

## Asst. Prof. ZEYNEP MİNE HASDEMİR

### Personal Information

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### Education Information

Doctorate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 2008 - 2013

Postgraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 2005 - 2008

Undergraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 2000 - 2004

### Foreign Languages

English, B1 Intermediate

### Certificates, Courses and Trainings

Vocational Training, Eğiticinin Eğitimi, Cumhuriyet Üniversitesi, 2018

Vocational Training, Biyokimyada Güncel Konular-II Yaz Okulu, Aksaray Üniversitesi, 2016

Vocational Training, Spektroskopi Yaz Okulu, Erzincan Üniversitesi, 2014

Vocational Training, TÜBİTAK PROJE YAZMA EĞİTİMİ, Kafkas Üniversitesi, 2013

Vocational Training, İyi Üretim Uygulamaları, Cumhuriyet Üniversitesi, 2009

Vocational Training, Analitik Validasyon Kalibrasyon, Cumhuriyet Üniversitesi, 2009

Vocational Training, ISO 9001, Cumhuriyet Üniversitesi, 2009

### Dissertations

Doctorate, Poliakrilamit-Kitosan-Kırmızı Çamur/Hidroksiapatit Kompozitlerinin Hazırlanması, Karakterizasyonu ve Kurşun ve Toryum için Adsorban Özelliklerinin Araştırılması, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2013

Postgraduate, Poliakrilamit-bentonit/zeolit kompozitlerine Tl+ ve Tl3+ adsorpsiyonunun incelenmesi, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2008

### Research Areas

Chemistry, Physical Chemistry, Composites, Surface Chemistry, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Zara Ahmet Çuhadaroğlu Meslek Yüksekokulu, Gıda İşleme, 2015 - Continues

Assistant Professor, Kafkas University, Faculty Of Science And Letters, Department Of Chemistry, 2014 - 2015

Research Assistant, Kafkas University, Faculty Of Science And Letters, Department Of Chemistry, 2011 - 2014

## Academic and Administrative Experience

Assistant Director of Vocational School, Sivas Cumhuriyet University, Zara Ahmet Çuhadaroğlu Meslek Yüksekokulu, Gıda İşleme, 2021 - Continues

Meslek Yüksekokulu Yönetim Kurulu Üyesi, Sivas Cumhuriyet University, Zara Ahmet Çuhadaroğlu Meslek Yüksekokulu, Gıda İşleme, 2020 - Continues

Head of Department, Sivas Cumhuriyet University, Zara Ahmet Çuhadaroğlu Meslek Yüksekokulu, Gıda İşleme, 2015 - Continues

