

## Assoc. Prof. AYDIN AKTAŞ

### Personal Information

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**Address:** İnönü Üniversitesi Sağlık Hizmetleri MYO Tıbbi Hizmetler ve Teknikler Programı, Battalgazi / MALATYA

### International Researcher IDs

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Publons / Web Of Science ResearcherID: J-6194-2019

ScopusID: 56735838100

Yoksis Researcher ID: 277843

### Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Organik Kimya, Turkey 2012 - 2017

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Organik Kimya, Turkey 2010 - 2012

Undergraduate, Selcuk University, Faculty Of Education, Kimya Öğretmenliği, Turkey 1997 - 2001

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, Pd-N-Heterosiklik Karben Komplekslerinin Sentezi, Özellikleri, Katalitik Aktiviteleri ve Antikanser Uygulamaları, Inonu University, Fen Bilimleri Üniversitesi, Organik Kimya, 2017

Postgraduate, (1,3-dialkilimidazolin-2-iliden)-Gümüş ve Rutenyum Komplekslerinin Sentezi ve Özellikleri, Inonu University, Fen Bilimleri Enstitüsü, Organik Kimya, 2012

### Research Areas

Chemistry, Catalysis, Metal Carbene Complexes, Organic Chemistry, Chemistry of Heterocyclic Compounds, Organic Spectroscopy, Organometallics

### Academic Titles / Tasks

Associate Professor, Inonu University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler, 2021 - Continues

Assistant Professor, Inonu University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler, 2020 - 2021

## Academic and Administrative Experience

BAP Koordinatör Yardımcısı, Inonu University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler, 2021  
- Continues  
BAP Scientific Commissioner, Inonu University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler, 2021  
- Continues  
Mevlana Exchange Program Coordinator, Inonu University, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler, 2021 - Continues  
Assistant Director of Vocational School, Inonu University, 2022 - 2023

## Courses

ORGANİK SPEKTROSKOPİ, Postgraduate, 2022 - 2023  
Organik Kimya, Associate Degree, 2020 - 2021  
Çocukta Bilim ve Teknoloji, Associate Degree, 2020 - 2021  
Temel Kimya, Associate Degree, 2020 - 2021  
Quality Assurance and Standards, Associate Degree, 2019 - 2020  
Laboratuvar Aletleri ve Sterilizasyon, Associate Degree, 2020-2021  
Temel Kimya, Associate Degree, 2020-2021  
Kalite Güvencesi, Associate Degree, 2020-2021  
Laboratory Tools and Sterilization, Associate Degree, 2019 - 2020  
İlaç Kimyası, Associate Degree, 2020 - 2021  
İlaç Kimyası, Associate Degree, 2020-2021  
Laboratuvar Aletleri ve Sterilizasyon, Associate Degree, 2020 - 2021  
Basic Information Technologies, Associate Degree, 2019 - 2020  
Kalite Güvence ve Standartlar, Associate Degree, 2020-2021  
Temel Bilgi Teknolojileri, Associate Degree, 2019-2020  
Kalite Güvence ve Standart, Associate Degree, 2019-2020  
Laboratuvar Aletleri Sterilizasyon, Associate Degree, 2019-2020

## Advising Theses

Gök Y., Aktaş A., ELEKTRON ÇEKİCİ GRUP İÇEREN KARBEN ÖNCÜLLERİ VE KARBEN KOMPLEKSLERİ, Postgraduate, Ö.Demirci(Student), 2021

## Jury Memberships

Doctoral Examination, Doctoral Examination, Eskişehir Teknik Üniversitesi, June, 2023  
Doctoral Examination, Doctoral Examination, Eskişehir Teknik Üniversitesi, June, 2023  
Post Graduate, Post Graduate, İnönü Üniversitesi, June, 2022  
Doctoral Examination, Doctoral Examination, İnönü Üniversitesi, January, 2022  
Post Graduate, Post Graduate, İnönü Üniversitesi, July, 2021  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İnönü Üniversitesi, April, 2021

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

- Synthesis, characterization, crystal structure, biological activities, and molecular docking study of the (NHC)Pd(II)(Morp) (NHC: N-heterocyclic carbene, Morp: Morpholine) complexes**  
Aktaş A., Taslimi P., Bal S., Barut Celepci D., Gök Y., Taşkın Tok T., Aygün M., Gülçin İ.

POLYHEDRON, vol.257, pp.1-14, 2024 (SCI-Expanded)

