

## Assoc. Prof. BURCU AYDINER

### Personal Information

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### International Researcher IDs

ScholarID: Fii2z2kAAAAJ

ORCID: 0000-0003-1823-6217

Publons / Web Of Science ResearcherID: AAB-5359-2019

ScopusID: 564444462800

Yoksis Researcher ID: 133342

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2011 - 2017

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 2008 - 2011

Undergraduate, Gazi University, Fen Fakültesi, Kimya Bölümü, Turkey 2003 - 2007

### Dissertations

Doctorate, Yeni bir seri 2-(kumarin-3-il)imidazo[1,2-a]pirimidin temelli floroforların geleneksel ve mikrodalga ışıması (MDI) yöntemleriyle sentezlenmesi, fotofiziksel, asidokromik ve ısıl özelliklerinin incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2017

Postgraduate, Bazı oksokrom (VI) amin bileşiklerinin sentezi, yükseltgeme ve bromlama özelliklerinin incelenmesi, Gazi University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2011

### Research Areas

Chemistry, Magnetic Resonance Spectroscopy, Sensors, Organic Chemistry, Chemistry of Dyes and Pigments, Chemistry of Heterocyclic Compounds, Organic Spectroscopy

### Academic Titles / Tasks

Associate Professor, Gazi University, Fen Fakültesi, Kimya, 2020 - Continues

Lecturer PhD, Gazi University, Rektörlük, Araştırma Geliştirme Kurum Koordinatörlüğü, 2019 - 2020

Lecturer PhD, Gazi University, Fen Fakültesi, Kimya, 2018 - 2019

Expert, Gazi University, Fen Fakültesi, Kimya, 2009 - 2018

Expert, Gazi University, Fen Bilimleri Enstitüsü, -, 2008 - 2009

### Academic and Administrative Experience

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Gazi University, Teknolojik Boyarmaddeler Ve Malzemeler Uygulama Ve Araştırma Merkezi , 2021 - Continues  
Bölüm Kalite Komisyonu Üyesi, Gazi University, Fen Fakültesi, Kimya, 2021 - Continues  
Manager of Research and Application Center, Gazi University, Teknolojik Boyarmaddeler Ve Malzemeler Uygulama Ve Araştırma Merkezi , 2022 - 2024  
Assistant Manager of Research and Application Center, Gazi University, Teknolojik Boyarmaddeler Ve Malzemeler Uygulama Ve Araştırma Merkezi , 2021 - 2022

## Courses

### Undergraduate

Stereokimya, Undergraduate, 2024 - 2025  
CHEMISTRY, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022  
CHEMISTRY LAB., Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
ORGANIC CHEMISTRY LABORATORY , Undergraduate, 2022 - 2023, 2021 - 2022  
ORGANİK KİMYA, Undergraduate, 2023 - 2024  
ORGANIC CHEMISTRY, Undergraduate, 2022 - 2023, 2021 - 2022  
Organik Kimyaya Giriş, Undergraduate, 2022 - 2023  
KİMYA, Undergraduate, 2020 - 2021  
Kimya Laboratuvarı, Undergraduate, 2020 - 2021  
TEMEL KİMYA II, Undergraduate, 2020 - 2021

### Supervised Theses

Aydiner B., DİSİYANOMETİLENPİRAN-KUMARİN TEMELLİ BİLEŞİKLERİN SENTEZİ VE FOTOFİZİKSEL ÖZELLİKLERİNİN İNCELENMESİ, Postgraduate, Z.PERKTAŞ(Student), 2024  
Aydiner B., Determination of cyanide in organic and aqueous media by nucleophilic aromatic substitution reaction, Postgraduate, E.KANDEMİR(Student), 2023  
Aydiner B., Synthesis, investigation of photophysical, chemosensors and thermal properties of new fluorens coumarin-pyrene/anthracene hybrid compounds, Postgraduate, E.Zöhre(Student), 2023

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

- 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, vol.462, 2025 (SCI-Expanded)
- II. **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)
- III. **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)
- IV. **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)

- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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 (SCI-Expanded)
- XV. **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 (SCI-Expanded)
- XVI. **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 (SCI-Expanded)
- XVII. **A chemodosimeter approach for selective colorimetric and fluorimetric cyanide detection using coumarin based fluorescent dyes**  
AYDINER B.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.382, 2019 (SCI-Expanded)
- XVIII. **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 (SCI-Expanded)
- XIX. Coumarin-based benzilmonohydrazone as a new proton-sensitive fluorescence dye: synthesis and investigation of photophysical and acidochromic properties**  
AYDINER B.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.4, pp.1086-1097, 2019 (SCI-Expanded)
- XX. 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 (SCI-Expanded)
- XXI. 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 (SCI-Expanded)
- XXII. 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 (SCI-Expanded)
- XXIII. 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 (SCI-Expanded)
- XXIV. 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 (SCI-Expanded)
- XXV. 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 (SCI-Expanded)
- XXVI. 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 (SCI-Expanded)
- XXVII. 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 (SCI-Expanded)
- XXVIII. 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 (SCI-Expanded)
- XXIX. 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 (SCI-Expanded)
- XXX. A highly selective and sensitive chemosensor derived coumarin-thiazole for colorimetric and fluorimetric detection of CN<sup>-</sup> ion in DMSO and aqueous solution: synthesis, sensing ability, Pd(II)/Pt(II) complexes and theoretical studies**  
Sahin O., ÖZDEMİR ÖZMEN Ü., SEFEROĞLU N., AYDINER B., SARI M., TUNÇ T., SEFEROĞLU Z.

TETRAHEDRON, vol.72, no.39, pp.5843-5852, 2016 (SCI-Expanded)

- XXXI. **Synthesis, spectroscopic, thermal and electrochemical studies on thiazolyl azo based disperse dyes bearing coumarin**  
ÖZKÜTÜK M., Ipek E., AYDINER B., Mamas S., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1108, pp.521-532, 2016 (SCI-Expanded)
- XXXII. **A fluorescent coumarin-thiophene hybrid as a ratiometric chemosensor for anions: Synthesis, photophysics, anion sensing and orbital interactions**  
Yanar U., Babur B., Pekyilmaz D., Yahaya I., AYDINER B., DEDE Y., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1108, pp.269-277, 2016 (SCI-Expanded)
- XXXIII. **Arylstyrylimidazo[1,2-a]pyridine-based donor-acceptor acidochromic fluorophores: Synthesis, photophysical, thermal and biological properties**  
AYDINER B., Yalçin E., Ihmels H., Arslan L., AÇIK L., SEFEROĞLU Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.310, pp.113-121, 2015 (SCI-Expanded)
- XXXIV. **An experimental and theoretical study toward the synthesis, structure and thermal decomposition of some phenyl tetrazoles**  
YILMAZ N., ÖZ S., Atakol A., Svoboda I., AYDINER B., AKAY M. A., ATAKOL O.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.119, no.3, pp.2321-2328, 2015 (SCI-Expanded)

### **Papers Published in Refereed Scientific Meetings**

- I. **"SYNTHESIS AND INVESTIGATION OF ANION SENSITIVITY PROPERTIES OF TWO D- $\pi$ -A- $\pi$ -D TYPE DYES BEARING INDOLE**  
Eroğlu A. B., Özarslan A., Çakmaz D., Aydın B., Seferoğlu N., Şenöz H., Seferoğlu Z.  
İstanbul International Organic Electronic Symposium, İstanbul, Turkey, 2 - 04 December 2019
- II. **Coumarin based functional fluorescent organic materials: Syntheses and applications**  
AYDINER B.  
2ND INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EURASIANBIOCHEM 2019), 28 - 29 June 2019
- III. **A PYRENE-BENZILMONOHYDRAZONE BASED FLUORESCENT LIGHT-UP PROBE: SYNTHESIS, PHOTOPHYSICAL, THERMAL PROPERTIES, AND DFT CALCULATIONS**  
AYDINER B.  
2nd International Conference on Physical Chemistry Functional Materials (PCFM19), 25 - 27 June 2019
- IV. **Coumarin-thiophene Based Emissive Materials for Sensing Anions and Biothiols**  
AYDINER B., SEFEROĞLU Z.  
3rd International Caparica Conference on Chromogenic and Emissive Materials, Lisbon, Portugal, 3 - 06 September 2018
- V. **Kumarin İçeren Yüksek Floresansa Sahip 3,5-Disübstitüe-2,6-disiyanoanilin Türevlerinin Mikrodalga Işıması (MDI) Tekniğini Kullanarak Tek Basamakta Sentezi, Fotofiziksel ve Termal Özelliklerinin Öncelenmesi**  
SEFEROĞLU Z., YALÇIN E., AYDINER B.  
29. Ulusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2017
- VI. **Microwave-Assisted Synthesis of a Novel Series 2-(Coumarin-3-yl)imidazo[1,2-a]pyrimidin Fluorophores as Water Soluble Fluorescent Light-Up pH Probe For Acidic Environment**  
AYDINER B., SEFEROĞLU Z.  
26th ISHC Congress, 3 - 08 September 2017
- VII. **A coumarin-thiophene based fluorescent chemosensors bearing mono and disulfonamide receptoric part for selective determination of Fluoride via reaction based mechanism**  
AYDINER B., gülşen e., yahaya i., SEFEROĞLU Z.  
3rd International Turkish Congress on Molecular Spectroscopy, 26 - 29 August 2017
- VIII. **Coumarin-indole conjugate donor-acceptor system: Synthesis and biological activity studies of two**

