

## Assoc. Prof. ASU USTA

### Personal Information

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### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya, Turkey 2003 - 2008

Post Graduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya, Turkey 1999 - 2003

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, Tiyazakalkonların sentezi, N-alkil türevleri, dimerleşme reaksiyonları ve antimikrobiyal aktiviteleri; Campanula lactiflora (Campanulaceae) bitkisinden doğal polar bileşiklerin izolasyonları ve yapılarının aydınlatılması, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya/Organik Kimya, 2008

Post Graduate, Campanula lactiflora (Campanulaceae) bitkisinde doğal maddelerin izolasyonu ve yapılarının aydınlatılması, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya/Organik Kimya, 2003

### Research Areas

Chemistry, Organic Chemistry, Plant Chemistry, Chemistry of Natural Products, Chemistry of Heterocyclic Compounds, Organic Spectroscopy, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya, 2016 - Continues

### Advising Theses

USTA A., BAZI AZAKALKON BİLEŞİKLERİNİN PİRAZOL, SCHIFF-BAZI, N-ALKİL TÜREVLERİNİN SENTEZİ VE BİYOLOJİK AKTİVİTELERİNİN İNCELENMESİ, Post Graduate, N.Çalışkan(Student), 2018

USTA A., Yeni 1,2-disübstitüe benzimidazol türevi bileşiklerin sentezi ve yapılarının aydınlatılması, Post Graduate, G.Keleş(Student), 2015

USTA A., Yeni pirol halkası içeren azakalkonların sentezi, N-alkil türevleri ve antimikrobiyal aktiviteleri, Post Graduate, E.ÖZTÜRK(Student), 2011

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

- I. **Toxic efficacy of *Cuscuta campestris* Yunck. (Solanales: Convolvulaceae) and *Lupinus albus* L. (Fabales: Fabaceae) plant crude extracts against nymphs and adults of *Orosanga japonica* (Melichar, 1898) (Hemiptera: Ricaniidae) under laboratory conditions *Orosanga japonica* (Melichar, 1898) (Hemiptera: Ricaniidae)'nin nimf ve erginlerine karsi *Cuscuta campestris* Yunck. (Solanales: Convolvulaceae) ve *Lupinus albus* L. (Fabales: Fabaceae) bitki ham özütlerinin laboratuvar kosullari altinda toksik etkinligi**  
Akner M. M. , Kılıçkaya Selvi E., Öztürk M., Güney I., Usta A.  
Turkiye Entomoloji Dergisi, vol.45, no.1, pp.65-75, 2021 (Journal Indexed in SCI Expanded)
- II. **Natural infection potential and efficacy of the entomopathogenic fungus *Beauveria bassiana* against *Orosanga japonica* (Melichar)**  
AKINER M. M. , Öztürk M., Güney İ., USTA A.  
