

Assoc. Prof. ZEYNEL ÖZTÜRK

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-5176-2020

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Chemical Engineering, Turkey 2010 - 2015

Postgraduate, Ondokuz Mayıs University, Institute Of Science, Department Of Chemistry, Turkey 2006 - 2010

Undergraduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2002 - 2006

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Metal-organik çerçevesel hibrit kompozit malzeme geliştirilmesi ve hidrojen depolama karakteristiği, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 2015

Postgraduate, Vinil piridin içeren metal organik kafes yapılı bileşiklerin sentezi ve alternatif enerji kaynağı hidrojen depolama özellikleri, Ondokuz Mayıs University, Institute Of Science, Department Of Chemistry, 2010

Research Areas

Inorganic Technologies, Alternative Energy Resources, Hydrogen Technologies and Fuel Cells , Advanced Energy Technologies, Coordination Chemistry, Clusters/Solids and Surfaces

Academic Titles / Tasks

Lecturer, Sivas Cumhuriyet University, Mühendislik Fakültesi, Kimya Mühendisliği, 2022 - Continues

Lecturer, Hitit University, Faculty Of Engineering, Department Of Chemistry Engineering, 2009 - 2022

Academic and Administrative Experience

Deputy Director of the Center, Hitit University, Alternative Energy Systems And Biomedical Application And Research Center, 2014 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Novel metal graphene framework (MGF) structures for hydrogen storage**
Ozturk Z.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.84, pp.35747-35756, 2022 (SCI-Expanded)
- II. **Lithium decoration characteristics for hydrogen storage enhancement in novel periodic porous graphene frameworks**
Ozturk Z.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.21, pp.11804-11814, 2021 (SCI-Expanded)
- III. **Hydrogen storage on lithium modified silica based CHAbazite type zeolite, A computational study**
Ozturk Z.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.49, pp.22365-22376, 2018 (SCI-Expanded)
- IV. **The new metal complex templated polyoxoborate(s) (POB(s)) structures. Synthesis, structural characterization, and hydrogen storage capacities**
Kose D. A., Yurdakul O., Sahin O., Ozturk Z.
JOURNAL OF MOLECULAR STRUCTURE, vol.1134, pp.806-813, 2017 (SCI-Expanded)
- V. **Synthesis of novel Schiff Bases containing acryloyl moiety and the investigation of spectroscopic and electrochemical properties**
Silku P., Ozkinali S., Ozturk Z., Asan A., Kose D. A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1116, pp.72-83, 2016 (SCI-Expanded)
- VI. **Novel 2D micro-porous Metal-Organic Framework for hydrogen storage**
Ozturk Z., Kose D. A., Sahin Z. S., ÖZKAN G., Asan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.28, pp.12167-12174, 2016 (SCI-Expanded)
- VII. **Experimental and simulation study on structural characterization and hydrogen storage of metal organic structured compounds**
Ozturk Z., ÖZKAN G., Kose D. A., Asan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.19, pp.8256-8263, 2016 (SCI-Expanded)
- VIII. **Effects of lithium doping on hydrogen storage properties of heat welded random CNT network structures**
Baykasoglu C., Ozturk Z., Kirca M., Celebi A. T., Muğan A., To A. C.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.19, pp.8246-8255, 2016 (SCI-Expanded)
- IX. **Sandwiched graphene-fullerene composite: A novel 3-D nanostructured material for hydrogen storage**
Ozturk Z., Baykasoglu C., Kirca M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.15, pp.6403-6411, 2016 (SCI-Expanded)
- X. **Combined experimental and theoretical investigation of characterization and hydrogen storage properties of Zn(II) based complex and composites**
