



## Assoc. Prof. ŞEFİKA KAYA

### Personal Information

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### International Researcher IDs

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Yoksis Researcher ID: 171784



### Education Information

2012 - 2018	Doctorate, Eskişehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Dr), Turkey
2009 - 2012	Postgraduate, Eskişehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Y) (Tezli), Turkey
2005 - 2009	Undergraduate, Eskişehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Kimya Mühendisliği Bölümü, Turkey
2004 - 2008	Undergraduate, Eskişehir Osmangazi University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey

### Dissertations

2018	İleri oksidasyon prosesleri ile endüstriyel atıksuların arıtılması, Eskişehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Dr), Doctorate
2012	İyon değişimi yöntemiyle sulu çözeltilerden Co(II) gideriminin incelenmesi, Eskişehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Y) (Tezli), Postgraduate

### Research Areas

Chemical Engineering and Technology, Engineering and Technology

### Academic Titles / Tasks

2022 - Continues	Assistant Professor, Eskişehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ
2016 - 2022	Research Assistant, Eskişehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ
2009 - 2016	Research Assistant, Eskişehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fen Bil.Enst.Md.Lüğü

### Academic and Administrative Experience

## Courses

2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020	Kimya Mühendisliği Laboratuvarı II, Undergraduate
2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020	Kimya Mühendisliği Laboratuvarı III, Undergraduate
2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019	Kalite Yönetimi, Undergraduate
2024 - 2025	Seminer, Postgraduate
2023 - 2024, 2022 - 2023	Kimya Mühendisliğinde Tasarım II, Undergraduate
2024 - 2025, 2023 - 2024, 2022 - 2023	Mühendislik Araştırmalarına Hazırlık, Undergraduate
2024 - 2025, 2023 - 2024, 2022 - 2023	Kimya Mühendisliğinde Tasarım I, Undergraduate
2023 - 2024, 2022 - 2023	Yakıt Pili Teknolojileri Araştırmaları, Undergraduate
2024 - 2025, 2023 - 2024	Yakıt Pili Katalizörleri, Postgraduate
2021 - 2022	Kimya Mühendisliği Laboratuvarı I, Undergraduate

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

- I. **Enhanced performance of CNT supported bimetallic PdM (M=Cr, Ta, Bi, Hf) catalysts as anode electrode for ammonia borane electrooxidation**  
Kaya Ş., Çağlar A., Demir Kıvrak H.  
Process Safety and Environmental Protection, vol.191, pp.1896-1904, 2024 (SCI-Expanded)
- II. **Constructing HNT-AC Supported CoNi Nanoparticles for Hydrogen Generation toward NaBH<sub>4</sub> Hydrolysis: Optimization with RSM-CCD**  
Ecer U., Yılmaz Ş., Ulaş B., KAYA Ş.  
Catalysis Letters, vol.154, no.10, pp.5472-5486, 2024 (SCI-Expanded)
- III. **Enhanced catalytic performance of Pd/PMAc-g-CNT composite for water splitting and supercapacitor applications**  
Hansu T. A., Kaya Ş., Çağlar A., Akdemir M., Demir Kıvrak H., Orak C., Horoz S., Kaya M.  
Ionics, vol.30, no.9, pp.5513-5524, 2024 (SCI-Expanded)
- IV. **Investigation of electrooxidation and methanolysis of sodium borohydride on activated carbon supported Co catalysts from poplar sawdust**  
Çağlar A., Kaya Ş., Saka C., Yıldız D., Demir Kıvrak H.  
International Journal of Hydrogen Energy, vol.75, pp.171-178, 2024 (SCI-Expanded)
- V. **Synthesis and Characterization of Polymer Particles as Metal-Free Catalysts for Electrooxidation and Methanolysis of Sodium Borohydride**

Gokkus K., Kaya Ş., Yıldız D., Saka C., Gür M., Bütün V., Demir Kıvrak H.