Erasmus Coordinator, Sivas Cumhuriyet University, 2015 - 2018

## Courses

Fungal Sekonder Metabolitler, Postgraduate, 2021 - 2022

İlk Yardım, Associate Degree, 2021 - 2022

Laboratuvar Teknikleri-I, Associate Degree, 2021 - 2022

Genel Kimya, Associate Degree, 2021 - 2022

Genel Biyoloji, Associate Degree, 2019 - 2020

Matematik - II, Associate Degree, 2018 - 2019

Gıda Mikrobiyolojisi, Associate Degree, 2019 - 2020

Matematik - II, Associate Degree, 2018 - 2019

Proje Hazırlama ve Değerlendirme, Associate Degree, 2018 - 2019

Özel Gıdalar Teknolojisi, Associate Degree, 2018 - 2019

Genel Kimya, Associate Degree, 2019 - 2020

Matematik - I, Associate Degree, 2019 - 2020

Gıda Kimyası ve Biyokimya, Associate Degree, 2018 - 2019

Genel Mikrobiyoloji, Associate Degree, 2018 - 2019

Gıda Kimyası ve Biyokimya, Associate Degree, 2017 - 2018

Mesleki İngilizce - II, Associate Degree, 2017 - 2018

Mesleki İngilizce - I, Associate Degree, 2018 - 2019

Temel Bilgisayar Teknolojileri Kullanımı, Associate Degree, 2017 - 2018

Temel Bilgisayar, Associate Degree, 2017 - 2018

Temel Bilgisayar Bilimleri, Associate Degree, 2016 - 2017

Genel Biyoloji, Associate Degree, 2017 - 2018

Temel Bilgisayar Bilimleri, Associate Degree, 2015 - 2016

Temel Bilgisayar Bilimleri, Associate Degree, 2015 - 2016

İngilizce - II, Associate Degree, 2015 - 2016

Endüstriyel Kimya Lab., Undergraduate, 2014 - 2015

Kimyasal Kinetik, Undergraduate, 2014 - 2015

Temel Bilgi Teknolojileri Kullanımı, Associate Degree, 2015 - 2016

İngilizce - I, Associate Degree, 2015 - 2016

Genel Kimya, Undergraduate, 2014 - 2015

Kimyada Matematik Metotları, Undergraduate, 2014 - 2015

Genel Kimya Lab., Undergraduate, 2014 - 2015

Adsorpsiyon, Doctorate, 2014 - 2015

Enstrümental Analiz Lab., Undergraduate, 2014 - 2015

## Jury Memberships

Competition, Sivas Cumhuriyet Üniversitesi, April, 2018

Competition, TÜBİTAK - 2204 - B ORTAOKUL ÖĞRENCİLERİ ARAŞTIRMA PROJELERİ YARIŞMASI, Sivas Cumhuriyet University, April, 2017

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **A chitosan-based composite for adsorption of uranyl ions; mechanism, isotherms, kinetics and thermodynamics**  
Senol Z. M.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.183, pp.1640-1648, 2021 (Journal Indexed in SCI)
- II. **Optimization the removal of lead ions by fungi: Explanation of the mycosorption mechanism**  
Hasdemir Z. M. , Gül Ü. D. , Gurbanov R., Şimşek S.  
Journal of Environmental Chemical Engineering, vol.9, no.2, 2021 (Journal Indexed in SCI)
- III. **Bioremoval of Safranin O dye by the identified lichen species called Evernia prunastri biomass; biosorption optimization, isotherms, kinetics, and thermodynamics**  
HASDEMİR Z. M. , Gul U. D. , ŞİMŞEK S.  
BIOMASS CONVERSION AND BIOREFINERY, 2021 (Journal Indexed in SCI)
- IV. **Synthesis and characterization of chitosan-vermiculite composite beads for removal of uranyl ions: isotherm, kinetics and thermodynamics studies**  
Hasdemir Z. M. , Şimşek S., Özer A., Şenol Arslan D.  
Journal of Radioanalytical and Nuclear Chemistry, vol.327, no.1, pp.159-173, 2021 (Journal Indexed in SCI Expanded)
- V. **Bio-sorption of bisphenol a by the dried- and inactivated-lichen (Pseudoevernia furfuracea) biomass from aqueous solutions**  
Senol Z. M. , Gul U. D. , GÜRKAN R.  
JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, vol.18, no.2, pp.853-864, 2020 (Journal Indexed in SCI)
- VI. **Insight from adsorption properties of Xylidyl Blue embedded hydrogel for effective removal of uranyl: Experimental and theoretical approaches**  
Senol Z. M. , ŞİMŞEK S., ULUSOY H. İ. , Mahmood A., KAYA S.  
POLYMER TESTING, vol.88, 2020 (Journal Indexed in SCI)
- VII. **Effective biosorption of Allura red dye from aqueous solutions by the dried-lichen (Pseudoevernia furfuracea) biomass**  
Senol Z. M.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 2020 (Journal Indexed in SCI)
- VIII. **Removal of food dyes from aqueous solution by chitosan-vermiculite beads**  
Şenol Z. M. , Gürsoy N., Şimşek S., Özer A., Karakuş N.  
International Journal of Biological Macromolecules, vol.148, pp.635-646, 2020 (Journal Indexed in SCI)
- IX. **Synthesis and characterization of a polyacrylamide-dolomite based new composite material for efficient removal of uranyl ions**  
Senol Z. M. , Şimşek S., Ulusoy H. İ. , Özer A.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.324, pp.317-330, 2020 (Journal Indexed in SCI)
- X. **Equilibrium, kinetics and thermodynamics of Pb(II) ions from aqueous solution by adsorption onto chitosan-dolomite composite beads**  
Senol Z. M. , ŞİMŞEK S.  
International Journal of Environmental Analytical Chemistry, pp.1-15, 2020 (Journal Indexed in SCI Expanded)
- XI. **Preparation and characterization of a novel diatomite-based composite and investigation of its**

### **adsorption properties for uranyl ions**

Senol Z. M. , Arslan D. S. , Şimşek S.

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.321, no.3, pp.791-803, 2019 (Journal Indexed in SCI)

### **XII. Assessment of Pb<sup>2+</sup> removal capacity of lichen (Evernia prunastri): application of adsorption kinetic, isotherm models, and thermodynamics**

Senol Z. M. , Gul U. D. , Şimşek S.

Environmental Science and Pollution Research, vol.26, pp.27002-27013, 2019 (Journal Indexed in SCI)

### **XIII. Effective UO<sub>2</sub><sup>2+</sup> removal from aqueous solutions using lichen biomass as a natural and low-cost biosorbent**

Gul U. D. , Senol Z. M. , Gürsoy N., Şimşek S.

