

## Prof. ZEYNEL SEFEROĞLU

### Personal Information

Office Phone: [+90 312 202 1525](tel:+903122021525)

Email: [znseferoglu@gazi.edu.tr](mailto:znseferoglu@gazi.edu.tr)

Web: <https://avesis.gazi.edu.tr/znseferoglu>

Address: Gazi Üniversitesi Fen Fakültesi Kimya Bölümü, 06560, Yenimahalle, Ankara

### Education Information

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

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

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

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

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

Post Graduate, 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

### Academic Titles / Tasks

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

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

### Professional Experience

Proje Koordinasyon Uygulama ve Araştırma Merkezi Danışma Kurulu Üyesi, Gazi University, Fen Fakültesi, Kimya, 2020 - Continues  
Rektörlük Kalite Komisyonu Üyesi, Gazi University, Fen Fakültesi, Kimya, 2020 - Continues  
Döner Sermaye Projeleri Komisyonu Üyesi, Gazi University, Fen Fakültesi, Kimya, 2020 - Continues  
Rektörlük Stratejik Plan Komisyonu Üyesi, Gazi University, Fen Fakültesi, Kimya, 2020 - Continues  
Coordinator of The Rectorate, Gazi University, Fen Fakültesi, Kimya, 2020 - Continues  
BAP Scientific Commissioner, Gazi University, Fen Fakültesi, Kimya, 2020 - Continues  
Araştırma ve Geliştirme Kurum Koordinatörü, Gazi University, Fen Fakültesi, Kimya, 2020 - Continues  
Deputy Head of Department, Gazi University, Fen Fakültesi, Kimya Bölümü, 2008 - 2009

## Courses

HETERO BİLEŞİKLERİN KİMYASI, Post Graduate, 2015 - 2016, 2016 - 2017, 2020 - 2021  
KİMYA LABORATUVARI, Under Graduate, 2015 - 2016, 2016 - 2017, 2018 - 2019, 2019 - 2020, 2020 - 2021  
KİMYA, Under Graduate, 2019 - 2020  
ORGANİK KİMYA, Under Graduate, 2015 - 2016, 2016 - 2017, 2018 - 2019, 2019 - 2020  
ORGANİK BOYAR MADDELER , Post Graduate, 2020 - 2021  
HETEROSİKLİK BİLEŞİKLER KİMYASI, Under Graduate, 2015 - 2016, 2017 - 2018, 2018 - 2019, 2019 - 2020  
ORGANİK KİMYADA SENTEZ, Under Graduate, 2018 - 2019, 2019 - 2020  
KİMYA, Under Graduate, 2015 - 2016, 2016 - 2017, 2018 - 2019, 2019 - 2020  
ORGANİK KİMYA LABORATUVARI, Under Graduate, 2016 - 2017, 2018 - 2019  
ORGANİK KİMYAYA GİRİŞ, Under Graduate, 2019 - 2020  
ORGANİK KİMYA 1, Under Graduate, 2017 - 2018  
ORGANİK KİMYA LABORATUVARI 1, Under Graduate, 2017 - 2018  
ORGANİK KİMYA 2, Under Graduate, 2017 - 2018, 2018 - 2019  
KİMYA 1, Under Graduate, 2016 - 2017, 2017 - 2018  
ORGANİK KİMYA LABORATUVARI 2, Under Graduate, 2015 - 2016, 2017 - 2018

## Advising Theses

Seferoğlu Z., Merabet N., Synthesis of coumarin-thiophene derived and isatin derived Schiff bases: Application as cyanide chemosensors, DPT calculations and antibacterial activity, Doctorate, M.Chemchem(Student), 2019  
SEFEROĞLU Z., Serbest amino grubu içeren sitiril temelli bileşiklerin ve Schiff bazlarının sentezi, fotofiziksel, nlo ve termal özelliklerinin incelenmesi, Post Graduate, A.UTAMA(Student), 2019  
SEFEROĞLU Z., Kumarin-tiyofen temelli yeni floresan organik boyar maddelerin sentezi ve tiyol grubu içeren amino asitleri belirlemede kullanımlarının araştırılması, Post Graduate, D.ÇAKMAZ(Student), 2019  
SEFEROĞLU Z., D- $\pi$ -A- $\pi$ -D sistemini içeren yeni fonksiyonel boyar maddelerin sentezi, fotofiziksel ve ısıl özelliklerinin araştırılması, Post Graduate, A.ÖZARSLAN(Student), 2019  
SEFEROĞLU Z., Investigation Of Synthesis, Photophysical, Nlo And Thermal Properties Of New Functional Dyes With Trifenilamine Based Donor-Acceptor-Donor System, 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 ısıl özelliklerinin araştırılması, Post Graduate, E.ÇATAL(Student), 2019  
SEFEROĞLU Z., The Synthesis And Investigation Of, Spectroscopic And Thermal Properties Of Novel Triphenylamine Based Fluorescent Dyes Bearing Different Functional Groups, Post Graduate, E.KELEŞ(Student), 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, Post Graduate, H.DUYAR(Student), 2019  
SEFEROĞLU Z., Design And Synthesis Of Coumarin Based Organic Fluorophores And Investigation Of Their Applications As Fluorescent Probes Via Spectroscopic Methods, I.Yahaya(Student), 2018

