

## Res. Asst. PhD MEHMET ERŞATIR

### Personal Information

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**Address:** Çukurova Üniversitesi Fen Edebiyat Fakültesi Kimya Bölümü Organik Kimya Araştırma Laboratuvarı

### International Researcher IDs

ORCID: 0000-0003-1077-0626

Publons / Web Of Science ResearcherID: D-7831-2018

ScopusID: 57192652757

Yoksis Researcher ID: 206386

### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Kimya, Turkey 2015 - 2022

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Kimya/Organik Kimya, Turkey 2012 - 2015

Undergraduate, Mersin University, Fen Edebiyat Fakültesi, Kimya, Turkey 2007 - 2011

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, Van Yüzüncü Yıl Üniversitesi NMR Yaz Okulu, Van Yüzüncü Yıl Üniversitesi Sürekli Eğitim Merkezi, 2018

Education Management and Planning, International Workshop on Applications of NMR in Pharmaceuticals, Phytotherapeutics and Medicine, BEZMİALEM VAKIF ÜNİVERSİTESİ ve NETWORK OF ACADEMIES OF SCIENCES IN ISLAMIC COUNTRIES (NASIC), 2017

Education Management and Planning, 2D NMR Teknikleri İle Yapı Analizi, Atatürk Üniversitesi, 2011

Quality Management, TS EN ISO 9001 Kalite Yönetim Sistemi, Türk Standartları Enstitüsü-Personel ve Sistem Bilgilendirme Merkezi, 2010

### Dissertations

Doctorate, Biyoizosterik Kumarin-selenofen Birimler İçeren Moleküllerin Sentezi ve Biyolojik Aktivitelerinin İrdelenmesi, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2022

Postgraduate, Çeşitli Kalkon-Kumarin Hibrid Bileşiklerinin Sentezi, Cukurova University, Fen Bilimleri Enstitüsü, Kimya/Organik Kimya, 2015

### Research Areas

Chemistry, Organic Chemistry, Chemistry of Aromatic Compounds, Chemistry of Asymmetric Synthesis, Chemistry of Natural Products, Chemistry of Heterocyclic Compounds, Natural Sciences

## Academic Titles / Tasks

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Kimya, 2014 - Continues

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

- I. **Green Extraction of Plant Materials Using Supercritical CO<sub>2</sub>: Insights into Methods, Analysis, and Bioactivity**  
Yıldırım M., ERŞATIR M., Poyraz S., Amangeldinova M., Kudrina N. O., Terletskaia N. V.  
Plants, vol.13, no.16, 2024 (SCI-Expanded)
- II. **Using Supercritical Diethyl Ether as the Reaction Medium for the Synthesis of 3-Acetyl and 4-Methyl Substituted Coumarins**  
Erşatır M., Özsrıknıt Z., Hakimi A. H., Türk M., Demirkol O., Vayısođlu Giray E. S.  
CURRENT ORGANIC CHEMISTRY, vol.28, no.10, pp.789-798, 2024 (SCI-Expanded)
- III. **Recent pharmacological insights about imidazole hybrids: a comprehensive review**  
Poyraz S., Yıldırım M., ERŞATIR M.  
Medicinal Chemistry Research, 2024 (SCI-Expanded)
- IV. **Potential Protective Effects of Ruta Chalepensis L. Extracts Against Gentamicin-Induced Nephrotoxicity via Reduction on Apoptotic, DNA Damage and Oxidative Stress Markers in Mice**  
Yıldırım M., ERŞATIR M., Degirmenci U., Yigin A., Unal M. B., Guldur M. E., DEMİRKOL O., Giray E. S.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL HEALTH RESEARCH, vol.33, no.12, pp.1533-1545, 2023 (SCI-Expanded)
- V. **Recent advances on biologically active coumarin-based hybrid compounds**  
Yıldırım M., Poyraz S., Ersatır M.  
MEDICINAL CHEMISTRY RESEARCH, vol.32, pp.617-642, 2023 (SCI-Expanded)
- VI. **Coumarin Hybrids as Cholinesterase Inhibitors**  
Yıldırım M., Erşatır M., Yalın S., Vayısođlu Giray E. S.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, vol.49, pp.970-975, 2023 (SCI-Expanded)
- VII. **Anti-Inflammatory Effects of Coumarin-Selenophene Derivatives on LPS-Stimulated RAW 264.7 Macrophage Cells**  
Yıldırım M., Unal Z. N., Ersatır M., Yetkin D., Degirmenci U., Giray E. S.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, vol.48, no.6, pp.1209-1214, 2022 (SCI-Expanded)
- VIII. **Comparison of the effects of green and sustainable extraction methods on the extraction yield and chemical composition of Ruta chalepensis roots**  
Demirkol O., Erşatır M., Vayısođlu Giray E. S., Kırıcı S.  
SUSTAINABLE CHEMISTRY AND PHARMACY, vol.29, 2022 (SCI-Expanded)
- IX. **An efficient and green synthesis of 1,4-dihydropyridine derivatives through multi-component reaction in subcritical EtOH**  
Vayısođlu Giray E. S., Türk M., Erşatır M.  
JOURNAL OF SUPERCRITICAL FLUIDS, vol.176, pp.105303-105310, 2021 (SCI-Expanded)
- X. **Green synthesis of 2-amino-3-cyanopyridines via a cooperative vinylogous anomeric-based oxidation and their antiproliferative effects on liver, breast, and prostate cancer studies**  
ERŞATIR M., Yıldırım M.  
SYNTHETIC COMMUNICATIONS, vol.51, no.8, pp.1252-1265, 2021 (SCI-Expanded)
- XI. **Cytotoxic and apoptotic potential of some coumarin and 2-amino-3-carbonitrile selenophene derivatives in prostate cancer**