Egyptian Journal of Biological Pest Control, vol.30, no.1, 2020 (Journal Indexed in SCI)
- III. **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., SERDAROĞLU V., Aydın A., USTA A., Fandakli S., YAYLI N.  
BIOORGANIC CHEMISTRY, vol.99, 2020 (Journal Indexed in SCI)
- IV. **Synthesis, antibacterial and antioxidant activities of some new Nsubstituted azachalcone, Schiff base and pyrazole derivatives**  
Çalışkan N., Usta A., Beriş F. Ş. , Baltaş N., Çelik E.  
Letters In Organic Chemistry, vol.17, no.8, pp.631-638, 2020 (Journal Indexed in SCI Expanded)
- V. **Synthesis and biological evaluation of new 2,4,6-trisubstituted pyrimidines and their N-alkyl derivatives**  
KAHRİMAN N., SERDAROĞLU V., Peker K., Aydın A., Usta A., Fandakli S., YAYLI N.  
BIOORGANIC CHEMISTRY, vol.83, pp.580-594, 2019 (Journal Indexed in SCI)
- VI. **SYNTHESIS OF SOME NOVEL PYRAZOLINE AND PYRAZOLE DERIVATIVES AS POTENTIAL IN VITRO ANTI-XANTHINE OXIDASE AND ANTIOXIDANT ACTIVITIES**  
Usta A., Baltas N., Ozkan M.  
REVUE ROUMAINE DE CHIMIE, vol.63, no.12, pp.1097-1105, 2018 (Journal Indexed in SCI)
- VII. **Synthesis of Some New Benzimidazole Derivatives with their Antioxidant Activities**  
Usta A., Yilmaz F., KAPUCU G., Baltas N., Mentese E.  
LETTERS IN ORGANIC CHEMISTRY, vol.12, no.4, pp.227-232, 2015 (Journal Indexed in SCI)
- VIII. **Synthesis and antimicrobial properties of N-substituted derivatives of (E)-2',3''-thiazachalcones**  
Usta A., Taskiran H.  
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES, vol.70, pp.45-50, 2015 (Journal Indexed in SCI)
- IX. **Microwave-assisted preparation of azachalcones and their N-alkyl derivatives with antimicrobial activities**  
Usta A., OZTURK E., Beris F. S.  
NATURAL PRODUCT RESEARCH, vol.28, no.7, pp.483-487, 2014 (Journal Indexed in SCI)
- X. **Microwave-Assisted Synthesis of Some 1H-1,2,4-Triazol-3-one Derivatives**  
Karaali N., MENTESE E., YILMAZ F., USTA A., KAHVECİ B.  
SOUTH AFRICAN JOURNAL OF CHEMISTRY-SUID-AFRIKAANSE TYDSKRIF VIR CHEMIE, vol.66, pp.72-76, 2013 (Journal Indexed in SCI)
- XI. **Composition and Antimicrobial Activity of Essential Oil from the Flower of *Rhododendron luteum* Sweet**  
USTA A., Yayli B., Kahrinman N., Karaoglu S. A. , YAYLI N.  
ASIAN JOURNAL OF CHEMISTRY, vol.24, no.5, pp.1927-1930, 2012 (Journal Indexed in SCI)
- XII. **Volatile Constituents and Antimicrobial Activities from Flower and Fruit of *Arbutus unedo* L.**  
KAHRİMAN N., Albay C. G. , DOĞAN N., USTA A., Karaoglu S. A. , YAYLI N.

