

Asst. Prof. Adem Rüzgar

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International Researcher IDs

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Education Information

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

Academic Titles / Tasks

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

Published journal articles indexed by SCI, SSCI, and AHCI

- 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 ., Gülcan M., Zahmakiran M.
Materials Chemistry and Physics, vol.328, 2024 (SCI-Expanded)
- Rh Nanoparticles-Decorated Graphene Oxide: An Efficient Catalyst for the Hydrogenation of Nitroaromatic Pollutants**
Eftekhari-Sis B., Pishghadam N., Rüzgar A., Gülcan M.
Journal of Inorganic and Organometallic Polymers and Materials, vol.34, no.10, pp.4880-4893, 2024 (SCI-Expanded)
- 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 ., Gülcan M.
Turkish Journal of Chemistry, vol.48, no.1, pp.137-151, 2024 (SCI-Expanded)
- Synthesis and characterization of Pd0 nanoparticles supported over hydroxyapatite nanospheres for potential application as a promising catalyst for nitrophenol reduction**
Rüzgar A., Karataş ., Gülcan M.
Heliyon, vol.9, no.11, 2023 (SCI-Expanded)
- 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)
- Manganese oxide octahedral molecular sieves stabilized Rh nanoparticles for the hydrogen production from the ethylenediamine-bisborane hydrolysis**

Çelebi M., Rüzgar A., Karataş ., Gülcan 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., Gülcan 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., ERDOĞAN A., Ergan E., Gülcan 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 Nanokümlerinin 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., Gülcan 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., Gülcan 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**
Özçiçek B., Karataş ., Rüzgar A., Gülcan 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 EFFICIENCY 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., Gülcan 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., Gülcan M.
Global Summit on Advanced Materials & Sustainable Energy (G-AMSE22), Van, Turkey, 3 - 04 October 2022, pp.205
- X. **5-Benzoil-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-Benzoil-6-Fenil-4-(4-Triflorometoksifenil)-2-Tiyokso-3,4-Dihidro-1H-Pirimidin Bileşiğinin 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-Benzoil-6-Fenil-4-(4-Triflorometoksifenil)-2-Okso-3,4-Dihidro-1HPirimidin Bileşiğinin 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 Bileşiğinin 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 Kararlılaştırılmış 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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