ChemistrySelect, vol.9, no.26, 2024 (SCI-Expanded)

- VI. **Design of highly effective organic catalyst for hydrazine electrooxidation: Iodobenzo[b]furan derivatives**  
Najri B. A., Kaya Ş., Kavak E., Kıvrak A., Demir Kıvrak H.  
Process Safety and Environmental Protection, vol.187, pp.792-798, 2024 (SCI-Expanded)
- VII. **Activated carbon from waste fabrics as a catalyst for NaBH<sub>4</sub> methanolysis**  
Yıldız D., Sarıboğa E., Altınay B. S., Denktaş D., Şirin G., Altun Ş. N., Kaya Ş., Kıvrak H. D., Korkmaz N.  
Process Safety and Environmental Protection, vol.185, pp.831-838, 2024 (SCI-Expanded)
- VIII. **Exploring the Triple Applications of Ag/PMac-g-CNT Nanocomposites in Enhancing HER, OER and Supercapacitor Performance**  
Kaya Ş., Çağlar A., Akdemir M., Demir Kıvrak H., Horoz S., Kaya M.  
Waste and Biomass Valorization, vol.15, no.5, pp.2781-2792, 2024 (SCI-Expanded)
- IX. **Novel Ti<sub>3</sub>C<sub>2</sub>X<sub>2</sub> MXene supported BaMnO<sub>3</sub> nanoparticles as hydrazine electrooxidation catalysts**  
Ulaş B., ÇETİN T., KAYA Ş., Akınay Y., DEMİR KIVRAK H.  
International Journal of Hydrogen Energy, vol.58, pp.726-736, 2024 (SCI-Expanded)
- X. **Methanolysis and electrooxidation of sodium borohydride on CNT supported Pd and Au bimetallic catalysts**  
KAYA Ş., Çağlar A., Saka C., DEMİR KIVRAK H.  
Journal of Electroanalytical Chemistry, vol.956, 2024 (SCI-Expanded)
- XI. **Waste ceramic frit as novel catalyst triggering sodium borohydride methanolysis reaction**  
Rüzgar D., YILDIZ D., KAYA Ş., Martinez J. v., Yeşilbursa G., DEMİR KIVRAK H.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.56, pp.1038-1048, 2024 (SCI-Expanded)
- XII. **Enhanced Photocatalytic Hydrogen Production on Cd-, Te-, Se-, and S-Doped Titanium Dioxide Catalysts**  
KAYA Ş., Saka C., Çağlar A., Kaya M., DEMİR KIVRAK H.  
Journal of Electronic Materials, vol.52, no.12, pp.8227-8236, 2023 (SCI-Expanded)
- XIII. **High-efficiency catalyst for water splitting and supercapacitor applications: the promising role of Ni/PMac-g-CNT**  
Çağlar A., KAYA Ş., Hansu T. A., Akdemir M., DEMİR KIVRAK H., Horoz S., Kaya M.  
IONICS, vol.29, no.10, pp.4147-4157, 2023 (SCI-Expanded)
- XIV. **Enhanced hydrogen production via methanolysis and energy storage on novel poplar sawdust-based biomass-derived activated carbon catalyst**  
KAYA Ş., Saka C., YILDIZ D., EROL S., Ulaş B., Demir I., DEMİR KIVRAK H.  
JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.53, no.8, pp.1643-1655, 2023 (SCI-Expanded)
- XV. **A novel hazelnutt bagasse based activated carbon as sodium borohydride methanolysis and electrooxidation catalyst**  
Saka C., Yıldız D., Kaya Ş., Çağlar A., Elitok D., Yaylı E., Kaya M., Atelge R., Demir Kıvrak H.  
International Journal of Hydrogen Energy, vol.48, no.65, pp.25339-25353, 2023 (SCI-Expanded)
- XVI. **Synthesis, characterization and 1-propanol electrooxidation application of carbon nanotube supported bimetallic catalysts**  
KAYA Ş.  
International Journal of Hydrogen Energy, vol.48, no.48, pp.18398-18404, 2023 (SCI-Expanded)
- XVII. **Characterization and electrooxidation activity of ternary metal catalysts containing Au, Ga, and Ir for enhanced direct borohydride fuel cells**  
Çağlar A., KAYA Ş., DEMİR KIVRAK H.  
Journal of Applied Electrochemistry, vol.53, no.6, pp.1207-1218, 2023 (SCI-Expanded)
- XVIII. **Electrooxidation of 1-Propanol on carbon nanotube supported Au@PtBi anode catalyst under alkaline condition**  
Kaya Ş.  
MATERIALS CHEMISTRY AND PHYSICS, vol.300, pp.127563-127569, 2023 (SCI-Expanded)

