), 2019

SEFEROĞLU Z., Serbest amino grubu içeren sitiril temelli bileşiklerin ve Schiff bazlarının sentezi, fotofiziksel, nlo ve termal özelliklerinin incelenmesi, Yüksek Lisans, A.UTAMA(Öğrenci), 2019

SEFEROĞLU Z., Trifenilamin Temelli Donör- &#928;- Akseptör-Donör (D- &#928;-A-D) Sistemi İçeren Yeni Fonksiyonel Boyar Maddelerin Sentezi, Fotofiziksel, Nlo Ve Isısal Özelliklerinin Araştırılması, Yüksek Lisans, E.Çatal(Öğrenci), 2019

SEFEROĞLU Z., Trifenilamin temelli donör- $\pi$ -akseptör-donör (D- $\pi$ -A-D) sistemi içeren yeni fonksiyonel boyar maddelerin sentezi, fotofiziksel, nlo ve ısısal özelliklerinin araştırılması, Yüksek Lisans, E.ÇATAL(Öğrenci), 2019

SEFEROĞLU Z., 3-amino-1-hetarilflorene/florenon ve türevlerinin sentezi, fotofiziksel özelliklerinin ve çift sarmal/G4-DNA'ya karşı etkileşim mekanizmalarının spektroskopik yöntemlerle belirlenmesi, Yüksek Lisans, H.DUYAR(Öğrenci), 2019

SEFEROĞLU Z., D- $\pi$ -A- $\pi$ -D sistemini içeren yeni fonksiyonel boyar maddelerin sentezi, fotofiziksel ve ısısal özelliklerinin araştırılması, Yüksek Lisans, A.ÖZARSLAN(Öğrenci), 2019

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SEFEROĞLU Z., Kumarin Temelli Organik Floroforların Tasarımı, Sentezi Ve Floresan Prob Olarak Uygulanabilirliğinin Spektroskopik Yöntemlerle İncelenmesi, Doktora, I.Yahaya(Öğrenci), 2018

SEFEROĞLU Z., Kumarin temelli organik floroforların tasarımı, sentezi ve floresan prob olarak uygulanabilirliğinin spektroskopik yöntemlerle incelenmesi, Doktora, I.YAHAYA(Öğrenci), 2018

SEFEROĞLU Z., Kumarin temelli floresan kemosenörlerin sentezi ve fotofiziksel özelliklerinin incelenmesi, Doktora, E.GÜLŞEN(Öğrenci), 2018

SEFEROĞLU Z., Kuvvetli donör ve akseptör grupları içeren yeni azo boyarmaddelerin sentezi, fotofiziksel özelliklerinin ve anyon-kasyon duyarlılıklarının incelenmesi, Yüksek Lisans, Ö.ARSLAN(Öğrenci), 2017

SEFEROĞLU Z., Yeni bir seri 2-(kumarin-3-il)imidazo[1,2-a]pirimidin temelli floroforların geleneksel ve mikrodalga ışıması (MDI) yöntemleriyle sentezlenmesi, fotofiziksel, asidokromik ve ısısal özelliklerinin incelenmesi, Doktora, B.AYDINER(Öğrenci), 2017

SEFEROĞLU Z., Kumarin İçeren Yüksek Floresansa Sahip 3,5-Disübstitüe-2,6-Disiyanoanilin Türevlerinin Mikrodalga Işıması Tekniği Kullanarak Tek Basamakta Sentezi, Fotofiziksel Ve Termal Özelliklerinin İncelenmesi, Yüksek Lisans, V.Korkmaz(Öğrenci), 2017

SEFEROĞLU Z., Kumarin içeren yüksek floresansa sahip 3,5-disübstitüe-2,6-disiyanoanilin türevlerinin mikrodalga ışıması tekniği (MDI) kullanarak tek basamakta sentezi, fotofiziksel ve termal özelliklerinin incelenmesi, Yüksek Lisans, V.KORKMAZ(Öğrenci), 2017

