



# MEHMET ERDEM

## PROF.

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: V-5327-2018

ScopusID: 35866230600

Yoksis Researcher ID: 110141



### Education

Doctorate  
1996 - 2001

Firat University, Institute Of Science, Turkey

Postgraduate  
1993 - 1996

Firat University, Institute Of Science, Turkey

Undergraduate  
1988 - 1992

Firat University, Faculty Of Engineering, Department Of Chemistry Engineering, Turkey

### Dissertations

Doctorate, Removal and stabilization of chromium from aqueous media by ferritization, Firat University, Institute Of Science, 2001

Postgraduate, Cr(VI) Reduction in Wastewaters by Using Pyrite, Firat University, Institute Of Science, 1996

### Academic Titles / Tasks

Professor  
2023 - Continues

Hacettepe University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü

Professor  
2021 - 2023

Cankiri Karatekin University, Faculty Of Engineering, Department Of Chemistry Engineering

Professor  
2012 - 2021

Firat University, Faculty Of Engineering, Department Of Environmental  
Engineering

Associate Professor  
2006 - 2012

Firat University, Faculty Of Engineering, Department Of Environmental  
Engineering

Assistant Professor  
2001 - 2006

Firat University, Faculty Of Engineering, Department Of Environmental  
Engineering

Research Assistant  
1994 - 2001

Firat University, Faculty Of Engineering, Department Of Chemistry Engineering

## Supported Projects

1. Erdem M., Aladağ M., Project Supported by Higher Education Institutions, Lithium Extraction and Lithium Carbonate Production from Boron Wastes Activated by Thermal and Thermochemical Methods, 2019 - 2023
2. Erdem M., Project Supported by Higher Education Institutions, Lithium Recovery from Boron Waste by High Temperature Pressure Leaching, 2021 - 2022
3. Erdem M., Project Supported by Higher Education Institutions, Effect of Freeze-thaw Events on Physico-chemical Properties and Pollutant Release of Zinc Extraction Waste and Stabilized/Solidized Products, 2019 - 2020
4. Erdem M., Project Supported by Higher Education Institutions, Characterization and Pollution Potential Investigation of Boron Industry Wastes , 2019 - 2019
5. Erdem M., Project Supported by Higher Education Institutions, Removal of Some Pharmaceutical Compounds from Aqueous Media with Activated Carbon from Agricultural Waste Mixtures, 2017 - 2018
6. Erdem M., Project Supported by Higher Education Institutions, Arsenic Removal from Aqueous Solutions by Magnetic Activated Carbon Prepared from Almond, Apricot and Peach Kernel Shell Mixtures, 2016 - 2017
7. Erdem M., Project Supported by Higher Education Institutions, Production and Characterization of Activated Carbon from Almond Shell, Apricot and Peach Stones Mixture, 2015 - 2017
8. Erdem M., Project Supported by Higher Education Institutions, Monitoring of Pesticides and Degradation Products in Water and Wastewater, 2015 - 2016
9. Erdem M., Project Supported by Higher Education Institutions, Monitoring of Micropollutants in Aqueous Environments, 2015 - 2016
10. Erdem M., TAGEM Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü Projesi, Determination of Agricultural Pesticide Pollution in Water and Sediment Samples in Karakaya Dam Lake, 2015 - 2015
11. Erdem M., TUBITAK Project, Determination of Reduction and Fragmentation Mechanisms of Pharmaceuticals in Hydrogen and Oxygen Based Membrane Biofilm Reactors, 2012 - 2015
12. Erdem M., Project Supported by Higher Education Institutions, Production and Characterization of Activated Carbon from Wine Production Waste Grape Stalks, 2011 - 2012
13. Erdem M., Project Supported by Higher Education Institutions, Zinc and Lead Recovery from Zinc Extraction Waste Rotary Filter Cake at High Temperature-Pressure Conditions, 2011 - 2012
14. Erdem M., TUBITAK Project, Lead and Zinc Recovery from Rotary Filter Cake Released in Zinc Production, 2010 - 2012
15. Erdem M., TUBITAK Project, Stabilization of Zinc Extraction Waste and Investigation of Its Use as a Construction and Radiation Shielding Material, 2007 - 2009
16. Erdem M., Project Supported by Higher Education Institutions, Environmental Characterization and Stabilization of Ferrochrome Arc Furnace Flue Dusts, 2005 - 2006

