

## Assoc. Prof. Hasan Yakan

### Personal Information

**Email:** hasany@omu.edu.tr

**Web:** <https://avesis.omu.edu.tr/hasany>

### International Researcher IDs

ScholarID: iND2ZykAAAAJ

ORCID: 0000-0002-4428-4696

Publons / Web Of Science ResearcherID: GIK-0738-2022

ScopusID: 46462159400

Yoksis Researcher ID: 160988

### Education Information

Doctorate, Ondokuz Mayıs University, Fen Fakültesi, Kimya Bölümü, Turkey 2008 - 2014

Postgraduate, Ondokuz Mayıs University, Fen Fakültesi, Kimya Bölümü, Turkey 2005 - 2008

Undergraduate, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2002 - 2005

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Microwave-assisted synthesis of some sulphenamide derivatives, Ondokuz Mayıs University, Kimya (Dr), 2014

Postgraduate, N-(4-sübstütüeariltiyo) ftalimitlerin sentezi ve asit katalizli hidroliz mekanizması, Ondokuz Mayıs University, Kimya (YI) (Tezli), 2008

### Research Areas

Chemistry, Organic Chemistry, Organic Spectroscopy, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2021 - Continues

Assistant Professor, Ondokuz Mayıs University, Eğitim Fakültesi, Orta Öğretim Fen Bilimleri ve Matematik, 2014 - 2021

Research Assistant, Ondokuz Mayıs University, Fen Fakültesi, Kimya Bölümü, 2009 - 2014

Research Assistant, Adam Mickiewicz University, Poznan/Polonya, Fen, Kimya, 2011 - 2011

Research Assistant, Karl-Franzens-Universitaet Graz, Fen, Kimya, 2009 - 2009

## Academic and Administrative Experience

Farabi Program Institutional Coordinator, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2015 - Continues  
Head of Department, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2017 - 2019  
Deputy Head of Department, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2015 - 2016

## Courses

BİAE108 GENEL KİMYA LABORATUVARI, Undergraduate, 2023 - 2024  
FZAE108 GENEL KİMYA / BİAE106 GENEL KİMYA, Undergraduate, 2023 - 2024  
MZPF110.78 Öğretmenlik Uygulaması, Undergraduate, 2023 - 2024  
FZAE108 GENEL KİMYA / BİAE106 GENEL KİMYA, Undergraduate, 2022 - 2023  
BİAE108 GENEL KİMYA LABORATUVARI, Undergraduate, 2022 - 2023  
BİAE211 ORGANİK KİMYA, Undergraduate, 2023 - 2024  
FKİ600 Tez Yönetimi, Postgraduate, 2022 - 2023, 2021 - 2022  
BİAE211 ORGANİK KİMYA, Undergraduate, 2022 - 2023  
FBP837 Uzmanlık Alan Dersi, Postgraduate, 2022 - 2023  
FBP837 Uzmanlık Alan Dersi, Postgraduate, 2022 - 2023  
BİAE211 ORGANİK KİMYA, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
FKİ600 Tez Yönetimi, Postgraduate, 2022 - 2023  
BİAE108 GENEL KİMYA LABORATUVARI, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
TBKİM103 GENEL KİMYA I, Undergraduate, 2021 - 2022, 2017 - 2018  
FBP838 Uzmanlık Alan Dersi, Postgraduate, 2021 - 2022  
PFES109.17 ÖĞRETMENLİK UYGULAMASI I, Undergraduate, 2021 - 2022  
FZAE108 GENEL KİMYA / BİAE106 GENEL KİMYA, Undergraduate, 2021 - 2022, 2020 - 2021  
TBKİM104 GENEL KİMYA II, Undergraduate, 2020 - 2021, 2016 - 2017, 2015 - 2016  
SÖAE205.4 FEN BİLİMLERİ LABORATUVAR UYGULAMALARI, Undergraduate, 2020 - 2021  
KMÖ513 A SEÇMELİ II (İLAÇ KİMYASI), Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
KMÖ307 KUANTUM KİMYASINA GİRİŞ, Undergraduate, 2020 - 2021  
FKİ631 Fiziksel Organik Kimya I, Postgraduate, 2020 - 2021, 2019 - 2020  
SÖAE205.3 FEN BİLİMLERİ LABORATUVAR UYGULAMALARI, Undergraduate, 2020 - 2021  
FKİ632 Fiziksel Organik Kimya II, Postgraduate, 2020 - 2021  
KMO409 Alan Eğitimi Araştırma Projesi, Undergraduate, 2019 - 2020, 2018 - 2019  
KMÖ510 Alan Eğitim Araştırma Projesi, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016  
FKİ644 Fiziksel Organik Kimya II, Postgraduate, 2019 - 2020  
KMO403/KMÖ307 Kuantum Kimyasına Giriş, Undergraduate, 2019 - 2020, 2018 - 2019  
KMÖ502 Kimyasal Kinetik, Undergraduate, 2019 - 2020, 2018 - 2019  
FZAE108 Genel Kimya, Undergraduate, 2019 - 2020  
BİAE106 Genel Kimya, Undergraduate, 2019 - 2020, 2018 - 2019  
SNÖ210.3/SNÖ210.5 Fen ve Teknoloji Laboratuvar Uygulamaları-II, Undergraduate, 2018 - 2019  
İMÖ406.6 Öğretmenlik Uygulaması, Undergraduate, 2018 - 2019  
KMÖ209/KMO207 Organik Kimya Lab.-I, Undergraduate, 2018 - 2019  
SNÖ209.5/SNÖ209.6 Fen ve Teknoloji Laboratuvar Uygulamaları-I, Undergraduate, 2018 - 2019  
KMO409 ALAN EĞİTİMDE ARAŞTIRMA PROJESİ, Undergraduate, 2017 - 2018  
IMO407 OKUL DENEYİMİ, Undergraduate, 2017 - 2018  
KMÖ508.1 Öğretmenlik Uygulaması, Undergraduate, 2017 - 2018  
EGTM406 Toplum Hizmet Uygulamaları, Undergraduate, 2017 - 2018  
KMÖ204.1 Organik Kimya-II, Undergraduate, 2017 - 2018

