

Asst. Prof. Adem Rüzgar



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International Researcher IDs

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Education Information

2014 - 2019	Doctorate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Organik Kimya/ Kimya, Turkey
2009 - 2011	Postgraduate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Kimya/ Kimya Eğitimi, Turkey
1999 - 2004	Undergraduate, Van Yüzüncü Yıl University, Eğitim Fakültesi, Kimya Öğretmenliği, Turkey

Academic Titles / Tasks

2021 - Continues	Assistant Professor, Van Yüzüncü Yıl University, Muradiye Meslek Yüksekokulu, Kimya ve Kimyasal İşletme Teknolojileri Bölümü
2015 - 2021	Lecturer, Van Yüzüncü Yıl University, Muradiye Meslek Yüksekokulu, Kimya ve Kimyasal İşletme Teknolojileri Bölümü

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis and characterization of a nanocatalyst consisting of tungsten (VI) oxide and ruthenium for potential use in the hydrogen generation via hydrolysis of methylamine-borane**
Rüzgar A., Yurderi M., Karataş ., Gülcən M., Zahmakiran M.
Materials Chemistry and Physics, vol.328, 2024 (SCI-Expanded)
- II. **Rh Nanoparticles-Decorated Graphene Oxide: An Efficient Catalyst for the Hydrogenation of Nitroaromatic Pollutants**
Eftekhari-Sis B., Pishghadam N., Rüzgar A., Gülcən M.
Journal of Inorganic and Organometallic Polymers and Materials, vol.34, no.10, pp.4880-4893, 2024 (SCI-Expanded)
- III. **Palladium (0) nanoparticles distributed on lanthanum (III) oxide as an effective catalyst for the methanolysis of hydrazine-borane to produce hydrogen**
Rüzgar A., Şener L., Karataş ., Gülcən M.
Turkish Journal of Chemistry, vol.48, no.1, pp.137-151, 2024 (SCI-Expanded)
- IV. **Synthesis and characterization of Pd0 nanoparticles supported over hydroxyapatite nanospheres for potential application as a promising catalyst for nitrophenol reduction**
Rüzgar A., Karataş ., Gülcən M.
Heliyon, vol.9, no.11, 2023 (SCI-Expanded)
- V. **Synthesis, Characterization, and DFT Calculation of Some New Pyrimidine Derivatives and Theoretical Studies on the Corrosion Inhibition Performance**
Esvet A., Adem R., Cagla A., Ertan S.
Iranian Journal of Chemistry and Chemical Engineering, vol.41, no.5, pp.1643-1656, 2022 (SCI-Expanded)
- VI. **Manganese oxide octahedral molecular sieves stabilized Rh nanoparticles for the hydrogen production from the ethylenediamine-bisborane hydrolysis**

- Çelebi M., Rüzgar A., Karataş ., Gülcen M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.37, pp.16494-16506, 2022 (SCI-Expanded)
- VII. Highly efficient and selective one-pot tandem imine synthesis via amine-alcohol cross-coupling reaction catalysed by chromium-based MIL-101 supported Au nanoparticles
Gumus I., Rüzgar A., Karataş Y., Gülcen M.
MOLECULAR CATALYSIS, vol.501, 2021 (SCI-Expanded)
- VIII. A Green Protocol for Simple One-pot Synthesis of New Pyrimidine Derivatives Both Microwave Irradiation and Conventional Heating: Reactions, Characterization, and Theoretical Calculations
Akbaş E., Rüzgar A., ŞAHİN E., Ergan E.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.56, no.3, pp.1003-1011, 2019 (SCI-Expanded)
- IX. Synthesis, DFT Study and the Eschenmoser Sulfide Contraction of 1,2,3,4-tetrahydropyrimidine Derivatives
Akbaş E., ERDOGAN A., Ergan E., Gülcen M., Rüzgar A.
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.39, no.2, pp.269-277, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. Preparation and Characterization of Pvp Stabilized Rhodium Iron Bimetallic Nanoclusters and Investigation of Catalytic Activity in DMAB Hydrolysis
Karataş ., Rüzgar A.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.3, pp.1958-1969, 2023 (Peer-Reviewed Journal)
- II. Poli(N-vinil-2-pirolidon) ile Kararlaştırılmış Ru-Fe Nanokümelerinin Sentezlenmesi, Tanımlanması ve Metilamin-Boran'ın Hidroliz Tepkimesinde Katalitik Etkinliğinin Araştırılması
Rüzgar A., Karataş .
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.2, pp.1142-1154, 2023 (Peer-Reviewed Journal)
- III. Synthesis of the 3,5-diphenyl-1H-pyrazole and cytogenetic and oxidative alterations after exposure of cultured human whole blood cells
Akbaş E., Celikezen F. C., Turkez H., Ozdemir O., Rüzgar A., Ergan E., ŞAHİN E.
COGENT CHEMISTRY, vol.3, no.1, 2017 (ESCI)