- II. **Bisbenzimidazole salts and their in silico–in vitro inhibitory abilities on hCA I, hCA II, and AChE enzymes**  
Yılmaz Ü., Demir Y., Taşkın Tok T., Gök Y., Aktaş A., Gülçin İ.  
MONATSCHEFTE FÜR CHEMIE, vol.155, no.6, pp.653-662, 2024 (SCI-Expanded)
- III. **New palladium complexes with N-heterocyclic carbene and morpholine ligands: Synthesis, characterization, crystal structure, molecular docking, and biological activities**  
Behçet A., Taslimi P., Şen Yüksel B., Taşkın Tok T., Aktaş A., Gök Y., Aygün M., Gülçin İ.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.38, no.1, pp.1-14, 2024 (SCI-Expanded)
- IV. **Acetylphenyl-substituted imidazolium salts: synthesis, characterization, in silico studies and inhibitory properties against some metabolic enzymes**  
Demirci Ö., Tezcan B., Demir Y., Taşkın Tok T., Gök Y., Aktaş A., Güzel B., Gülçin İ.  
MOLECULAR DIVERSITY, vol.27, pp.2767-2787, 2023 (SCI-Expanded)
- V. **Benzimidazolium Salts Bearing Nitrile Moieties: Synthesis, Enzyme Inhibition Profiling, and Molecular Docking Analysis for Carbonic Anhydrase and Acetylcholinesterase**  
Öner E., Gök Y., Demir Y., Taşkın Tok T., Aktaş A., Gülçin İ., Yalın S.  
CHEMISTRY AND BIODIVERSITY, vol.21, no.2, pp.1-14, 2023 (SCI-Expanded)
- VI. **N-Heterocyclic Compounds, in silico Molecular Docking Studies, and in vitro Enzyme Inhibition Effect Against Acetylcholinesterase Inhibitors**  
Güzel A., Işık Z., Gök Y., Taşkın Tok T., Aktaş A.  
CURRENT TOPICS IN MEDICINAL CHEMISTRY, vol.2023, pp.2416-2426, 2023 (SCI-Expanded)
- VII. **Thioether-substituted Benzimidazolium Salts: Synthesis, Characterization, Crystal Structure, and Their Inhibitory Properties Against Acetylcholinesterase and Xanthine Oxidase**  
Yavuz K., Noma S. A. A., Şen Yüksel B., Taşkın Tok T., Aktaş A., Ateş B., Osman B., Aygün M., Gök Y.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1287, no.135640, pp.1-10, 2023 (SCI-Expanded)
- VIII. **Synthesis of Thiazole-Chalcone Hybrid Molecules: Antioxidant, Alpha( $\alpha$ )-Amylase Inhibition and Docking Studies**  
Iqbal H., Akhtar ., Haroon M., Aktaş A., Tahir ., Ehsan M.  
CHEMISTRY AND BIODIVERSITY, vol.1134, pp.1-12, 2023 (SCI-Expanded)
- IX. **The Cytotoxicity Profile, Apoptosis Mechanism, and Molecular Docking Studies of a Series of Benzimidazolium Derivative Morpholine-Substituted Ag(I) Heterocyclic Carbene Complexes**  
Kutlu T., Yıldırım I., Dikmen M., Taşkın Tok T., Aktaş A., Gök Y.  
PHARMACEUTICAL CHEMISTRY JOURNAL, vol.57, no.1, pp.10-28, 2023 (SCI-Expanded)
- X. **Design, synthesis, characterization, crystal structure, in silico studies, and inhibitory properties of the PEPPSI type Pd(II)NHC complexes bearing chloro/fluorobenzyl group**  
Gök Y., Taslimi P., Şen Yüksel B., Bal S., Aktaş A., Aygün M., Sadeghi M., Gülçin İ.  
BIOORGANIC CHEMISTRY, vol.135, no.106513, pp.1-13, 2023 (SCI-Expanded)
- XI. **Fluorinated benzimidazolium salts: Synthesis, characterization, molecular docking studies and inhibitory properties against some metabolic enzymes**  
Zengin R., Gök Y., Demir Y., Şen Yüksel B., Taşkın Tok T., Aktaş A., Demirci Ö., Gülçin İ., Aygün M.  
JOURNAL OF FLUORINE CHEMISTRY, vol.267, no. 110094, pp.1-12, 2023 (SCI-Expanded)
- XII. **Design, synthesis, spectroscopic characterizations, single crystal X-ray analysis, in vitro xanthine oxidase and acetylcholinesterase inhibitory evaluation as well as in silico evaluation of selenium-based N-heterocyclic carbene compounds.**  
Kaya G., Noma S. A. A., Barut Celepci D., Bayıl İ., Taskin-Tok T., Gök Y., Ateş B., Aktaş A., Aygün M., Tezcan B.  
Journal of biomolecular structure & dynamics, vol.41, no.21, pp.11728-11747, 2023 (SCI-Expanded)
- XIII. **Benzimidazolium Salts Containing Trifluoromethoxybenzyl: Synthesis, Characterization, Crystal Structure, Molecular Docking Studies and Enzymes Inhibitory Properties**  
Hamide M., Gök Y., Demir Y., Sevinçek R., Taşkın T., Tezcan B., Aktaş A., Gülçin İ., Aygün M., Güzel B.  
CHEMISTRY AND BIODIVERSITY, vol.202200257, pp.1-12, 2022 (SCI-Expanded)
- XIV. **Synthesis, Characterization and Inhibitor Properties of Benzimidazolium Salts Bearing 4-**

### **(methylsulfonyl)benzyl Side Arms**

Güzel A., Noma S. A. A., Şen Yüksel B., Kazancı A., Taşkın Tok T., Kolaç T., Aktaş A., Ateş B., Aygün M., Gök Y.  
JOURNAL OF MOLECULAR STRUCTURE, vol.134320, pp.1-11, 2022 (SCI-Expanded)