Ozturk Z., ÖZKAN G., Asan A., Kose D. A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.17, pp.5907-5915, 2015 (SCI-Expanded)
- XI. **Hydrogen storage in heat welded random CNT network structures**
Ozturk Z., Baykasoglu C., Celebi A. T., Kirca M., Muğan A., To A. C.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.1, pp.403-411, 2015 (SCI-Expanded)
- XII. **Hydrogen storage properties of mono- and bidentate MOF structured orotate complexes**
Ozturk Z., Kose D. A., Asan A., Ozturk B., Andac O., Ozkan G.
JOURNAL OF MATERIALS RESEARCH, vol.29, no.2, pp.215-220, 2014 (SCI-Expanded)
- XIII. **INVESTIGATION OF HYDROGEN STORAGE PERFORMANCES OF SOME METAL ORGANIC FRAMEWORK STRUCTURED COMPOUNDS**
ÖZTÜRK Z., Kose D. A., Ozturk B., Asan A.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.28, no.2, pp.333-337, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **The Effect of Surface Area and Dopant Percentage on Hydrogen Storage of Pt@AC loaded Activated Carbon and Cu-BTC Composites**
ÖZTÜRK Z.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.6, no.3, pp.1007-1014, 2016 (Scopus)
- II. **The Structural and Thermal Characterization of New Cu-Arginate Complex Experimental and Simulated Hydrogen Adsorption Properties**
ŞAHİN Z. S., ÖZTÜRK Z., YURDAKUL Ö., KÖSE D. A.
Hittite Journal of Science and Engineering, vol.3, no.1, pp.41-49, 2016 (Peer-Reviewed Journal)
- III. **Combined Experimental and Molecular Simulation Study on The Hydrogen Storage Properties of Cu II and Ni II MetalOrganic Compounds**
ÖZTÜRK Z., ÖZKAN G., KÖSE D. A., ASAN A.
Hacettepe Journal of Biology and Chemistry, vol.43, no.1, pp.1-8, 2015 (Peer-Reviewed Journal)
- IV. **Porous metal organic Cu II complex of L Arginine synthesis characterization hydrogen storage properties and molecular simulation calculations**
Öztürk Z., Köse D. A., Asan A., Özkan G.
Hittite Journal of Science and Engineering, vol.1, no.1, pp.1-5, 2014 (Peer-Reviewed Journal)
- V. **A Kind of Energy Storage Technology: Metal Organic Frameworks**
Ozturk Z., Kose D. A., Asan A., Ozturk B.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.2, no.1, pp.44-46, 2012 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Poroz Grafen Kafesler (PGFs): Yüzey Alanı / Hidrojen Depolama İlişkisi Hakkında Hesaplamalı bir Durum Çalışması**
ÖZTÜRK Z.
Global Summit on Advanced Materials and Sustainable Energy (G-ASME22), 3 - 04 October 2022
- II. **A Novel Porous Graphene Framework Structure; Computational Structural Analysis**
ÖZTÜRK Z.
14th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Turkey, 18 - 19 July 2022
- III. **Bor Katkılı Metal-Organik Ni(II) Bileşiğinin Hidrojen Depolama ve Yüzey Karakteristiğinin Belirlenmesi**
ÖZTÜRK Z., KÖSE D. A., YURDAKUL Ö., ŞAHİN O.
UHTEK-2015 Ulusal Hidrojen Teknolojileri Kongresi 20-23 Aralık 2015, İstanbul, 20 - 23 December 2015
- IV. **Hydrogen storage property of Metal-Organic Co(II) orotatocomplex**
ÖZTÜRK B., ÖZTÜRK Z., ÖZKAN G., ASAN A., KÖSE D. A.
E-MRS 2015 Fall Meeting, 15 - 18 September 2015
- V. **Sandwiched Fullerene Graphene Composite for Hydrogen Storage**
BAYKASOĞLU C., KIRCA M., ÖZTÜRK Z.
E-MRS 2015 Fall Meeting, 15 - 18 September 2015
- VI. **Orotik Asit İle 1,10 Fenantrolin İçeren Karışık Ligant Komplekslerinin Hazırlanması Yapılarının Tayini Ve Hidrojen Depolama Özelliklerinin İncelenmesi**
ÖZTÜRK B., ÖZTÜRK Z., KÖSE D. A.
27. Ulusal Kimya Kongresi, 23 - 28 August 2015
- VII. **2D Metal Organik Yapılı Cu TMA Phen H₂O 3H₂O Kompleksinin Yapısal Özellikleri Ve Hidrojen Depolama Kapasitesinin Belirlenmesi**
ÖZTÜRK Z., KÖSE D. A., ŞAHİN O.
Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015
- VIII. **Experimental and Simulation Study on Structural Characterization and Hydrogen Storage of Metal**

Organic Structured Compound

ÖZTÜRK Z., ÖZKAN G., KÖSE D. A., ASAN A.