TBKİM104.1 Genel Kimya II, Undergraduate, 2017 - 2018  
KMO208/KMÖ210 Organik Kimya Lab. II, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016  
TBKİM104 GENEL KİMYA I, Undergraduate, 2017 - 2018  
KMÖ508 ÖĞRETMENLİK UYGULAMASI, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015  
KMO209 ORGANİK KİMYA LAB. I, Undergraduate, 2016 - 2017  
KMO104 GENEL KİMYA LAB II, Undergraduate, 2016 - 2017  
KMÖ203 ORGANİK KİMYA I, Undergraduate, 2016 - 2017  
KMÖ509 TOPLUMA HİZMET UYGULAMALARI, Undergraduate, 2016 - 2017  
TBKİM101 GENEL KİMYA I, Undergraduate, 2016 - 2017, 2015 - 2016  
KMÖ505 OKUL DENEYİMİ, Undergraduate, 2016 - 2017, 2015 - 2016  
KMO206/KMÖ204 ORGANİK KİMYA II, Undergraduate, 2016 - 2017, 2015 - 2016  
KMO104 GENEL KİMYA LAB. II, Undergraduate, 2015 - 2016  
KMÖ209/KMO207 ORGANİK KİMYA LAB. I, Undergraduate, 2015 - 2016  
KMO103 GENEL KİMYA LAB. I, Undergraduate, 2015 - 2016  
KMÖ509 TOPLUMA HİZMET UYGULAMASI, Undergraduate, 2015 - 2016  
KMÖ203/KMO205 ORGANİK KİMYA I, Undergraduate, 2015 - 2016  
KMÖ510 ALAN EĞT.ARAŞ.PROJESİ, Undergraduate, 2014 - 2015  
SNÖ210 Fen ve Tek.Lab. Uyg.II, Undergraduate, 2014 - 2015  
BYO104 ORGANİK KİMYA, Undergraduate, 2014 - 2015

## Advising Theses

Yakan H., 5-nitroisatin türevli yeni iminlerin sentezi, karakterizasyonu ve biyolojik özellikleri, Postgraduate, O.BURUK(Student), 2023  
Hasan Y., Bazı yeni 5-brom-2-furoik asit türevi 1,3,4-tiyadiazol bileşiklerinin sentezi, karakterizasyonu, antioksidan ve antibakteriyel aktivitelerinin belirlenmesi, Postgraduate, M.AB.(Student), 2020  
Hasan Y., İsatın- $\beta$ -karbohidrazon, tiyokarbohidrazon türevlerinin sentezi, karakterizasyonu ve antioksidan aktivitelerinin incelenmesi, Postgraduate, A.GHAYTH(Student), 2020