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

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

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

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

SEFEROĞLU Z., Investigation Of Synthesis And Photophysical Properties Of Diphenylamine Based New Azo Dye, Post Graduate, T.AKSUNGUR(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, Post Graduate, V.KORKMAZ(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., 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., Kumarin-pirazol-triazin halkası içeren floresans melez moleküllerin sentezi, fotofiziksel özellikleri ve anyon algılayıcısı olarak kullanılma potansiyelinin incelenmesi, Post Graduate, M.ALKIŞ(Student), 2015

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

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

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

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

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

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

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Organic/metal-organic photosensitizers for dye-sensitized solar cells (DSSC): Recent developments, new trends, and future perceptions**  
Yahya M., Bouziani A., Ocak C., Seferoğlu Z., Sillanpää M.  
DYES AND PIGMENTS, vol.192, pp.1-38, 2021 (Journal Indexed in SCI)
- II. **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., Şahin E., Seferoğlu Z.  
Journal Of Photochemistry And Photobiology A-Chemistry, vol.416, pp.1-8, 2021 (Journal Indexed in SCI)

- III. **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 (Journal Indexed in SCI Expanded)
- IV. **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 (Journal Indexed in SCI Expanded)
- V. **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 (Journal Indexed in SCI Expanded)
- VI. **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 (Journal Indexed in SCI Expanded)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **Experimental and theoretical studies on monoazo dye including diphenylamine and N-methyldiphenylamine derivatives**  
Aksungur T., EROL F., SEFEROĞLU N., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1217, 2020 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **Meet Our Associate Editorial Board Member**  
Seferoğlu Z.  
Current Organic Synthesis, vol.17, no.8, pp.593, 2020 (Journal Indexed in SCI)
- XIII. **A new mechanism for selective recognition of cyanide in organic and aqueous solution**  
Keles E., AYDINER B., NURAL Y., SEFEROĞLU N., ŞAHİN E., SEFEROĞLU Z.  
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, vol.2020, no.30, pp.4681-4692, 2020 (Journal Indexed in SCI)
- XIV. **Microwave-enhanced and conventional procedures for the synthesis of coumarin-thiophene amides, sulfonamide, and urea derivatives: Synthesis, photophysical activities, and multiple anions signalling via different mechanisms**  
Yahaya I., Keles E., Putra A. U., Yahya M., SEFEROĞLU N., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1204, 2020 (Journal Indexed in SCI)
- XV. **Synthesis of new morpholine containing 3-amido-9-ethylcarbazole derivative and studies on its biophysical interactions with calf thymus DNA/HSA**  
Kipcak F., TAŞKIN TOK T., Duyar H., SEFEROĞLU Z., GÖKOĞLU E.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, 2020 (Journal Indexed in SCI)
- XVI. **Substituent dependent selectivity of fluorescent chemosensors derived from coumarin for**

### **biologically relevant DNA structures and anions**

Chemchem M., Yahaya I., AYDINER B., Doluca O., SEFEROĞLU N., SEFEROĞLU Z.

SENSORS AND ACTUATORS B-CHEMICAL, vol.305, 2020 (Journal Indexed in SCI)

