

## Assoc. Prof. ALPAY ŞAHİN

### Personal Information

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### International Researcher IDs

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ScopusID: 26533347200

Yoksis Researcher ID: 132839

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), Turkey 2007 - 2013

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Turkey 2005 - 2007

Undergraduate, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2000 - 2005

### Dissertations

Doctorate, Yakıt hücrelerinde kullanmak üzere nanokompozit membran sentezi ve karakterizasyonu, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), 2013

Postgraduate, Yakıt hücrelerinde kullanmak üzere yüksek sıcaklığa dayanıklı kompozit membran sentezi, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), 2007

### Research Areas

Chemical Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2005 - Continues

### Courses

KM492 Lisans Araştırma Projesi, Undergraduate, 2017 - 2018

KM481 Kimya Mühendisliği Laboratuvarı II (NÖ-03), Undergraduate, 2017 - 2018

KM481 Kimya Mühendisliği Laboratuvarı II, Undergraduate, 2017 - 2018

KM104 Bilgisayar Programlama Dilleri, Undergraduate, 2017 - 2018

KM483 Taşınım Olaylarına Giriş, Undergraduate, 2017 - 2018

KM491 Bitirme Ödevi, Undergraduate, 2017 - 2018

KM306 Matematiksel Modelleme, Undergraduate, 2017 - 2018

KM481 Kimya Mühendisliği Laboratuvarı II (NÖ-01), Undergraduate, 2017 - 2018

KM482 Kimya Mühendisliği Laboratuvarı III (İÖ-02), Undergraduate, 2017 - 2018  
KM482 Kimya Mühendisliği Laboratuvarı III (İÖ-01), Undergraduate, 2017 - 2018  
CHE222 Fluid Mechanics, Undergraduate, 2017 - 2018  
KM482 Kimya Mühendisliği Laboratuvarı III (NÖ-02), Undergraduate, 2017 - 2018  
KM482 Kimya Mühendisliği Laboratuvarı III (NÖ-01), Undergraduate, 2017 - 2018  
CHE471 Chemical Technology, Undergraduate, 2017 - 2018  
CHE377 Numerical Analysis Methods, Undergraduate, 2017 - 2018

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

- I. **Preparation and Characterization of SPEEK–PVA Blend Membrane Additives with Colloidal Silica for Proton Exchange Membrane Fuel Cell**  
YAĞIZATLI Y., Ulaş B., ŞAHİN A., AR İ.  
Journal of Polymers and the Environment, vol.32, no.9, pp.4699-4715, 2024 (SCI-Expanded)
- II. **Synthesized and characterized high-performance and low-cost zirconium phosphate-additive sulfonated polyethersulfone membranes for PEMFC**  
YAĞIZATLI Y., ŞAHİN A., AR İ.  
Polymers for Advanced Technologies, vol.35, no.6, 2024 (SCI-Expanded)
- III. **Fabrication of PVP/sulfonated PES electrospun membranes decorated by sulfonated halloysite nanotubes via electrospinning method and enhanced performance of proton exchange membrane fuel cells**  
Eskitoros-Togay Ş. M., BÜLBÜL Y. E., Cınar Z. K., ŞAHİN A., DİLSİZ N.  
International Journal of Hydrogen Energy, vol.48, no.1, pp.280-290, 2023 (SCI-Expanded)
- IV. **Experimental Investigation of boron phosphate Incorporated speek/pvdf blend membrane for proton exchange membrane fuel cells**  
Çalı A., ŞAHİN A., AR İ.  
International Journal of Hydrogen Energy, vol.47, no.95, pp.40476-40490, 2022 (SCI-Expanded)
- V. **Effect of thermal crosslinking process on membrane structure and PEM fuel cell applications performed with SPEEK-PVA blend membranes**  
YAĞIZATLI Y., ŞAHİN A., AR İ.  
International Journal of Hydrogen Energy, vol.47, no.95, pp.40445-40461, 2022 (SCI-Expanded)
- VI. **Investigation of sulfonation reaction kinetics and effect of sulfonation degree on membrane characteristics for PEMFC performance**  
YAĞIZATLI Y., Ulaş B., ŞAHİN A., AR İ.  
IONICS, vol.28, no.5, pp.2323-2336, 2022 (SCI-Expanded)
- VII. **Highly durable phosphonated graphene oxide doped polyvinylidene fluoride (PVDF) composite membranes**  
Cali A., YAĞIZATLI Y., ŞAHİN A., AR İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.35171-35179, 2020 (SCI-Expanded)
- VIII. **Improved fuel cell properties of Nano-TiO<sub>2</sub> doped Poly(Vinylidene fluoride) and phosphonated Poly(Vinyl alcohol) composite blend membranes for PEM fuel cells**  
Yağızatlı Y., Ulaş B., Cali A., Şahin A., Ar İ.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.35130-35138, 2020 (SCI-Expanded)
- IX. **Incorporating sepiolite and kaolinite to improve the performance of SPEEK composite membranes for proton exchange membrane fuel cells**  
Cali A., ŞAHİN A., AR İ.  
CANADIAN JOURNAL OF CHEMICAL ENGINEERING, vol.98, no.4, pp.892-904, 2020 (SCI-Expanded)
- X. **Improved performance and durability of sulfonated polyether ether ketone/cerium phosphate composite membrane for proton exchange membrane fuel cells**  
ŞAHİN A., TAŞDEMİR H. M., AR İ.