17. Erdem M., Project Supported by Higher Education Institutions, Creating the infrastructure for the detailed examination of the elements in environment, 2002 - 2004
18. Erdem M., Project Supported by Higher Education Institutions, Reduction of Cr(VI) in Aqueous Solutions Using Natural Siderite, 2002 - 2004
19. Erdem M., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Evaluation of industrial solid wastes, 1997 - 2002
20. Erdem M., Project Supported by Higher Education Institutions, Removal and Stabilization of Chromium from Aqueous Media by Ferritization, 1998 - 2000
21. Erdem M., Project Supported by Higher Education Institutions, Cr(VI) Reduction in Aqueous Solutions Using Pyrite, 1994 - 1995

#### Published journal articles indexed by SCI, SSCI, and AHCI

1. **Preparation and Characterization of Low-Cost Bio-Sorbent and a Novel Activated Carbon from Agro-Wastes for Efficient Cr(VI) Removal**  
ERDEM M., Oner A.  
WATER AIR AND SOIL POLLUTION, no.5, 2025 (SCI-Expanded)
2. **Overcoming clay structure challenges in lithium recovery from boron waste using high-temperature pressure acid leaching**  
Younes N. N., Turan M. D., Erdem M.  
CANADIAN JOURNAL OF CHEMICAL ENGINEERING, vol.2, no.5, pp.1-13, 2024 (SCI-Expanded)
3. **Effect of log Kow on the degradation of pharmaceutically active compounds in a heterogeneous catalytic persulfate activation system**  
Erdem H., ERDEM M.  
Journal of Environmental Chemical Engineering, vol.12, no.1, 2024 (SCI-Expanded)
4. **Use of activated carbon obtained from waste vine shoots in nickel adsorption in simulated stomach medium**  
Çalışkan Ç. E., Çiftçi H., Çiftçi T., Kariptaş E., ARSLANOĞLU H., ERDEM M.  
Biomass Conversion and Biorefinery, vol.13, no.3, pp.2391-2400, 2023 (SCI-Expanded)
5. **Synthesis and characterization of a novel activated carbon-supported cobalt catalyst from biomass mixture for tetracycline degradation via persulfate activation**  
Erdem H., ERDEM M.  
Biomass Conversion and Biorefinery, vol.12, no.8, pp.3513-3524, 2022 (SCI-Expanded)
6. **Oxidation mechanism of chlortetracycline in a membrane aerated biofilm reactor**  
Aydın E., ERDEM M., Casey E., Hasar H.  
Environmental Technology and Innovation, vol.24, 2021 (SCI-Expanded)
7. **Effect of freezing–thawing cycles on the strength and pollutant leachability of stabilized/solidified metallurgical waste**  
Deniz M. M., ERDEM M.  
Environmental Science and Pollution Research, vol.28, no.35, pp.49014-49031, 2021 (SCI-Expanded)
8. **Etodolac adsorption onto activated carbon prepared by chemical activation and pyrolysis of biomasses mixture**  
Erdem H., Yildiz B., Şahin M., ERDEM M.  
Biomass Conversion and Biorefinery, vol.10, no.4, pp.1153-1165, 2020 (SCI-Expanded)
9. **Iron-Incorporated Activated Carbon Synthesis from Biomass Mixture for Enhanced Arsenic Adsorption**  
Rahman H. L., Erdem H., Sahin M., ERDEM M.  
Water, Air, and Soil Pollution, vol.231, no.1, 2020 (SCI-Expanded)
10. **Synthesis and characterization of high-quality activated carbons from hard-shelled agricultural wastes mixture by zinc chloride activation**

Akçakal Ö., Şahin M., ERDEM M.

