

## Prof. ZEYNEL SEFEROĞLU

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-1028-7231

Yoksis Researcher ID: 133549

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2001 - 2006

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 1998 - 2001

Undergraduate, Hacettepe University, Eğitim Fakültesi, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, Turkey 1992 - 1998

### Foreign Languages

German, A2 Elementary

English, B2 Upper Intermediate

### Dissertations

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

Postgraduate, Synthesis of tetracyclic strychnos alkaloids, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2001

### Research Areas

Organic Chemistry, Chemistry of Dyes and Pigments, Chemistry of Heterocyclic Compounds, Photochemistry of Organics, Organic Reaction Mechanisms, Organic Spectroscopy, Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Kimya, 2017 - Continues

Professor, Universitaet Siegen, Chemistry-Biology Faculty, Organic Chemistry, 2022 - 2024

Associate Professor, Gazi University, Fen Fakültesi, Kimya, 2010 - 2017

Associate Professor, University of Florida, Kimya, 2016 - 2016

Associate Professor, Universitaet Siegen, Kimya-Biyoloji Fakültesi, 2012 - 2013

Assistant Professor, Gazi University, Fen Fakültesi, Kimya, 2007 - 2010

Lecturer PhD, Gazi University, Fen Bilimleri Enstitüsü, -, 2006 - 2007

Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, -, 2005 - 2006

Research Assistant, Hacettepe University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 1999 - 2005

## Academic and Administrative Experience

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

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

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

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

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

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

BAP Scientific Commissioner, Gazi University, Fen Fakültesi, Kimya, 2020 - 2022

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

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

## Courses

YÜKSEK LİSANS TEZ ÇALIŞMASI, Postgraduate, 2021 - 2022

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

DOKTORA TEZİNE HAZIRLIK, Doctorate, 2021 - 2022

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

YÜKSEK LİSANS TEZİNE HAZIRLIK, Postgraduate, 2021 - 2022

ORGANİK BOYAR MADDELER , Doctorate, 2021 - 2022

DOKTORA TEZ ÇALIŞMASI, Doctorate, 2021 - 2022

GENEL KİMYA, Undergraduate, 2021 - 2022

ARAŞTIRMA PROJESİ, Undergraduate, 2021 - 2022

HETERO BİLEŞİKLERİN KİMYASI, Postgraduate, 2020 - 2021, 2016 - 2017, 2015 - 2016

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

KİMYA, Undergraduate, 2019 - 2020

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

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

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

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

ORGANİK KİMYAYA GİRİŞ, Undergraduate, 2019 - 2020

ORGANİK KİMYA LABORATUVARI 1, Undergraduate, 2017 - 2018

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

KİMYA 1, Undergraduate, 2017 - 2018, 2016 - 2017

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

## Advising Theses

Seferoğlu Z., SYNTHESIS OF FLUORESCENT DICYANOMETHYLENVINYL-1,3-DICUMARIN COMPOUNDS CONTAINING DONOR-ACCEPTOR- $\pi$ -DONOR (D-A- $\pi$ -D) SYSTEM AND INVESTIGATION OF PHOTOPHYSICAL, CHEMOSENSOR, NONLINEAR OPTICAL AND THERMAL PROPERTIES, Postgraduate, R.METİN(Student), 2022

Seferoğlu Z., DESIGN, SYNTHESIS, AND INVESTIGATION OF PHOTOPHYSICAL AND THERMAL PROPERTIES OF NEW PUSH-PULL DYES FOR SECOND-ORDER NONLINEAR OPTICAL AND CHEMOSENSOR APPLICATIONS, Doctorate,

M.YAHYA(Student), 2022

SEFEROĞLU Z., The Synthesis Of 3-Amino-1-Hetarylfluorene/Fluorenone And Derivatives, Spectroscopic Determination Of Photophysical Properties And Interaction Mechanisms For Double Helix/G4-Dna, Postgraduate, H.DUYAR(Student), 2019

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

SEFEROĞLU Z., The Synthesis Of Free Amino Group Containing Styryl Based Organic Compounds And Their Schiff Base Derivatives As Well As The Investigation Of Their Nlo, Photophysical And Thermal Properties, Postgraduate, A.UTAMA(Student), 2019

SEFEROĞLU Z., Investigation Of Synthesis, Photophysical, Nlo And Thermal Properties Of New Functional Dyes With Trifenilamine Based Donor-&#928;-Acceptor-Donor System, Postgraduate, E.Çatal(Student), 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, Postgraduate, E.ÇATAL(Student), 2019