### **coumarin-indole based push-pull dyes**

Seferoğlu Z., Reis Y., Seferoğlu N., Ozkutuka M., Aydiner B., Aksungur T., Arslan L., Açık L.  
European Biotechnology Congress, Dubrovnik, Croatia, 25 - 27 May 2017, vol.256

- IX. **X-ray and DFT studies of new benzildihydrazone based Schiff bases**  
ŞAHİN E., ELMACI G., duyar h., AYDINER B., SEFEROĞLU N., SEFEROĞLU Z.  
1th INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING SCIENCES, 3 - 05 July 2017
- X. **MOLECULAR STRUCTURE ANALYSES AND DFT STUDIES ON NEW BENZILMONOHYDRAZONE BASED SCHIFF BASES**  
ŞAHİN E., ELMACI G., duyar h., AYDINER B., TUNÇ T., SEFEROĞLU N., SEFEROĞLU Z.  
1th INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING SCIENCES, Thailand, 3 - 05 July 2017, pp.32
- XI. **Detection of Anion Pollutants in Water with New Schiff Base Chemosensor**  
ÖZDEMİR ÖZMEN Ü., şahin ö., AYDINER B., SEFEROĞLU Z.  
1ST INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES (IBCESS), 31 August - 01 September 2016
- XII. **Detection of Cyanide Anion Pollutants with New Coumarine based Chemosensor**  
ÖZDEMİR ÖZMEN Ü., şahin ö., bakan e., AYDINER B., SEFEROĞLU Z.  
1ST INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES (IBCESS), 31 August - 01 September 2016
- XIII. **Coumarin thiazole derived fluorescent chemosensor and its Pd II Pt II complexes**  
ÖZDEMİR ÖZMEN Ü., şahin g., şahin ö., AYDINER B., SEFEROĞLU Z.  
All in One Conference, 2nd International Conference on New Trends in Chemistry, 19 - 22 April 2016
- XIV. **A highly selective coumarin thiazole based schiff base chemosensor for fast detection CN ion in aqueous solution Synthesis Molecular Characterization Pd II Pt II Complexes**  
ÖZDEMİR ÖZMEN Ü., Şahin Ö., AYDINER B., SEFEROĞLU Z.  
All in One Conference, 2nd International Conference on New Trends in Chemistry, Zagreb, Croatia, 19 - 22 April 2016
- XV. **Coumarin-thiazole based schiff base for anion and cation detection: A Combined Experimental and Theoretical (DFT)**  
şahin Ö., AYDINER B., SEFEROĞLU N., ÖZDEMİR ÖZMEN Ü., SEFEROĞLU Z.  
Mediterranean Colloquium on Heterocyclic Chemistry, 11-15 November Antalya, 11 - 15 November 2015
- XVI. **Coumarin thiazole based schiff base for anion and cation detection A Combined Experimental and Theoretical DFT Study**  
şahin ö., AYDINER B., SEFEROĞLU N., ÖZDEMİR ÖZMEN Ü., SEFEROĞLU Z.  
Trans Mediterranean Colloquium on Heterocyclic Chemistry TRAMECH VIII, 11 - 15 November 2015
- XVII. **Synthesis and photophysical properties of 2 3 coumarinyl imidazo 1 2 a pyrimidine derivatives**  
Aydiner B., Seferoğlu Z.  
Trans Mediterranean Colloquium on Heterocyclic Chemistry TRAMECH VIII, Antalya, Turkey, 11 - 15 November 2015, pp.159
- XVIII. **8-Hidroksikinolin Türevi Ligand ile Endüstriyel Atık Sularda Pb Adsorpsiyonu**  
Arslan Ö., Yalçın E., Aydiner B., Babür B., Tosun A., Erol F., Nuralın L., Seferoğlu Z.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.148
- XIX. **Kumarin İndol floresans hibrit sisteminin sentezi ve kemosensör potansiyelinin teorik deneysel çalışmalarla araştırılması**  
Aksungur T., Aydiner B., Özkütük M., Seferoğlu N., Seferoğlu Z.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.403
- XX. **INVESTIGATION OF ANTICANCER ACTIVITIES OF THIAZOLOCUMARIN-BASED FLUORESCENCE SCHIFF BASE AND ITS Pt(II) COMPLEX ON VARIOUS CANCER CELLS**  
ÖZDEMİR ÖZMEN Ü., şahin Ö., KARAGÖZ GENÇ Z., AYDINER B., SEFEROĞLU Z., TEKİN S.  
ISOPS 11th International Symposium on Pharmaceutical Sciences Ankara Üniversitesi, Ankara, 9 - 12 June 2015
- XXI. **INVESTIGATION OF ANTICANCER ACTIVITIES OF THIAZOLOCUMARIN BASED FLUORESCENCE SCHIFF BASE AND ITS Pt II COMPLEX ON VARIOUS CANCER CELLS**