IONICS, vol.25, no.11, pp.5163-5175, 2019 (SCI-Expanded)

- XI. **PRODUCTION OF USEFUL COMPOSITE PARTICLEBOARD FROM WASTE ORANGE PEEL**  
TAŞDEMİR H. M., ŞAHİN A., Karabulut A. F., GÜRÜ M.  
CELLULOSE CHEMISTRY AND TECHNOLOGY, vol.53, pp.517-526, 2019 (SCI-Expanded)
- XII. **Investigation of the properties of composite material produced from mint fiber added waste palm kernel**  
TAŞDEMİR H. M., ŞAHİN A., Karabulut A. F., GÜRÜ M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.1, pp.409-420, 2019 (SCI-Expanded)
- XIII. **The development of Speek/Pva/Teos blend membrane for proton exchange membrane fuel cells**  
ŞAHİN A.  
ELECTROCHIMICA ACTA, vol.271, pp.127-136, 2018 (SCI-Expanded)
- XIV. **Mechanical and Thermal Properties of Particleboard Manufactured from Waste Peachnut Shell with Glass Powder**  
ŞAHİN A., TAŞDEMİR H. M., Karabulut A. F., GÜRÜ M.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.42, no.4, pp.1559-1568, 2017 (SCI-Expanded)
- XV. **Effective diffusion constant and adsorption constant of synthesized alumina, zirconia, and alumina-zirconia composite material**  
ŞAHİN A., Alp E., Eserci D., CABBAR H. C.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.204, no.10, pp.1129-1142, 2017 (SCI-Expanded)
- XVI. **Synthesis, characterization and fuel cell performance tests of boric acid and boron phosphate doped, sulphonated and phosphonated poly(vinyl alcohol) based composite membranes**  
ŞAHİN A., AR İ.  
JOURNAL OF POWER SOURCES, vol.288, pp.426-433, 2015 (SCI-Expanded)
- XVII. **SYMMETRICAL SUPERCAPACITOR APPLICATION WITH LOW ACTIVATED CARBON CONTENT**  
BALBAŞI M., ŞAHİN A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.4, pp.683-692, 2015 (SCI-Expanded)
- XVIII. **SYNTHESIS AND CHARACTERIZATION OF POLYVINYL ALCOHOL BASED AND TITANIUMDIOXIDE DOPED NANOCOMPOSITE MEMBRANE**  
ŞAHİN A., AR İ.  
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.34, no.1, pp.153-162, 2014 (SCI-Expanded)
- XIX. **SYNTHESIS, CHARACTERIZATION AND FUEL CELL PERFORMANCE TESTS OF POLYVINYL ALCOHOL BASED COMPOSITE MEMBRANE WITH CLINOPTILOLITE SUPPORT**  
ŞAHİN A., AR İ.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.28, no.3, pp.513-521, 2013 (SCI-Expanded)
- XX. **SYNTHESIS AND CHARACTERIZATION OF PHOSPHONATED POLY(VINYL ALCOHOL) BASED MEMBRANE WITH SILICA SUPPORT**  
ŞAHİN A., Aktan H., AR İ., BALBAŞI M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.25, no.4, pp.693-699, 2010 (SCI-Expanded)
- XXI. **SYNTHESIS AND CHARACTERIZATION OF SULPHONATED POLYSTYRENE/POLYVINYL ALCOHOL COMPOSITE MEMBRANE WITH BORIC ACID AND BORON PHOSPHATE SUPPORT**  
ŞAHİN A., BALBAŞI M., AR İ.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.24, no.1, pp.137-144, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Electrochemical Performance of Activated Carbon PANI Supercapacitor Composite Electrodes**  
ÖZBAKIŞ M., BALBAŞI M., ŞAHİN A.  