Books & Book Chapters

- I. SHIFF BAZLARININ GENEL ÖZELLİKLERİ
RÜZGAR A.
in: KİMYA VE MALZEME BİLİMİNDE GÜNCEL GELİŞMELER, Dr. Nihayet KOÇYİĞİT, Editor, İksad Yayınevi, Ankara, pp.109-139, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. DENSITY FUNCTIONAL THEORY EVOLUTION OF 8-FLUORO-5-(4-((METHYLAMINO)METHYL)PHENYL)-3,4-DIHYDRO-2H-AZEPINO[5,4,3-CD] INDOL-1(6H)-ONE ADSORPTION BEHAVIOR ON ALUMINUM NITRIDE SURFACE
Akbaş E., Rüzgar A.
AL FARABI 12th INTERNATIONAL SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Almati, Kazakhstan, 3 - 04 March 2024, pp.277-282
- II. ADSORPTION BEHAVIOR OF 6-CHLORO-8-METHYL-9H-PURINE ON THE ALUMINUM NITRIDE SURFACE: DENSITY FUNCTIONAL THEORY BASED STUDIES
Akbaş E., Rüzgar A.
International Aegean Conferences-IX, İzmir, Turkey, 23 - 25 February 2024, pp.380-386

- III. Preparation and Characterization of Gold (0) Nanoclusters Stabilized in MIL-101 Structure and Investigation of their Catalytic Performance in the Reduction of Nitrophenol Derivatives**
Pehlivan B., Rüzgar A., Gülcen M.
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara, Turkey, 11 - 13 October 2023, pp.695-702
- IV. In-situ Synthesis and Characterization of Rh/ZIF-67 Nanocatalyst and Investigation of its Catalytic Performance in the Reduction of Nitrophenols to Aminophenols**
Kafi Z., Karataş , Rüzgar A., Gülcen M.
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara, Turkey, 11 - 13 October 2023, pp.669-675
- V. Polyvinylpyrrolidone Stabilized Mono- or Bi-Metal Nanoclusters: Preparation, Characterization and Investigation of Catalyst Effects in Hydrogen Production from Ethylenediamine-Bisborane**
Özçicek B., Karataş , Rüzgar A., Gülcen M.
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara, Turkey, 11 - 13 October 2023, pp.688-694
- VI. SYNTHESIS OF 5-BENZOYL-6-PHENYL-4-(5-BROMO-2- HYDROXYPHENYL)-2-THIOXO-3,4-DIHYDRO-1H-PYRIMIDINE AS A CATALYTIC WITH HIGH EFFICIENC AND QUANTUM CHEMICAL CALCULATIONS**
Rüzgar A., Akbaş E.
ISTANBUL INTERNATIONAL MODERN SCIENTIFIC RESEARCH CONGRESS -V, İstanbul, Turkey, 9 - 11 July 2023, pp.849-856
- VII. INVESTIGATION OF CORROSION INHIBITION EFFECTS OF AMIDE DERIVATIVES SYNTHESIZED WITH PYRAZOLE CARBOXYLIC ACIDS BY DFT METHOD**
Rüzgar A., Akbaş E.
International Euroasia Congress on Scientific Researches and Recent Trends 11 , Nevşehir, Turkey, 22 - 23 June 2023, pp.748-757
- VIII. Preparation and Detailed Characterization of Hydroxyapatite Decorated Palladium Nanoparticles for The Nitrophenol Reduction**
Karataş , Rüzgar A., Gülcen M.
Global Summit on Advanced Materials & Sustainable Energy (G-AMSE22), Van, Turkey, 3 - 04 October 2022, pp.207
- IX. Synthesis and Characterization of MXene Stabilized Polymetallic Nanoclusters for the Selective Decomposition of Hydrazine Hydrate**
Karataş , Rüzgar A., Gülcen M.
Global Summit on Advanced Materials & Sustainable Energy (G-AMSE22), Van, Turkey, 3 - 04 October 2022, pp.205
- X. 5-Benzoyl-4-(3,5-Dimetoksifenil)-6-Fenil-3,4-Dihidropirimidin-2(1H)- on ve 3-Asetil-5- Benzoil-6-Fenil-4-(4-Hidroksifenil)-1,2,3,4- Tetrahidro-2-Tiyoksopirimidin Bileşiklerinin Sentezi**
Rüzgar A., Akbaş E., Şahin E.
KARADENİZ 3.ULUSLAR ARASI UYGULAMALI BİLİMLER KONGRESİ, Ordu, Turkey, 25 - 26 April 2020, pp.7-9
- XI. 5-Benzoyl-6-Fenil-4-(4-Triflorometoksifenil)-2-Tiyokso-3,4-Dihidro-1H-Pirimidin Bileşığının Sentezlenmesi Ve Türevlendirilmesi**
Rüzgar A., Akbaş E.
KARADENİZ 3. ULUSLAR ARASI UYGULAMALI BİLİMLER KONGRESİ, Ordu, Turkey, 25 - 26 April 2020, pp.5-6
- XII. 5-Benzoyl-6-Fenil-4-(4-Triflorometoksifenil)-2-Okso-3,4-Dihidro-1HPirimidin Bileşığının Sentezi ve DFT Hesaplamaları**
Rüzgar A., Akbaş E.
3. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016, pp.31
- XIII. Tek Basamakta 3,5-Difenil-1H-Pirazol Bileşığının Sentezi ve In vitro Sitotoksik ve Oksidatif Etkilerinin Belirlenmesi**
Rüzgar A., Akbaş E., Ergan E., Şahin E., Çelikezen F. Ç., Türkez H., Tozlu Ö. Ö.
4. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Aydın, Turkey, 17 - 20