SEFEROĞLU Z., Kuvvetli donör ve akseptör grupları içeren yeni sitiril temelli boyarmaddelerin sentezi, çeşitli fotofiziksel ve NLO özelliklerinin deneysel ve teorik olarak incelenmesi, Yüksek Lisans, Y.BAYRAK(Öğrenci), 2017

SEFEROĞLU Z., Difenilamin temelli yeni azo boyar maddelerin sentezi ve fotofiziksel özelliklerinin incelenmesi, Yüksek Lisans, T.AKSUNGUR(Öğrenci), 2017

SEFEROĞLU Z., Bir seri yeni floren/florenon temelli bileşiklerin sentezi, karakterizasyonu, farklı DNA, RNA ve sentetik oligonükleotidlerle etkileşimlerinin spektroskopik yöntemlerle incelenmesi, Doktora, E.YALÇIN(Öğrenci), 2016

SEFEROĞLU Z., Kumarin-pirazol-triazin halkası içeren floresans melez moleküllerin sentezi, fotofiziksel özellikleri ve anyon algılayıcısı olarak kullanıma potansiyelinin incelenmesi, Yüksek Lisans, M.ALKIŞ(Öğrenci), 2015

SEFEROĞLU Z., Kumarin-Pirazol-Triazin Halkası İçeren Floresans Melez Moleküllerin Sentezi, Fotofiziksel Özellikleri Ve Anyon Algılayıcısı Olarak Kullanılma Potansiyelinin Araştırılması, Yüksek Lisans, M.ALKIŞ(Öğrenci), 2015

SEFEROĞLU Z., Kumarin-pirazolon melez sistemine sahip yeni floresans uçların sentezi, karakterizasyonu, anyonlara ve biyolojik moleküllere karşı ilgililerinin ve sitotoksik etkilerinin belirlenmesi, Doktora, B.BABÜR(Öğrenci), 2015

SEFEROĞLU Z., 3,5-diaril/hetaril-2,6-disiyanoanilinlerin sentez metodlarının geliştirilmesi, Yüksek Lisans,

Y.CEMİLE(Öğrenci), 2014

SEFEROĞLU Z., Yeni floresans kumarin-tiyofen hibrit moleküllerin sentezi ve çeşitli anyonlara karşı duyarlılığının incelenmesi, Yüksek Lisans, U.YANAR(Öğrenci), 2014

SEFEROĞLU Z., ÇEŞİTLİ İNDOL TÜREVELERİNDEN YENİ FENİLAZO BOYARMADDELERİNİN SENTEZİ VE ABSORPSİYON SPEKTRUMLARININ İNCELENMESİ, Yüksek Lisans, N.Tuna(Öğrenci), 2010

SEFEROĞLU Z., Çeşitli indol türevlerinden yeni fenilazo boyar maddelerinin sentezi ve absorpsiyon spektrumlarının incelenmesi, Yüksek Lisans, N.TUNA(Öğrenci), 2010

SEFEROĞLU Z., Yeni azometin bileşiklerinin sentezi ve yapılarının aydınlatılması, Yüksek Lisans, G.ELMACI(Öğrenci), 2010