International Conference on Hydrogen Production ICH2P-15, Canada, 3 - 06 May 2015

- IX. **Effect of Lithium Doping on Hydrogen Storage Capacity of Heat Welded Random CNT Network Structure**
BAYKASOĞLU C., ÖZTÜRK Z., KIRCA M., ÇELEBİ A. T., MUGAN A., To A.
6th International Conference on Hydrogen Production ICH2P-15, 3 - 06 May 2015
- X. **Characterization of powder compounds by using experimental and molecular simulation studies**
ÖZTÜRK Z., KÖSE D. A., ÖZTÜRK B., ASAN A.
13th Mediterranean Congress of Chemical Engineering, 30 September - 02 October 2014
- XI. **Teraftalik Asit ve 1,10 Fenantrolin İçeren Organometalik Toz Bakır Kompleksinin; Kristal Yapısı, Mekanik ve Termodinamik Özelliklerinin Teorik Olarak Belirlenmesi**
ÖZTÜRK Z., ÖZKAN G., KÖSE D. A., ASAN A.
11.ULUSAL KİMYA MÜHENDİSLİĞİ KONGRESİ, 2 - 05 September 2014
- XII. **Bazı Organometalik Komplekslerin Teorik ve Deneysel Hidrojen Depolama Performanslarının Belirlenmesi**
ÖZTÜRK Z., KÖSE D. A., ANDAÇ Ö., ÖZKAN G.
10. Kimya Mühendisliği Kongresi, UKMK-10, İstanbul, 2012, Turkey, 3 - 06 September 2012
- XIII. **Bazı Geçiş Metalleinin Amonyum Orotat Komplekslerinin Sentezlenmesi Karakterizasyonu ve Hidrojen Depolama performanslarının Belirlenmesi**
ÖZTÜRK B., ÖZTÜRK Z., KÖSE D. A., ANDAÇ Ö.
10. Kimya Mühendisliği Kongresi, UKMK-10, İstanbul 2012, Turkey, 3 - 06 September 2012
- XIV. **MOF Yapılı Komplekslerin Yakıt Pillerinde Katalizör Tabaka Olarak Uygulanabilirliklerinin İncelenmesi**
ÖZTÜRK Z., KÖSE D. A., ASAN A., ÖZTÜRK B., ANDAÇ Ö.
10. Kimya Mühendisliği Kongresi, UKMK-10, İstanbul, 2012, Turkey, 03 September 2012
- XV. **Alternative Energy Source Hydrogen Storage Material Metal Organic Frameworks**
Sekizkardeş A. K., ÖZTÜRK Z., KÖSE D. A.
International Conference on Clean Energy (ICCE-2010), 15 - 17 September 2010
- XVI. **As an Energy Carrier Hydrogen and Hydrogen Carrier Metal Organic Frameworks**
ÖZTÜRK Z., KÖSE D. A., ASAN A., Sekizkardeş A. K.
International Conference on Clean Energy (ICCI-2010), 15 - 17 September 2010
- XVII. **METAL ORGANİK KAFES YAPILI ADSORBANLARIN HİDROJEN DEPOLAMA UYGULAMALARI**
Sekizkardeş A. K., ÖZTÜRK Z., KÖSE D. A.
9.Ulusal Kimya Mühendisliği Kongresi, ANKARA, 22-25 Haziran 2010, Turkey, 22 - 25 June 2010
- XVIII. **Bor Katkılı Çimentoların Nötron Tutma Kapasitelerinin Yapay Sinir Ağlarıyla İncelenmesi**
ÖZTÜRK Z., ZEYBEK M. S.
9.Ulusal Kimya Mühendisliği Kongresi, ANKARA, 22-25 Haziran 2010, Turkey, 22 - 25 June 2010
- XIX. **Yenilenebilir Enerji Kaynağı Hidrojen Hidrojen Depolayıcısı Metal Organik Kafes Yapılı Bileşikler ve Depolama Performanslarının İncelenmesi**
ÖZTÜRK Z., ANDAÇ Ö.
9.Ulusal Kimya Mühendisliği Kongresi, ANKARA, 22-25 Haziran 2010, Turkey, 22 - 25 June 2010
- XX. **Hydrogen Storage and Metal Organic Frameworks**
ÖZTÜRK Z., KÖSE D. A., Sekizkardeş A. K.
International Conference on Hydrogen Production (ICH2P-2010) With Emphasis on Storage and Safety, 16 - 18 June 2010
- XXI. **Hydrogen Storage Properties of trans Diaquabis 3 hydroxybenzoato O1 bis nicotinamide N1 copper II**
KÖSE D. A., ÖZTÜRK Z., Sekizkardeş A. K.
International Conference on Hydrogen Production (ICH2P-2010) With Emphasis on Storage and Safety, 16 - 18 June 2010