- Yıldırım M., Erşatır M., Arslan B., Vayisoğlu Giray E. S.  
Turkish Journal Of Chemistry, no.45, pp.192-198, 2021 (SCI-Expanded)
- XII. **Carbostyryl derivatives: Synthesis of novel carbostyryl-3 '-carbonitrilselenophene hybrid compounds and investigation of their antiproliferative properties on prostate and breast cancer**  
Erşatır M., Yildirim M., Giray E. S.  
SYNTHETIC COMMUNICATIONS, vol.51, no.2, pp.290-301, 2021 (SCI-Expanded)
- XIII. **Synthesis and investigation of anti-inflammatory and anticonvulsant activities of novel coumarin-diacylated hydrazide derivatives**  
Tapanyigit O., DEMİRKOL O., Guler E., ERŞATIR M., ÇAM M. E., Giray E. S.  
ARABIAN JOURNAL OF CHEMISTRY, vol.13, no.12, pp.9105-9117, 2020 (SCI-Expanded)
- XIV. **Synthesis and antiproliferative evaluation of novel biheterocycles based on coumarin and 2-aminoselenophene-3-carbonitrile unit**  
Erşatır M., Yildirim M., Giray E. S., Yalin S.  
MONATSHEFTE FÜR CHEMIE, vol.151, no.4, pp.625-636, 2020 (SCI-Expanded)
- XV. **Cross-aldol reaction of 3-acetyl-2H-chromen-2-one by using Amberlyst 26A as catalyst**  
Erşatır M., Akbaşlar D., Demirkol O., Giray E. S.  
SYNTHETIC COMMUNICATIONS, vol.47, pp.68-77, 2017 (SCI-Expanded)
- XVI. **Simple and efficient synthesis of N-alkyl and N-aryl succinimides in hot water**  
Bozdoğan B., ERŞATIR M., DEMİRKOL O., AKBAŞLAR D., Giray E. S.  
SYNTHETIC COMMUNICATIONS, vol.47, no.3, pp.217-223, 2017 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Sub-kritik etanol ve hidrodestilasyon ekstraksiyonları ile farklı bölgelere ait defne (*Laurus nobilis* L.) yapraklarının kimyasal kompozisyonun kıyaslanması**  
ERŞATIR M., TÜRK M.  
2nd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2020), Gaziantep, Turkey, 7 - 09 October 2020
- II. **Novel Coumarin-Selenophene Hybrids as Potential Antiproliferative Agents: Synthesis and Biological Evaluation**  
ERŞATIR M., Yıldırım M., VAYISOĞLU GİRAY E. S., Yalin S.  
8th International Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 March 2020, pp.134-138
- III. **Extraction of Furanocoumarin and Coumarins by Subcritical Water Extraction from *Ruta chalepensis***  
DEMİRKOL O., ERŞATIR M., VAYISOĞLU GİRAY E. S., KIRICI S.  
8th International Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 March 2020, pp.130-133
- IV. **Çeşitli Bölgelerden Hasat Edilmiş Defne (*Laurus Nobilis* L.) Yapraklarının Sub-kritik Etanol ve Hidrodestilasyondan Elde Edilen Ekstraktlarının Kimyasal Kompozisyonu**  
TÜRK M., ERŞATIR M., SANGÜN M. K., VAYISOĞLU GİRAY E. S.  
IV. INSAC International Natural and Engineering Sciences Congress, Konya, Turkey, 11 - 13 October 2019, pp.111-115
- V. **Yeni Kumarin Bileşiklerinin Sentezi ve Floresans Özelliklerinin İncelenmesi**  
ERŞATIR M., Tapanyığırt O., DEMİRKOL O., Çavdar L., VAYISOĞLU GİRAY E. S.  
7. International Drug Chemistry Conference, Antalya, Turkey, 14 - 17 March 2019, pp.285-289
- VI. **Peroksi Asitlerle Oksidasyon Ve Sub-Kritik Su Ekstraksiyonu İle Kömür Demineralizasyonu**  
ERŞATIR M., TÜRK M., Günendi M., Şener S. A., Hakimi H., VAYISOĞLU GİRAY E. S.  
3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.1032-1033
- VII. **Ultrasound-Assisted Tetrahydropyridine Synthesis**  
ERŞATIR M., VAYISOĞLU GİRAY E. S.  
4th Organic Chemistry Congress With International Participation, Antalya, Turkey, 4 - 07 October 2018