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A new indanone based dyes bearing dicyanomethylene and salicylidene moieties for selective detection cyanide anion and aromatic amines**  
Yahya M., Keleş E., Metin R., Aydiner B., Seferoğlu N., Barcella A., Şahin E., Sakallı Y., Seferoğlu Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, cilt.462, 2025 (SCI-Expanded)
- II. **Synthesis of fluorescent dicyanomethylenevinyl-1,3-dicoumarin compounds with donor-acceptor- $\pi$ -donor (D-A- $\pi$ -D) system and investigation of their photophysical, NLO, and chemosensor properties: Part 1**  
Metin R., Keleş E., AKTAN E., Barsella A., SEFEROĞLU Z.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, cilt.330, 2025 (SCI-Expanded)
- III. **Acyl thiourea derivatives: Versatile tools for chemosensing and heavy metal remediation**  
Selcuk O., Azizi N., Aminzai M. T., SEFEROĞLU Z., Erben M. F., NURAL Y.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, cilt.12, sa.6, 2024 (SCI-Expanded)
- IV. **Evaluation of the Binding Properties of A New Phenylurea Appended Carbazole Compound to Pepsin/Trypsin by Computational and Multi-Spectral Analysis**  
Gökoğlu E., Doyuran B., Özen G., Duyar H., Taskin-Tok T., Seferoğlu Z.  
JOURNAL OF FLUORESCENCE, cilt.34, sa.5, ss.2359-2371, 2024 (SCI-Expanded)
- V. **D-  $\pi$ -A azo dyes bearing thiazole-diphenylamine units: Synthesis, photophysical and molecular structure properties, and use for dyeing of polyester fabrics**  
Yaman M., Renklitepe C., Kaplan G., Sakallı Y., Seferoğlu N., Şahin E., Seferoğlu Z.  
DYES AND PIGMENTS, cilt.222, 2024 (SCI-Expanded)
- VI. **Colorimetric and fluorimetric detection of CN<sup>-</sup> ion using a highly selective and sensitive chemosensor derived from coumarin-hydrazone**  
Bouali W., Yaman M., Seferoğlu N., Seferoğlu Z.  
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- VII. **Photochromic derivatives of indigo: historical overview of development, challenges and applications**  
Kaplan G., SEFEROĞLU Z., Berdnikova D. V.  
Beilstein Journal of Organic Chemistry, cilt.20, ss.228-242, 2024 (SCI-Expanded)
- VIII. **Novel fluorescent sensors based on coumarin-hydrazide-hydrazone hybrid for the detection of CN<sup>-</sup>, Co<sup>2+</sup> and Ni<sup>2+</sup> ions: DFT and bioimaging in living cells**  
Turhan O., YAMAN M., DİKMEN G., Nural Y., Sarıboyacı A. E., Tasa B. A., Soykan M. N., SEFEROĞLU Z.  
Journal of Molecular Liquids, cilt.392, 2023 (SCI-Expanded)
- IX. **Synthesis, anti-inflammatory activity, inverse molecular docking, and acid dissociation constants of new naphthoquinone-thiazole hybrids**  
Efeoglu C., Taskin S., Selcuk O., Celik B., Tumkaya E., Ece A., Sari H., SEFEROĞLU Z., Ayaz F., Nural Y.  
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- X. **The syntheses, photophysical properties and pH-sensitive studies of heterocyclic azo dyes bearing coumarin-thiophene-thiazole**  
Yahya M., Metin R., AYDINER B., SEFEROĞLU N., SEFEROĞLU Z.

