

## Lect. VİLDAN SERDAROĞLU

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### International Researcher IDs

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### Education Information

Doctorate, Karadeniz Technical University, Fen Fakültesi, Kimya, Turkey 2017 - Continues

Postgraduate, Karadeniz Technical University, Fen Fakültesi, Kimya, Turkey 2015 - 2017

Postgraduate, Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık, Turkey 2013 - 2016

Undergraduate, Karadeniz Technical University, Fen Fakültesi, Kimya, Turkey 2006 - 2011

### Certificates, Courses and Trainings

Quality Management, İyi Laboratuvar Uygulamaları (GLP), TÜRKAK, 2021

### Dissertations

Postgraduate, YENİ 2,4,6-TRİSÜBSTİTÜE PİRİMİDİN BİLEŞİKLERİ, N-ALKİL VE PİRİMİDİN N-GLİKOZİT TÜREVLERİNİN SENTEZİ VE BİYOLOJİK ÖZELLİKLERİNİN İNCELENMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2017

Postgraduate, ANTIİNFLAMATUAR İLAÇ NİMESULİDİN ÇOK DUVARLI KARBON NANOTÜP İLE MODİFİYE EDİLMİŞ KARBON PASTA ELEKTROT KULLANILARAK ELEKTROANALİTİK ANALİZİ, Karadeniz Technical University, Sağlık Bilimleri Enstitüsü, 2016

### Research Areas

Chemistry, Chromatographic Analysis, Spectroscopical Methods, Organic Chemistry, Chemistry of Aromatic Compounds, Chemistry of Natural Products, Organic Reaction Mechanisms

### Academic Titles / Tasks

Lecturer, Karadeniz Technical University, Rektörlük, İlaç ve Farmasötik Teknoloji Uygulama ve Araştırma Merkezi, 2020 - Continues

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

- I. **Diastereoselective Synthesis, Characterization, Investigation of Anticancer, Antibacterial Activities, In Silico Approaches and DNA/BSA Binding Affinities of Novel Pyrimidine-Sugar Derivatives**  
Kahrıman N., Serdarođlu V., Aydın A., Türkmenođlu B., Usta A.  
Journal of Molecular Structure, vol.1277, 2023 (SCI-Expanded)
- II. **New pyrimidine-N- $\beta$ -D-glucosides: synthesis, biological evaluation, and molecular docking investigations**  
Kahrıman N., Peker K., Serdarođlu V., Aydın A., Türkmenođlu B., Usta A., Yaylı N.  
Turkish Journal of Chemistry, vol.47, no.2, pp.476-494, 2023 (SCI-Expanded)
- III. **Design, syntheses, spectroscopic, aggregation properties of novel peripheral octa-substituted zinc(II), magnesium(II) and lead(II) phthalocyanines and investigation of their photocatalytic properties on the photooxidation of 4-nitrophenol**  
Yalazan H., Tekintas K., Serdarođlu V., Saka E. T., Kahrıman N., Kantekin H.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.118, 2020 (SCI-Expanded)
- IV. **Novel 2-amino-4-aryl-6-pyridopyrimidines and N-alkyl derivatives: Synthesis, characterization and investigation of anticancer, antibacterial activities and DNA/BSA binding affinities**  
KAHRİMAN N., Peker K., SERDAROĐLU V., Aydın A., USTA A., Fandaklı S., YAYLI N.  
BIOORGANIC CHEMISTRY, vol.99, 2020 (SCI-Expanded)
- V. **Novel peripheral tetra-substituted phthalocyanines containing methoxylated chalcone group: Synthesis, spectral, electrochemical and spectroelectrochemical properties**  
YALAZAN H., Akyuz D., SERDAROĐLU V., KAHRİMAN N., KOCA A., KANTEKİN H.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.912, 2020 (SCI-Expanded)
- VI. **Synthesis, characterization and electrochemical studies of metal-free and metallophthalocyanines containing two different chalcone units substituted on peripherally positions**  
SARKI G., KANTEKİN H., YALAZAN H., KAHRİMAN N., BIYIKLIOĐLU Z., SERDAROĐLU V.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1196, pp.592-603, 2019 (SCI-Expanded)
- VII. **Synthesis and biological evaluation of new 2,4,6-trisubstituted pyrimidines and their N-alkyl derivatives**  
KAHRİMAN N., SERDAROĐLU V., PEKER K., Aydın A., USTA A., FANDAKLI S., YAYLI N.  
BIOORGANIC CHEMISTRY, vol.83, pp.580-594, 2019 (SCI-Expanded)
- VIII. **New peripherally and non-peripherally tetra-substituted metal-free, magnesium(II) and zinc(II) phthalocyanine derivatives fused chalcone units: Design, synthesis, spectroscopic characterization, photochemistry and photophysics**  
KANTEKİN H., YALAZAN H., KAHRİMAN N., ERTEM B., SERDAROĐLU V., PİŞKİN M., Durmus M.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.361, pp.1-11, 2018 (SCI-Expanded)
- IX. **Yeni Azakalkon-Şeker Hibrit Bileşiklerinin Sentezi**  
KAHRİMAN N., Serdarođlu V.  
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.8, no.2, pp.442-454, 2018 (AHCI)
- X. **Synthesis of Novel Pyrazolines, Their Boron-Fluorine Complexes, and Investigation of Antibacterial, Antioxidant, and Enzyme Inhibition Activities**  
KAHRİMAN N., HAŞİMOĐLU Z., SERDAROĐLU V., BERİŞ F. S., Barut B., YAYLI N.  
ARCHIV DER PHARMAZIE, vol.350, no.2, 2017 (SCI-Expanded)
- XI. **Chemical Composition and Biological Activity of Essential Oils of Sempervivum brevipilum Muirhead**  
KAHRİMAN N., SENYUREK Z., SERDAROĐLU V., Kahrıman A., YAYLI N.  
RECORDS OF NATURAL PRODUCTS, vol.9, no.4, pp.603-608, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Molecular docking, synthesis and biological evaluation (enzyme inhibition, antimicrobial and**