- XV. **The palladium-based complexes bearing 1,3-dibenzylbenzimidazolium with morpholine, triphenylphosphine, and pyridine derivate ligands: synthesis, characterization, structure and enzyme inhibitions**  
Aktaş A., Yakalı G., Demir Y., Gülçin İ., Aygün M., Gök Y.  
HELIYON, vol.8, no.9, pp.1-11, 2022 (SCI-Expanded)
- XVI. **New PEPPSI-Pd-NHC complexes bearing 4-hydroxyphenylethyl group: Synthesis, characterization, molecular docking, and bioactivity properties**  
Behçet A., Taslimi P., Gök Y., Aktaş A., Taşkın Tok T., Gülçin İ.  
ARCHIV DER PHARMAZIE, vol.276, pp.1-13, 2022 (SCI-Expanded)
- XVII. **Pentafluorobenzyl-substituted benzimidazolium salts: Synthesis, characterization, crystal structures, computational studies and inhibitory properties of some metabolic enzymes**  
Hamide M., Gök Y., Demir Y., Yakalı G., Taşkın Tok T., Aktaş A., Sevinçek R., Güzel B., Gülçin İ.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1265, pp.1-15, 2022 (SCI-Expanded)
- XVIII. **Benzimidazolium salts bearing the trifluoromethyl group as organofluorine compounds: Synthesis, characterization, crystal structure, in silico study, and inhibitory profiles against acetylcholinesterase and  $\alpha$ -glycosidase**  
Tezcan B., Gök Y., Sevinçek R., Taslimi P., Taşkın Tok T., Aktaş A., Güzel B., Aygün M., Gülçin İ.  
Journal Of Biochemical And Molecular Toxicology, vol.23001, pp.1-16, 2022 (SCI-Expanded)
- XIX. **Synthesis, Characterization, DNA Binding and Anticancer Activities of The Imidazolidine-Functionalized (NHC)Ru(II) Complexes**  
Gürses C., Aktaş A., Balcıoğlu S., Fadhilah A., Gök Y., Ateş B.  
JOURNAL OF MOLECULAR STRUCTURE, vol.131350, no.1247, pp.1-9, 2022 (SCI-Expanded)
- XX. **A study about excellent xanthine oxidase inhibitory effects of new pyridine salts**  
Yılmaz U., Noma S. A. A., Tok T. T., Sen B., GÖK Y., AKTAŞ A., ATEŞ B., AYGÜN M.  
MONATSHEFTE FÜR CHEMIE, vol.152, no.10, pp.1251-1260, 2021 (SCI-Expanded)
- XXI. **Benzimidazole-Functionalized PEPPSI type Pd(II)NHC Complexes Bearing Nitrophenylethyl and Hidroxyphenylethyl Group: Synthesis, Characterization, Crystal Structure and it's Catalytic Activity on Direct Arylation Reaction**  
Çağlılar T., Behçet A., Celepci D. B., Aktaş A., Gök Y., Aygün M.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1446, pp.1-12, 2021 (SCI-Expanded)
- XXII. **Silver N-heterocyclic carbene complexes bearing fluorinated benzyl group: Synthesis, characterization, crystal structure, computational studies, and inhibitory properties against some metabolic enzymes**  
Bal S., Demirci Ö., Şen B., Taşkın Tok T., Taslimi P., Aktaş A., Gök Y., Aygün M., Gülçin İ.  
Applied Organometallic Chemistry, vol.2021, no.6312, pp.1-12, 2021 (SCI-Expanded)
- XXIII. **Synthesis, characterization, crystal structure, alpha-glycosidase, and acetylcholinesterase inhibitory properties of 1,3-disubstituted benzimidazolium salts**  
BAL S., Demirci O., ŞEN B., Taslimi P., AKTAŞ A., GÖK Y., AYGÜN M., GÜLÇİN İ.  
ARCHIV DER PHARMAZIE, vol.354, no.5, 2021 (SCI-Expanded)
- XXIV. **PEPPSI type Pd(II)NHC complexes bearing chloro-/fluorobenzyl group: Synthesis, characterization, crystal structures,  $\alpha$ -glycosidase and acetylcholinesterase inhibitory properties**  
Bal S., Demirci Ö., Şen B., Taslimi P., Aktaş A., Gök Y., Aygün M., Gülçin İ.  
Polyhedron, vol.198, pp.1-10, 2021 (SCI-Expanded)
- XXV. **Novel silver(I)N-heterocyclic carbene complexes bearing 2-(4-hydroxyphenyl)ethyl group: Synthesis, characterization, and enzyme inhibition properties**  
Behcet A., AKTAŞ A., GÖK Y., Kaya R., Taslimi P., GÜLÇİN İ.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.58, no.2, pp.603-611, 2021 (SCI-Expanded)
- XXVI. **Synthesis, characterization and bioactivities of dative donor ligand N-heterocyclic carbene (NHC)**

**precursors and their Ag(I)NHC coordination compounds**

Kazancı A., GÖK Y., Kaya R., AKTAŞ A., Taslimi P., GÜLÇİN İ.  
Polyhedron, vol.193, 2021 (SCI-Expanded)

- XXVII. **Synthesis, characterization, crystal structure and bioactivity properties of the benzimidazole-functionalized PEPSI type of Pd(II)NHC complexes**  
Daşgın S., Gök Y., Celepci D. B., Taslimi P., İzmirli M., Aktaş A., Gülçin İ.  
JOURNAL OF MOLECULAR STRUCTURE, pp.1-9, 2020 (SCI-Expanded)
- XXVIII. **The (NHC)PdBr<sub>2</sub>(2-aminopyridine) complexes: synthesis, characterization, molecular docking study, and inhibitor effects on the human serum carbonic anhydrase and serum bovine xanthine oxidase**  
Turker F., Noma S. A. A., AKTAŞ A., Al-Khafaji K., Tok T. T., ATEŞ B., GÖK Y.  
MONATSHFTE FÜR CHEMIE, vol.151, no.10, pp.1557-1567, 2020 (SCI-Expanded)
- XXIX. **New Pd-PEPSI complexes bearing meta-cyanobenzyl-Substituted NHC: Synthesis, characterization, crystal structure and catalytic activity in direct C-H arylation of (Hetero)arenes with aryl bromides**  
TÜRKER F., BEREKET I., Celepci D. B., AKTAŞ A., GÖK Y.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1205, 2020 (SCI-Expanded)
- XXX. **Synthesis, crystal structures, spectral investigations, conformational analysis and DFT studies of N-heterocyclic carbene precursors**  
ERDEMİR F., Celepci D. B., AKTAŞ A., GÖK Y.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1204, 2020 (SCI-Expanded)
- XXXI. **A Novel Ag-N-Heterocyclic Carbene Complex Bearing the Hydroxyethyl Ligand: Synthesis, Characterization, Crystal and Spectral Structures and Bioactivity Properties**  
AKTAŞ A., Celepci D., GÖK Y., Taslimi P., Akincioglu H., GÜLÇİN İ.  
CRYSTALS, vol.10, no.3, 2020 (SCI-Expanded)
- XXXII. **4-Vinylbenzyl and 2-morpholinoethyl substituted ruthenium (II) complexes: Design, synthesis, and biological evaluation**  
SARı Y., GÜRSES C., Celepci D. B., Kelestemur U., AKTAŞ A., YÜKSEL Ş., ATEŞ B., GÖK Y.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1202, 2020 (SCI-Expanded)
- XXXIII. **Novel 2-methylimidazolium salts: Synthesis, characterization, molecular docking, and carbonic anhydrase and acetylcholinesterase inhibitory properties**  
Bal S., Kaya R., GÖK Y., Taslimi P., AKTAŞ A., Karaman M., GÜLÇİN İ.  
BIOORGANIC CHEMISTRY, vol.94, 2020 (SCI-Expanded)
- XXXIV. **Prediction of biological activities, structural investigation and theoretical studies of meta-cyanobenzyl substituted benzimidazolium salts**  
Celepci D. B., AKTAŞ A.  
Acta Chimica Slovenica, vol.67, no.3, pp.830-841, 2020 (SCI-Expanded)
- XXXV. **Chemistry, structure, and biological roles of Au-NHC complexes as TrxR inhibitors**  
KARAASLAN M. G., AKTAŞ A., GÜRSES C., GÖK Y., ATEŞ B.  
BIOORGANIC CHEMISTRY, vol.95, 2020 (SCI-Expanded)
- XXXVI. **New (NHC)Pd(II)(PPh<sub>3</sub>) complexes: synthesis, characterization, crystal structure and its application on Sonogashira and Mizoroki-Heck cross-coupling reactions**  
Erdemir F., AKTAŞ A., CELEPCİ D. B., GÖK Y.  
CHEMICAL PAPERS, vol.74, no.1, pp.99-112, 2020 (SCI-Expanded)
- XXXVII. **New morpholine-liganded palladium(II) N-heterocyclic carbene complexes: Synthesis, characterization, crystal structure, and DNA-binding studies**  
TÜRKER F., GÜRSES C., Celepci D. B., AKTAŞ A., ATEŞ B., GÖK Y.  
ARCHIV DER PHARMAZIE, vol.352, no.12, 2019 (SCI-Expanded)
- XXXVIII. **A New Palladium Complex Containing the Mixture of Carbene and Phosphine Ligands: Synthesis, Crystal Structure and Spectral FT-IR, NMR and UV-Vis Researches**  
AKTAŞ A.  
CHINESE JOURNAL OF STRUCTURAL CHEMISTRY, vol.38, no.10, pp.1664-1672, 2019 (SCI-Expanded)
- XXXIX. **Novel 2-aminopyridine liganded Pd(II) N-heterocyclic carbene complexes: Synthesis,**