Chemical Engineering Communications, vol.206, no.7, pp.888-897, 2019 (SCI-Expanded)

11. **Vine shoots and grape stalks as carbon sources for hydrogen evolution reaction electrocatalyst supports**  
Cardoso J., Šljukić B., ERDEM M., Sequeira C., Santos D.  
Catalysts, vol.8, no.2, 2018 (SCI-Expanded)
12. **Chlortetracycline removal by using hydrogen based membrane biofilm reactor**  
Aydın E., Şahin M., Taşkan E., Hasar H., ERDEM M.  
Journal of Hazardous Materials, vol.320, pp.88-95, 2016 (SCI-Expanded)
13. **Hydrogen-based membrane biofilm reactor for tetracycline removal: biodegradation, transformation products, and microbial community**  
Taşkan B., Hanay Ö., Taşkan E., ERDEM M., Hasar H.  
Environmental Science and Pollution Research, vol.23, no.21, pp.21703-21711, 2016 (SCI-Expanded)
14. **Biobased carbon-supported palladium electrocatalysts for borohydride fuel cells**  
Martins M., Šljukić B., Sequeira C. A., Metin Ö., ERDEM M., Sener T., Santos D. M.  
International Journal of Hydrogen Energy, vol.41, no.25, pp.10914-10922, 2016 (SCI-Expanded)
15. **Preparation and Characterization of a Novel Activated Carbon from Vine Shoots by ZnCl<sub>2</sub> Activation and Investigation of Its Rifampicine Removal Capability**  
ERDEM M., Orhan R., Şahin M., Aydın E.  
Water, Air, and Soil Pollution, vol.227, no.7, 2016 (SCI-Expanded)
16. **Kinetics, thermodynamics, and isotherms studies of Cd(II) adsorption onto grape stalk**  
ERDEM M., Duran H., Şahin M., Ozdemir I.  
Desalination and Water Treatment, vol.54, no.12, pp.3348-3357, 2015 (SCI-Expanded)
17. **Kinetics of Pb and Zn leaching from zinc plant residue by sodium hydroxide**  
ERDEM M., Yurten M.  
Journal of Mining and Metallurgy, Section B: Metallurgy, vol.51, no.1, pp.89-95, 2015 (SCI-Expanded)
18. **Cleaning of high lead-bearing zinc leaching residue by recovery of lead with alkaline leaching**  
Şahin M., ERDEM M.  
Hydrometallurgy, vol.153, pp.170-178, 2015 (SCI-Expanded)
19. **Preparation and characterization of activated carbon from grape stalk by zinc chloride activation**  
Ozdemir I., Şahin M., Orhan R., ERDEM M.  
Fuel Processing Technology, vol.125, pp.200-206, 2014 (SCI-Expanded)
20. **Environmental risk assessment and stabilization/solidification of zinc extraction residue: II. Stabilization/solidification**  
ERDEM M., Özverdi A.  
Hydrometallurgy, vol.105, no.3-4, pp.270-276, 2011 (SCI-Expanded)
21. **A novel shielding material prepared from solid waste containing lead for gamma ray**  
ERDEM M., Baykara O., Dođru M., Kuluöztürk F.  
Radiation Physics and Chemistry, vol.79, no.9, pp.917-922, 2010 (SCI-Expanded)
22. **Environmental risk assessment and stabilization/solidification of zinc extraction residue: I. Environmental risk assessment**  
Özverdi A., ERDEM M.  
Hydrometallurgy, vol.100, no.3-4, pp.103-109, 2010 (SCI-Expanded)
23. **Leaching behavior of pollutants in ferrochrome arc furnace dust and its stabilization/solidification using ferrous sulphate and Portland cement**  
Bulut U., Ozverdi A., ERDEM M.  
Journal of Hazardous Materials, vol.162, no.2-3, pp.893-898, 2009 (SCI-Expanded)
24. **Leaching behavior of chromium in chrome shaving generated in tanning process and its stabilization**  
ERDEM M., Özverdi A.  
Journal of Hazardous Materials, vol.156, no.1-3, pp.51-55, 2008 (SCI-Expanded)
25. **Kinetics and thermodynamics of Cd(II) adsorption onto pyrite and synthetic iron sulphide**