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

- I. **Synthesis, structure elucidation, antioxidant properties, and theoretical calculations of new Schiff bases-isatin derivatives**  
Bakir T. K., Cavus M. S., Muglu H., Yakan H.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.50, no.8, pp.3937-3962, 2024 (SCI-Expanded)
- II. **Kinetic Insights into the Antioxidant Effect of Isatin-Thiosemicarbazone in Biodiesel Blends**  
Türköz Karakullukçu N., Muğlu H., Yakan H., Yılmaz V. M., Marah S., İnce İ. A.  
ANTIOXIDANTS, vol.13, no.819, pp.1-21, 2024 (SCI-Expanded)
- III. **Novel asymmetric bis-carbothioamides as Alzheimer's disease associated cholinesterase inhibitors: synthesis, biological activity, and molecular docking studies**  
Muglu H., Yakan H., Erdogan M., Topal F., Topal M., TÜRKES C., BEYDEMİR Ş.  
NEW JOURNAL OF CHEMISTRY, vol.48, no.24, pp.10979-10989, 2024 (SCI-Expanded)
- IV. **Schiff bases based on thio/carbohydrazide: Synthesis, spectroscopic characterization, DFT, antimicrobial, DNA interactions and cytotoxicity studies**  
Cavus M. S., Yakan H., Baskan C., Muglu H., Babacan A. A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1304, 2024 (SCI-Expanded)
- V. **Inhibitory effects of sulfenimides on human and bovine carbonic anhydrase enzymes**  
Yakan H., Bilir G., Çakmak Ş., Taş Ö., Türköz Karakullukçu N., Soydan E., Kütük H., Güçlü C., Şentürk M., Arslan T., et al.

- VI. **Synthesis, Theoretical, in Silico and in Vitro Biological Evaluation Studies of New Thiosemicarbazones as Enzyme Inhibitors**  
Erdogan M., ÇAVUŞ M. S., MUĞLU H., Yakan H., TÜRKEŞ C., Demir Y., Beydemir S.  
CHEMISTRY & BIODIVERSITY, vol.20, 2023 (SCI-Expanded)
- VII. **Thio/carbohydrazone derivatives from iso(thio)/cyanates: preparation, structure elucidation, DFT studies, antimicrobial activity and DNA interactions**  
ÇAVUŞ M. S., Yakan H., Baskan C., Erdogan M., MUĞLU H.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.49, pp.2639-2667, 2023 (SCI-Expanded)
- VIII. **Preparation, spectroscopic, X-ray crystallographic, DFT, antimicrobial and ADMET studies of N-[(4-fluorophenyl)sulfanyl]phthalimide**  
Çakmak Ş., Aycan T., Yakan H., Veyisoğlu A., Tanak H., Evecen M.  
Acta crystallographica. Section C, Structural chemistry, vol.79, pp.249-256, 2023 (SCI-Expanded)
- IX. **A novel series of thiosemicarbazone hybrid scaffolds: Design, synthesis, DFT studies, metabolic enzyme inhibition properties, and molecular docking calculations**  
Yakan H., MUĞLU H., TÜRKEŞ C., Demir Y., Erdogan M., ÇAVUŞ M. S., BEYDEMİR Ş.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1280, 2023 (SCI-Expanded)
- X. **Enzyme inhibition, molecular docking, and density functional theory studies of new thiosemicarbazones incorporating the 4-hydroxy-3,5-dimethoxy benzaldehyde motif**  
Demir Y., TÜRKEŞ C., ÇAVUŞ M. S., Erdogan M., MUĞLU H., Yakan H., BEYDEMİR Ş.  
ARCHIV DER PHARMAZIE, vol.356, 2023 (SCI-Expanded)
- XI. **Synthesis, structure elucidation, biological activity, enzyme inhibition and molecular docking studies of new Schiff bases based on 5-nitroisatin-thiocarbohydrazone**  
Yakan H., Omer H. S., Buruk O., ÇAKMAK Ş., Marah S., VEYİSOĞLU A., MUĞLU H., Özen T., Kütük H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1277, 2023 (SCI-Expanded)
- XII. **New Schiff bases based on isatin and (thio)/carbohydrazone: preparation, experimental–theoretical spectroscopic characterization, and DFT approach to antioxidant characteristics**  
Muğlu H., Sönmez F., Çavuş M. S., ZENGİN KURT B., Yakan H.  
Research on Chemical Intermediates, vol.49, no.4, pp.1463-1484, 2023 (SCI-Expanded)
- XIII. **Kinetic Studies, Antioxidant Activities, Enzyme Inhibition Properties and Molecular Docking of 1,3-Dihydro-1,3-Dioxoisindole Derivatives**  
Yakan H., Ozturk S., Uyar Tolgay E., Yenigun S., Marah S., Doruk T., Ozen T., Kutuk H.  
ACTA CHIMICA SLOVENICA, vol.70, no.1, pp.29-43, 2023 (SCI-Expanded)
- XIV. **New Bis-1,3,4-Thiadiazoles Based on Fumaric Acid: Preparation, Structure Elucidation, Antibacterial Activities, and Quantum-Chemical Studies**  
Muğlu H., Yakan H., Elefkhakry G. A. I., Altuner E. M., Serdar Çavuş M.  
Acta Chimica Slovenica, vol.70, no.2, pp.247-260, 2023 (SCI-Expanded)
- XV. **ISATIN/THIOSEMICARBAZONE HYBRIDS: FACILE SYNTHESIS, AND THEIR EVALUATION AS ANTI-PROLIFERATIVE AGENTS AND METABOLIC ENZYME INHIBITORS**  
Yakan H., Azam M., Kansiz S., Muğlu H., ERGÜL M., Taslimi P., KOÇYİĞİT Ü. M., Karaman M., Al-Resayes S. I., Min K.  
Bulletin of the Chemical Society of Ethiopia, vol.37, no.5, pp.1221-1236, 2023 (SCI-Expanded)
- XVI. **Synthesis of new bis(thiosemicarbazone) derivatives and DFT analysis of antioxidant characteristics in relation to HAT and SET reactions**  
MUĞLU H., ÇAVUŞ M. S., BAKIR T. K., Yakan H.  
JOURNAL OF THE INDIAN CHEMICAL SOCIETY, vol.99, no.12, 2022 (SCI-Expanded)
- XVII. **New 5-methylisatin including thiocarbohydrazones: preparation, structure elucidation and antimicrobial activity**  
Yakan H., ÇAKMAK Ş., Buruk O., VEYİSOĞLU A., MUĞLU H., Türköz Karakullukçu N.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.48, no.10, pp.4331-4345, 2022 (SCI-Expanded)
- XVIII. **Determination of biological studies and molecular docking calculations of isatin-thiosemicarbazone hybrid compounds**