ÖZDEMİR ÖZMEN Ü., ŞAHİN Ö., KARAGÖZ GENÇ Z., AYDINER B., SEFEROĞLU Z.

11th International SYMPOSIUM ON PHARMACEUTICAL SCIENCES, 9 - 12 June 2015

**XXII. Studies on the Synthesis of Coumarine Based Fluorescence Schiff Bases as Anticancer Agents Against Various Cancer Cells**

ÖZDEMİR ÖZMEN Ü., BAKAN E., ŞAHİN Ö., KARAGÖZ GENÇ Z., AYDINER B., SEFEROĞLU Z., TEKİN S.

11th International SYMPOSIUM ON PHARMACEUTICAL SCIENCES, 9 - 12 June 2015

**XXIII. Floresans Özelliği Gösteren Schiff bazlarının Paladyum ve Platin Komplekslerinin Sentezi, Antikanser Aktivitelerinin İncelenmesi"**

şahin Ö., ÖZDEMİR ÖZMEN Ü., KARAGÖZ GENÇ Z., SEFEROĞLU Z., AYDINER B.

V. Ulusal Anorganik Kimya Kongresi Mersin, Turkey, 22 - 25 April 2015

**XXIV. Yeni bir seri 2 3 kumarinil imidazo 1 2 a pirimidin türevlerinin sentezi ve fotofiziksel özelliklerinin incelenmesi**

Aydiner B., Seferoğlu Z.

2. Ulusal Organik Kimya Kongresi, Ankara, Turkey, 24 - 26 September 2014, pp.39

**XXV. Yeni Bir Yükseltgen Olan 2 4 Lutidinyum Klorokromat ile Çeşitli Alkollerin Oksimlerin ve Bazı Aromatik Bileşiklerin Yükseltgenmesi**

AYDINER B., özgün b.

25. Ulusal Kimya Kongresi, Turkey, 26 - 30 June 2011

## Supported Projects

AYDINER B., PERKTAŞ Z., Project Supported by Higher Education Institutions, Kumarin temelli yeni boyar maddelerin sentezi ve fotofiziksel özelliklerinin incelenmesi, 2024 - Continues

Aydiner B., Seferoğlu N., SEFEROĞLU Z., TUBITAK Project, Biyojenik Aminlerin Belirlenmesinde Kullanılacak Yeni Boyarmaddelerin Sentezi Ve Uygulama Çalışmaları, 2024 - 2027

Aydiner B., Seferoğlu Z., Seferoğlu N., TUBITAK Project, Farklı pi-Köprüleri İçeren D-pi-A Sistemine Sahip Yeni NIR Boyarmaddelerin Sentezi, Karakterizasyonu, Elektro-Optik ve NLO Özelliklerinin İncelenmesi, 2023 - 2026

