Assoc. Prof. HÜLYA AVCI ÖZBEK

Personal Information

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International Researcher IDs
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ScopusID: 35238258800
Yoksis Researcher ID: 184379

Education

Doctorate, Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, Turkey 2013 - 2021
Postgraduate, Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, Turkey 2010 - 2013
Undergraduate, Anadolu University, İktisat Fakültesi, İktisat Bölümü, Turkey 2006 - 2012
Undergraduate, Karadeniz Technical University, Fatih Eğitim Fakültesi, Turkey 2004 - 2009

Foreign Languages

English

Dissertations

Doctorate, [Cp*2M5VO17]- (M=Mo, W; Cp*=C5Me5) yapıdaki polioksometalatların sentezi, karakterizasyonu, katalitik ve antimikrobiyal özelliklerinin incelenmesi, Manisa Celal Bayar University, 2021
Postgraduate, N,N'xx-bis(ferrosenilmetil)imidazolinyum tuzlarının sentezi, karakterizasyonu,elektrokimyasal ve antimikrobiyal özelliklerinin incelenmesi, 2013

Research Areas

Avesis Research Areas: Natural Sciences
WoS Research Areas: Natural Sciences (Sci)
Scopus Research Areas: Inorganic Chemistry

Academic Positions

Associate Professor, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Kimya, 2025 - Present
Assistant Professor, Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, KİMYA, 2024 - Present
Research Assistant, Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, KİMYA, 2010 - 2024

Academic and Administrative Experience

Member of Department Quality Commission, Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, KİMYA, 2022 - Present

Courses

Postgraduate

KIM 5262 Biyoanorganik Kimya, Postgraduate, 2025 - 2026

Undergraduate

KIM 4107 Bitirme Projesi II, Undergraduate, 2026 - 2027, 2024 - 2025

KIM 3275 Metaller Kimyası, Undergraduate, 2026 - 2027, 2024 - 2025

KIM 2123 Anorganik Kimya I Laboratuvarı, Undergraduate, 2026 - 2027, 2024 - 2025

KIM 3116 Bitirme Projesi I, Undergraduate, 2025 - 2026, 2023 - 2024

KIM 1110 Temel Bilgisayar Bilimleri, Undergraduate, 2025 - 2026, 2023 - 2024

KIM 1116 Sosyal Sorumluluk, Undergraduate, 2025 - 2026, 2023 - 2024

PFE 1009 Öğretmenlik Uygulaması, Undergraduate, 2024 - 2025

KIM 1301 Kimya, Undergraduate, 2023 - 2024

KIM 2255 Kimya Tarihi, Undergraduate, 2022 - 2023

Articles

I. **Synthesis and Structural Characterization of a Novel Thiamine-Molybdovanadate Organic-Inorganic Hybrid Polyoxometalate**
AVCI ÖZBEK H.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.26, no.5, pp.1034-1040, 2026 (TRDizin)

II. **Multifunctional Cu-phen/bpy modified molybdovanadate-based polyoxometalates for catalytic hydrogen generation and antibacterial applications**
Torlak Y., Halvaci E., Guzel Z., Ozbek H., Sen F.
SCIENTIFIC REPORTS, vol.16, no.1, 2026 (SCI-Expanded, Scopus)

III. **Anderson Type Polyoxometalates Containing Vitamin B1**
Özbek H. A.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.21, no.2, pp.95-99, 2025 (TRDizin)

IV. **Synthesis, characterization, and antibacterial properties of novel N-heterocyclic carbene (NHC) precursors and their silver complexes**
DEMİR ATLI D., AVCI ÖZBEK H., Aksu D.
Monatshefte fur Chemie, vol.156, no.6, pp.631-636, 2025 (SCI-Expanded, Scopus)

V. **Molybdenum–Vanadium Oxide Clusters: Syntheses, Structures and Antibacterial Properties**
AVCI ÖZBEK H.
Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, no.1, pp.356-362, 2024 (TRDizin)

VI. **V-subtituted lindqvist-type polyoxometalates: preparation, structural characterization and antibacterial activity**
AVCI ÖZBEK H.
Chemical Papers, vol.77, no.10, pp.5663-5669, 2023 (SCI-Expanded, Scopus)

VII. **Synthesis and characterization of Anderson-Evans type polyoxometalates, antibacterial properties**
AVCI ÖZBEK H.
Turkish Journal of Chemistry, vol.47, no.4, pp.742-748, 2023 (SCI-Expanded, Scopus, TRDizin)

VIII. **Epoxidation of Cis-cyclooctene with Hydrogen Peroxide Catalyzed by Lindqvist Type Polyoxometalates**

AVCI ÖZBEK H., DEMİRHAN F.
ChemistrySelect, vol.8, no.25, 2023 (SCI-Expanded, Scopus)

IX. **Palladium/1,3-bis(ferrocenylmethy)imidazolinium chloride catalyst for Suzuki cross-coupling reactions**
Günaltay M., AVCI ÖZBEK H., DEMİRHAN F.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.19, no.3, pp.211-218, 2023 (TRDizin)