Journal of Environmental Radioactivity, pp.93-100, 2019 (Journal Indexed in SCI)

### **XIV. Synthesis and characterization of a composite polymeric material including chelating agent for adsorption of uranyl ions**

Şimşek S., Senol Z. M. , Ulusoy H. İ.

Journal of Hazardous Materials, vol.338, pp.437-446, 2017 (Journal Indexed in SCI)

### **XV. Thallium adsorption onto polyacryamide-aluminosilicate composites: A Tl isotope tracer study**

Senol Z. M. , ULUSOY U.

Chemical Engineering Journal, vol.162, no.1, pp.97-105, 2010 (Journal Indexed in SCI)

## **Articles Published in Other Journals**

### **I. Removal of Pb<sup>2+</sup> Ions from Aqueous Medium by Using ChitosanDiatomite Composite: Equilibrium, Kinetic and Thermodynamic Studies**

Şenol Z. M. , Şimşek S.

Journal of the Turkish Chemical Society Section A: Chemistry, vol.7, no.1, pp.307-318, 2020 (Other Refereed National Journals)

### **II. Kitosan-Vermikülit Kompoziti Kullanılarak Sulu Çözeltiden Etkin Kurşun Giderimi: Denge, Kinetik ve Termodinamik Çalışmalar**

Şenol Z. M.

Academic Platform Journal of Engineering and Science, vol.1, no.8, pp.15-21, 2020 (Other Refereed National Journals)

### **III. Removal of Cationic Dye in Aquatic Medium by Using a New Composite Material**

Şenol Z. M. , Şimşek S.

Cumhuriyet Science Journal, vol.39, pp.181-191, 2018 (Other Refereed National Journals)

## **Refereed Congress / Symposium Publications in Proceedings**

### **I. Removal of Uranyl Ions from Aqueous Solution by Using Chitosan-Sepiolite Composite**

HASDEMİR Z. M.

4th International virtual Conference on Physical Chemistry & Functional Materials, Turkey, 08 April 2021

### **II. Kitosan-vermikülit kompoziti kullanılarak sulu çözeltiden sunset yellow gıda boyasının etkin giderimi**

ŞİMŞEK S., HASDEMİR Z. M. , GÜRSOY N.

3rdInternational Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), 19 - 20 March 2020

### **III. Liken (Evernia prunastri) biyokütlesi kullanılarak sulu çözeltiden kurşun giderimi**

HASDEMİR Z. M. , GÜL Ü. D. , ŞİMŞEK S.

3rdInternational Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), 19 - 20 March 2020