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- XI. **Synthesis, nonlinear optical properties, photophysical, and theoretical studies of azo dye bearing coumarin-thiophene**  
Yahya M., SEFEROĞLU N., Kaplan G., Nural Y., Barsella A., SEFEROĞLU Z.  
Journal of Molecular Structure, cilt.1273, 2023 (SCI-Expanded)
- XII. **Colorimetric and Fluorimetric Chemosensors for Detection of Anions, Cations, pH and Small Molecules**  
SEFEROĞLU Z., AYDINER B.  
Current Organic Synthesis, cilt.20, sa.1, ss.2-3, 2023 (SCI-Expanded)
- XIII. **Nucleophilic Approach to Cyanide Sensing by Chemosensors**  
Keles E., AYDINER B., SEFEROĞLU Z.  
Current Organic Synthesis, cilt.20, sa.1, ss.61-76, 2023 (SCI-Expanded)
- XIV. **The The Synthetic Approaches for Preparation of Indigo and Applications in Denim Industry**  
Kaplan G., SEFEROĞLU Z.  
Current Organic Synthesis, cilt.20, sa.4, ss.361-364, 2023 (SCI-Expanded)
- XV. **Recent advances in colorimetric and fluorometric sensing of neurotransmitters by organic scaffolds**  
Chemchem M., Chemchem A., AYDINER B., SEFEROĞLU Z.  
European Journal of Medicinal Chemistry, cilt.244, 2022 (SCI-Expanded)
- XVI. **The synthesis, photophysical properties, DFT study and textile applications of fluorescent azo dyes bearing coumarin-thiazole**  
YAMAN M., İpek Dirin E., Kaplan G., SEFEROĞLU N., SEFEROĞLU Z.  
Journal of Molecular Liquids, cilt.368, 2022 (SCI-Expanded)
- XVII. **A Novel Fluorescent Probe for the Detection of Cyanide Ions in Solutions and Studies on Its Biophysical Interactions with ctDNA and Proteases**  
Doyuran B., GÖKOĞLU E., Zouitini A., Keles E., TAŞKIN TOK T., SEFEROĞLU N., SEFEROĞLU Z.  
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- XVIII. **Novel push-pull organic dyes bearing Indan-2-one/Inden-1-ylidene and coumarin: Synthesis and photophysical properties**  
Ozbek B. B., AKTAN E., SEFEROĞLU Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, cilt.432, 2022 (SCI-Expanded)
- XIX. **Development and application of non-conventional luminophores with aggregation based emission**  
Wang H., AYDINER B., SEFEROĞLU Z., Bureš F., Liu J.  
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- XX. **Novel urea-thiourea hybrids bearing 1,4-naphthoquinone moiety: Anti-inflammatory activity on mammalian macrophages by regulating intracellular PI3K pathway, and molecular docking study**  
Efeoglu C., Yetkin D., NURAL Y., Ece A., SEFEROĞLU Z., AYAZ F.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1263, sa.1, 2022 (SCI-Expanded)
- XXI. **Synthesis of novel immunomodulatory 1,4-disubstituted bis-1,2,3-triazoles by using click chemistry and their intracellular mechanism of action**  
NURAL Y., Acar I., Yetkin D., Efeoglu C., SEFEROĞLU Z., AYAZ F.  
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- XXII. **Synthesis, characterization, molecular docking and in vitro screening of new metal complexes with coumarin Schiff base as anticholine esterase and antipancreatic cholesterol esterase agents**  
ŞAHİN Ö., Özmen Özdemir Ü., SEFEROĞLU N., Adem Ş., SEFEROĞLU Z.  
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- XXIII. **Structural analysis and calf thymus DNA/HSA binding properties of new carbazole derivative containing piperazine**  
GÖKOĞLU E., Kıpçak F., TAŞKIN TOK T., Duyar H., SEFEROĞLU Z.  
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- XXIV. **Novel carbazole based hydrazone type light-up chemosensors**  
Uzgören-Baran A., Keskin E., Çakmaz D., AYDINER B., ÖZER D., SEFEROĞLU N., SEFEROĞLU Z.

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Kandemir E., ÖZKÜTÜK M., AYDINER B., SEFEROĞLU N., ERER H., SEFEROĞLU Z.  
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- XXVI. **Synthesis of novel acylthioureas bearing naphthoquinone moiety as dual sensor for high-performance naked-eye colorimetric and fluorescence detection of CN<sup>-</sup> and F<sup>-</sup> ions and its application in water and food samples**  
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- XXVII. **Recent advances in the nonlinear optical (NLO) properties of phthalocyanines: A review**  
Yahya M., NURAL Y., SEFEROĞLU Z.  
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- XXIX. **A Review on the Design, Synthesis, and Structure-activity Relationships of Benzothiazole Derivatives against Hypoxic Tumors**  
Kurt A. H., AYAZ L., AYAZ F., SEFEROĞLU Z., NURAL Y.  
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- XXX. **Synthesis and biological activity of pyrrolidine/piperidine substituted 3-amido-9-ethylcarbazole derivatives**  
Sirin S., Duyar H., ASLIM B., SEFEROĞLU Z.  
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- XXXI. **Organic/metal-organic photosensitizers for dye-sensitized solar cells (DSSC): Recent developments, new trends, and future perceptions**  
Yahya M., BOUZIANI A., Ocak C., Seferoglu Z., Sillanpaa M.  
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- XXXII. **Synthesis, Biological Evaluation, Molecular Docking, and Acid Dissociation Constant of New Bis-1,2,3-triazole Compounds**  
Nural Y., Ozdemir S., Yalçin M. S., Demir B., Atabey H., Ece A., SEFEROĞLU Z.  
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