- KOÇYİĞİT Ü. M., DOĞAN M., MUĞLU H., Taslimi P., TÜZÜN B., Yakan H., BAL H., Guzel E., Gulcin I.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1264, 2022 (SCI-Expanded)
- XIX. **Synthesis, X-ray structure, antimicrobial activity, DFT and molecular docking studies of N-(thiophen-2-ylmethyl)thiophene-2-carboxamide**  
ÇAKMAK Ş., DEMİRCİOĞLU Z., Uzun S., VEYİSOĞLU A., Yakan H., ERSANLI C. C.  
ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY, vol.78, pp.390-401, 2022 (SCI-Expanded)
- XX. **1,2,3-Triazole substituted phthalocyanine metal complexes as potential inhibitors for anticholinesterase and antidiabetic enzymes with molecular docking studies**  
KOÇYİĞİT Ü. M., Taslimi P., TÜZÜN B., Yakan H., MUĞLU H., Guzel E.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.10, pp.4429-4439, 2022 (SCI-Expanded)
- XXI. **Potential thiosemicarbazone-based enzyme inhibitors: Assessment of antiproliferative activity, metabolic enzyme inhibition properties, and molecular docking calculations**  
Yakan H., KOÇYİĞİT Ü. M., MUĞLU H., ERGÜL M., ERKAN S., Guzel E., Taslimi P., GÜLÇİN İ.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.36, no.5, 2022 (SCI-Expanded)
- XXII. **Preparation, antioxidant activity, and theoretical studies on the relationship between antioxidant and electronic properties of bis(thio/carbohydrazone) derivatives**  
MUĞLU H., ZENGİN KURT B., Sonmez F., Guzel E., Cavul M. S., Yakan H.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.164, 2022 (SCI-Expanded)
- XXIII. **Synthesis, Spectroscopic Characterization, Single-Crystal Structure, Hirshfeld Surface Analysis, and Antimicrobial Studies of 3-Acetoxy-2-methylbenzoic Anhydride**  
ÇAKMAK Ş., Kansiz S., Azam M., VEYİSOĞLU A., Yakan H., Min K.  
ACS OMEGA, vol.7, no.20, pp.17192-17201, 2022 (SCI-Expanded)
- XXIV. **New N,N '-bis(thioamido)thiocarbohydrazones and carbohydrazones: synthesis, structure characterization, antioxidant activity, corrosion inhibitors and DFT studies**  
ÇAVUŞ M. S., Yakan H., Ozorak C., MUĞLU H., BAKIR T. K.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.48, no.4, pp.1593-1613, 2022 (SCI-Expanded)
- XXV. **Synthesis, Structural Investigation, Hirshfeld Surface Analysis, and Biological Evaluation of N-(3-Cyanothiophen-2-yl)-2-(thiophen-2yl)acetamide**  
ÇAKMAK Ş., Kansiz S., Azam M., ERSANLI C. C., İDİL Ö., VEYİSOĞLU A., Yakan H., Kütük H., Chutia A.  
ACS OMEGA, vol.7, no.13, pp.11320-11329, 2022 (SCI-Expanded)
- XXVI. **Experimental and theoretical investigations on a furan-2-carboxamide-bearing thiazole: synthesis, molecular characterization by IR/NMR/XRD, electronic characterization by DFT, Hirshfeld surface analysis and biological activity**  
ÇAKMAK Ş., Kirca B. K., VEYİSOĞLU A., Yakan H., ERSANLI C. C., Kütük H.  
ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY, vol.78, pp.201-216, 2022 (SCI-Expanded)
- XXVII. **Exploring of antioxidant and antibacterial properties of novel 1,3,4-thiadiazole derivatives: Facile synthesis, structural elucidation and DFT approach to antioxidant characteristics**  
MUĞLU H., Akin M., ÇAVUŞ M. S., Yakan H., ŞAKI N., Guzel E.  
COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.96, 2022 (SCI-Expanded)
- XXVIII. **Synthesis, structure characterization and quantum chemical study on relationship between structure and antioxidant properties of novel Schiff bases bearing (thio)/carbohydrazones**  
MUĞLU H., Yakan H., Misbah A. G. A., ÇAVUŞ M. S., BAKIR T. K.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.47, no.12, pp.4985-5005, 2021 (SCI-Expanded)
- XXIX. **A new series of asymmetric bis-isatin derivatives containing urea/thiourea moiety: Preparation, spectroscopic elucidation, antioxidant properties and theoretical calculations**  
Yakan H., ÇAVUŞ M. S., ZENGİN KURT B., MUĞLU H., Sonmez F., Guzel E.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1239, 2021 (SCI-Expanded)
- XXX. **New beta-isatin aldehyde-N,N '-thiocarbohydrazones: preparation, spectroscopic studies and DFT approach to antioxidant characteristics**  
Yakan H., BAKIR T. K., ÇAVUŞ M. S., MUĞLU H.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.46, no.12, pp.5417-5440, 2020 (SCI-Expanded)