- XIX. **CNT-Supported Multi-Metallic (Ga@PdAgCo) Anode Catalysts: Synthesis, Characterization, and Glucose Electrooxidation Application**  
KAYA Ş., Caglar A., DEMİR KIVRAK H.  
JOURNAL OF ELECTRONIC MATERIALS, vol.52, no.2, pp.887-895, 2023 (SCI-Expanded)
- XX. **Carbon nanotube supported Ga@PdAgCo anode catalysts for hydrazine electrooxidation in alkaline media**  
KAYA Ş., Caglar A., DEMİR KIVRAK H.  
FUEL, vol.324, 2022 (SCI-Expanded)
- XXI. **Glucose electrooxidation modelling studies on carbon nanotube supported Pd catalyst with response surface methodology and density functional theory**  
KAYA Ş., Ulaş B., Duzenli D., ÖNAL I., Er O. F., Yilmaz Y., Tezsevin I., DEMİR KIVRAK H.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.168, 2022 (SCI-Expanded)
- XXII. **Benzotiyofen@Pd as an efficient and stable catalyst for the electrocatalytic oxidation of hydrazine**  
Kaya Ş., Ozok-Arici Ö., Kıvrak A., Caglar A., Kıvrak H.  
FUEL, vol.328, no.125355, pp.1-7, 2022 (SCI-Expanded)
- XXIII. **Optimization of Electrode Preparation Conditions for Enhanced Glucose Electrooxidation on Pt/CNT by Response Surface Methodology**  
KAYA Ş., Ulaş B., Er O. F., Yilmaz Y., DEMİR KIVRAK H.  
JOURNAL OF ELECTRONIC MATERIALS, vol.51, no.6, pp.2971-2981, 2022 (SCI-Expanded)
- XXIV. **Glucose Electrooxidation Study on 3-iodo-2-(aryl/alkyl)benzo[b]thiophene Organic Catalyst**  
Ozok-Arici Ö., KAYA Ş., Caglar A., DEMİR KIVRAK H., KIVRAK A.  
JOURNAL OF ELECTRONIC MATERIALS, vol.51, no.4, pp.1653-1662, 2022 (SCI-Expanded)
- XXV. **Heterogeneous Fenton process with Fe(III) based catalyst for treatment of textile industry wastewater**  
Kaya Ş., Aşçı Y.  
INDIAN JOURNAL OF CHEMICAL TECHNOLOGY, vol.29, no.2, pp.166-173, 2022 (SCI-Expanded)
- XXVI. **Highly Active RuPd Bimetallic Catalysts for Sodium Borohydride Electrooxidation and Hydrolysis**  
KAYA Ş., Yilmaz Y., Er O. F., Alpaslan D., Ulaş B., Dudu T. E., DEMİR KIVRAK H.  
JOURNAL OF ELECTRONIC MATERIALS, vol.51, no.1, pp.403-411, 2022 (SCI-Expanded)
- XXVII. **Application of heterogeneous Fenton processes using Fe(III)/MnO<sub>2</sub> and Fe(III)/SnO<sub>2</sub> catalysts in the treatment of sunflower oil industrial wastewater**  
KAYA Ş., AŞÇI Y.  
DESALINATION AND WATER TREATMENT, vol.171, pp.302-313, 2019 (SCI-Expanded)
- XXVIII. **Sorption of cobalt(II) from an aqueous medium using Amberlite 200C and Dowex 88 resins: Equilibrium and kinetic studies**  
Asci Y., Kaya Ş.  
DESALINATION AND WATER TREATMENT, vol.57, no.28, pp.13091-13105, 2016 (SCI-Expanded)
- XXIX. **Removal of cobalt ions from water by ion-exchange method**  
AŞÇI Y., KAYA Ş.  
DESALINATION AND WATER TREATMENT, vol.52, pp.267-273, 2014 (SCI-Expanded)
- XXX. **Enhanced biosorption of nickel(II) ions by silica-gel-immobilized waste biomass: Biosorption characteristics in batch and dynamic flow mode**  
AKAR T., Kaynak Z., Ulusoy Ş., Yuvaci D., Onari G., AKAR S.  
JOURNAL OF HAZARDOUS MATERIALS, vol.163, pp.1134-1141, 2009 (SCI-Expanded)