**characterization, crystal structure and bioactivity properties**

Erdemir P., Celepci D. B., AKTAŞ A., GÖK Y., Kaya R., Taslimi P., Demir Y., GÜLÇİN İ.  
BIOORGANIC CHEMISTRY, vol.91, 2019 (SCI-Expanded)

- XL. **Synthesis, crystal structures, spectral FT-IR, NMR and UV-Vis investigations and Hirshfeld surface analysis of two new 2-hydroxyethyl-substituted N-heterocyclic carbene precursors**  
AKTAŞ A., CELEPCİ D. B., GÖK Y.  
JOURNAL OF THE CHINESE CHEMICAL SOCIETY, vol.66, no.10, pp.1389-1396, 2019 (SCI-Expanded)
- XLII. **Yeni Morfolinoetil-Süstitüeyeli (NHC)PdBr<sub>2</sub>(3-Kloropiridin) Kompleksleri: Sentez, Karakterizasyon ve Suzuki-Miyaura Reaksiyonundaki Katalitik Aktivite**  
AKTAŞ A.  
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.23, no.2, pp.374-380, 2019 (SCI-Expanded)
- XLII. **Novel 2-hydroxyethyl substituted N-coordinate-Pd(II)(NHC) and bis(NHC)Pd(II) complexes: Synthesis, characterization and the catalytic activity in the direct arylation reaction**  
AKTAŞ A., Celepci D. B., Goek Y.  
JOURNAL OF CHEMICAL SCIENCES, vol.131, no.8, 2019 (SCI-Expanded)
- XLIII. **2-hydroxyethyl-substituted (NHC)PdI<sub>2</sub>(pyridine) (Pd-PEPPSI) Complexes: Synthesis, Characterization and the Catalytic Activity in the Sonogashira Cross-coupling Reaction**  
Erdemir F., CELEPCİ D. B., AKTAŞ A., GÖK Y.  
CHEMISTRYSELECT, vol.4, no.19, pp.5585-5590, 2019 (SCI-Expanded)
- XLIV. **New 2-hydroxyethyl substituted N-Heterocyclic carbene precursors: Synthesis, characterization, crystal structure and inhibitory properties against carbonic anhydrase and xanthine oxidase**  
AKTAŞ A., Noma S. A. A., CELEPCİ D. B., Erdemir F., GÖK Y., ATEŞ B.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1184, pp.487-494, 2019 (SCI-Expanded)
- XLV. **Mixed phosphine/N-heterocyclic carbene-palladium complexes: synthesis, characterization, crystal structure and application in the Sonogashira reaction in aqueous media**  
AKTAŞ A., Erdemir F., CELEPCİ D. B., GÖK Y., AYGÜN M.  
TRANSITION METAL CHEMISTRY, vol.44, no.3, pp.229-236, 2019 (SCI-Expanded)
- XLVI. **Novel morpholine liganded Pd-based N-heterocyclic carbene complexes: Synthesis, characterization, crystal structure, antidiabetic and anticholinergic properties**  
AKTAŞ A., CELEPCİ D. B., Kaya R., Taslimi P., GÖK Y., AYGÜN M., GÜLÇİN İ.  
POLYHEDRON, vol.159, pp.345-354, 2019 (SCI-Expanded)
- XLVII. **2-methyl-1,4-benzodioxan-substituted bis(NHC)PdX<sub>2</sub> complexes: Synthesis, characterization and the catalytic activity in the direct arylation reaction of some 2-alkyl-heterocyclic compounds**  
GÖK Y., AKTAŞ A., Sari Y., Erdogan H.  
JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.16, no.2, pp.423-433, 2019 (SCI-Expanded)
- XLVIII. **2-Hydroxyethyl-Substituted (NHC)Pd(II)PPh<sub>3</sub> Complexes: Synthesis, Characterization, Crystal Structure and Its Application on Sonogashira Cross-Coupling Reactions in Aqueous Media**  
AKTAŞ A., CELEPCİ D. B., GÖK Y., AYGÜN M.  
CHEMISTRYSELECT, vol.3, no.39, pp.10932-10937, 2018 (SCI-Expanded)
- XLIX. **Synthesis, characterization and crystal structure of 2-(4-hydroxyphenyl)ethyl and 2-(4-nitrophenyl)ethyl Substituted Benzimidazole Bromide Salts: Their inhibitory properties against carbonic anhydrase and acetylcholinesterase**  
Behcet A., Caglılar T., CELEPCİ D. B., AKTAŞ A., Taslimi P., GÖK Y., AYGÜN M., Kaya R., GÜLÇİN İ.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1170, pp.160-169, 2018 (SCI-Expanded)
- L. **2-Hydroxyethyl-Substituted Pd-PEPPSI Complexes: Synthesis, Characterization and the Catalytic Activity in the Suzuki-Miyaura Reaction for Aryl Chlorides in Aqueous Media**  
AKTAŞ A., CELEPCİ D. B., GÖK Y., AYGÜN M.  
CHEMISTRYSELECT, vol.3, no.35, pp.9974-9980, 2018 (SCI-Expanded)
- LI. **Four 2-Hydroxyethyl substituted NHC iodide complexes: structural characterization and theoretical comparisons**  
Celepci D. B., AKTAŞ A., GÖK Y., Aygun M.

ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.74, 2018 (SCI-Expanded)

- LII. **Novel Benzylic Substituted Imidazolinium, Tetrahydropyrimidinium and Tetrahydrodiazepinium Salts: Potent Carbonic Anhydrase and Acetylcholinesterase Inhibitors**  
YİĞİT B., YİĞİT M., CELEPCİ D. B., GÖK Y., AKTAŞ A., AYGÜN M., Taslimi P., GÜLÇİN İ.  
CHEMISTRYSELECT, vol.3, no.27, pp.7976-7982, 2018 (SCI-Expanded)
- LIII. **meta-Cyanobenzyl substituted benzimidazolium salts: Synthesis, characterization, crystal structure and carbonic anhydrase, -glycosidase, butyrylcholinesterase, and acetylcholinesterase inhibitory properties**  
TÜRKER F., Celepci D. B., AKTAŞ A., Taslimi P., GÖK Y., Aygun M., GÜLÇİN İ.  
ARCHIV DER PHARMAZIE, vol.351, no.7, 2018 (SCI-Expanded)
- LIV. **2-Hydroxyethyl substituted NHC precursors: Synthesis, characterization, crystal structure and carbonic anhydrase, alpha-glycosidase, butyrylcholinesterase, and acetylcholinesterase inhibitory properties**  
Erdemir F., CELEPCİ D. B., AKTAŞ A., Taslimi P., GÖK Y., KARABIYIK H., GÜLÇİN İ.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1155, pp.797-806, 2018 (SCI-Expanded)
- LV. **New 4-vinylbenzyl-substituted bis(NHC)-Pd(II) complexes: Synthesis, characterization and the catalytic activity in the direct arylation reaction**  
GÖK Y., AKTAŞ A., Erdogan H., Sari Y.  
INORGANICA CHIMICA ACTA, vol.471, pp.735-740, 2018 (SCI-Expanded)
- LVI. **N-Propylphthalimide-substituted bis-(NHC)PdX<sub>2</sub> complexes: synthesis, characterization and catalytic activity in direct arylation reactions**  
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Yavuz K., Aktaş A., Gök Y.



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Yılmaz Ü., Gök Y., Aktaş A.  
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Tezcan B., Hamide M., Gök Y., Güzel B., Aktaş A.  
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- XI. **Preparation of new thiazole salts with alkyl groups bearing aromatic moiety**  
Yılmaz Ü., Aktaş A., Gök Y.  
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- XII. **The benzimidazolium salts bearing 4-(Methylsulfonyl)Benzyl group: Synthesis, characterization, acetylcholinesterase inhibitory properties**  
Kazancı A., Noma S. A. A., Güzel A., Gök Y., Ateş B., Aktaş A.  
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Kuruçay A., Aktaş A., Noma S. A. A., Gök Y., Ateş B.  
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- XV. **Imidazolium salts containing phenolic group: Synthesis and characterization**  
Hamide M., Tezcan B., Gök Y., Güzel B., Aktaş A.

5th International Organic Chemistry Congress,, Malatya, Turkey, 14 - 17 October 2021, pp.41