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

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

SEFEROĞLU Z., Synthesis Of New Fluorescence Organic Dyes Based On Coumarin-Thiophene And Investigation Of Their Usage In The Determination Of Amino Acids Containing Thiol Group, Postgraduate, D.ÇAKMAZ(Student), 2019

SEFEROĞLU Z., The Synthesis And Investigation Of, Spectroscopic And Thermal Properties Of Novel Triphenylamine Based Fluorescent Dyes Bearing Different Functional Groups, Postgraduate, E.KELEŞ(Student), 2019

SEFEROĞLU Z., Design And Synthesis Of Coumarin Based Organic Fluorophores And Investigation Of Their Applications As Fluorescent Probes Via Spectroscopic Methods, Doctorate, I.Yahaya(Student), 2018

SEFEROĞLU Z., Kumarin temelli organik floroflorların tasarımı, sentezi ve floresan prob olarak uygulanabilirliğinin spektroskopik yöntemlerle incelenmesi, Doctorate, I.YAHAYA(Student), 2018

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

SEFEROĞLU Z., The synthesis of new azo dyes containing strong donoracceptor groups and investigation of photophysical properties and anion-kation sensitivity, Postgraduate, Ö.ARSLAN(Student), 2017

SEFEROĞLU Z., Synthesis of a new series 2-(coumarin-3-yl)imidazo[1,2-a]pyrimidine derivatives with conventional microwave irradiation (MWI) method and investigation of photophysical, acidochromic and thermal properties, Doctorate, B.AYDINER(Student), 2017

SEFEROĞLU Z., The Synthesis In One-Pot Of Highly Fluorescent Coumarincontaining 3,5-Disubstituted-2,6-Dicyanoaniline Derivatives Under Microwave Irradiation And Investigation Of Photophysical And Thermal Properties Of, Postgraduate, V.Korkmaz(Student), 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, Postgraduate, V.KORKMAZ(Student), 2017

SEFEROĞLU Z., Synthesis, experimental and theoretical investigation of various photophysical and NLO properties of new series of styryl based dyes containing strong donor-acceptor group, Postgraduate, Y.BAYRAK(Student), 2017

SEFEROĞLU Z., Investigation Of Synthesis And Photophysical Properties Of Diphenylamine Based New Azo Dye, Postgraduate, T.AKSUNGUR(Student), 2017

SEFEROĞLU Z., The Synthesis And Characterization Of Novel Compounds Based On Fluorene/Fluorenone Ring And Determination Of Their Interaction Studies With Different Dna, Rna And Synthetic Oligonucleotides By Spectroscopic Methods, Doctorate, E.YALÇIN(Student), 2016

SEFEROĞLU Z., Kumarin-pirazol-triazin halkası içeren floresans melez moleküllerin sentezi, fotofiziksel özellikleri ve anyon algılayıcısı olarak kullanılma potansiyelinin incelenmesi, Postgraduate, M.ALKIŞ(Student), 2015

SEFEROĞLU Z., The Synthesis Of The Fluorescence Hybride Molecules That Have Coumarin-Pyrazol/Pyrazolone-Triazine Ring, The Examination Of Photophysical Features And Potential As Anion Sensor, Postgraduate, M.ALKIŞ(Student), 2015

SEFEROĞLU Z., Synthesis And Characterization Of New Fluorescent Probes With Coumarin-Pyrazolone Hybrid System, Investigation Of The Affinity Of These Molecules For Anions And Biomolecules And Determination Of Cytotoxic Effects, Doctorate, B.BABÜR(Student), 2015

SEFEROĞLU Z., The development of synthesis method for 3,5-diaryl/hetaryl-2,6-dicyanoanilines, Postgraduate, Y.CEMİLE(Student), 2014

SEFEROĞLU Z., Synthesis of new fluorescent coumarin-thiophene hybrid molecules and investigation of anion sensitive to various anions, Postgraduate, U.YANAR(Student), 2014

SEFEROĞLU Z., THE SYNTHESIS OF NEW PHENYLAZO DYES FROM VARIOUS INDOL DERIVATIVES AND INVESTIGATION OF THEIR ABSORPTION SPECTRA, Postgraduate, N.Tuna(Student), 2010

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

SEFEROĞLU Z., Yeni azometin bileşiklerinin sentezi ve yapılarının aydınlatılması, Postgraduate, G.ELMACI(Student), 2010