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, no.24, pp.53-58, 2019 (Peer-Reviewed Journal)
- II. **Investigation of Fuel Cell Performance of Proton Exchange Membranes of Boron Phosphate additive PVDF/Nafion Membranes**  
ŞAHİN A.  
Journal of Boron, vol.3, pp.8-16, 2018 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Electrochemical activity of mesoporous carbon supported and unsupported Fe-S and Ni-S catalysts for hydrogen evaluation reaction**  
KAVAKLI M., TAŞDEMİR H. M., ESLEK KOYUNCU D. D., ŞAHİN A.  
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara, Turkey, 11 October 2023, pp.1516
- II. **Effect of Thermal Crosslinking Process on Membrane Structure and PEM Fuel Cell Applications Performed with SPEEK-PVA Blend Membranes**  
Yağızatlı Y., Şahin A., Ar İ.  
3rd International Hydrogen Energy Congress & Exhibitions, Ankara, Turkey, 14 - 16 July 2021, pp.21-28
- III. **Fluoroboric Acid Doped Sulfonated Poly Ether Ether Ketone Proton Exchange Membrane Development for Fuel Cell Applications**  
ÇALI A., Şenol H., ŞAHİN A., AR İ.  
International Conference on Advanced Materials Science Engineering and High Tech Devices Applications Exhibition (ICMATSE 2020), 2 - 04 October 2020
- IV. **High performing and Low Cost Structured Membranes Based on Sulfonated Polyether Sulfone and Zirconium Phosphate for Proton Exchange Membrane Fuel Cell**  
YAĞIZATLI Y., ŞAHİN A., AR İ.  
International Conference on Advanced Materials Science Engineering and High Tech Devices Applications Exhibition (ICMATSE 2020), 2 - 04 October 2020
- V. **High performing and Low Cost Structured Membranes Based on Sulfonated Polyether Sulfone and Zirconium Phosphate for Proton Exchange Membrane Fuel Cell**  
YAĞIZATLI Y., ŞAHİN A., AR İ.  
International Conference on Advanced Materials Science Engineering and High Tech Device Applications (ICMATSE 2020), 2 - 04 October 2020
- VI. **Improved Fuel Cell Properties Of Nano-TiO<sub>2</sub> Doped Polyvinylidene Fluoride and Phosphonated Poly(Vinyl Alcohol) Composite Blend Membranes For PEM Fuel Cells**  
YAĞIZATLI Y., ULAŞ B., ÇALI A., ŞAHİN A., AR İ.  
International Hydrogen Technologies Congress, 20 - 23 September 2019
- VII. **PEM yakıt hücrelerinde kullanılmak üzere PVC bazlı kompozit membran sentezi ve karakterizasyonu**  
SAVAŞLI M., ŞAHİN A., AR İ.  
2nd International Eurasian Conference on Biological and Chemical Sciences, 28 - 29 June 2019
- VIII. **PEM Yakıt pillerinde Kullanılmak Üzere PVC Bazlı Membran Sentezi ve Karakterizasyonu**  
Savaşlı M., ŞAHİN A., AR İ.  
2nd International Euroasian Biological Chemical Sciences, 28 - 29 June 2019
- IX. **Aloe vera bitkisinin kurutulma işlemi ve kuruma eğrilerinin belirlenmesi**  
KILINÇ M. N., ŞAHİN A., ÇETİNKAYA H., AKSOY A., ALATAŞ N., HAFIZOĞLU Y., SERT G., GÜNDÜZ U.  
2nd International Eurasian Conference on Biological and Chemical Sciences, 28 - 29 June 2019
- X. **Fenolün sulu ortamlardan koagülasyon yöntemiyle uzaklaştırılması**