March 2016, pp.94
XIV. Structural analysis of 3,5-diphenyl-1H-pyrazole obtained by acid catalyze reaction
Rüzgar A., Ergan E., Akbaş E., Şahin E.
INTERNATIONAL SYMPOSIUM ON MOLECULAR CHEMISTRY, İstanbul, Turkey, 18 - 19 December 2014, pp.55

Supported Projects

2024 - Continues	Kaffeik Asit Kullanılarak Elde Edilen Metalik Nanopartiküllerin Antidiyabetik Antimikrobiyal Antioksidan Aktivitelerinin Araştırılması ile Protein ve DNA Hasarını Önleme Etkisi, Project Supported by Higher Education Institutions
2024 - Continues	Enerji ve Çevre Uygulamaları İçin Tungsten (VI) Oksit Nanoçubukları Destekli Ru (0) ve Pd (0) Nanokümelerinin Geliştirilmesi, Project Supported by Higher Education Institutions
2022 - 2024	MXene Destekli Nikel Bazlı Çok Metalli Nanokümelerin Sentezi Karakterizasyonu ve Hidrazin Hidrattan Hidrojen Üretimindeki Katalitik Performanslarının Araştırılması, Project Supported by Higher Education Institutions
2022 - 2023	Nanohidroksiapatit Yapısında Kararlaşıtırılmış Palladyum 0 Nanokümelerinin Hazırlanması Karakterizasyonu ve Nitrofenol Türevlerinin İndirgenmesinde Katalitik Performanslarının Araştırılması, Project Supported by Higher Education Institutions
2016 - 2019	Yeni 1,2,3,4-tetrahidro pirimidin türevi bileşiklerin sentezi ve karakterizasyonu, Project Supported by Higher Education Institutions

Activities in Scientific Journals

2022 - Continues	İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi (FBED), Editor
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Scientific Refereeing

April 2022	İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi (FBED), Other Indexed Journal
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Tasks In Event Organizations

24 Temmuz 2020	Rüzgar A., ULUSLARARASI VAN UYGULAMALI BİLİMLER KONGRESİ, Scientific Congress, Turkey
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Metrics

Publication: 27
Citation (WoS): 30
Citation (Scopus): 43
H-Index (WoS): 4
H-Index (Scopus): 4

Non Academic Experience

2007 - 2010	ÖZEL ÇINAR DERSANESİ
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