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

- I. **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, vol.12, no.6, 2024 (SCI-Expanded)
- II. **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, vol.34, no.5, pp.2359-2371, 2024 (SCI-Expanded)
- III. **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., Sakalli Y., SEFEROĞLU N., Şahin E., SEFEROĞLU Z.  
Dyes and Pigments, vol.222, 2024 (SCI-Expanded)
- IV. **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.  
Journal of Photochemistry and Photobiology A: Chemistry, vol.448, 2024 (SCI-Expanded)
- V. **Photochromic derivatives of indigo: historical overview of development, challenges and applications**  
Kaplan G., SEFEROĞLU Z., Berdnikova D. V.  
Beilstein Journal of Organic Chemistry, vol.20, pp.228-242, 2024 (SCI-Expanded)
- VI. **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, vol.392, 2023 (SCI-Expanded)
- VII. **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, vol.95, 2023 (SCI-Expanded)
- VIII. **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, vol.39, no.6, pp.829-842, 2023 (SCI-Expanded)
- IX. **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, vol.1273, 2023 (SCI-Expanded)
- X. **Nucleophilic Approach to Cyanide Sensing by Chemosensors**

Keles E., AYDINER B., SEFEROĞLU Z.

Current Organic Synthesis, vol.20, no.1, pp.61-76, 2023 (SCI-Expanded)

- XI. **Colorimetric and Fluorimetric Chemosensors for Detection of Anions, Cations, pH and Small Molecules**  
SEFEROĞLU Z., AYDINER B.  
Current Organic Synthesis, vol.20, no.1, pp.2-3, 2023 (SCI-Expanded)
- XII. **The The Synthetic Approaches for Preparation of Indigo and Applications in Denim Industry**  
Kaplan G., SEFEROĞLU Z.  
Current Organic Synthesis, vol.20, no.4, pp.361-364, 2023 (SCI-Expanded)
- XIII. **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, vol.244, 2022 (SCI-Expanded)
- XIV. **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, vol.368, 2022 (SCI-Expanded)
- XV. **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, vol.432, 2022 (SCI-Expanded)
- XVI. **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.  
JOURNAL OF FLUORESCENCE, vol.32, no.6, pp.2173-2188, 2022 (SCI-Expanded)
- 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**  
Efeoglu C., Yetkin D., NURAL Y., Ece A., SEFEROĞLU Z., AYAZ F.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1263, no.1, 2022 (SCI-Expanded)
- XVIII. **Development and application of non-conventional luminophores with aggregation based emission**  
Wang H., AYDINER B., SEFEROĞLU Z., Bureš F., Liu J.  
Dyes and Pigments, vol.205, 2022 (SCI-Expanded)
- XIX. **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.  
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.69, 2022 (SCI-Expanded)
- XX. **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.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.10, pp.4460-4474, 2022 (SCI-Expanded)
- XXI. **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.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.426, 2022 (SCI-Expanded)
- XXII. **Novel carbazole based hydrazone type light-up chemosensors**  
Uzgören-Baran A., Keskin E., Çakmaz D., AYDINER B., ÖZER D., SEFEROĞLU N., SEFEROĞLU Z.  
Journal of Molecular Structure, vol.1250, 2022 (SCI-Expanded)
- XXIII. **Novel fluorescent coumarin-thiazole based sensors for selective determination of cyanide in aqueous media**  
Kandemir E., ÖZKÜTÜK M., AYDINER B., SEFEROĞLU N., ERER H., SEFEROĞLU Z.  
Journal of Molecular Structure, vol.1249, 2022 (SCI-Expanded)
- XXIV. **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**

Nural Y., Karasu E., Keleş E., AYDINER B., SEFEROĞLU N., Efeoğlu Ç., ŞAHİN E., SEFEROĞLU Z.

Dyes and Pigments, vol.198, 2022 (SCI-Expanded)