- XXXI. **Novel Schiff bases derived from isothiocyanates: synthesis, characterization, and antioxidant activity**  
Yakan H.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.46, no.8, pp.3979-3995, 2020 (SCI-Expanded)
- XXXII. **Synthesis, characterization, antioxidant, and antibacterial activities of new 2,3-dimethoxy and 3-acetoxy-2-methyl benzamides**  
Yakan H., ÇAKMAK Ş., Kütük H., Yenigun S., Özen T.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.46, no.5, pp.2767-2787, 2020 (SCI-Expanded)
- XXXIII. **Novel carbohydrazones including 5-substituted isatin: Synthesis, characterization, and quantum-chemical studies on the relationship between electronic and antioxidant properties**  
ÇAVUŞ M. S., Yakan H., MUĞLU H., Bakir T.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.140, 2020 (SCI-Expanded)
- XXXIV. **New 1,3,4-thiadiazoles based on thiophene-2-carboxylic acid: Synthesis, characterization, and antimicrobial activities**  
MUĞLU H., Yakan H., Shouaib H. A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1203, 2020 (SCI-Expanded)
- XXXV. **Two new benzamides: Synthesis, spectroscopic characterization, X-ray diffraction, and electronic structure analyses**  
Kirca B. K., ÇAKMAK Ş., Yakan H., ODABAŞOĞLU M., Buyukgungor O., Kütük H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1203, 2020 (SCI-Expanded)
- XXXVI. **Phthalocyanines including 2-mercaptobenzimidazole analogs: Synthesis, spectroscopic characteristics, quantum-chemical studies on the relationship between electronic and antioxidant properties**  
Yakan H., ÇAVUŞ M. S., Guzel E., Arslan B. S., Bakir T., MUĞLU H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1202, 2020 (SCI-Expanded)
- XXXVII. **Preparation, structure elucidation, and antioxidant activity of new bis(thiosemicarbazone) derivatives**  
Yakan H.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.4, pp.1085-1117, 2020 (SCI-Expanded)
- XXXVIII. **Synthesis, spectroscopic studies, and antioxidant activities of novel thio/carbohydrazones and bis-isatin derivatives from terephthalaldehyde**  
MUĞLU H., Yakan H., BAKIR T. K.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.1, pp.237-256, 2020 (SCI-Expanded)
- XXXIX. **Synthesis, characterization, quantum chemical calculations and antioxidant activity of new bis-isatin carbohydrazone and thiocarbohydrazone derivatives**  
MUĞLU H., ÇAVUŞ M. S., Bakir T., Yakan H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1196, pp.819-827, 2019 (SCI-Expanded)
- XL. **Phthalocyanines with bromobenzenesulfanyl substituents at non-peripheral position: Preparation, photophysical and photochemical properties**  
YAŞA ATMACA G., Yakan H., Kütük H., NEBİOĞLU M., Guzel E., ERDOĞMUŞ A.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, no.7-8, pp.821-827, 2019 (SCI-Expanded)
- XLI. **Comparison of conventional and microwave-assisted synthesis of some new sulfenamides under free catalyst and ligand**  
Yakan H., Kütük H.  
MONATSHEFTE FUR CHEMIE, vol.149, no.11, pp.2047-2057, 2018 (SCI-Expanded)
- XLII. **Crystal and Molecular Structure of N-(Phenylthio)phthalimide(1)**  
TANAK H., Yakan H., Kütük H., Türköz Karakullukçu N., DEGE N.  
CRYSTALLOGRAPHY REPORTS, vol.63, no.3, pp.379-381, 2018 (SCI-Expanded)
- XLIII. **Spectroscopic Properties and Preparation of Some 2,3-Dimethoxybenzamide Derivatives**  
ÇAKMAK Ş., Kütük H., ODABAŞOĞLU M., Yakan H., Buyukgungor O.  
LETTERS IN ORGANIC CHEMISTRY, vol.13, no.3, pp.181-194, 2016 (SCI-Expanded)
- XLIV. **CHARACTERIZATION AND COMPARATIVE STUDIES ON CONVENTIONAL AND MICROWAVE SYNTHESIS**