- ERDEM M., Özverdi A.  
Separation and Purification Technology, vol.51, no.3, pp.240-246, 2006 (SCI-Expanded)
26. **Cu<sup>2+</sup>, Cd<sup>2+</sup> and Pb<sup>2+</sup> adsorption from aqueous solutions by pyrite and synthetic iron sulphide**  
Özverdi A., ERDEM M.  
Journal of Hazardous Materials, vol.137, no.1, pp.626-632, 2006 (SCI-Expanded)
27. **Chromium recovery from chrome shaving generated in tanning process**  
ERDEM M.  
Journal of Hazardous Materials, vol.129, no.1-3, pp.143-146, 2006 (SCI-Expanded)
28. **Hexavalent chromium removal by ferrochromium slag**  
ERDEM M., Altundoğan H. S., Turan M. D., Tümen F.  
Journal of Hazardous Materials, vol.126, no.1-3, pp.176-182, 2005 (SCI-Expanded)
29. **Lead adsorption from aqueous solution onto siderite**  
ERDEM M., Özverdi A.  
Separation and Purification Technology, vol.42, no.3, pp.259-264, 2005 (SCI-Expanded)
30. **Cr(VI) reduction in aqueous solutions by siderite**  
ERDEM M., Gür F., Tümen F.  
Journal of Hazardous Materials, vol.113, no.1-3, pp.217-222, 2004 (SCI-Expanded)
31. **Removal of hexavalent chromium by using heat-activated bauxite**  
ERDEM M., Altundoğan H., Tümen F.  
Minerals Engineering, vol.17, no.9-10, pp.1045-1052, 2004 (SCI-Expanded)
32. **Chromium removal from aqueous solution by the ferrite process**  
ERDEM M., Tumen F.  
Journal of Hazardous Materials, vol.109, no.1-3, pp.71-77, 2004 (SCI-Expanded)
33. **A Study on Dissolution Properties of the Sludges from Cr(VI) Reduction-Precipitation Processes**  
ERDEM M., Tümen F.  
Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, vol.39, no.1, pp.253-267, 2004 (SCI-Expanded)
34. **Cr(VI) reduction in aqueous solutions by using copper smelter slag**  
Kiyak B., Özer A., Altundoğan H., ERDEM M., Tümen F.  
Waste Management, vol.19, no.5, pp.333-338, 1999 (SCI-Expanded)
35. **The removal of cr(vi) from aqueous solutions using zinc extraction residue**  
Günaydin F., Özer A., Altundogan H., ERDEM M., Tümen F.  
Environmental Technology (United Kingdom), vol.20, no.4, pp.405-411, 1999 (SCI-Expanded)
36. **Study on the Cr(VI) removal from aqueous solutions by steel wool**  
Özer A., Altundoğan H., ERDEM M., Tümen F.  
Environmental Pollution, vol.97, no.1-2, pp.107-112, 1997 (SCI-Expanded)

## Articles Published in Other Journals

1. **Lithium Recovery from Thermally Activated Carbonate-hosted Clay-type Boron Production Waste with Water Leaching**  
Aladağ M., Erdem M.  
Karadeniz Fen Bilimleri Dergisi, vol.14, no.33, pp.1141-1158, 2024 (Peer-Reviewed Journal)
2. **Kimyasal Çöktürme Yöntemiyle Persülfat Aktivasyonu için Aktif Karbon Destekli Demir ve Kobalt Bazlı Katalizör Sentezi ve Eritromisin Degradasyonu için Uygulaması**  
ERDEM H., ERDEM M.  
Karadeniz Fen Bilimleri Dergisi, vol.13, no.4, pp.1780-1797, 2023 (Peer-Reviewed Journal)
3. **Ciprofloxacin Degradation with Persulfate Activated with the Synergistic Effect of the Activated Carbon and Cobalt Dual Catalyst**  
Erdem H., Erdem M.

- Arabian Journal for Science and Engineering, vol.48, no.7, pp.8401-8415, 2023 (Scopus)
4. **Persulfatın Heterojen Aktivasyonu için Aktif Karbon Destekli Kobalt-Bazlı Katalizör Kullanılarak Fenoprofenin Degradasyonu**  
ERDEM H., ERDEM M.  
Muş Alparslan Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.3, no.2, pp.71-81, 2023 (Peer-Reviewed Journal)
  5. **Üzüm Sapından Hazırlanan Aktif Karbon ile Sulu Çözeltilerden Ni(II)'nin Giderimi**  
ORHAN R., ERDEM M.  
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.29, no.1, pp.319-324, 2017 (Peer-Reviewed Journal)
  6. **Performance of tetracycline removal of O2-based membrane biofilmreactor system**  
TAŞKAN B., HANAY Ö., ERDEM M., TUNÇ M. S., HASAR H.  
Global Journal on Advances in Pure Applied Sciences, vol.3, pp.84-89, 2014 (Peer-Reviewed Journal)
  7. **Ferrit İşlemiyle Sepileme Atıksuyundan Krom Giderimi**  
ERDEM M., BULUT Ü.  
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi, 2008 (Peer-Reviewed Journal)
  8. **Heavy Metal Pollution Potential of Zinc Leach Residues Discarded in Çinkur Plant**  
ALTUNDOĞAN H. S., ERDEM M., ORHAN R., ÖZER A., TÜMEN F.  
Tr. J. Of Engineering and Environmental Sciences, vol.22, pp.167-177, 1998 (Scopus)
  9. **Pirit Kullanılarak Sulu Çözeltilerde Cr(VI) İndirgenmesi**  
ERDEM M., TÜMEN F.  
Tr. J. Of Engineering and Environmental Sciences, vol.20, pp.363-369, 1996 (Scopus)