**antioxidant) of methoxy benzoin/benzil/stilbenoid derivatives**

Yaylı N., Kahrıman N., Bozdağ G., Serdaroğlu V., Aliyazıcıoğlu R., Sellitepe H. E., Alpay Karaoğlu Ş., Yılmaz G.  
ORGANIC COMMUNICATIONS, vol.15, no.2, pp.129-147, 2022 (ESCI)

**II. Voltammetric Determination of Nimesulide Using Multiwalled Carbon Nanotubes Modified Carbon Paste Electrode**

AĞIN F., SERDAROĞLU V.

TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.13, no.3, pp.335-341, 2016 (ESCI)

**Refereed Congress / Symposium Publications in Proceedings**

**I. Stirp Sugar Midazolam! New Formulation of Midazolam (Midazolam Loaded Oral Film Via Electrosinning ) (Preliminary Study)**

Geze Saatçı Ş., Özcan K., Serdaroğlu V., Çoban Ö.

19th ASPA conference & 31st KSPA annual meeting, Seoul, South Korea, 16 - 18 June 2023, pp.1

**II. Tchiatchewia isatidea ekstresinin in vitro ve in vivo anti-inflamatuvar etkileri**

Gün E., Sevgi S., Engin S., Barut E. N., Barut B., Serdaroğlu V., Özel A., Kaya Yaşar Y., Renda G.

26. Ulusal ve 1. Uluslararası Farmakoloji Kongresi, 4 - 06 November 2021, pp.252

**III. Preparation and antibacterial properties of silver and cobalt loaded nano TiO<sub>2</sub> particles**

Yılmaz H., Atal S., Koç M., Serdaroğlu V., ALTIN İ., BURUK C. K., SÖKMEN M.

7th Nanoscience and Nanotechnology Conference, Sabancı Üniversitesi, 27 June-01 July 2011, İstanbul, Turkey, pp.1

**IV. Investigation of Photocatalytic Properties of Octa Substituted Zinc(II), Magnesium(II) and Lead(II) Phthalocyanine Compounds on 4-Nitrophenol Photooxidation**

YALAZAN H., TEKİNTAŞ K., SERDAROĞLU V., KAHRİMAN N., SAKA E. T., KANTEKİN H.

International Conference on Chemical Energy Semiconductor Photochemistry (CESCOP), Trabzon, Turkey, 4 - 06 September 2019, pp.9

**V. Synthesis and investigation of photophysical and photochemical properties of magnesium and zinc phthalocyanine complexes containing new chalcone derivative**

KANTEKİN H., Yalazan H., KAHRİMAN N., ERTEM B., SERDAROĞLU V., DURMUS M., Pişkin M.