## **OF SOME DISULFIDES**

Türköz Karakullukçu N., Yakan H., Öztürk S., Kütük H.

PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.188, no.11, pp.1576-1583, 2013 (SCI-Expanded)

## **XLV. THE MECHANISMS OF ACID-CATALYZED HYDROLYSIS OF N-(4-SUBSTITUTED ARYLTHIO) PHTHALIMIDES**

Kütük H., Yakan H.

PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.186, no.7, pp.1460-1469, 2011 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **Synthesis, characterization, and antioxidant activities of new 1,3,4-thiadiazoles based on benzoic acid Benzoik asit temelli yeni 1,3,4-tiyadiazollerin sentezi, karakterizasyonu ve antioksidan aktiviteleri**  
Yakan H.  
El-Cezeri Journal of Science and Engineering, vol.8, no.1, pp.155-163, 2021 (Scopus)
- II. **Preparation, Characterization, and Antioxidant Features of Some New Schiff Bases Derived from Isatins and Hydrazine**  
MUĞLU H., YAKAN H.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, no.1, pp.439-447, 2020 (Peer-Reviewed Journal)
- III. **Synthesis of some symmetric disulfides from thiophthalimides and amines under microwave irradiation**  
Yakan H., Karakullukcu N. T., Cakmak S., Kutuk H.  
Research Journal of Chemistry and Environment, vol.22, no.4, pp.45-54, 2018 (Scopus)

## **Books & Book Chapters**

- I. **Volume 2: Synthesis, Characterizations and Properties**  
YAŞA ATMACA G., YAKAN H., KÜTÜK H., NEBİOĞLU M., GÜZEL E., ERDOĞMUŞ A.  
in: Porphyrin Science By Women, Fabienne Dumoulin, Tebello Nyokong, Penelope J Brothers, Editor, World Scientific Publishing Co., pp.630-636, 2020

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

- I. **SYNTHESIS AND STRUCTURE ELUCIDATION OF NEW SCHIFF BASE DERIVED 5-NITROISATIN**  
BURUK O., YAKAN H.  
HODJA AKHMET YASSAWI 6th International Conference on Scientific Research, Lankaran, Azerbaijan, 13 - 15 May 2022
- II. **SYNTHESIS AND SPECTROSCOPIC CHARACTERIZATION OF NEW ASYMMETRIC BIS-ISATIN DERIVATIVES**  
YAKAN H., MUĞLU H.  
3. INTERNATIONAL PALANDOKEN SCIENTIFIC STUDIES CONGRESS (2021), Erzurum, Turkey, 11 - 12 December 2021
- III. **PREPARATION, STRUCTURE ELUCIDATION, AND ANTIOXIDANT ACTIVITY OF NEW ISATIN DERIVATIVES INCLUDING SCHIFF BASES**  
YAKAN H.  
3. INTERNATIONAL SCIENCES AND INNOVATION CONGRESS (2021), Ankara, Turkey, 21 - 22 November 2021