## Papers Published in Refereed Scientific Meetings

1. **EFFECT OF REPRODUCIBLE IRRADIATION ON BORON AND GADOLINIUM-DOPED COMPOSITES**  
Yakışık Z. B., Yıldırım ., Erbay O., Erdem M., Reyhancan I. A., Kamışlıoğlu M.  
22nd International Symposium on Boron, Borids and related Materials, İstanbul, Turkey, 8 - 12 September 2024, pp.37
2. **Lithium Leaching from Thermally Activated Boron Production Waste**  
ALADAĞ M., ERDEM M.  
World Congress on Green Chemistry and Green Engineering, WCGCGE-23 / 28.07.2023, 28th July 2023, Madrid, Spain, Madrid, Spain, 28 July 2023
3. **Efficient Degradation of Fenoprofen from Aquatic Environments Using an Activated Carbon-Supported Iron-Based Catalyst**  
ERDEM H., ERDEM M.  
CIEA 2021 II. International Conference on Innovative Engineering Applications, Muş, Turkey, 20 - 22 May 2021
4. **Tetracycline Degradation by Persulfate Activation Using an Efficient Heterogeneous Catalyst**  
ERDEM H., ERDEM M.  
CIEA 2021 II. International Conference on Innovative Engineering Applications, Muş Alparslan University, Muş, Turkey, May 20-22., Muş, Turkey, 20 - 22 May 2021
5. **Preparation and Characteristics of Activated Carbon Supported Fe-Based Catalyst from Biomass Mixture**  
ERDEM H., ERDEM M.  
5th International Conference on Environmental Science and Technology (ICOEST-2019), Sarajevo, Bosnia And Herzegovina, 9 - 13 October 2019, pp.29-35
6. **ZINC AND LEAD RECOVERY FROM ZINC EXTRACTION RESIDUE BY TWO-STAGE SELECTIVE HIGH TEMPERATURE-PRESSURE LEACHING**  
ŞAHİN M., ERDEM M.  
2nd Cilicia International Symposium on Engineering and Technology, 10 - 12 October 2019
7. **IMMOBILIZATION OF METALLIC POLLUTANTS IN ZINC EXTRACTION RESIDUE BY USING PORTLAND**

## CEMENT AND SOME CHEMICAL ADDITIVES

ERDEM M.

International Symposium on Advanced Engineering Technologies (ISADET 2019), 2 - 04 May 2019