ASIAN JOURNAL OF CHEMISTRY, vol.22, no.8, pp.6437-6442, 2010 (Journal Indexed in SCI)

- XIII. **Photodimerizations of hydroxy- and benzoylated 4-azachalcones and quantum chemical investigation of the reactions**  
YAŞAR A., Yayli N., USTA A., YAYLI N.  
JOURNAL OF MOLECULAR MODELING, vol.16, no.8, pp.1347-1355, 2010 (Journal Indexed in SCI)
- XIV. **Chemical Composition of the Essential Oils from Flowers of Senecio vernalis and Senecio platyphyllus var. platyphyllus**  
Usta A., ÜÇÜNCÜ O., CANSU T. B., TERZİOĞLU S., YAYLI N.  
ASIAN JOURNAL OF CHEMISTRY, vol.21, no.8, pp.6369-6374, 2009 (Journal Indexed in SCI)
- XV. **Synthesis of methyl (E)-2',4''-thiazachalcones and their N-alkyl derivatives, photochemistry with theoretical calculations and antimicrobial activities**  
USTA A., YAŞAR A., Yayli N., Karaoglu S. A., YAYLI N.  
TURKISH JOURNAL OF CHEMISTRY, vol.33, no.5, pp.621-632, 2009 (Journal Indexed in SCI)
- XVI. **Synthesis, configuration, and antimicrobial properties of novel substituted and cyclized '2',3''-thiazachalcones'**  
Usta A., Yasar A., Yilmaz N., Guelec C., Yayh N., Karaoglu S. A., Yayh N.  
HELVETICA CHIMICA ACTA, vol.90, no.8, pp.1482-1490, 2007 (Journal Indexed in SCI)
- XVII. **Synthesis of novel macromonomeric peroxy initiators of styrene with the cationic copolymerization and the quantum chemically investigation of the initiation system effects**  
KUL D., YILMAZ S. S., OZTURK T., Usta A., MISIR M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.102, no.1, pp.348-357, 2006 (Journal Indexed in SCI)
- XVIII. **Viscosity behaviour of poly (caprolacton-dimethyl methacrylate)/poly(ethylene glycol) blends in various solvents**  
YILMAZ S. S., KUL D., Usta A., OZTURK T., MISIR M.  
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.45, no.9, pp.2031-2034, 2006 (Journal Indexed in SCI)
- XIX. **Cyclic triterpenoid Saponins from Campanula lactiflora**  
YAYLI N., Usta A., Usta A., UCUNCU O., GULEC C., KUCUKISLAMOGU M.  
TURKISH JOURNAL OF CHEMISTRY, vol.30, no.1, pp.21-28, 2006 (Journal Indexed in SCI)
- XX. **Triterpenes from Campanula lactiflora**  
YAYLI N., YILDIRIM N., DOGAN N., Usta A., ALTUN L.  
JOURNAL OF ASIAN NATURAL PRODUCTS RESEARCH, vol.7, no.5, pp.771-775, 2005 (Journal Indexed in SCI)
- XXI. **Composition and antimicrobial activity of essential oils from Centaurea sessilis and Centaurea armena**  
YAYLI N., YASAR A., GÜLEÇ C., USTA A., KOLAYLI S., ÇOŞKUNÇELEBİ K., Karaoglu S.  
PHYTOCHEMISTRY, vol.66, no.14, pp.1741-1745, 2005 (Journal Indexed in SCI)
- XXII. **3-(p-Chlorobenzyl)-4-(p-fluorobenzylideneamino)-4,5-dihydro-1H-1,2,4-triazol-5-one**  
KARAKURT T., DINCER M., KAHVECI B., USTA A., AGAR E., Sasmaz S.  
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.60, 2004 (Journal Indexed in SCI)
- XXIII. **Chemical constituents of Campanula lactiflora**  
Yayli N., Yildirim N., Usta A., Ozkurt S., Akgun V.  
TURKISH JOURNAL OF CHEMISTRY, vol.27, no.6, pp.749-755, 2003 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Toxicological and behavioural potency of different plant extracts on Aedes albopictus (Diptera: Culicidae) and their qualitative phytochemical analysis**  
Usta A., Güney I., Öztürk M., Kiliçkaya Selvi E., Akiner M. M.  
International Journal of Mosquito Research, vol.7, no.5, pp.12-18, 2020 (Refereed Journals of Other Institutions)