- IV. **SYNTHESIS AND CHARACTERIZATION NOVEL 1,3,4-THIADIAZOLES BASED ON SALICYLIC ACID**  
YAKAN H.  
2. International Icontech Symposium on Innovative Surveys in Positive Sciences (2020), Budapest, Hungary, 23 - 26 September 2020
- V. **PREPARATION AND CHARACTERIZATION OF SOME NOVEL IMINES INCLUDING VARIOUS ALDEHYDES**  
YAKAN H.  
ISPEC 8th INTERNATIONAL CONFERENCE ON ENGINEERING NATURAL SCIENCES (2020), Ankara, Turkey, 12 - 14 June 2020
- VI. **Synthesis and spectroscopic studies of novel Schiff bases from carbohydrazide**  
YAKAN H.  
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 19 - 20 March 2020
- VII. **The synthesis and mechanism of acid-catalysed hydrolysis of some N-(arylsubstituted)succinimides**  
Shahabi S., ÖZTÜRK S., YAKAN H., KÜTÜK H.  
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 19 - 20 March 2020
- VIII. **Synthesis, characterization, and antioxidant activities of novel bis-isatins carbohydrazones including schiff bases.**  
MUĞLU H., YAKAN H., BAKIR T. K.  
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019
- IX. **Synthesis of some novel 3-acetoxy-2-methyl and 2,3-dimethoxy benzamides**  
YAKAN H., ÇAKMAK Ş.  
3rd International Turkish Congress on Molecular Spectroscopy (TURCMOS), Muğla, Turkey, 26 - 29 August 2017, vol.46, pp.2767-2787
- X. **Synthesis of some imines from 5-substituted aldehydes under microwave irradiation**  
YAKAN H., YALINYİĞİT F., KÜTÜK H.  
International Congress on Fundamental and Applied Sciences (ICFAS 2017), Sarajevo, Bosnia And Herzegovina, 21 - 25 August 2017
- XI. **VIEWS OF HIGH SCHOOL STUDENTS ON COLOURFUL WORLD OF SCIENCE WITH REAL LIFE APPLICATIONS PROJECT**  
TURAL G., YAKIŞAN M., BİLİCİ M., YAKAN H.  
1st INTERNATIONAL ACADEMIC RESEARCH CONGRESS (INES 2016), SIDE/ANTALYA, Turkey, 3 - 05 November 2016
- XII. **Lise Öğrencilerinin Gerçek Yaşam Uygulamaları İle Bilimin Renkli Dünyası Projesine Yönelik Görüşleri**  
TURAL G., YAKIŞAN M., BİLİCİ M., YAKAN H.  
I. INTERNATIONAL ACADEMIC RESEARCH CONGRESS, Antalya, Turkey, 3 - 05 November 2016, pp.1693-1698
- XIII. **Investigation of the acid catalyzed hydrolysis and reaction mechanism of N-(4-substitutedaryl) phthalimides**  
YAKAN H., TOLGAY E., KÜTÜK H.  
International Congress on Fundamental and Applied Sciences 2016 (ICFAS2016), İstanbul, Turkey, 22 - 26 August 2016
- XIV. **Microwave-assisted amination of aryl bromides including benzimidazole scaffold**  
SARAL H., ÖZDAMAR Ö., YAKAN H., BEKDEMİR Y.  
Anatolian Conference on Synthetic Organic Chemistry (ACSOC 2015), Antalya, Turkey, 16 - 19 March 2015
- XV. **Microwave assisted synthesis of morpholine based sulfenamides**  
YAKAN H., TÜRKÖZ KARAKULLUKÇU N., KÜTÜK H.  
Anatolian Conference on Synthetic Organic Chemistry (ACSOC 2015), Antalya, Turkey, 16 - 19 March 2015
- XVI. **Synthesis of some thiophthalimides from thiols**  
YAKAN H., SARAL H., ÖZDAMAR Ö., KÜTÜK H.



- Anatolian Conference on Synthetic Organic Chemistry (ACSOC 2015), Antalya, Turkey, 16 - 19 March 2015
- XVII. **Copper (I) iodine catalyzed one-pot three component synthesis of 2H-indazoles under microwave conditions**  
ÖZDAMAR Ö., YAKAN H., SARAL H., BEKDEMİR Y.  
Anatolian Conference on Synthetic Organic Chemistry (ACSOC 2015), Antalya, Turkey, 16 - 19 March 2015
- XVIII. **SYNTHESIS OF DISULFIDES FROM SULFENIMIDES AND AMINES**  
Yakan H., Öztürk S., Türköz Karakullukçu N., Kütük H.  
Uluslararası Katılımlı 26.Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012
- XIX. **Mikrodalga Yardımı ile Sülfenamid Türevlerinin Sentezi**  
YAKAN H., TÜRKÖZ KARAKULLUKÇU N., ÖZTÜRK S., KÜTÜK H.  
Uluslararası Katılımlı 26.Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012
- XX. **N-p-Süstitüesülfonil ftalimitlerin Metilamin ve Triptamin İle Yer Değiştirme Tepkimeleri**  
ÖZTÜRK S., YAKAN H., KÜTÜK H.  
III. Fiziksel Kimya Günleri, Balıkesir, Turkey, 12 - 15 July 2012
- XXI. **"Erasmus'un Öğrencilere Katkıları"**  
YAKAN H.  
1. Fen Bilimleri Enstitüsü Lisansüstü Eğitim Günleri, Samsun, Turkey, 20 - 21 March 2012
- XXII. **Bazı Disülfürlerin Mikrodalga Yardımıyla Sentezi**  
TÜRKÖZ KARAKULLUKÇU N., YAKAN H., KÜTÜK H.  
Uluslararası Katılımlı 25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011
- XXIII. **Mikrodalga Yardımı ile Bazı Disülfürlerin Sentezi**  
YAKAN H., TÜRKÖZ KARAKULLUKÇU N., KÜTÜK H.  
Uluslararası Katılımlı 25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011
- XXIV. **Bazı Tiyofталimit Türevlerinin Sentezi ve Yapılarının Aydınlatılması**  
YAKAN H., TÜRKÖZ KARAKULLUKÇU N., KÜTÜK H.  
Uluslararası Katılımlı XXII. Ulusal Spektroskopi Kongresi, Antalya, Turkey, 18 - 22 May 2011
- XXV. **Mikrodalga Yardımıyla N-Fenilmaleimitin Sentezinde Seçicilik**  
YAKAN H., KÜTÜK H., BEKDEMİR Y., KAPPE C. O.  
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010
- XXVI. **Ariltiyo ftalimit Türevlerinin Sentezi ve Asit katalizli Hidroliz Mekanizmasının Araştırılması**  
YAKAN H., KÜTÜK H.  
23. Ulusal Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009