Supported Projects

Öztürk Z., TUBITAK Project, YENİ TİP HİDROJEN DEPOLAMA VE GAZ AYIRMA/SAFLAŞTIRMA/DEPOLAMA SİSTEMLERİ İÇİN YÜZEY ETKİLEŞİMLİ ADSORBAN METAL ORGANİK KAFES YAPILAR ÜRETİLMESİ, 2023 - 2024
Öztürk Z., Kalkışım A. T., Öztürk B., TUBITAK Project, MALZEME ESASLI DEPOLAYICI İÇEREN YENİ TİP HİDROJEN DEPOLAMA TÜPÜ TASARIM, PROTOTİP İMALAT VE PERFORMANS TESTLERİ, 2021 - 2022
Öztürk Z., Kalkışım A. T., KOSGEB, Ağırlyksız Radyasyon Koruma Sistemi, ARK. KOSGEB Ar-Ge Projesi 46YVU, 2021 - 2022

Scientific Refereeing

INORGANIC CHEMISTRY FRONTIERS, SCI Journal, July 2023
NEW JOURNAL OF CHEMISTRY, SCI Journal, July 2023
RSC ADVANCES, SCI Journal, April 2023
JOURNAL OF MATERIALS CHEMISTRY A, SCI Journal, February 2023
MICROPOROUS AND MESOPOROUS MATERIALS, SCI Journal, January 2023
RSC ADVANCES, SCI Journal, January 2023
RSC ADVANCES, SCI Journal, December 2022
RSC ADVANCES, SCI Journal, December 2022
NEW JOURNAL OF CHEMISTRY, SCI Journal, November 2022
RSC ADVANCES, SCI Journal, November 2022
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Sivas Cumhuriyet University, Turkey, November 2022
INORGANIC CHEMISTRY FRONTIERS, SCI Journal, October 2022
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, August 2022
JOURNAL OF MATERIALS CHEMISTRY A, SCI Journal, April 2022
RSC ADVANCES, SCI Journal, January 2022
RSC ADVANCES, SCI Journal, December 2021
JOURNAL OF MATERIALS CHEMISTRY A, SCI Journal, November 2021
CHEMPHYSCHEM, National Scientific Refreed Journal, November 2021
RSC ADVANCES, SCI Journal, November 2021
JOURNAL OF MATERIALS CHEMISTRY A, SCI Journal, October 2021
SMALL, SCI Journal, September 2021

Metrics

Publication: 39
Citation (WoS): 186
Citation (Scopus): 205
H-Index (WoS): 8
H-Index (Scopus): 9