- XVI. **New benzimidazolium salts bearing 4-(Methylsulfonyl)benzyl group: Synthesis, characterization and inhibitory properties against xanthine oxidase**  
Aktaş A., Güzel A., Noma S. A. A., Kazancı A., Kolaç T., Ateş B., Gök Y.  
5th International Organic Chemistry Congress, Malatya, Turkey, 14 - 17 October 2021, pp.49
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Hamide M., Tezcan B., Şen Yüksel B., Demir Y., Gök Y., Aktaş A., Gülçin İ., Aygün M., Güzel B.  
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Zengin R., Gök Y., Aktaş A.  
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- XIX. **N-Propylphthalimide Substituted Bis-(NHC)PdX<sub>2</sub> Complexes: Synthesis, Characterization and its the Catalytic Activity in Direct Arylation Reactions**  
Erdoğan H., Aktaş A., Gök Y., Sarı Y.  
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- XX. **Novel Benzimidazolium Salts Bearing Phenylsulfonyl Group: Synthesis and Characterization**  
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Demirci Ö., Gök Y., Aktaş A.  
3st International Conference on Physical Chemistry & Functional Materials (PCFM20), Malatya, Turkey, 22 - 24 September 2020, pp.3
- XXII. **Synthesis and Characterization of the Ag(I)NHC Complexes Bearing N-Methylphthalimide**  
Kazancı A., Gök Y., Aktaş A.  
3st International Conference on Physical Chemistry & Functional Materials (PCFM20), Malatya, Turkey, 22 - 24 September 2020, pp.9
- XXIII. **New 2-(benzyloxy)-3-methoxybenzyl Substituted NHC Salt and Their Bis-NHCPd(II) Complex: Synthesis, Characterization and it's Catalytic Activity in Direct Arylation Reaction**  
Aktaş A.  
3st International Conference on Physical Chemistry & Functional Materials (PCFM20), Malatya, Turkey, 22 - 24 September 2020, pp.19
- XXIV. **Synthesis and Characterization of Fluorinated Benzimidazolium Precursors**  
Demirci Ö., Aktaş A., Gök Y.  
3st International Conference on Physical Chemistry & Functional Materials (PCFM20), Malatya, Turkey, 22 - 24 September 2020, pp.5
- XXV. **Synthesis and Characterization of 2-Chloro-4-Fluorobenzyl-Substituted Ag(I)NHC Complexes**  
Bal S., Aktaş A., Gök Y.  
3st International Conference on Physical Chemistry & Functional Materials (PCFM20), Malatya, Turkey, 22 - 24 September 2020, pp.77
- XXVI. **Synthesis, Characterization and its the Catalytic Activity in Direct Arylation Reaction of New 2-Morpholinoethyl-Substituted Bis-(NHC)Pd(II) Complexes**  
Sarı Y., Aktaş A., Gök Y.  
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Bal S., Gök Y., Aktaş A.  
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- XXVIII. **Synthesis and Characterization of the p-Fluorobenzyl Substituted Ru(II)NHC Complexes**  
Demirci Ö., Aktaş A., Gök Y.  
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- XXIX. **Synthesis and Characterization of N-Methylphthalimide Substituted Benzimidazolium Salts**  
Kazancı A., Aktaş A., Gök Y.  
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- XXX. **4-vinilbenzil Sübstitüentli bis-(NHC)Pd(II) Komplekslerinin Sentezi, Karakterizasyonu ve Doğrudan Arilasyon Tepkimelerindeki Katalitik Etkinlikleri**  
Gök Y., Aktaş A., Erdoğan H., Sarı Y.  
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- XXXI. **Naftil Sübstitüentli İmidazolinyum Tuzu ve bis-(NHC)Pd(II) Kompleksinin Sentezi, Karakterizasyonu Ve Suzuki-Miyaura Çapraz Bağlanma Tepkimesindeki Katalitik Aktiviteleri**  
Aktaş A.  
32. Ulusal Kimya Kongresi, Ankara, Turkey, 17 - 19 September 2020, pp.26
- XXXII. **Morpholinoethyl-Substituted PEPSI Complexes: Synthesis, Characterization and the Catalytic Activity in the Suzuki-Miyaura Reaction in Aqueous Media**  
AKTAŞ A.  
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- XXXIII. **Synthesis Characterization And Crystal Structure of 2-(4-Hydroxyphenyl)Ethyl Substituted Benzimidazolium Bromide Salts: Their Inhibitory Properties Against Carbonic Anhydrase and Acetylcholinesterase**  
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- XXXIV. **Synthesis, Crystal Structures, Spectral FT-IR, NMR and Uv-Vis Studies of N-Heterocyclic Carbene-PdBr<sub>2</sub>(PPh<sub>3</sub>) Complex**  
AKTAŞ A.  
1st International Conference on Physical Chemistry and Functional Materials (PCFM18), Elazığ, Turkey, 19 - 21 June 2018, pp.155
- XXXV. **Novel 4-Vinylbenzyl-substituted Benzimidazole Salts: Synthesis, Characterization, and Determination of Inhibition Profiles Against Acetylcholinesterase and Carbonic Anhydrase Enzymes**  
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1st International Conference on Physical Chemistry and Functional Materials (PCFM18), Elazığ, Turkey, 19 - 21 June 2018, pp.173
- XXXVI. **Synthesis Characterization and Crystal Structure of 2-(4-Nitrophenyl)Ethyl Substituted Benzimidazolium Bromide Salts: Their Inhibitory Properties Against Carbonic Anhydrase and Acetylcholinesterase**  
ÇAĞLILAR T., BARUT CELEPCI D., AKTAŞ A., TASLIMI P., GÖK Y., AYGÜN M., KAYA R., GÜLÇİN İ.  
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- XXXVII. **Novel N-propylphthalimide-substituted Benzimidazole Salts: Synthesis, Characterization, and Determination of Inhibition Profiles Against Acetylcholinesterase and Carbonic Anhydrase Enzymes**  
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- XXXVIII. **Meta-cyanobenzyl Substituted Benzimidazolium Salts: Synthesis, Characterization, Crystal structure and carbonic anhydrase,  $\alpha$ -glycosidase, butyrylcholinesterase, Acetylcholinesterase Inhibitory Properties**  
TÜRKER F., BARUT CELEPCİ D., AKTAŞ A., TASLIMI P., GÖK Y., GÜLÇİN İ., AYGÜN M.

1st International Conference on Physical Chemistry and Functional Materials (PCFM18), Elazığ, Turkey, 19 - 21 June 2018, pp.206