- XVII. **Synthesis and investigation of photophysical, NLO and thermal properties of D- $\pi$ -A- $\pi$ -D dyes**  
Özarslan A., Çakmaz D., EROL F., ŞENÖZ H., SEFEROĞLU N., Barsella A., SEFEROĞLU Z.  
Journal of Molecular Structure, 2020 (Journal Indexed in SCI Expanded)
- XVIII. **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, 2020 (Journal Indexed in SCI Expanded)
- 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**  
ŞAHİN Ö., Özmen Özdemir Ü., SEFEROĞLU N., Adem Ş., SEFEROĞLU Z.  
Journal of Biomolecular Structure and Dynamics, 2020 (Journal Indexed in SCI Expanded)
- XX. **Novel highly functionalized 1,4-naphthoquinone 2-iminothiazole hybrids: Synthesis, photophysical properties, crystal structure, DFT studies, and anti(myco)bacterial/antifungal activity**  
GEMİLİ M., NURAL Y., Keles E., AYDINER B., SEFEROĞLU N., ÜLGER M., ŞAHİN E., Erat S., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1196, pp.536-546, 2019 (Journal Indexed in SCI)
- XXI. **The synthesis of blue emitting 3-Amino-1-hetarylfluorenes and their unprecedented alkylated derivatives**  
Yalcin E., Duyar H., Cakmaz D., ŞAHİN E., SEFEROĞLU Z.  
TETRAHEDRON, vol.75, no.35, 2019 (Journal Indexed in SCI)
- XXII. **Novel benzildihydrazone based Schiff bases: Syntheses, characterization, thermal properties, theoretical DFT calculations and biological activity studies**  
ELMACI G., Duyar H., AYDINER B., Yahaya I., SEFEROĞLU N., ŞAHİN E., Celik S. P. , AÇIK L., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1184, pp.271-280, 2019 (Journal Indexed in SCI)
- XXIII. **Improved one-pot synthetic conditions for synthesis of functionalized fluorescent coumarin-thiophene hybrids: Syntheses, DFT studies, photophysical and thermal properties**  
Yahaya I., SEFEROĞLU N., SEFEROĞLU Z.  
TETRAHEDRON, vol.75, no.14, pp.2143-2154, 2019 (Journal Indexed in SCI)
- XXIV. **Synthesis and chemical transformations of 3-acetyl-4-hydroxyquinolin-2(1H)-one and its N-substituted derivatives: bird's eye view**  
Abdou M. M. , SEFEROĞLU Z., Fathy M., Akitsu T., Koketsu M., Kellow R., Amigues E.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.45, no.3, pp.919-934, 2019 (Journal Indexed in SCI)
- XXV. **Novel fluorescent coumarin-thiophene-derived Schiff bases: Synthesis, effects of substituents, photophysical properties, DFT calculations, and biological activities**  
Yahaya I., Chemchem M., AYDINER B., SEFEROĞLU N., Tepe F. E. , AÇIK L., Cerci N. A. , TÜRK M., SEFEROĞLU Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.368, pp.296-306, 2019 (Journal Indexed in SCI)
- XXVI. **Novel 1,4-naphthoquinone N-arylthioureas: Syntheses, crystal structure, anion recognition properties, DFT studies and determination of acid dissociation constants**  
GEMİLİ M., NURAL Y., Keles E., AYDINER B., SEFEROĞLU N., ŞAHİN E., SARI H., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR LIQUIDS, vol.269, pp.920-932, 2018 (Journal Indexed in SCI)
- XXVII. **Proton Sensitive Functional Organic Fluorescent Dyes Based on Coumarin-imidazo[1,2-a]pyrimidine; Syntheses, Photophysical Properties, and Investigation of Protonation Ability**  
Aydiner B., Seferoğlu Z.  
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, vol.2018, pp.5921-5934, 2018 (Journal Indexed in SCI)
- XXVIII. **A novel and synthetically facile coumarin-thiophene-derived Schiff base for selective fluorescent detection of cyanide anions in aqueous solution: Synthesis, anion interactions, theoretical study and DNA-binding properties**  
Chemchem M., Yahaya I., AYDINER B., SEFEROĞLU N., Doluca O., Merabet N., SEFEROĞLU Z.