Aydiner B., Seferoğlu Z., Seferoğlu N., Doluca O., TÜBİTAK International Bilateral Joint Cooperation Program Project, Synthesis And Investigation Of Thioflavin T-Type Ligands For Quadruplex DNA, 2023 - 2026

Aydiner B., Seferoğlu N., TUBITAK Project, Donör-pi-Akseptör-pi-Donör (D-pi-A-pi-D) Sistemine Sahip 2-indanon temelli yeni NIR boyar maddelerinin sentezi, fotofiziksel, NLO ve Kemosensor Özelliklerinin İncelenmesi, 2023 - 2023

SEFEROĞLU N., Kandemir B., Keleş E., AYDINER B., OCAK C., SEFEROĞLU Z., Project Supported by Higher Education Institutions, Donör-akseptör sistemine sahip yeni boyar maddelerin sentezi, boya duyarlı güneş hücrelerinde (DSSC) kullanılabilirliğinin belirlenmesi ve fabrikasyonu, 2020 - 2023

Aydiner B., Seferoğlu Z., Seferoğlu N., Yalçın E., SÜLEYMANOĞLU N., Project Supported by Higher Education Institutions, G4-DNA'yı kararlı kılan yeni nesil floresans ligandların sentezi, teorik çalışmaları, ligand-DNA etkileşim mekanizmalarının spektroskopik yöntemlerle açıklanması , 2018 - 2021

Aydiner B., Özkütük M., Görgün K., Yamaç M., Seferoğlu Z., Project Supported by Higher Education Institutions, Kumarin-Tiyazol Temelli Yeni Hibrit Organik Moleküllerin Sentezi ve Biyolojik Aktivitesinin Belirlenmesi , 2016 - 2019

Aydiner B., Seferoğlu N., Seferoğlu Z., TUBITAK Project, Algılayıcı/Etiket Olarak Kullanılma Potansiyeline Sahip Akıllı Moleküller: Farklı Reseptörük Bölgelere Sahip Yeni Kumarin-Tiyofen Temelli Algılayıcıların Sentezi, Anyon Algılama Kapasitelerinin ve Tiyol Grubu İçeren Biyomoleküller ile Etkileşim Çalışmalarının Spektroskopik Yöntemlerle ve Teorik Hesaplamalarla Araştırılması, 2015 - 2018

Aydiner B., Seferoğlu Z., TUBITAK Project, Yeni Bir Seri 2-(3- Kumarinil-Imidazo[1,2-a]Pirimidin Türevlerinin Sentezi ve Fotofiziksel Özelliklerinin İncelenmesi, 2014 - 2015

Seferoğlu Z., Aydiner B., Project Supported by Higher Education Institutions, 2-Amino-4-fenil-4-aril-hetarildiazetil-3-siyanotiyofen türevlerinin sentezi ve tautomerik özelliklerinin spektroskopik yöntemlerle incelenmesi, 2012 - 2015

## Activities in Scientific Journals

CURRENT ORGANIC SYNTHESIS, Special Issue Editor, 2021 - 2023

## Scientific Project Refereeing

Project Supported by Public Organizations in Other Countries, September 2019

## Scientific Research / Working Group Memberships

The Synthesis Group Of Target Organic Molecules, Gazi University, Turkey, <http://w3.gazi.edu.tr/~znseferoglu/>, 2012 - Continues

## Metrics

Publication: 59

Citation (WoS): 687

Citation (Scopus): 716

H-Index (WoS): 19

H-Index (Scopus): 20

## Congress and Symposium Activities

2ND INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES , Attendee, Ankara, Turkey, 2019

2nd International Conference on Physical Chemistry Functional Materials, Attendee, Nevşehir, Turkey, 2019

3rd International Caparica Conference on Chromogenic and Emissive Materials, Attendee, Lisbon, Portugal, 2018

26th ISHC Congress,, Attendee, Regensburg, Germany, 2017

3rd International Turkish Congress on Molecular Spectroscopy, Attendee, Muğla, Turkey, 2017

## Awards

Aydiner B., Seferoğlu Z., Top Downloaded Paper 2018-2019 in European Journal Of Organic Chemistry (Proton sensitive functional organic fluorescent dyes based on coumarin-imidazo[1,2-a]pyrimidine; syntheses, photophysical properties, and investigation of protonation ability), John Wiley & Sons, Inc., April 2020