- VIII. **Synthesis and characterization of novel coumarin-selenophene derivatives**  
ERŞATIR M., GİRAY E. S.  
19th Tetrahedron Symposium, Riva del Garda, Italy, 26 - 29 June 2018
- IX. **Amberlyst 26: as An Efficient And Reusable Catalyst For The Synthesis Of Some New Carbonitrile Compounds With Potent Antitumor Activities**  
ERŞATIR M., VAYISOĞLU GİRAY E. S.  
XLIII "A. Corbella" International Summer School On Organic Synthesis, Gargnano, Italy, 10 - 14 June 2018, pp.98
- X. **Amberlyst 26: As An Efficient And Reusable Catalyst For The Synthesis Of Some New Carbonitrile Compounds With Potent Antitumor Activities**  
ERŞATIR M., VAYISOĞLU GİRAY E. S.  
XLIII "A. Corbella" International Summer School On Organic Synthesis, Gargnano, Italy, 10 - 14 June 2018, pp.144
- XI. **Farmakolojik Açidan Önemli 1,2,4-Triazol Grubu İçeren Schiff Bazlarının Sentezi**  
ERŞATIR M., DEMİRKOL O., GİRAY E. S.  
Uluslararası Katılımlı 6. İlaç Kimyası Kongres, Antalya, Turkey, 22 - 25 March 2018, pp.18
- XII. **Selenophene synthesis in the supercritical media**  
ERŞATIR M., AKBAŞLAR D., GİRAY E. S.  
IX Internasyonal COnference in Chemistry, 4 - 09 June 2017, vol.1, pp.126
- XIII. **Synthesis of B-enaminones B-enamino ester using various organic acid catalysts**  
AKBAŞLAR D., ERŞATIR M., DEMİRKOL O., GİRAY E. S.  
IX International Conference in Chemistry, 4 - 09 June 2017, vol.1, pp.124
- XIV. **Pyrazole-pyrrole hybrid compaund**  
AKBAŞLAR D., ERŞATIR M., GİRAY E. S.  
IX International Conference in Chemistry, 4 - 09 June 2017, vol.1, pp.121
- XV. **Pyrazole-pyrrole hybrid compounds**  
AKBAŞLAR D., ERŞATIR M., VAYISOĞLU GİRAY E. S.  
IX International Conference in chemistry Kyiv-Toulouse (ICKT-9), Kiev, Ukraine, 4 - 09 June 2017, pp.121
- XVI. **Synthesis of  $\beta$ -enaminones &  $\beta$ -enamino esters using various organic acid catalysts**  
AKBAŞLAR D., ERŞATIR M., DEMİRKOL O., VAYISOĞLU GİRAY E. S.  
IX International Conference in chemistry Kyiv-Toulouse (ICKT-9), Kiev, Ukraine, 4 - 09 June 2017, pp.124
- XVII. **Etkin ve Temiz Bir Yöntemle N-Substitüe Süksinimid Türevlerinin Sentezi**  
ERŞATIR M., AKBAŞLAR D., DEMİRKOL O., Bozdoğan B., VAYISOĞLU GİRAY E. S.  
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016, pp.48
- XVIII. **Pirol Birimi İçeren Kalkon Türevlerinin Sentezi**  
AKBAŞLAR D., ERŞATIR M., VAYISOĞLU GİRAY E. S.  
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016, pp.47
- XIX. **Hidrazon Sentezine Yeni Bir Yaklaşım: Katalizör ve Çözücü Kullanmadan Çeşitli Hidrazon Bileşiklerinin Sentezi**  
DEMİRKOL O., Koca B., ERŞATIR M., AKBAŞLAR D., VAYISOĞLU GİRAY E. S.  
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016, pp.55
- XX. **ULTRASOUND ACCELERATED CHALCONE SYNTHESIS USING AMBERLYST-26**  
DEMİRKOL O., AKBAŞLAR D., ERŞATIR M., VAYISOĞLU GİRAY E. S.  
19th European Symposium of Organic Chemistry, Lizbon, Portugal, 12 - 16 July 2015, pp.363
- XXI. **LACTIC ACID AS AN EFFICIENT SOLVENT AND CATALYST FOR ONE-POT THREE-COMPONENT SYNTHESIS OF POLYSUBSTITUTED PYRROLES**  
AKBAŞLAR D., Erşatr M., DEMİRKOL O., VAYISOĞLU GİRAY E. S.  
19th European Symposium of Organic Chemistry, Lizbon, Portugal, 12 - 16 July 2015, pp.129
- XXII. **EFFICIENTLY SYNTHESIS OF COUMARIN-CHALCONE HYBRID COMPOUNDS**  
ERŞATIR M., AKBAŞLAR D., DEMİRKOL O., VAYISOĞLU GİRAY E. S.  
19th European Symposium of Organic Chemistry, Lizbon, Portugal, 12 - 16 July 2015, pp.95