- IV. **Liken (Pseudoevernia furfuracea) biyokütlesi kullanılarak sulu çözeltiden Allura red giderimi**  
HASDEMİR Z. M.  
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), 19 - 20 March 2020
- V. **Kitosan-Diyatomit Kompoziti Kullanılarak Sulu Çözeltiden Kurşun Gideriminin Araştırılması**  
HASDEMİR Z. M. , ŞİMŞEK S.  
31. Ulusal Kimya Kongresi, Turkey, 10 - 13 September 2019
- VI. **Likenlerden elde edilen biyosorbentlerin tekstil atık sularının arıtımında kullanım potansiyelinin belirlenmesi**  
YAVUZ Ş. A. , GÜL Ü. D. , HASDEMİR Z. M.  
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), 28 June - 29 October 2019
- VII. **TEKSTİL BOYALARI İLE KONTAMİNE ATIK SULARIN ARITIMINDA UCUZ VE ÇEVRE DOSTU BİYOSORBENTLERİN KULLANIMI**  
YAVUZ Ş. A. , GÜL Ü. D. , HASDEMİR Z. M.  
2ND INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019
- VIII. **LİKENLERİN TEKSTİL BOYASI GİDERİMİNE PH VE TEMAS SÜRESİNİN ETKİSİNİN BELİRLENMESİ**  
YAVUZ Ş. A. , GÜL Ü. D. , HASDEMİR Z. M.  
2. International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019
- IX. **Synthesis and Characterization of Polyacrylamide-Titanium Dioxide (PAA-TiO<sub>2</sub>) Composite**  
ŞENOL ARSLAN D., HASDEMİR Z. M. , ŞİMŞEK S.  
2nd International Conference on Physical Chemistry Functional Materials, 25 - 27 June 2019
- X. **Food dyes adsorption from aqueous solutions by chitosan/vermiculite composite**  
ŞİMŞEK S., HASDEMİR Z. M. , GÜR SOY N., KARAKUŞ N.  
2nd International Conference on Physical Chemistry Functional Materials (PCFM 2019), 25 - 27 June 2019
- XI. **Adsorption of lead ions in aquatic medium onto chitosan/dolomite composite beads**  
HASDEMİR Z. M. , ŞİMŞEK S.  
2nd International Conference on Physical Chemistry Functional Materials (PCFM 2019), 25 - 27 June 2019
- XII. **PAAm(Ch-Hap) kompozitinin sentezi ve kurşun ve toryum giderimindeki uygulamaları**  
HASDEMİR Z. M. , ULUSOY U.  
V. Ulusal Çevre Kongresi, Turkey, 29 October - 01 November 2018
- XIII. **Poliakrilamid (Kitosan-Kırmızı Çamur) kompozit materyali kullanılarak sulu çözeltiden kurşun ve toryum giderimi**  
HASDEMİR Z. M. , ULUSOY U.  
V. Ulusal Çevre Kongresi, Turkey, 29 October - 01 November 2018
- XIV. **A Novel Polymer/Mineral Composite: Synthesis and Characterization**  
HASDEMİR Z. M. , ŞİMŞEK S., ULUSOY H. İ.  
4th International Symposium on Composite Materials (KOMPEGE 2018), 6 - 08 September 2018
- XV. **Synthesis and Characterization of Polyacrylamide-Vermiculite Composite Adsorbent**  
HASDEMİR Z. M. , ŞİMŞEK S., ULUSOY H. İ.  
4th International Symposium on Composite Materials (KOMPEGE 2018), 6 - 08 September 2018
- XVI. **Removal of Uranium from Aqueous Solution by using Polyacrylamide-Vermiculite Composite**  
HASDEMİR Z. M. , ŞİMŞEK S., ULUSOY H. İ.  
International Trace Analysis Congress (iTAC2018), Sivas, Turkey, 20 - 23 June 2018
- XVII. **Determination of Adsorptive Properties of Polyacrylamide-Dolomite Composite for Removal of Uranium from Aqueous Solution**  
Hasdemir Z. M. , Şimşek S., Ulusoy H. İ.  
International Trace Analysis Congress, Sivas, Turkey, 20 - 23 June 2018
- XVIII. **Removal of Lead ions in aquatic medium by using Chitosan/Vermiculite composite beads**

- HASDEMİR Z. M. , ŞİMŞEK S.  
International Trace Analysis Congress (ITAC), 20 - 23 June 2018
- XIX. **Adsorption of UO<sub>2</sub> onto Polyacrylamide-diatomite composite**  
HASDEMİR Z. M. , ŞİMŞEK S.  
International Trace Analysis Congress (ITAC), 20 - 23 June 2018
- XX. **Synthesis and Characterization of Diatomite Composite Adsorbent**  
ŞİMŞEK S., HASDEMİR Z. M.  
International Conference on Physical Chemistry and Functional Materials (PCFM 2018), 19 - 21 June 2018
- XXI. **Synthesis and Characterization of Polyacrylamide-Diatomite Composite**  
HASDEMİR Z. M. , ŞİMŞEK S.  
International Conference on Physical Chemistry and Functional Materials (PCFM 2018), 19 - 21 June 2018
- XXII. **Investigation of Structural Properties of Chitosan-Vermiculite Composite**  
HASDEMİR Z. M. , ŞİMŞEK S.  
International Conference on Physical Chemistry and Functional Materials (PCFM 2018), 19 - 21 June 2018
- XXIII. **Preparation and Properties of Dolomite Composite**  
ŞİMŞEK S., HASDEMİR Z. M.  
International Conference on Physical Chemistry and Functional Materials (PCFM 2018), 19 - 21 June 2018
- XXIV. **Chelating Agent Grafted hydrogel for effective removal of uranyl ions**  
HASDEMİR Z. M. , ŞİMŞEK S., ULUSOY H. İ.  
International congress of Health and Environment, 23 - 25 October 2017
- XXV. **Removal of Cationic dye in aquatic medium by using a new composite material**  
Hasdemir Z. M. , Şimşek S.  
International Congress of Health and Environment, Adana, Turkey, 23 - 25 October 2017
- XXVI. **Chelating agent grafted hydrogel for effective removal of uranyl ions**  
HASDEMİR Z. M. , ŞİMŞEK S., ULUSOY H. İ.  
International Congress of Health and Environment, 23 - 25 October 2017
- XXVII. **Synthesis of Chitosan-vermiculite composite beads and Its Application for Uranly Removal**  
HASDEMİR Z. M. , ŞİMŞEK S.  
III. International Porous Powder Materials, 12 - 15 September 2017
- XXVIII. **Synthesis of PAA XB composite and its application in uranyl removal**  
HASDEMİR Z. M. , ŞİMŞEK S., ULUSOY H. İ.  
IX. INTERNATIONAL WORKSHOP ON NUCLEAR STRUCTURE PROPERTIES, 1 - 03 September 2016
- XXIX. **Poliakrilamit Kırmızı Çamur Kompozitlerinin Sentezi ve Karakterizasyonu**  
ŞENOL Z. M. , BAYBAŞ D., ULUSOY U.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XXX. **Poliakrilamit kırmızı çamur kompozitinin sentezi ve karakterizasyonu**  
ŞENOL Z. M. , BAYBAŞ D., ULUSOY U.  
XXVII. Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015
- XXXI. **Polietilen Hidroksiapatit Kil Nanokompozitlerinin Hazırlanması ve Karakterizasyonu**  
EJDER KORUCU M., ŞENOL Z. M.  
V. Fiziksel Kimya Kongresi, Turkey, 19 - 22 May 2015
- XXXII. **Poliakrilamit kitosan hidroksiapatit kompozitinin sentezi ve karakterizasyonu**  
ŞENOL Z. M. , ULUSOY U.  
V. Fiziksel Kimya Kongresi, Turkey, 19 - 22 May 2015
- XXXIII. **Poliakrilamit kitosan hidroksiapatit kompozitinin şişme özelliğinin araştırılması**  
HASDEMİR Z. M. , ULUSOY U.  
V. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Turkey, 1 - 04 September 2014
- XXXIV. **Poliakrilamid bentonit zeolit kompozitlerine Tl ve Tl<sub>3</sub> adsorpsiyonunun izotop Tl 201 seyreltme yöntemiyle araştırılması**  
HASDEMİR Z. M. , ULUSOY U.  
X. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Turkey, 6 - 09 October 2009