X. **Synthesis and Characterization of New Anderson-Type Polyoxometalates: [M((1,10phen)(OH)x]3[Cr(OH)6Mo6O18]•16H2O (M=Cr, Mn, Co, Ni, Cu; x=1,2)**
Özbek Avci H.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.10, no.2, pp.315-324, 2023 (Scopus, TRDizin)

XI. **Heck coupling reactions of aryl halides catalyzed by saturated ferrocenylmethylimidazolinium salts/palladium**
Musaoğlu D., AVCI ÖZBEK H., DEMİRHAN F.
Journal of the Iranian Chemical Society, vol.20, no.3, pp.637-643, 2023 (SCI-Expanded, Scopus)

XII. **ANTIMICROBIAL AND SOD-LIKE ACTIVITIES OF N,N′-BIS(FERROCENYLMETHYLENE)ETHYLENEDIAMINE SCHIFF BASE AND IT'S METAL COMPLEXES**
Avcı Özbek H.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.66, no.3, pp.5237-5241, 2021 (SCI-Expanded, Scopus)

XIII. **Synthesis, structure, and antimicrobial properties of mixed-metal organometallic polyoxometalates [Cp*2M5VO17]− (M = Mo, W)**
AVCI ÖZBEK H., Erden Kopar E., DEMİRHAN F.
Journal of Coordination Chemistry, vol.74, no.11, pp.1794-1809, 2021 (SCI-Expanded, Scopus)

XIV. **Synthesis, structure, and electrochemical properties of N,N'-bis(ferrocenylmethylene)ethylenediamine Schiff base and its metal complexes**
Akcan Kardaş T., AVCI ÖZBEK H., AKGÜL Y., DEMİRHAN F.
Inorganic and Nano-Metal Chemistry, vol.47, no.10, pp.1475-1479, 2017 (SCI-Expanded, Scopus)

XV. **Synthesis, structure, electrochemical and antimicrobial properties of N,N′-bis(ferrocenylmethyl)imidazolinium salts**
Özbek H., Aktaş P., Daran J., Oskay M., Demirhan F., Çetinkaya B.
Inorganica Chimica Acta, vol.423, no.PA, pp.435-442, 2014 (SCI-Expanded, Scopus)

Books

I. **Synthesis and Characterization of Vitamin B1-Linked Waugh-Type Clusters**
AVCI ÖZBEK H.
in: Synthesis Methods and Applications of Modern Chemistry, ESER FERDA, Editor, Bigde Yayınları, Ankara, pp.24-36, 2024

II. **Synthesis and Characterization of Waugh Type [MnMo9O32]6- Cluster with the [M(en)3]n+ Cation (M=Cr, Mn, Co, Ni)**
AVCI ÖZBEK H.
in: Pioneer and Contemporary Studies in Natural Science and Mathematics, Özdemir Canan, Özdemir Ali, Editor, Duvar Yayınevi, İzmir, pp.115-127, 2023

III. **Palladium(II) Schiff Base Chelates: Synthesis, Characterization and Antibacterial Studies**
AVCI ÖZBEK H., DEMİR ATLI D.
in: International Research in Science and Mathematics, Özbaş Gerçeker Filiz, Akgül Hasan, Baba Hayri, Editor, Serüven Yayınevi, İzmir, pp.69-81, 2022

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Synthesis and Characterization of New Polyoxometalate Compounds Based On [VW5O19]3-**
AVCI ÖZBEK H.
2nd International Toros Scientific Research and Innovation Congress, Mersin, Turkey, 19 May 2026, (Summary Text)

II. **N,N'-Bis(Ferrosenilmetilen)-p-Fenilendiamin Ligantının Cu(II), Sn(II), Sn(IV), Pd(II) Komplekslerinin Sentezi, Karakterizasyonu ve Tekstil Liflerinde Renklendirme Çalışmaları**
ÖMÜR A., AVCI ÖZBEK H., MAVİLİ K., DEMİRHAN F.
35th National Chemistry Congress, Diyarbakır, Turkey, 9 - 12 September 2024, (Summary Text)

III. **Synthesis and Characterization of Heterohexanuclear Vanadotungstate Polyanions**
AVCI ÖZBEK H.
ICSAS 2ND International Conference on Applied Sciences, Erzurum, Turkey, 19 April - 21 May 2024, (Summary Text)

IV. **New Chromium Containing Polyoxometalates with Lindqvist Structure**
AVCI ÖZBEK H.
EU 4th International Conference on Health, Engineering and Applied Sciences, Paris, France, 12 - 14 April 2024, (Summary Text)

V. **Schiff Baz İçeren Molibden(IV) Komplekslerinin Sentezi, Karakterizasyonu ve Antibakteriyal Özelliklerinin Belirlenmesi**
AVCI ÖZBEK H., DEMİR ATLI D.
Balkan yth International Conference on Applied Sciences, 03 February 2023, (Summary Text)

VI. **Synthesis and Characterization of New Decavanadates**
AVCI ÖZBEK H.
Anadolu 11 th International Conference on Applied Science, Diyarbakır, Turkey, 29 - 30 December 2022, (Summary Text)