KILINÇ M. N., ŞAHİN A., BARIN A. Y., GÜNDÜZ U.

2nd International Eurasian Conference on Biological and Chemical Sciences, 28 - 29 June 2019

- XI. **High Durable Phosphonated Graphene Oxide Doped Polyvinylidene Fluoride (PVDF) Composite Membranes**  
ÇALI A., YAĞIZATLI Y., ŞAHİN A., AR İ.  
4th International Hydrogen Technologies Congress, 20 - 23 June 2019
- XII. **Highly Durable Phosphonated Graphene Oxide Doped Polyvinylidene Fluoride (PVDF) Composite Membranes**  
Çalı A., YAĞIZATLI Y., ŞAHİN A., AR İ.  
International Hydrogen Technologies Congress, 20 - 23 June 2019
- XIII. **Synthesis, characterization and fuel cell performance tests of nano-TiO<sub>2</sub> doped, polyvinylidene fluoride and phosphonated poly(vinyl alcohol) based blend membranes**  
YAĞIZATLI Y., ULAŞ B., ÇALI A., ŞAHİN A., AR İ.  
4th International Hydrogen Technologies Congress, 20 - 23 June 2019
- XIV. **Improved Fuel Cell Properties of Nano-TiO<sub>2</sub>Doped Polyvinylidene Fluoride and Phosphonated poly(vinyl alcohol) Composite Blend Membranes for PEM Fuel Cells**  
Yağızatlı Y., Çalı A., ULAŞ B., ŞAHİN A., AR İ.  
4th International Hydrogen Technologies Congress, Edirne, Turkey, 20 - 23 June 2019
- XV. **PEM YAKIT PİLLERİ İÇİN BORİK ASİT KATKILI SPEEKPVAKOMPOZİT MEMBRAN GELİŞTİRİLMESİ**  
Karamete T., ŞAHİN A., AR İ.  
International Symposium on Boron, Nevşehir, Turkey, 17 - 19 April 2019, vol.1, pp.790-799
- XVI. **Synthesis of SPEEK-PVA Based Composite Membrane With Boric Acid For PEM Fuel Cells**  
KARAMETE T., ŞAHİN A., AR İ.  
International Bor Symposium BORON 2019, 17 - 19 April 2019
- XVII. **Inorganic Acid Doped Highly Hydroxylated Polymer Based Thin Membrane**  
Radha M. A., ŞAHİN A., PEHLİVAN E., AR İ.  
International Congress on Semiconductor Materials and Devices (ICSMD), Konya, Turkey, 17 - 19 August 2017, vol.18, pp.1888-1895
- XVIII. **"Pem Yakıt Pillerinde Organik/İnorganik Nanokompozit Membran Geliştirilmesi**  
Nuriyev F., ŞAHİN A., AR İ.  
I. Uluslararası Mersin Sempozyumu, 1 - 03 November 2018
- XIX. **Development of Organic/Inorganic Nano-Composite Membrane For PEM Fuel Cells**  
NURİYEV F., ŞAHİN A., AR İ.  
1. International Mersin Symposium, 1 - 03 November 2018
- XX. **Zirkonyum Fosfat katkılı Poliviniliden Florür/Nafyon Bazlı Kompozit Membran Geliştirilmesi**  
ŞAHİN A., AR İ.  
13. Ulusal Kimya Mühendisliği Kongresi, Turkey, 3 - 06 September 2018
- XXI. **Aktif Karbon/PANI süperkapasitör kompozit elektrotlarının elektrokimyasal performansının incelenmesi**  
ÖZBAKIŞ M., BALBAŞI M., ŞAHİN A.  
13. Ulusal Kimya Mühendisliği Kongresi, Turkey, 3 - 06 September 2018
- XXII. **SiO<sub>2</sub> katkılı elektrolitler içinde süperkapasitör açık devre potansiyel davranışlarının incelenmesi**  
ŞAHİN A., BALBAŞI M., YILDIRIM N.  
12. Ulusal Kimya Mühendisliği Kongresi, İzmir, Turkey, 23 - 26 August 2016
- XXIII. **AKTİF KARBON/PANI SÜPERKAPASİTÖR KOMPOZİTELEKTROTLARININ ELEKTROKİMYASAL PERFORMANSININ İNCELENMESİ**  
ÖZBAKIŞ M., BALBAŞI M., ŞAHİN A.  
13. ULUSAL KİMYA MÜHENDİSLİĞİ KONGRESİ, Van, Turkey, 3 - 06 September 2018, pp.109-113
- XXIV. **Synthesis, Characterization of Sepiolite and Kaolinite added, Thermally Crosslinked Sulfonated Poly(Ether Ether Ketone) Inorganic-Organic Composite Membranes For Proton Exchange Membrane Fuel Cell Applications**