## Articles Published in Other Journals

1. **Synthesis of Benzo[b]Thiophene-Based Organic Compounds and Their Hydrazine Electrooxidation Performance as an Anode Catalyst**  
Özok Arıcı Ö., Kaya Ş., Çağlar A., Demir Kıvrak H., Kıvrak A.

Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.32, no.2, pp.1356-1362, 2024 (Peer-Reviewed Journal)

- II. **Investigation of the performance of (4-(3-iodobenzo[b]thiophen-2-yl)-N,N-dimethylaniline as an anode catalyst for glucose electrooxidation**  
Özok Arıcı Ö., Kaya Ş., Çağlar A., Demir Kıvrak H., Kıvrak A.  
Manas Journal of Engineering, vol.11, no.2, pp.216-222, 2023 (Peer-Reviewed Journal)
- III. **Development and application of bimetallic catalysts supported carbon nanotube for 1-propanol electrooxidation**  
Kaya Ş.  
Manas Journal of Engineering, vol.10, no.2, pp.134-140, 2022 (Peer-Reviewed Journal)
- IV. **A REMARKABLE SYNERGIC EFFECT OF POLY (ACRYLIC ACID) HYDROGEL ANCHORED PD CATALYSTS IN FORMIC ACID ELECTROOXIDATION REACTION**  
Khalid S., DEMİR KIVRAK H., ALPASLAN D., KAYA Ş., AKTAŞ N.  
INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE-IJEES, no.4, pp.275-282, 2022 (ESCI)
- V. **Using Iron-Containing Metal Oxide as Catalyst for Heterogeneous Fenton Process in Textile Industry Wastewater**  
DURGUT M., KAYA Ş., AŞÇI Y.  
Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.29, no.1, pp.110-117, 2021 (Peer-Reviewed Journal)
- VI. **Photocatalytic Oxidation and Heterogeneous Fenton Applications with Paper Industry Wastewater**  
KAYA Ş., AŞÇI Y.  
Eskişehir Technical University Journal of Science and and Technology A- Applied Sciences and Engineering, vol.21, no.3, pp.454-463, 2020 (Peer-Reviewed Journal)
- VII. **Evaluation of Color and COD Removal by Fenton and Photo-Fenton Processes from Industrial Paper Wastewater**  
KAYA Ş., AŞÇI Y.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.9, no.3, pp.1539-1550, 2019 (Peer-Reviewed Journal)
- VIII. **Investigation of Color Removal of Sunflower Oil Industrial Wastewater with Fenton Process**  
KAYA Ş., AŞÇI Y.  
International Journal of Engineering Inventions, vol.7, no.5, pp.61-65, 2018 (Peer-Reviewed Journal)