VII. **Lindqvist Yapıda Polioksometalatların Sentez ve Karakterizasyonu**
AVCI ÖZBEK H.
15th International Scientific Research Congress (Science and Engineering), Ankara, Turkey, 17 - 18 December 2022, (Summary Text)

VIII. **Synthesis of a New Schiff Base and Its Use in Palladium-Catalyzed Suzuki-Miyaura Cross Coupling Reactions**
DEMİR ATLI D., AVCI ÖZBEK H.
Ankara International Congress on Scientific Research-VII, Ankara, Turkey, 2 - 04 December 2022, (Summary Text)

IX. **Catalytic Activities of Palladium / Diferrocenylmethylimidazolinium Salts in Mizoroki-Heck Coupling Reactions**
Musaoğlu D., AVCI ÖZBEK H., DEMİRHAN F.
7th National Catalysis Congress, Denizli, Turkey, 9 - 12 September 2018, (Summary Text)

X. **Catalytic Activities of Palladium / Diferrocenylmethylimidazolinium Salts in Suzuki-Miyaura Coupling Reactions**
Günaltay M., AVCI ÖZBEK H., DEMİRHAN F.
7th National Catalysis Congress, Denizli, Turkey, 9 - 12 September 2018, (Summary Text)

XI. **Ferrosen Grubu İçeren İmidazolinyum Tuzunun Sentezi ve Karakterizasyonu**
AVCI ÖZBEK H., DEMİRHAN F., Çetinkaya B.
26. Uluslararası Katılımlı Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012, (Summary Text)

Funded Projects

DEMİR ATLI D., AVCI ÖZBEK H., Project Supported by Higher Education Institutions, Karbenlerden Türeyen Kalkojenoüre Bileşiklerinin Sentezi ve Uygulamaları, 2024 - Present

AVCI ÖZBEK H., Project Supported by Higher Education Institutions, BAP Other, İsatin ve 4-Aminoantipirin İçeren Schiff Baz Metal Komplekslerinin Sentezi, Karakterizasyonu ve Antibakteriyel Özelliklerinin İncelenmesi, 2024 - 2025

AVCI ÖZBEK H., Project Supported by Higher Education Institutions, Karışık Metal İçeren Lindqvist Ve/Veya Anderson-Evans Yapıda Polioksometalatların Sentezi, Karakterizasyonu, Elektrokimyasal, Antimikrobiyal ve Lüminesans Özelliklerinin Belirlenmesi, 2022 - 2024
AVCI ÖZBEK H., DEMİRHAN F., Project Supported by Higher Education Institutions, Pd(II), Sn(II) ve Sn(IV) Biferrosenil Schiff Baz Komplekslerinin Sentezi, Karakterisazyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, 2022 - 2023
AVCI ÖZBEK H., DEMİRHAN F., Project Supported by Higher Education Institutions, Yeni Ti(IV)-Schiff Baz Komplekslerinin Sentezi, Karakterizasyonu ve Antimikrobiyal Özelliklerinin İncelenmesi, 2020 - 2021
AVCI ÖZBEK H., DEMİRHAN F., Project Supported by Higher Education Institutions, Vanadyum Ve/veya Krom İçeren Polioksometalatlarının Sentezi, Karakterizasyonu Ve Katalitik Uygulamaları, 2018 - 2020
DEMİRHAN F., AVCI ÖZBEK H., Project Supported by Higher Education Institutions, BAP Research Project, N,N'-Bis(Ferrosenilmetil)İmidazolinyum Klorür Ve/Veya Bromür Tuzlarının Katalitik Özelliklerinin İncelenmesi, 2016 - 2018
AVCI ÖZBEK H., DEMİRHAN F., Project Supported by Higher Education Institutions, N,N'-Bis(ferrosenilmetil)imidazolinyum Klorür ve/veya Bromür Tuzlarının Katalitik Özelliklerinin İncelenmesi, 2016 - 2018
AVCI ÖZBEK H., DEMİRHAN F., Project Supported by Higher Education Institutions, 1,3-Bis(ferrosenilmetil)imidazolinyum Klorür Tuzunun Döngüsel Voltammetrik Özelliklerinin İncelenmesi, 2012 - 2013
DEMİRHAN F., AVCI ÖZBEK H., Project Supported by Higher Education Institutions, BAP Other, 1,3-Bis(Ferrosenilmetil)İmidazollinyum Tuzunun Döngüsel Voltametrik Özelliklerinin İncelenmesi, 2012 - 2013
AVCI ÖZBEK H., DEMİRHAN F., Project Supported by Higher Education Institutions, Ferrosen Grubu İçeren Karben Komplekslerinin Sentezi Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, 2011 - 2012
DEMİRHAN F., AVCI ÖZBEK H., Project Supported by Higher Education Institutions, BAP MSc, Ferrosen Grubu İçeren Karben Komplekslerinin Sentezi, Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, 2011 - 2012

Metrics

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Citation (WoS): 37
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H-Index (Scopus): 4