- XXXIX. **Synthesis, Crystal Structures, Spectral FT-IR, NMR and UV-Vis Investigations and Theoretical Studies of N-phenyl-2-imino-5-methylthiophene and N-(4-chlorophenyl)-2-imino-5-methylthiophene**  
BARUT CELEPCI D., AKTAŞ A., YAKALI G., GÖK Y.  
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- XL. **Four 2-Hydroxyethyl substituted NHC iodide complexes: structural characterization and theoretical comparisons**  
BARUT CELEPCI D., AKTAŞ A., GÖK Y., AYĞÜN M.  
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- XLI. **Synthesis, Characterization and Antimicrobial Studies of Naphthyl Substituted Imidazolidinium Salts and Their Silver(I)-N-Heterocyclic Carbene Complexes**  
Yıldırım I., Aktaş A., Kırbağ S., KUTLU T., GÖK Y.  
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- XLIII. **Novel 4-vinylbenzyl Substituted NHC Precursors(Imidazolidinium): Synthesis, Characterization, and Carbonic Anhydrase and Acetylcholinesterase Inhibitory Properties**  
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AKTAŞ A., TASLIMI P., GÜLÇİN İ., GÖK Y.  
2nd International Conference on Advances in Natural and Applied Sciences. (ICANAS2017), Antalya, Turkey, 18 - 21 April 2017, pp.511
- XLV. **Synthesis, Characterization and Antimicrobial Activity of Imidazolium-based Novel Ag(I)-NHC Complexes**  
AKTAŞ A., GÖK Y., YILDIRIM I., KUTLU T.  
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AKTAŞ A., GÖK Y., YILDIRIM I., KIRBAĞ S., KUTLU T.  
III. Ulusal Organik Kimya Kongresi (ORGKON 2016), Trabzon, Turkey, 5 - 08 September 2016, pp.5
- XLVIII. **4-Vinil Benzil ve N-Propil Fitalimid Sübstitüentli Ag(I)-N-Heterosiklik Karben Komplekslerinin Sentezi, Karakterizasyonu ve Antimikrobiyal Etkilerinin Araştırılması**  
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- XLIX. **Anticancer effect of some silver(I)-N-Heterocyclic carbene complexes on different cancer cell lines**  
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YILDIRIM I., AKTAŞ A., KUTLU T., GÖK Y.  
IV. Biyomühendislik Öğrenci Kongresi, Elazığ, Turkey, 7 - 08 April 2016, pp.4
- L.III. **Investigation of Anticancer Properties of N-Heterocyclic Carbene Complexes on HepG2**  
KELEŞTEMUR Ü., AKTAŞ A., ATEŞ B., GÖK Y.  
44 th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.3
- L.IV. **Rutenyum-N-Heterosiklik Karben Komplekslerinin Sentezi, Karakterizasyonu ve Hidrojen Transferi Reaksiyonlarındaki Katalitik Uygulamaları**  
AKKOÇ S., GÖK Y., AKTAŞ A.  
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- L.V. **Synthesis And Catalytic Activity Of Nhc-Ru Complexes**  
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AKTAŞ A., YAVUZ K., İÇEN TAŞKIN I., SEVER M. R., YILMAZ Ü., PAŞAHAN A., GÖK Y., GÜZEL A., KOLAÇ T., GÜRSES C., et al., Project Supported by Higher Education Institutions, Tiyol Grubu İçeren BenzimidazolFonksiyonlu N-heterosiklik Karben (NHC) Öncülleri ile Gümüş ve Rutenyum Metal Komplekslerinin Sentezi Karakterizasyonu ve Biyolojik Aktivitelerinin İncelenmesi, 2020 - 2024

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Floresans Spektrofotometresi Kullanarak Yeni Sentezlenen Organometalik Bileşiklerinin Ayrıntılı DNA Etkileşim Modellerinin Araştırılması 2018., 2018 - 2020

Aktaş A., Ateş B., Gök Y., Gürses C., Bereket İ., Ali Numa S. A., Türker F., Balcıoğlu S., Taşkın T., Project Supported by Higher Education Institutions, İlaç Etken Maddesi Olarak N-Heterosiklik Karben (NHC-M, M:Ag, Ru, Pd) Komplekslerinin Sentezi: Antikanser, Enzim İnhibisyonu, DNA Bağlanma Özellikleri ve Moleküler Modelleme, 2018 - 2020

Kutlu T., Gök Y., Yıldırım I., Aktaş A., Project Supported by Higher Education Institutions, Yeni Bir Seri Benzimidazol esaslı Ag(I)-N-Heterosiklik Karben (NHC) Komplekslerinin Akciğer Kanseri (A549) ve Akciğer normal (CCD -19Lu) Hücre Hatları Üzerinde Sitotoksik Aktivitesinin ve Apoptotik Mekanizmasının Araştırılması 2016., 2016 - 2017

Gök Y., Aktaş A., Project Supported by Higher Education Institutions, 1,3-dialkilimidazolin-2-iliden gümüş ve rutenyum komplekslerinin sentezi ve özellikleri, 2011 - 2012

## Activities in Scientific Journals

İnönü üniversitesi Sağlık Hizmetleri Meslek Yüksek Okulu Dergisi, Committee Member, 2020 - Continues

## Scientific Refereeing

BIOORGANIC CHEMISTRY, SCI Journal, September 2024

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, SCI Journal, September 2024

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, September 2024

INORGANIC CHEMISTRY COMMUNICATION, SCI Journal, September 2024

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, September 2024

INORGANICA CHIMICA ACTA, SCI Journal, August 2024

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CHEMISTRYSELECT, National Scientific Refreed Journal, July 2024

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JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, May 2024

INORGANICA CHIMICA ACTA, SCI Journal, April 2024

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JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, March 2024

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, February 2024

JOURNAL OF MOLECULAR RECOGNITION, SCI Journal, February 2024

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, February 2024

JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, SCI Journal, January 2024

EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY REPORTS, SCI Journal, January 2024

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, December 2023

CHEMISTRYSELECT, SCI Journal, November 2023

FLAVOUR AND FRAGRANCE JOURNAL, SCI Journal, October 2023

NEW JOURNAL OF CHEMISTRY, SCI Journal, September 2023

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, September 2023

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JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, July 2023

