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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

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 Spektroskopisi

Akademik Unvanlar / Görevler

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

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

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

Doç. Dr., Universität 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

Döner Sermaye Yönetim Kurulu, Gazi Üniversitesi, Fen Fakültesi, Kimya, 2021 - Devam Ediyor
Teknopark 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
Döner Sermaye Projeleri Komisyonu Üyesi, Gazi Üniversitesi, Fen Fakültesi, Kimya, 2020 - 2022
Rektörlük Kalite Komisyonu Üyesi, Gazi Üniversitesi, Fen Fakültesi, Kimya, 2020 - 2022
Rektörlüğe Bağlı Koordinatör, 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
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ORGANİK KİMYA LABORATUVARI, Lisans, 2018 - 2019, 2016 - 2017
ORGANİK KİMYAYA GİRİŞ, Lisans, 2019 - 2020
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Yönetilen Tezler

SEFEROĞLU Z., 3-Amino-1-Hetarilfloreon/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, DPT calculations and antibacterial activity, Doktora, M.Chemchem(Öğrenci), 2019
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araştırılması, Yüksek Lisans, A.ÖZARSLAN(Öğrenci), 2019

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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., Kumarin-tiyofen temelli yeni floresan organik boyar maddelerin sentezi ve tiyol grubu içeren amino asitleri belirlemede kullanımlarının araştırılması, Yüksek Lisans, D.ÇAKMAZ(Öğrenci), 2019

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

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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

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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

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

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

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

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **D- π -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., Sakalli Y., SEFEROĞLU N., Şahin E., SEFEROĞLU Z.
Dyes and Pigments, cilt.222, 2024 (SCI-Expanded)
- II. **Colorimetric and fluorimetric detection of CN⁻ ion using a highly selective and sensitive chemosensor derived from coumarin-hydrazone**
Bouali W., YAMAN M., SEFEROĞLU N., SEFEROĞLU Z.
Journal of Photochemistry and Photobiology A: Chemistry, cilt.448, 2024 (SCI-Expanded)
- III. **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)
- IV. **Novel fluorescent sensors based on coumarin-hydrazide-hydrazone hybrid for the detection of CN⁻, Co²⁺ and Ni²⁺ 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)
- V. **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.
Bioorganic and Medicinal Chemistry, cilt.95, 2023 (SCI-Expanded)
- VI. **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, 2023 (SCI-Expanded)
- VII. **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.
Analytical Sciences, cilt.39, sa.6, ss.829-842, 2023 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **The synthesis, photophysical properties, DFT study and textile applications of fluorescent azo dyes**

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YAMAN M., İpek Dirin E., Kaplan G., SEFEROĞLU N., SEFEROĞLU Z.

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- XIV. **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.
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- XV. **A Novel Fluorescent Probe for the Detection of Cyanide Ions in Solutions and Studies on Its Biophysical Interactions with ctDNA and Proteases**
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- XVI. **Development and application of non-conventional luminophores with aggregation based emission**
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- XVII. **Novel urea-thiourea hybrids bearing 1,4-naphthoquinone moiety: Anti-inflammatory activity on mammalian macrophages by regulating intracellular PI3K pathway, and molecular docking study**
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- XVIII. **Synthesis of novel immunomodulatory 1,4-disubstituted bis-1,2,3-triazoles by using click chemistry and their intracellular mechanism of action**
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- XIX. **Synthesis, characterization, molecular docking and in vitro screening of new metal complexes with coumarin Schiff base as anticholine esterase and antipancreatic cholesterol esterase agents**
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- XX. **Structural analysis and calf thymus DNA/HSA binding properties of new carbazole derivative containing piperazine**
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- XXI. **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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- XXII. **Novel fluorescent coumarin-thiazole based sensors for selective determination of cyanide in aqueous media**
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- XXIII. **Recent advances in the nonlinear optical (NLO) properties of phthalocyanines: A review**
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- XXIV. **Synthesis of novel acylthioureas bearing naphthoquinone moiety as dual sensor for high-performance naked-eye colorimetric and fluorescence detection of CN⁻ and F⁻ ions and its application in water and food samples**
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- XXV. **New bis- and tetrakis-1,2,3-triazole derivatives: Synthesis, DNA cleavage, molecular docking, antimicrobial, antioxidant activity and acid dissociation constants**
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- XXVI. **A Review on the Design, Synthesis, and Structure-activity Relationships of Benzothiazole Derivatives against Hypoxic Tumors**

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- XXVII. **Synthesis and biological activity of pyrrolidine/piperidine substituted 3-amido-9-ethylcarbazole derivatives**
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- XXVIII. **Organic/metal-organic photosensitizers for dye-sensitized solar cells (DSSC): Recent developments, new trends, and future perceptions**
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- XXIX. **Synthesis, Biological Evaluation, Molecular Docking, and Acid Dissociation Constant of New Bis-1,2,3-triazole Compounds**
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- XXX. **Synthesis, photophysical, thermal properties and X-Ray studies of novel organic dyes bearing Inden-1-ylidene and fluorene**
Yahya M., Çakmaz D., Achelle S., le Gall E., ŞAHİN E., SEFEROĞLU Z.
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- XXXII. **New naphthoquinone-imidazole hybrids: Synthesis, anion recognition properties, DFT studies and acid dissociation constants**
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- XXXIII. **Fluorene/fluorenone carboxamide derivatives as selective light-up fluorophores for c-myc G-quadruplex**
Duyar H., Portakal H. S., Yalçın E., Kanat B., Doluca O., SEFEROĞLU Z.
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- XXXIV. **Synthesis of new morpholine containing 3-amido-9-ethylcarbazole derivative and studies on its biophysical interactions with calf thymus DNA/HSA**
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- XXXV. **Amino-substituted-1,1-dicyano-2,4-diaryl-1,3-butadiene chromophores: Synthesis and photophysical properties**
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- XXXVIII. **The novel sensitive and selective chemosensors for determination of multiple analytes**
Cakmaz D., Ozarslan A., AYDINER B., Eroglu A. B., SEFEROĞLU N., ŞENÖZ H., SEFEROĞLU Z.
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