Third GTU Photodynamic Day in the framework of the International Day of Light 2018, Kocaeli, Turkey, 09 May 2018, pp.10

**VI. SYNTHESIS AND INVESTIGATION OF PHOTOPHYSICAL AND PHOTOCHEMICAL PROPERTIES OF MAGNESIUM(II) AND ZINC(II) PHTHALOCYANINE COMPLEXES CONTAINING NEW CHALCONE DERIVATIVE**

KANTEKİN H., YALAZAN H., KAHRİMAN N., ERTEM B., SERDAROĞLU V., PISKIN M., DURMUS M.

The 3rd GTU Photodynamic Day, Kocaeli, Turkey, 09 May 2018, pp.10

**VII. Synthesis of New Axially Chalcone Substituted Silicon (IV) Phthalocyanine and Investigation of Photophysical and Photochemical Properties**

KAHRİMAN N., ÜNVER Y., DEĞİRMENCİOĞLU İ., SERDAROĞLU V., Akçay H. T., Durmuş M., D. Gülmez A.

International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018, pp.645

**VIII. Gypsogenin-Chalcone Hybrid Compounds**

Ulusoy G., Emirdağ-Öztürk S., KAHRİMAN N., SERDAROĞLU V., YAYLI N.

International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018, pp.1042

**IX. New Gypsogenin-Chalcone Hybrid Compounds**

Emirdağ-Öztürk S., SERDAROĞLU V., Ulusoy G., KAHRİMAN N., YAYLI N.

The Second Japan-Turkey International Symposium on Pharmaceutical and Biomedical Sciences (JATUSPAB 2), Trabzon, Turkey, 11 - 12 September 2017, pp.18

**X. Synthesis of Novel Pyrimidines, N-Alkyl Derivatives, Pyrimidine N-Glucosides and Investigation of**

### **Their Biological Activities**

KAHRİMAN N., PEKER K., Serdaroğlu V., Aydın A., USTA A., FANDAKLI S., YAYLI N.

3rd International Turkic World Conference on Chemical Sciences and Technologies (ITWCCST 2017), Baku, Azerbaijan, 10 - 13 September 2017, pp.97

- XI. **Synthesis of Gypsogenin-Chalcone Hybrid Compounds**  
Emirdağ-Öztürk S., Ulusoy G., KAHRİMAN N., Serdaroğlu V., YAYLI N.  
I. International Congress On Medicinal And Aromatic Plants: "Natural And Healthy Life (TABKON 2017), Konya, Turkey, 10 - 12 May 2017, pp.1929
- XII. **Pirimidin N-Alkil Bromür Türevi Bileşiklerin HeLa ve C6 Hücre Hatlarına Karşı Antikanser Aktivite Özelliklerinin İncelenmesi**  
KAHRİMAN N., Aydın A., Peker K., SERDAROĞLU V., YAYLI N.  
3. Uluslararası İlaç ve Eczacılık Kongresi, İstanbul, Turkey, 26 - 29 April 2017, pp.851
- XIII. **Synthesis of Gypsogenin-Chalcone Compounds**  
Ulusoy G., SERDAROĞLU V., KAHRİMAN N., Emirdağ-Öztürk S., YAYLI N.  
The Third Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP-3), Girne, Cyprus (Kktc), 13 - 16 April 2017, pp.259
- XIV. **Yeni Gypsogenin-Kalkon Hibrit Bileşiklerin Sentezi ve Antimikrobiyal Aktivite Çalışmalar**  
Emirdağ-Öztürk S., KAHRİMAN N., SERDAROĞLU V., Ulusoy G., YAYLI N.  
Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 30 March - 02 April 2017
- XV. **NEW SYNTHESIS FROM GYPSOGENIN AND CHALCONE COMPOUNDS**  
Emirdağ-Öztürk S., KAHRİMAN N., Ulusoy G., SERDAROĞLU V., YAYLI N.  
4th International Bahçeşehir University (BAU) Drug Design Congress, İstanbul, Turkey, 13 - 15 October 2016, pp.106
- XVI. **Synthesis and Enzyme Inhibitory Activities of Novel Azachalcone N-Glucoside Compounds**  
KAHRİMAN N., SERDAROĞLU V., KORKMAZ B., BARUT B.  
4th International BAU Drug Design Congress, İstanbul, Turkey, 13 - 15 October 2016, pp.92
- XVII. **Synthesis and Enzyme Inhibitory Activities of Novel Azachalcone N-Glucoside Compounds**  
KAHRİMAN N., SERDAROĞLU V., KORKMAZ B., BARUT B.  
4th International Bahçeşehir University (BAU) Drug Design Congress, İstanbul, Turkey, 13 - 15 October 2016, pp.92
- XVIII. **Metoksi ve Hidroksi Sübstitüe Kalkon Bileşiklerinin Tirosinaz Enzim İnhibisyonu**  
FANDAKLI S., PEKER K., SERDAROĞLU V., FAİZ Ö., YAYLI N.  
3.ULUSAL ORGANİK KİMYA KONGRESİ, Trabzon, Turkey, 05 September 2016
- XIX. **Yeni Kalkon/Azakalkon N-Glikozitlerin Sentezi ve Biyolojik Aktivitelerinin İncelenmesi**  
PEKER K., KAHRİMAN N., SERDAROĞLU V., BARUT B.  
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016, pp.106
- XX. **3,5-Disübstitüe Pirazolin Bileşiklerinin Sentezi ve Enzim İnhibisyon Aktivitelerinin İncelenmesi**  
Serdaroğlu V., KAHRİMAN N., Peker K., Fandaklı S., YAYLI N.  
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016, pp.105
- XXI. **Metoksi Sübstitüe Kalkon N-Glikozitlerin Sentezi ve Biyolojik Aktivitelerinin İncelenmesi**  
FANDAKLI S., KAHRİMAN N., SERDAROĞLU V., BARUT B.  
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016, pp.108
- XXII. **2,4,6-Trisübstitüe Primidin Bileşikleri ve Alkil Türevlerinin Sentezi, Antioksidan Aktivitelerinin İncelenmesi**  
KAHRİMAN N., SENYUREK Z., FANDAKLI S., SERDAROĞLU V., YAYLI N.  
3. İlaç Kimyası, Üretimi, Teknolojisi ve Standardizasyonu Kongresi, Antalya, Turkey, 20 - 22 March 2015, pp.205