BIOORGANIC CHEMISTRY, SCI Journal, July 2023

JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, SCI Journal, June 2023  
Bartın University International Journal of Natural and Applied Sciences, Other Indexed Journal, April 2023  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, SCI Journal, April 2023  
BIOORGANIC CHEMISTRY, SCI Journal, March 2023  
JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, SCI Journal, March 2023  
MATERIALS TODAY : PROCEEDINGS, SCI Journal, February 2023  
FUTURE MEDICINAL CHEMISTRY, SCI Journal, February 2023  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, SCI Journal, February 2023  
POLYHEDRON, SCI Journal, January 2023  
BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, SCI Journal, January 2023  
INORGANICA CHIMICA ACTA, SCI Journal, December 2022  
JOURNAL OF OLEO SCIENCE, SCI Journal, December 2022  
BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, SCI Journal, November 2022  
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, November 2022  
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CHIRALITY, SCI Journal, November 2022  
CHEMISTRY AND BIODIVERSITY, SCI Journal, September 2022  
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, September 2022  
AFRICAN HEALTH SCIENCES , Other Indexed Journal, August 2022  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, Journal Indexed in SCI-E, August 2022  
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, July 2022  
POLYHEDRON, Journal Indexed in SCI-E, June 2022  
ASIAN JOURNAL OF ORGANIC CHEMISTRY, Journal Indexed in SCI-E, May 2022  
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DRUG AND CHEMICAL TOXICOLOGY, Journal Indexed in SCI-E, February 2022  
POLYHEDRON, Journal Indexed in SCI-E, February 2022  
HEALTHCARE ANALYTICS, Journal Indexed in ESCI, January 2022  
Asian Journal of Organic Chemistry, Journal Indexed in SCI-E, January 2022  
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Journal Of Biochemical And Molecular Toxicology, Journal Indexed in SCI-E, December 2021  
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Materials Today, Journal Indexed in SCI-E, September 2021  
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Medicinal Chemistry, Journal Indexed in SCI-E, July 2021  
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Medicinal Chemistry, Journal Indexed in SCI-E, June 2021

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Journal Of Biochemical And Molecular Toxicology, Journal Indexed in SCI-E, April 2021  
Chemical Record, Journal Indexed in SCI-E, April 2021  
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Bioorganic Chemistry, Journal Indexed in SCI-E, March 2021  
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Catalysis Letters, Journal Indexed in SCI-E, January 2021  
Medicinal Chemistry, Journal Indexed in SCI-E, November 2020  
Medicinal Chemistry, Journal Indexed in SCI-E, September 2020  
Journal Of Biomolecular Structure & Dynamics, Journal Indexed in SCI-E, August 2020  
NEW JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, July 2020  
Catalysis Letters, Journal Indexed in SCI-E, June 2020  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, Journal Indexed in SCI-E, June 2020  
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JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, April 2020  
Applied Organometallic Chemistry, Journal Indexed in SCI-E, April 2020  
Bioorganic Chemistry, Journal Indexed in SCI-E, April 2020  
Medicinal Chemistry, Journal Indexed in SCI-E, March 2020  
APPLIED ORGANOMETALLIC CHEMISTRY, SCI Journal, February 2020  
Applied Organometallic Chemistry, Journal Indexed in SCI-E, February 2020  
NEW JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, January 2020  
Chemistry-An Asian Journal, Journal Indexed in SCI-E, January 2020  
CHEMISTRYSELECT, Journal Indexed in SCI-E, December 2019  
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Archiv Der Pharmazie, Journal Indexed in SCI-E, October 2019  
ACS OMEGA, Journal Indexed in SCI-E, October 2019  
Applied Organometallic Chemistry, Journal Indexed in SCI-E, October 2019  
CHEMISTRYSELECT, Journal Indexed in SCI-E, September 2019  
Chemistry-An Asian Journal, Journal Indexed in SCI-E, September 2019  
Applied Organometallic Chemistry, Journal Indexed in SCI-E, September 2019  
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, August 2019  
CHEMISTRYSELECT, Journal Indexed in SCI-E, July 2019  
International Journal Of Food Properties, Journal Indexed in SCI-E, June 2019  
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, May 2019  
Journal Of Thermal Analysis And Calorimetry, Journal Indexed in SCI-E, May 2019  
NEW JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, January 2019  
Archiv Der Pharmazie, Journal Indexed in SCI-E, July 2018  
Synthetic Communications, Journal Indexed in SCI-E, May 2018  
Applied Organometallic Chemistry, Journal Indexed in SCI-E, April 2018  
Catalysis Science & Technology, Journal Indexed in SCI-E, November 2017  
New Journal Of Chemistry, Journal Indexed in SCI-E, October 2016  
Synthetic Communications, Journal Indexed in SCI-E, August 2016



## Metrics

Publication: 128

Citation (WoS): 1449

Citation (Scopus): 1455

H-Index (WoS): 22

H-Index (Scopus): 22

## Congress and Symposium Activities

2. KAHRAMANMARAŞ BİYOKİMYA GÜNLERİ, Invited Speaker, Kahramanmaraş, Turkey, 2022

EURASIANBIOCHEM 2022, Attendee, Ankara, Turkey, 2022

1st International Conference on Innovative Academic Studies. , Attendee, Konya, Turkey, 2022

5th International Science Symposium "New Horizons in Science" , Attendee, Sarajevo, Bosnia And Herzegovina, 2022

5. International Organic Chemistry Congress, Attendee, Malatya, Turkey, 2021

3st International Conference on Physical Chemistry & Functional Materials (PCFM20), Attendee, Malatya, Turkey, 2020

32. Ulusal Kimya Kongresi, Attendee, Ankara, Turkey, 2020

2023 EĞİTİM VİZYONU MALATYA ÇALIŞTAYI , Moderator, Malatya, Turkey, 2019

7 th NATIONAL CATALYSIS CONGRESS (NCC7), Attendee, Denizli, Turkey, 2018

1st International Conference on Physical Chemistry and Functional Materials (PCFM18), Attendee, Elazığ, Turkey, 2018

III. Ulusal Organik Kimya Kongresi (ORGKON 2016), Attendee, Trabzon, Turkey, 2016

8. ULUSAL KATALİZ YAZ OKULU 3. ANADOLU KATALİZ OKULU , Attendee, Malatya, Turkey, 2013

## Non Academic Experience

TUBİTAK, TÜBİTAK, TÜBİTAK

TUBİTAK, TÜBİTAK, TÜBİTAK

Other Public Institution, Milli Eğitim Bakanlığı

MİLLİ EĞİTİM BAKANLIĞI