## **Books & Book Chapters**

- I. **Carbon Composites as Metal-Free Catalysts**  
KAYA Ş., ÇAĞLAR A., AVCI HANSU T., ULAŞ B., Khan A., DEMİR KIVRAK H.  
in: Carbon Composite Catalysts, , Editor, Springer, pp.131-169, 2022
- II. **Electrocatalysis Based on Carbon Composite Catalysts**  
ULAŞ B., KAYA Ş., ÇAĞLAR A., ÖZOK Ö., Hama Sharif K., KAVAK E., KIVRAK A., Khan A., DEMİR KIVRAK H.  
in: Carbon Composite Catalysts, , Editor, Springer, pp.371-405, 2022
- III. **Decolorization of Leather Industry Wastewater by Sonocatalytic Fenton**  
KAYA Ş., Balcı C. S., AŞÇI Y.  
in: Architectural and Engineering Research and Practice, , Editor, Livre de Lyon, pp.203-211, 2022
- IV. **Advance Oxidation Process Study of Sugar Industry Wastewater with Clay as a Catalyst**  
KAYA Ş., AŞÇI Y.  
in: Theory and Research in Engineering, , Editor, Gece Publishing, pp.107-118, 2020
- V. **Advanced Oxidation Process to Different Industrial Wastewaters: SonoFenton**  
KAYA Ş., AŞÇI Y.  
in: Academic Studies in Engineering Sciences, , Editor, Livre de Lyon, pp.57-66, 2020
- VI. **Finding Optimum Points in the Treatment of Leather Industry Wastewater with Chemical Treatment Process**

Balcı C. S., Kaya Ş., Aşçı Y.

in: Academic Studies in Engineering, Adnan Hayaloğlu, Abdulrahman Günday, Editor, Gece Publishing, İstanbul, pp.1-13, 2020

- VII. **Application of Combined Ultrasound and Fenton Reagent in Sugar Industry Wastewater Treatment**  
KAYA Ş., AŞÇI Y.  
in: Research Reviews in Engineering-Summer, , Editor, Gece Publishing, pp.273-281, 2019
- VIII. **Using of Photo-Fenton Process for the Removal of COD from Real Wastewater**  
KAYA Ş., AŞÇI Y.  
in: Research Reviews in Engineering, , Editor, Gece Publishing, pp.251-258, 2019
- IX. **Investigation of Sunflower Oil Industrial Wastewater Treatment by Photo-Fenton Process**  
KAYA Ş., AŞÇI Y.  
in: Current Academic Studies in Engineering Sciences, , Editor, Ivpe, pp.869-877, 2018
- X. **Heterogeneous Fenton Process with Fe/SnO<sub>2</sub> Catalyst to Removal Color From Pulp and Paper Industrial Wastewater**  
KAYA Ş., AŞÇI Y.  
in: Current Academic Studies in Engineering Sciences, , Editor, Ivpe, pp.859-868, 2018

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

- I. **Doğrudan Hidrazin Yakıt Pili Sistemlerinde Organik Temelli Katalizörlerin Performanslarının İncelenmesi**  
Kaya Ş., Özok Arıcı Ö., Ulaş B., Kıvrak A., Demir Kıvrak H.  
4. BİLSEL INTERNATIONAL SUMELA SCIENTIFIC RESEARCHES CONGRESS, Trabzon, Turkey, 10 - 11 August 2024, pp.641-647
- II. **Investigation of Electrooxidation and Methanolysis of Sodium Borohydride on Activated Carbon Supported Co Catalysts from Poplar Sawdust**  
ÇAĞLAR A., KAYA Ş., SAKA C., YILDIZ D., DEMİR KIVRAK H.  
7th International Hydrogen Technologies Congress, Elazığ, Turkey, 10 May 2023, pp.71-74
- III. **Synthesis and Electrochemical Applications of Carbon Nanotube Supported Pd-based Anode Catalysts for Direct Methanol Fuel Cell**  
KAYA Ş.  
7th International Hydrogen Technologies Congress, Elazığ, Turkey, 10 May 2023, pp.79-81
- IV. **Methanolysis and Electrooxidation of Sodium Borohydride on CNT Supported Pd and Au Bimetallic Catalysts**  
KAYA Ş., ÇAĞLAR A., SAKA C., DEMİR KIVRAK H.  
7th International Hydrogen Technologies Congress, Elazığ, Turkey, 10 May 2023, pp.75-78
- V. **Comparison of Ammonia Borane Electrooxidation Performances on CNT Supported Pd and PdTa Anode Catalysts**  
KAYA Ş.  
CUKUROVA 10TH INTERNATIONAL SCIENTIFIC RESEARCHES CONFERENCE, Adana, Turkey, 2 - 04 April 2023, pp.340
- VI. **Ayçiçek Yağı Endüstrisi Atıksuyundan Ultrases ile Renk Giderimi**  
Kaya Ş., Aşçı Y.  
EURO ASIA 8th. INTERNATIONAL CONGRESS ON APPLIED SCIENCES, Toskent, Uzbekistan, 15 - 16 March 2021, pp.427-432
- VII. **Tekstil Endüstrisi Atıksuyu Arıtımında Homojen Fenton Prosesi**  
Durgut M., Kaya Ş., Aşçı Y.  
EURO ASIA 8th. INTERNATIONAL CONGRESS ON APPLIED SCIENCES, Toskent, Uzbekistan, 15 - 16 March 2021, pp.441-448
- VIII. **Fe(III) İyonu İçeren MnO<sub>2</sub> Katalizörü ile Endüstriyel Atıksu Arıtımı: Heterojen Fenton**