- XXXV. **Poliakrilamid bentonit ve poliakrilamid zeolit kompozitlerine 201Tl radyoizotopu kullanılarak Tl ve Tl3 adsorpsiyonunun araştırılması**  
HASDEMİR Z. M. , ULUSOY U.  
XXII. Ulusal Kimya Kongresi, Turkey, 6 - 10 October 2008
- XXXVI. **Poliakrilamid bentonit ve poliakrilamid zeolit kompozitlerine Tl 201Tl adsorpsiyonunun araştırılması**  
HASDEMİR Z. M.  
XXI. Ulusal Kimya Kongresi, Turkey, 23 - 27 August 2007

## Supported Projects

- Hasdemir Z. M. , Şimşek S., Project Supported by Higher Education Institutions, Liken (*Evernia prunastri*) biyokütlesi kullanılarak sulu çözeltiden kurşun gideriminin araştırılması, 2018 - 2020
- Hasdemir Z. M. , Şimşek S., Project Supported by Higher Education Institutions, Kitosan-diyatomit/dolomit/vermikülit kompozit adsorbanlarının sentezi, karakterizasyonu ve Pb2 için adsorban özelliklerinin araştırılması, 2018 - 2019
- Hasdemir Z. M. , Şimşek S., Project Supported by Higher Education Institutions, Poliakrilamid/diyatomit kompozit adsorbanının sentezi, karakterizasyonu ve uranil iyonu için adsorban özelliklerinin araştırılması, 2017 - 2019

## Scientific Refereeing

- Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, October 2021  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, May 2021  
Cumhuriyet Science Journal, National Scientific Refreed Journal, May 2021  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, February 2021  
JOURNAL OF POLYMERS AND THE ENVIRONMENT, Journal Indexed in SCI-E, January 2021  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, January 2021  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, January 2021  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, December 2020  
POLYMER BULLETIN, Journal Indexed in SCI-E, October 2020  
International Journal of Pure and Applied Sciences, Other Journals, September 2020  
BIOMASS CONVERSION AND BIOREFINERY, Journal Indexed in SCI-E, September 2020  
Academic Platform Journal of Engineering and Science - APJES, Other Journals, August 2020  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, June 2020  
Open Journal of Nano, Other Journals, August 2019  
ACADEMIC PLATFORM-JOURNAL OF ENGINEERING AND SCIENCE, National Scientific Refreed Journal, July 2019  
Cumhuriyet Science Journal, National Scientific Refreed Journal, November 2017

## Citations

Total Citations (WOS):156  
h-index (WOS):7

## Awards

Hasdemir Z. M. , Garanti Bilim Teşvik Ödülü, Fen Bilimleri Dalında Üçüncülük, Garanti Bilim Teşvik Ödülü, February 2012