### **Supported Projects**

DÖNMEZ S. T., ÇOBAN Ö., EĞİN M., KAYIPMAZ S., KILIÇ A. O., SERDAROĞLU V., SEZEN F. S., Project Supported by Higher Education Institutions, Nistatin içeren Oral Film Formülasyonun Geliştirilmesi ve in vitro Antikandidal Etkililiğinin Araştırılması, 2024 - Continues

GEZE SAATÇI Ş., SEVGİ S., ERDEMİR F., SERDAROĞLU V., DEMİR ÖKSÜZ Z., ÖZCAN K., ÇOBAN Ö., Project Supported by Higher Education Institutions, Pediyatrik anestezi premedikasyonunda pediyatrik kullanılmaya uygun midazolam nanopartikül oral film formülasyonların geliştirilmesi ve moleküler toksisitesinin incelenmesi, 2022 - Continues

KAHRİMAN N., SERDAROĞLU V., BARUT B., AYDIN A., Project Supported by Higher Education Institutions, HALOSÜBSTİTÜE AMİNO KALKON PİRAZOLİN PİRİMİDİN TÜREVELERİNİN ve BOR KOMPLEKSLERİNİN SENTEZİ ENZİM İNHİBİSYONU ve KANSER HÜCRELERİ ÜZERİNDEKİ ETKİLERİNİN ARAŞTIRILMASI, 2022 - 2024

KAHRİMAN N., AYDIN A., BARUT B., SERDAROĞLU V., Project Supported by Higher Education Institutions, Ultrasonik Yöntem ile Kalkonlardan 5 ve 6 Üyeli Heterosiklik Bileşiklerin ve Bazı Bor Komplekslerinin Sentezi ve Biyolojik Aktivitelerinin İncelenmesi, 2022 - 2024

SEZEN F. S., GÜL KILINÇ G., ÖZCAN K., GEZE SAATÇI Ş., ERDEMİR F., DİNÇER T., ÇOBAN Ö., SERDAROĞLU V., Project Supported by Higher Education Institutions, İlaç taşıyıcı biyo ve nanomalzemelerin geliştirilmesi ve formülasyon özelliklerinin araştırılması, 2021 - 2024

SEZEN F. S., RENDA G., KAYA YAŞAR Y., ENGİN S., SERDAROĞLU V., KALHA Z., GÜN E., Project Supported by Higher Education Institutions, Balık Yetiştiriciliği ve Araştırmalarında Kullanılabilecek Alternatif Anestezik Maddelerin Geliştirilmesi, 2021 - 2024

## Metrics

Publication: 36

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