- KAYA Ş., AŞÇI Y.  
3rd International Eurasian Conference on Biological and Chemical Sciences, 19 - 20 March 2020, pp.58-62
- IX. **SonoFenton ve Ultrases/H<sub>2</sub>O<sub>2</sub> Prosesleri ile Kağıt Endüstrisi Atıksuyundan KOİ Giderimi**  
KAYA Ş., AŞÇI Y.  
3rd International Eurasian Conference on Biological and Chemical Sciences, 19 - 20 March 2020
- X. **Investigation of Oil Wastewater Treatment Using Fe<sub>2</sub> as a Catalyst in Photo-Fenton-Like Systems**  
KAYA Ş., AŞÇI Y.  
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia, 21 - 23 June 2019, pp.218-220
- XI. **Fe(III)/MnO<sub>2</sub> and Fe(III)/SnO<sub>2</sub> Composites as Catalysts for Paper Industry Wastewater Treatment by Heterogeneous Fenton**  
KAYA Ş., AŞÇI Y.  
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia, 21 - 23 June 2019, pp.215-217
- XII. **Foto-Fenton Prosesi İle Tekstil Endüstrisi Atıksuyundan Renk Giderimi**  
KAYA Ş., AŞÇI Y.  
1.Çevre Mühendisliği Kaynak Geri Kazanımı Uluslararası Kongresi, 15 - 16 November 2018, pp.69-74
- XIII. **Şeker Fabrikası Atıksuyunun Fe(III)/MnO<sub>2</sub> Katalizörü Kullanarak Heterojen Fenton Prosesi İle Arıtımı**  
KAYA Ş., AŞÇI Y.  
1.Çevre Mühendisliği Kaynak Geri Kazanımı Uluslararası Kongresi, 15 - 16 November 2018, pp.64-68
- XIV. **Investigation of Color Removal of Sunflower Oil Industrial Wastewater with Fenton Process**  
KAYA Ş., AŞÇI Y.  
International Eurasian Conference on Biological and Chemical Sciences, 26 - 27 April 2018
- XV. **Treatment of Paper and Pulp Industrial Wastewater by Fenton Processes**  
AŞÇI Y., KAYA Ş.  
3rd International Conference on Engineering and Natural Sciences, 3 - 07 May 2017, pp.707
- XVI. **Removal of COD and Color Parameters from Industrial Textile Wastewater by Fenton Process**  
AŞÇI Y., KAYA Ş.  
3rd International Conference on Engineering and Natural Sciences, 3 - 07 May 2017, pp.398
- XVII. **Investigation of the sorption characterists of chromium III ions onto ion exchange resin Dowex 88 Batch and continuous studies**  
Aşçı Y., Kaya Ş.  
Desalination for the Environment:Clean Water and Energy, Rome, Italy, 22 - 26 May 2016
- XVIII. **Amberlite 200 C iyon deęiřtirici reçineye Co II iyonlarının iyon deęiřimi kinetięi**  
AŞÇI Y., KAYA Ş.  
10.Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 3 - 06 September 2012
- XIX. **Removal of Cu<sup>2+</sup> Ions from Aqueous Solutions Using Crosslinked Polyacrylamide PAA Hydrogels**  
Boyuneęmez Z., Kaya Ş., Tümsek F., Şölener M., Kabasakal O. S.  
IUPAC World Polymer Congress MACRO 2012, Blacksburg, Virginia, United States Of America, 24 - 29 June 2012
- XX. **Removal of Cr<sup>III</sup> from water using a strong acid resin on fixed bed column**  
AŞÇI Y., KAYA Ş.  
International Conference on Rcycling and Reuse 2012, İstanbul, Turkey, 4 - 06 June 2012, pp.310
- XXI. **Use of Lewatit MonoPlus SP 112 for the removal of cobalt ions from water**  
AŞÇI Y., KAYA Ş.  
International Conference on Rcycling and Reuse 2012, İstanbul, Turkey, 4 - 06 June 2012, pp.309