- XXV. **Recent advances in the nonlinear optical (NLO) properties of phthalocyanines: A review**  
Yahya M., NURAL Y., SEFEROĞLU Z.  
DYES AND PIGMENTS, vol.198, 2022 (SCI-Expanded)
- XXVI. **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.  
CURRENT ORGANIC SYNTHESIS, vol.19, no.7, pp.772-796, 2022 (SCI-Expanded)
- XXVII. **New bis- and tetrakis-1,2,3-triazole derivatives: Synthesis, DNA cleavage, molecular docking, antimicrobial, antioxidant activity and acid dissociation constants**  
NURAL Y., ÖZDEMİR S., Yalçın M. S., DEMİR B., Atabey H., SEFEROĞLU Z., Ece A.  
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.55, 2022 (SCI-Expanded)
- XXVIII. **Synthesis and biological activity of pyrrolidine/piperidine substituted 3-amido-9-ethylcarbazole derivatives**  
Sirin S., Duyar H., ASLIM B., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1242, 2021 (SCI-Expanded)
- XXIX. **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.  
DYES AND PIGMENTS, vol.192, 2021 (SCI-Expanded)
- XXX. **Synthesis, Biological Evaluation, Molecular Docking, and Acid Dissociation Constant of New Bis-1,2,3-triazole Compounds**  
Nural Y., Ozdemir S., Yalçın M. S., Demir B., Atabey H., Ece A., SEFEROĞLU Z.  
ChemistrySelect, vol.6, no.28, pp.6994-7001, 2021 (SCI-Expanded)
- XXXI. **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.  
Journal of Photochemistry and Photobiology A: Chemistry, vol.416, 2021 (SCI-Expanded)
- XXXII. **Synthesis and investigation of photophysical, NLO and thermal properties of D-π-A-π-D dyes**  
Özarслан A., Çakmaz D., Erol F., Şenöz H., Seferoğlu N., Barsella A., Seferoğlu Z.  
Journal of Molecular Structure, vol.1229, 2021 (SCI-Expanded)
- XXXIII. **New naphthoquinone-imidazole hybrids: Synthesis, anion recognition properties, DFT studies and acid dissociation constants**  
Nural Y., Keleş E., AYDINER B., SEFEROĞLU N., Atabey H., SEFEROĞLU Z.  
Journal of Molecular Liquids, vol.327, 2021 (SCI-Expanded)
- XXXIV. **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.  
Bioorganic and Medicinal Chemistry Letters, vol.36, 2021 (SCI-Expanded)
- XXXV. **Amino-substituted-1,1-dicyano-2,4-diaryl-1,3-butadiene chromophores: Synthesis and photophysical properties**  
Yahya M., SEFEROĞLU N., Barsella A., Achelle S., SEFEROĞLU Z.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.248, 2021 (SCI-Expanded)
- XXXVI. **Synthesis of new morpholine containing 3-amido-9-ethylcarbazole derivative and studies on its biophysical interactions with calf thymus DNA/HSA**  
Kıpcak F., TAŞKIN TOK T., Duyar H., SEFEROĞLU Z., GÖKOĞLU E.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.39, no.5, pp.1561-1571, 2021 (SCI-Expanded)
- XXXVII. **Synthesis, characterization, molecular docking and in vitro screening of new metal complexes with**

**coumarin Schiff base as anticholine esterase and antipancreatic cholesterol esterase agents**

Şahin Ö., Özdemir Özmen Ü., Seferoğlu N., Adem Ş., Seferoğlu Z.

Journal Of Biomolecular Structure & Dynamics, pp.1-15, 2021 (SCI-Expanded)

- 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.  
DYES AND PIGMENTS, vol.183, 2020 (SCI-Expanded)
- XXXIX. **Synthesis, biological properties, and acid dissociation constant of novel naphthoquinone–triazole hybrids**  
Nural Y., Ozdemir S., Doluca O., Demir B., Yalcin M. S., Atabey H., Kanat B., Erat S., Sari H., Seferoğlu Z.  
Bioorganic Chemistry, vol.105, 2020 (SCI-Expanded)
- XL. **Indole based push-pull dyes bearing azo and dimethine: Synthesis, spectroscopic, NLO, anion affinity properties and thermal characterization**  
Keles E., Yahya M., Aktan E., Aydiner B., Seferoğlu N., Barsella A., Seferoğlu Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.402, 2020 (SCI-Expanded)
- XLI. **A highly sensitive and selective fluorescent turn-on chemosensor bearing a 7-diethylaminocoumarin moiety for the detection of cyanide in organic and aqueous solutions**  
AYDINER B., Sahin O., Cakmaz D., Kaplan G., Kaya K., ÖZDEMİR ÖZMEN Ü., SEFEROĞLU N., SEFEROĞLU Z.  
NEW JOURNAL OF CHEMISTRY, vol.44, no.44, pp.19155-19165, 2020 (SCI-Expanded)
- XLII. **Experimental and theoretical studies on monoazo dye including diphenylamine and N - methyl diphenylamine derivatives**  
Aksungur T., Erol F., Seferoğlu N., Seferoğlu Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1217, 2020 (SCI-Expanded)
- XLIII. **Styryl-based new organic chromophores bearing free amino and azomethine groups: synthesis, photophysical, NLO, and thermal properties**  
Putra A. U., Cakmaz D., SEFEROĞLU N., Barsella A., SEFEROĞLU Z.  
BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY, vol.16, pp.2282-2296, 2020 (SCI-Expanded)
- XLIV. **A new mechanism for selective recognition of cyanide in organic and aqueous solution**  
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