- TETRAHEDRON, vol.74, no.48, pp.6897-6906, 2018 (Journal Indexed in SCI)
- XXIX. **Triphenylamine-based allylidene malononitrile chromophores: synthesis, and photophysical and second-order nonlinear optical properties**  
Catal E., Keles E., SEFEROĞLU N., Achelle S., Barsella A., le Guen F. R., SEFEROĞLU Z.  
NEW JOURNAL OF CHEMISTRY, vol.42, no.18, pp.15052-15060, 2018 (Journal Indexed in SCI)
- XXX. **A coumarin-pyrazolone based fluorescent probe for selective colorimetric and fluorimetric fluoride detection: Synthesis, spectroscopic properties and DFT calculations**  
Babur B., SEFEROĞLU N., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1161, pp.218-225, 2018 (Journal Indexed in SCI)
- XXXI. **The syntheses, molecular structure analyses and DFT studies on new benzil monohydrazone based Schiff bases**  
ELMACI G., Duyar H., AYDINER B., SEFEROĞLU N., Naziri M. A., ŞAHİN E., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1162, pp.37-44, 2018 (Journal Indexed in SCI)
- XXXII. **Spectroscopic studies on the interactions of 5-ethyl-6-phenyl-3,8-bis((3-aminoalkyl)propanamido)phenanthridin-5-ium derivatives with G-quadruplex DNA**  
Yalcin E., Duyar H., Ihmels H., Seferoglu Z.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.196, pp.432-438, 2018 (Journal Indexed in SCI Expanded)
- XXXIII. **A novel coumarin-pyrazole-triazine based fluorescence chemosensor for fluoride detection via deprotonation process: Experimental and theoretical studies**  
Yalcin E., Alkis M., SEFEROĞLU N., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1155, pp.573-581, 2018 (Journal Indexed in SCI)
- XXXIV. **Novel fluorene/fluorenone DNA and RNA binders as efficient non-toxic ds-RNA selective fluorescent probes**  
Yalcin E., Matkovic M., Jukic M., Obrovac L. G., Piantanida I., SEFEROĞLU Z.  
TETRAHEDRON, vol.74, no.5, pp.535-543, 2018 (Journal Indexed in SCI)
- XXXV. **Investigation of binding properties of two ethidium derivatives with serum albumins: spectral and computational approach**  
AKBAY N., TAŞKIN TOK T., SEFEROĞLU Z., GÖKOĞLU E.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.36, no.12, pp.3114-3121, 2018 (Journal Indexed in SCI)
- XXXVI. **New platinum (II) and palladium (II) complexes of coumarin-thiazole Schiff base with a fluorescent chemosensor properties: Synthesis, spectroscopic characterization, X-ray structure determination, in vitro anticancer activity on various human carcinoma cell lines and computational studies**  
Sahin O., ÖZDEMİR ÖZMEN Ü., SEFEROĞLU N., KARAGÖZ GENÇ Z., Kaya K., AYDINER B., TEKİN S., SEFEROĞLU Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, vol.178, pp.428-439, 2018 (Journal Indexed in SCI)
- XXXVII. **Synthesis and investigation of various properties of a novel series of nonlinear optical (NLO) chromophores bearing dicyanovinyl (DCV) moiety**  
SEFEROĞLU N., Bayrak Y., Yalcin E., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1149, pp.510-519, 2017 (Journal Indexed in SCI)
- XXXVIII. **8-Hydroxyquinoline based push-pull azo dye: Novel colorimetric chemosensor for anion detection**  
Arslan O., AYDINER B., Yalcin E., Babur B., SEFEROĞLU N., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1149, pp.499-509, 2017 (Journal Indexed in SCI)
- XXXIX. **Coumarin-indole conjugate donor-acceptor system: Synthesis, photophysical properties, anion sensing ability, theoretical and biological activity studies of two coumarin-indole based push-pull dyes**  
Aksungur T., AYDINER B., SEFEROĞLU N., ÖZKÜTÜK M., Arslan L., Reis Y., AÇIK L., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1147, pp.364-379, 2017 (Journal Indexed in SCI)
- XL. **Combined spectroscopic, XRD crystal structure and DFT studies on 2-(ethylthio)pyrimidine-4,6-diamine**

- AKTAN E., Babur B., SEFEROĞLU N., ÇATIKKAŞ B., KAYNAK F. B. , SEFEROĞLU Z.  
 JOURNAL OF MOLECULAR STRUCTURE, vol.1145, pp.152-159, 2017 (Journal Indexed in SCI)
- XLII. **H-bond stabilization of a tautomeric coumarin-pyrazole-pyridine triad generates a PET driven, reversible and reusable fluorescent chemosensor for anion detection**  
 Alkis M., Pekyilmaz D., Yalcin E., AYDINER B., DEDE Y., SEFEROĞLU Z.  
 DYES AND PIGMENTS, vol.141, pp.493-500, 2017 (Journal Indexed in SCI)
- XLIII. **Investigation of binding properties of dicationic styrylimidazo[1,2-a]pyridinium dyes to human serum albumin by spectroscopic techniques**  
 Ozdemir A., GÖKOĞLU E., Yilmaz E., Yalcin E., Gokoglu E., SEFEROĞLU Z., Tekinay T.  
 LUMINESCENCE, vol.32, no.1, pp.86-92, 2017 (Journal Indexed in SCI)
- XLIII. **Recent Synthetic Methods for the Preparation of Charged and Uncharged Styryl-based NLO Chromophores: A Review**  
 SEFEROĞLU Z.  
 ORGANIC PREPARATIONS AND PROCEDURES INTERNATIONAL, vol.49, no.4, pp.293-337, 2017 (Journal Indexed in SCI)
- XLIV. **Efficient one-pot three-component method for the synthesis of highly fluorescent coumarin-containing 3,5-disubstituted-2,6-dicyanoaniline derivatives under microwave irradiation**  
 AYDINER B., Yalcin E., Korkmaz V., SEFEROĞLU Z.  
 SYNTHETIC COMMUNICATIONS, vol.47, no.23, pp.2174-2188, 2017 (Journal Indexed in SCI)
- XLV. **Advancements in tetronic acid chemistry. Part 2: Use as a simple precursor to privileged heterocyclic motifs**  
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