## Supported Projects

2024 - Continues

Alkali Su Elektrolizörü İçin Yeni Elektrokatalizörlerin Sentezi Karakterizasyonu ve Uygulaması,  
Project Supported by Higher Education Institutions

2023 - Continues	Yeni Nesil Katalizörlerin Hazırlanması ve Metanoliz ile Hidrojen Üretiminin Araştırılması, Project Supported by Higher Education Institutions
2024 - 2025	Hidrazin Borandan Hidrojen Üretiminde Aktif Karbon Destekli Çekirdek@Kabuk Metal Katalizörlerin Kullanımı, TUBITAK Project
2024 - 2025	TÜBİTAK 1002 Pirazol Temelli Organik Yakıt Pili Anot Katalizörlerinin Tasarımı ve Elektrokimyasal Özellikleriyakıt pili, TUBITAK Project
2023 - 2024	Organik Temelli Katalizörlerin Alkali Yakıt Pili Performanslarının Farklı Membranlar Üzerinde İncelenmesi, Project Supported by Higher Education Institutions
2023 - 2024	SİYANO GRUBU İÇEREN YENİ BENZOFURAN TÜREVLERİNİN SENTEZİ HİDRAZİN VE GLİKOZ YAKIT HÜCRESİ PERFORMANSLARININ BULUNMASI, Project Supported by Higher Education Institutions
2022 - 2024	Metal Destekli Zeolit Katalizörler Üzerinde Biyokütle Pirolozinin Araştırılması, Project Supported by Higher Education Institutions
2022 - 2023	Titanyum dioksit nanotüp destekli CdTe enzimatik glikoz yakıt pili anot katalizörlerin performansının tayini ve cevap yüzey yöntemi ile optimizasyonu, Project Supported by Higher Education Institutions
2022 - 2023	Karbon nanotüp destekli PtBi katalizörü üzerine Au elektrodpozisyonu ve 1-propanol elektrooksidasyon performansının incelenmesi, Project Supported by Higher Education Institutions
2021 - 2022	3-İyodobenzotiyofen Türevlerinin Hidrazin Elektrooksidasyon Uygulamaları ve Yakıt Pili Performansları, Project Supported by Higher Education Institutions
2016 - 2020	Farklı Endüstriyel Atıksuların İleri Oksidasyon Yöntemleriyle Arıtımının İncelenmesi, Project Supported by Higher Education Institutions

## Metrics

Publication: 69  
Citation (WoS): 155  
Citation (Scopus): 267  
H-Index (WoS): 5  
H-Index (Scopus): 7

## Non Academic Experience

2009 - 2009 Sarar Ev Tekstili ve Gömlek Fabrikası