8. **Tarımsal Atık Karışımlarından Elde Edilen Yeni Bir Aktif Karbonla Sulu Ortamlardan Tetrasiklin Giderimi**  
HARPUTLUGİL L., ŞAHİN M., ERDEM H., ERDEM M.  
International Symposium on Urban Water and Wastewater Management, Pamukkale, Denizli, Turkey, 25 October - 27 December 2018
9. **Sulu Ortamlarda Bulunan Parasetamolun Stres Şartları Altında Degredasyonu**  
ŞAHİN M., ERDEM H., ERDEM M.  
International Symposium on Urban Water and Wastewater Management, Pamukkale, Denizli, Turkey, 25 October - 27 December 2018
10. **Tarımsal Atık Esaslı Yeni Bir Aktif Karbonla Sulu Ortamlardan Amoksisilin Giderimi**  
HARPUTLUGİL L., ŞAHİN M., ERDEM H., ERDEM M.  
I. Uluslararası Battalgazi Multidisipliner Çalışmalar Kongresi, Malatya, Turkey, 7 - 09 December 2018
11. **Asma Dalından Elde Edilen Yeni Bir Aktif Karbon Kullanılarak Çinkonun Zenginleştirilme Şartlarının Araştırılması,**  
ER ÇALIŞKAN Ç., ÇİFTÇİ H., KAYA S., ÇAKIRER O., ERDEM M.  
ITAC, Sivas, Turkey, 20 - 23 June 2018
12. **Gamma-rays Shielding Behavior of a Novel Composite Material Prepared from Different Minerals and Paraffin**  
AKKAŞ A., ŞİMŞEK V., GÜNGÖR E., ERİŞ K., ERDEM M.  
The International Advanced Technologies Symposium (IATS17), 19 - 21 October 2017
13. **Activated Carbon Production from a Biomass Mixture by FeSO<sub>4</sub> Chemical Activation and Its Characterization**  
AKÇAKAL Ö., ERDEM M.  
3rd International Turkic World Conference on Chemical Sciences and Technologies (ITWCCST 2017), 10 - 13 September 2017
14. **Platinum-free electrocatalysts for borohydride fuel cells**  
Martins M., Sljukic B., METİN Ö., KAYAN E., ERDEM M., SEQUEIRA C., ŞENER T., SANTOS D.  
6th Symposium on Hydrogen, Fuel Cells and Advanced Batteries, Porto, June 19th-23rd 2017, 19 - 23 June 2017
15. **Arsenic Removal from Aqueous Solution by Using Magnetic Activated Carbon Prepared from the Mixture of Almond Shell, Apricot and Peach Stones by Chemical Activation**  
RAHMAN H. L., ERDEM H., AKÇAKAL Ö., ŞAHİN M., ERDEM M.  
International Conference on Advances and Innovations in Engineering (ICAIE), Elazığ, Turkey, 10 - 12 May 2017
16. **Pb(II) Adsorption from Aqueous Solution by Low Cost Agro-Based Adsorbent – Grape Stalk**  
ERDEM M., DURAN H.  
International Conference on Advances and Innovations in Engineering (ICAIE), 10 - 12 May 2017
17. **Lead and Zinc Leaching with NaOH and FeCl<sub>3</sub> from Zinc Extraction Residue under High Air Pressure**  
ŞAHİN M., ERDEM M.  
2nd INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, 8 - 10 May 2017
18. **Magnetic Activated Carbon Preparation from the Mixture of Almond Shell, Apricot and Peach Stones by Chemical Activation**  
ERDEM H., AKÇAKAL Ö., ERDEM M.  
2nd International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 8 - 10 May 2017
19. **MONITORING SOME TYPES OF PESTICIDES IN SURFACE SEDIMENTS OF KARAKAYA DAM LAKE**  
ARISOY G., ERDEM M., ŞAHİN M., ÖRNEKÇİ N., KÜÇÜKYILMAZ M., ALPASLAN K.  
International Symposium on Fisheries and Aquatic Sciences, 3 - 05 November 2016
20. **Investigation on Fate of Some Pharmaceuticals in the Malatya Wastewater Treatment Plant**  
ERDEM M., ŞAHİN M.  
International Symposium of Water and Wastewater Management, 26 - 28 October 2016, vol.1128