## Supported Projects

DEMİRKOL O., ERŞATIR M., Project Supported by Higher Education Institutions, KumarinA-kridin hibridi yeni biyomateriyallerin sentezi, 2019 - Continues

VAYISOĞLU GİRAY E. S., ERŞATIR M., Project Supported by Higher Education Institutions, Biyoizosterik Kumarin-selenofen Birimler İçeren Moleküllerin Sentezi ve Biyolojik Aktivitelerinin İrdelenmesi, 2017 - 2022

VAYISOĞLU GİRAY E. S., DEMİRKOL O., ERŞATIR M., Project Supported by Higher Education Institutions, 2oksokroman3karbohidrazid Bileşiklerinin Antiinflamatuvar Ve Antikonvülsan Etkilerinin Araştırılması, 2019 - 2021

TÜRK M., ERŞATIR M., VAYISOĞLU GİRAY E. S., Project Supported by Higher Education Institutions, Süperkritik Akışkan Ortamında 1,4-dihidropiridin Türevlerinin Sentezi, 2019 - 2021

VAYISOĞLU GİRAY E. S., ERŞATIR M., Project Supported by Higher Education Institutions, Subkritik su ve peroksiasitlerle önişlem uygulanmış linyitlerin ekstraksiyonu ile temiz kömür hazırlama, 2017 - 2019

DEMİRKOL O., ERŞATIR M., AKBAŞLAR D., Project Supported by Higher Education Institutions, Ultrasonik banyoda çeşitli asitlerin katalizörlüğünde enaminon ve enaminoester bileşiklerinin sentezi, 2017 - 2018

## Scientific Refereeing

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, SCI Journal, December 2019

## Metrics

Publication: 38

Citation (WoS): 5

Citation (Scopus): 8

H-Index (WoS): 2

H-Index (Scopus): 2

## Congress and Symposium Activities

7. International Drug Chemistry Conference, Attendee, Antalya, Turkey, 2019

4th Organic Chemistry Congress With International Participation, Attendee, Antalya, Turkey, 2018

19th Tetrahedron Symposium, Attendee, Bolzano, Italy, 2018

XLIII "A. Corbella" International Summer School On Organic Synthesis, Attendee, Brescia, Italy, 2018

14TH INTERNATIONAL CONFERENCE ON ENERGY STORAGE, Attendee, Adana, Turkey, 2018

Uluslararası 6. İlaç Kimyası Kongresi, Attendee, Antalya, Turkey, 2018

IX International Conference in chemistry Kyiv-Toulouse (ICKT-9), Attendee, Kyyiv, Ukraine, 2017

III. Ulusal Organik Kimya Kongresi, Attendee, Trabzon, Turkey, 2016

19th European Symposium on Organic Chemistry, Attendee, Lizbon, Portugal, 2015

25.Ulusal Kimya Kongresi, Attendee, ERZURUM, Turkey, 2011

## Scholarships

2211-A Genel Yurtiçi Doktora Bursu, TUBITAK, 2015 - Continues

## Awards

ERŞATIR M., Bölüm Birinciliği, Mersin Üniversitesi, June 2011