- II. **Possible Efficacy of Some Plant Crude Extracts Against *Orosanga japonica* (Hemiptera: Ricaniidae) Nymphs**  
Güney İ., Öztürk M., Usta A., Akner M. M.  
JOURNAL OF ANATOLIAN ENVIRONMENTAL AND ANIMAL SCIENCES, vol.5, no.2, pp.191-198, 2020 (National Refreed University Journal)
- III. **Larvacidal Activity of Some Medicinal Plants Naturally Growing in Turkey Against *Aedes Albopictus* (Diptera: Culicidae)**  
KILIÇKAYA SELVİ E., USTA A., AKINER M. M.  
Journal of Anatolian Environmental and Animal Science, vol.4, no.1, pp.53-59, 2019 (Other Refereed National Journals)
- IV. **Determination of the protonation constants of some chalcones [(2E)-1-(substituted-methylthiophene-2-yl)-3-(substituted-pyridinyl)prop-2-en-1-ones] by the potentiometric method in nonaqueous solvents**  
İSLAMOĞLU F., USTA A., AKSU İ., Yaylı N.  
Der Pharma Chemica, vol.1, no.2, pp.153-161, 2009 (Refereed Journals of Other Institutions)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **"Synthesis of Novel Pyrimidines, N-Alkyl Derivatives, Pyrimidine N-Glucosides and Investigation of Their Biological Activities"**  
KAHRİMAN N., PEKER K., SERDAROĞLU V., AYDIN 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
- II. **"Yeni Metoksi Süstitüe Pirimidin N-Glikozitler ile Tetra-O-Asetil Türevlerinin Sentezleri ve Biyolojik Aktivitelerinin İncelenmesi"**  
KAHRİMAN N., PEKER K., FANDAKLI S., USTA A., AYDIN A., YAYLI N.  
Uluslararası Katımlı 5.İlaç Kimyası Kongresi, Antalya, Turkey, 30 March - 02 April 2017, pp.97
- III. **Antioxidant and Xanthine Oxidase Inhibitory Properties of Pyrazole and Pyrazoline Derivatives**  
BALTAŞ N., Usta A., Özkan M.  
2nd IVEK International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 27 - 29 November 2015, pp.40
- IV. **4 Azakalkon Sentezi ve BSA ile Etkileşiminin İncelenmesi**  
FAİZ Ö., USTA A.  
3.İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 20 - 22 March 2015
- V. **Synthesis of methoxy substituted pyrimidines their alkyl derivatives and investigation of biological activities**  
Şenyürek Z., KAHRİMAN N., Fandaklı S., USTA A., YAYLI N.  
Anatolian Conference on Synthetic Organic Chemistry, Antalya, Turkey, 16 - 19 March 2015
- VI. **Synthesis of methyl substituted pyrimidines their alkyl derivatives and analysis of biological activities**  
Fandaklı S., Şenyürek Z., Kahrıman N., USTA A., Yaylı N.  
Anatolian Conference on Synthetic Organic Chemistry, Antalya, Turkey, 16 - 19 March 2015
- VII. **Synthesis of 2 4 6 trisubstituted pyrimidines their alkyl derivatives and investigation of biological activities**  
KAHRİMAN N., Şenyürek Z., Fandaklı S., USTA A., YAYLI N.  
Anatolian Conference on Synthetic Organic Chemistry, Antalya, Turkey, 16 - 19 March 2015
- VIII. **Synthesis of novel pyrimidines derived from 3 methyl substituted azachalcones their alkyl derivatives and investigation of biological activities**  
KAHRİMAN N., ZEYNEP Ş., FANDAKLI S., USTA A., YAYLI N.

Anatolian Conference On Synthetic Organic Chemistry, Antalya, Turkey, 16 - 19 March 2015

- IX. **Yeni 2,4,6-Trisübstitüe Primidin Bileşikleri ve N"- Alkil Türevlerinin Sentezi ve Antibakteriyal Aktivitelerinin İncelenmesi**  
Kahrman N., Şenyürek Z., Yaylı B., USTA A., BERİŞ F. Ş.  
2. İlaç Kimyası, Üretimi, Teknolojisi ve Standardizasyonu Kongresi, Ankara, Turkey, 21 - 23 March 2014, vol.1, no.1, pp.212
- X. **Synthesis and Biological Activities of o m and p Nitro E 2 Azachalcones and Stereoselective Photochemistry in Solution**  
ÜÇÜNCÜ O., USTA A., KURTULUŞ A., DOĞAN N., YAYLI N.  
International Conference on Organic Chemistry, 5 - 09 June 2007
- XI. **Synthesis and Biological Activities of o-, m- and p- (E)-nitroazachalcones and stereoselective photochemistry in solution**  
ÜÇÜNCÜ O., USTA A., AKPINAR K., DOĞAN N., YAYLI N.  
International Conference on Organic Chemistry, Erzurum, Turkey, 5 - 09 May 2007, pp.88
- XII. **Triterpenes from Campanula lactiflora**  
YAYLI N., YILDIRIM N., DOĞAN N., USTA A., ALTUN L.  
1 st International Congress on the Chemistry of Natural Products, Trabzon, Turkey, 16 - 19 September 2002, pp.78
- XIII. **Chemical Constituents of Campanula lactiflora**  
YAYLI N., YILDIRIM N., USTA A., ÖZKURT S., AKGÜN V.  
1 st International Congress on the Chemistry of Natural Products, Trabzon, Turkey, 16 - 19 September 2002, pp.19
- XIV. **Chemical Constituents of Sempervivum glabrifolium**  
YAYLI N., AKGÜN V., YILDIRIM N., USTA A., ÖZKURT S.  
1 st International Congress on the Chemistry of Natural Products, Trabzon, Turkey, 16 - 19 September 2002, pp.21

## Citations

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