## Supported Projects

Yakan H., Kütük H., Çakmak Ş., Ersanlı C. C., Project Supported by Higher Education Institutions, Bazı Amit Türevi Bileşiklerin Sentezi, Spektroskopik Özellikleri, X-Işınları Kırınımı Yöntemi ve YFT ile Yapılarının Aydınlatılması, 2017 - 2020

Tural G., Yakışan M., Bilici M., Yakan H., Turhan S., Özcan M., Güzel M., TUBITAK Project, Gerçek Yaşam Uygulamaları ile Bilimin Renkli Dünyası, 2016 - 2016

Yakan H., Ergün M., Kütük H., TUBITAK Project, TÜBİTAK BİDEB 2229 Kimya Öğretmenlerine Yönelik Bilim Danışmanlığı Çalıştay, 2014 - 2014

Kütük H., Yakan H., Project Supported by Higher Education Institutions, Bazı Sülfenamid Türevlerinin Mikrodalga Yardımıyla Sentezi, 2010 - 2013

## Memberships / Tasks in Scientific Organizations

Ulusal Kristalografi Derneği , Member, 2024 - Continues, Turkey

## Scientific Refereeing

ACTA CHIMICA SLOVENICA, Journal Indexed in SCI-E, June 2024

JOURNAL OF SULFUR CHEMISTRY, Journal Indexed in SCI-E, December 2023

ORDU ÜNİVERSİTESİ BİLİM VE TEKNOLOJİ, National Scientific Refreed Journal, September 2023

JOURNAL OF SAUDI CHEMICAL SOCIETY, Journal Indexed in SCI-E, June 2023

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, June 2023

Project Supported by Higher Education Institutions, BAP Research Project, Ordu University, Turkey, April 2023

RESEARCH ON CHEMICAL INTERMEDIATES, SCI Journal, March 2023

CUMHURİYET SCIENCE JOURNAL, National Scientific Refreed Journal, January 2023

RESEARCH ON CHEMICAL INTERMEDIATES, Journal Indexed in SCI-E, September 2022

BMC Chemistry, Journal Indexed in SCI-E, September 2022

Project Supported by Higher Education Institutions, BAP Research Project, Sakarya University Of Applied Sciences, Turkey, February 2022

Project Supported by Higher Education Institutions, BAP Research Project, Yildiz Technical University, Turkey, November 2021

Fırat Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, September 2021

CHEMICAL PAPERS, SCI Journal, March 2021

BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA, SCI Journal, November 2020

Project Supported by Higher Education Institutions, BAP Research Project, Kastamonu University, Turkey, May 2020

RESEARCH ON CHEMICAL INTERMEDIATES, SCI Journal, December 2019

Project Supported by Higher Education Institutions, BAP Research Project, Kastamonu University, Turkey, April 2019

Scholarena Journal of Pharmacy and Pharmacology (SAJPP), Other Indexed Journal, September 2018

## Tasks In Event Organizations

Yakan H., 11. INTERNATIONAL MAY 19 INNOVATIVE SCIENTIFIC APPROACHES CONGRESS, Scientific Congress, Samsun, Turkey, Mayıs 2024

Yakan H., 10. INTERNATIONAL MAY 19 INNOVATIVE SCIENTIFIC APPROACHES CONGRESS, Scientific Congress, Samsun, Turkey, Ekim 2023

Yakan H., 15. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Scientific Congress, Kars, Turkey, Eylül 2023

Yakan H., 9. INTERNATIONAL MAY 19 INNOVATIVE SCIENTIFIC APPROACHES CONGRESS, Scientific Congress, Samsun, Turkey, Mayıs 2023

## Awards

Yakan H., Dünyanın En Etkili Bilim İnsanları "Yıllık Etki" Kategorisi, Stanford University, September 2024

Yakan H., 2023 yılı OMÜ Makale Şampiyonu , Ondokuz Mayıs Üniversitesi, April 2024

Yakan H., 2022 yılı OMÜ Makale Şampiyonu , Ondokuz Mayıs Üniversitesi, February 2024