21. **Monitoring of Organophosphate Pesticide Pollution in Karakaya Dam Lake**  
ariso y g., ERDEM M., ŞAHİN M., Örnekçi N., Küçükyılmaz M., Alpaslan k.  
International Symposium of Water and Wastewater Management (ISWWM), 26 - 28 October 2016, vol.1065
22. **Atmospheric and High temperature FeCl<sub>3</sub> Leaching of Zn from Zinc Plant Residue**  
ERDEM M., ŞAHİN M.  
The 2nd International Turkic World Conference on Chemical Sciences and Technologies, 26 - 30 October 2016
23. **Preparation and Characterization of a Novel Activated Carbon from Vine Shoots by Chemical Activation**  
ERDEM M., ORHAN R., ŞAHİN M., aydın e.  
The 2nd International Turkic World Conference on Chemical Sciences and Technologies, 26 - 29 October 2016
24. **Ni II Removal from Aqueous Solutions by Activated Carbon Prepared from Grape Stalk**  
ORHAN R., ERDEM M.  
The 2nd International Turkic World Conference on Chemical Sciences and Technologies, 26 - 30 October 2016
25. **Optimization of Separation Parameters on Nickel II Ions on Activated Carbon from Vine Shoots**  
ER ÇALIŞKAN Ç., ÇİFTÇİ H., KIRAY E., KARİPTAŞ E., YETİŞ M., ERDEM M.  
1st International Black Sea Congress on Environmental Sciences, 31 August - 03 September 2016
26. **USING OF A NEW ACTIVATED CARBON PRODUCED FROM PLANT WASTES FOR SEPARATION PRECONCENTRATION OF Cr VI IONS IN VARIOUS BIOLOGICAL AND ENVIRONMENTAL MATRICES**  
ÇİFTÇİ H., ER ÇALIŞKAN Ç., KARİPTAŞ E., KIRAY E., ERDEM M.  
1st INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES, 31 August - 03 September 2016
27. **Cr VI Removal from Aqueous Solutions by Activated Carbon Prepared from Grape Stalk**  
ERDEM M., ŞAHİN M., AKÇAKAL Ö., ERDEM H.  
The 1st International Turkic World Conference on Chemical Sciences and Technologies, 27 October - 01 November 2015
28. **Leaching Kinetics of Zn from Zinc Plant Residue by Atmospheric and High temperature H<sub>2</sub>SO<sub>4</sub> Leaching**  
ERDEM M., ŞAHİN M.  
The 1st International Turkic World Conference on Chemical Sciences and Technologies, 27 October - 01 November 2015
29. **AN ANALYTICAL METHOD FOR SEPARATION AND PRECONCENTRATION OF INDIUM IONS ON ACTIVATED CARBON FROM VINE SHOOTS**  
ERDEM M., ÇİFTÇİ H., ER Ç., ESİN K., ERGİN K., CETİN A., ÇAKIRER O.  
1st International Conference on Engineering and Natural Sciences, 15 - 19 May 2015
30. **SEPARATION AND PRECONCENTRATION OF SILVER IONS ON ACTIVATED CARBON FROM VINE SHOOTS**  
ERDEM M., ER Ç., ÇİFTÇİ H., KIRAY E., ERGİN K., AHMET C., ORHAN C.  
1st International Conference on Engineering and Natural Sciences, 15 - 19 May 2015
31. **Simultaneous Removal of Chlortetracycline and Nitrate in the H<sub>2</sub> Based MBfR**  
ERDEM M., ŞAHİN M., AYDIN E., HASAR H.  
IICBE 2015 International Conference Program, 18 - 19 March 2015
32. **Selective leaching of blended copper slag**  
ERDEM M., SARI Z. A., TURAN M. D.  
The XVI Balkan Mineral Processing Congress, 17 - 19 June 2015
33. **Performance of tetracycline removal of O<sub>2</sub>-based membrane biofilm reactor system**  
TAŞKAN B., HANAY Ö., ERDEM M., TUNÇ M. S., HASAR H.  
2nd Global Conference on Environmental Studies (CENVISU-2014), 9 - 10 April 2014

## Academic and Administrative Experience

2021 - 2023

Vice Rector

Cankiri Karatekin University



2021 - 2023	<b>Head of Department</b>	Cankiri Karatekin University, Faculty Of Engineering, Department Of Chemistry Engineering
2021 - 2023	<b>Dean</b>	Cankiri Karatekin University, Faculty Of Engineering
2014 - 2021	<b>Head of Department</b>	Firat University, Faculty Of Engineering, Department Of Environmental Engineering
2009 - 2012	<b>Rector's Advisor</b>	Firat University
2008 - 2009	<b>BAP Coordinator</b>	Firat University

## Patent

Erdem M., Radiation shielding panel construction method from metallurgical wastes, Patent, CHAPTER G Physics, The Invention Registration Number: TR 2015 01972 B , Standard Registration, 2017

## Activities in Scientific Journals

Journal of Hazardous Materials, Committee Member, 2005 - Continues

## Research Areas

Environmental Sciences, Environmental Chemistry, Waste Water Collection and Treatment, Environmental Management, Industrial and Hazardous Waste Management, Solid Waste Engineering and Management, Pollution Prevention and Waste Reduction, Water Pollution and Control