- ÇALI A., ŞAHİN A., AR İ.  
16th International Conference on Clean Energy (ICCE-2018), 9 - 11 May 2018
- XXV. **Development of Titanium dioxide doped Polypropylene based composite membrane for proton exchange membrane fuel cell**  
Nuriyev F., ŞAHİN A., AR İ.  
International Congress on Engineering and Life Science, 26 - 29 April 2018
- XXVI. **Investigation of Fuel Cell Performance of Polyvinylidene fluoride/Zirconium Phosphate Composite Membrane**  
ŞAHİN A., Çalı A., AR İ.  
International Eurasian Conference on Biological and Chemical Sciences, 26 - 27 April 2018
- XXVII. **Effect of the Zirconium Phosphate Addition on the Properties of SPEEK based Composite Membrane for Proton Exchange Membrane Fuel Cell**  
ŞAHİN A.  
International Congress on Engineering and Life Science, 26 - 29 April 2018
- XXVIII. **Perlite – Protonated Highly Hydroxylated Polymer Based Composite Membrane for PEM Fuel Cell Application**  
Abdulwheed RADHA M., ŞAHİN A., PEHLİVAN E., AR İ.  
4th International Türk-Pak Conference on Chemical Sciences (ITPCCS 2017), 26 - 28 October 2017
- XXIX. **Protonated and Inorganic Doped Polyvinyl Alcohol Based Composite Membrane for PEM Fuel Cell Application**  
Abdulwheed Radha m., ŞAHİN A., PEHLİVAN E., AR İ.  
International Congress on Semiconductor Materials and Devices, 17 - 19 August 2017
- XXX. **Yüksek Sıcaklık Parametrelili Sülfolanmış Poli-Eter-Eter-Keton (SPEEK) Bazlı Proton Değişim Membranı Sentezi, Karakterizasyonu ve Yakıt Hücresi Performans Testleri**  
Çalı A., ŞAHİN A., AR İ., Çevik N.  
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016
- XXXI. **Organobentonit Sentezi ve Karakterizasyonu**  
Arslan E. G., ŞAHİN A., GÜNDÜZ U.  
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016
- XXXII. **Tarımsal Atıklardan Polimerik Kompozit Yapı Malzemesi Üretimi ve Performans Özelliklerinin İncelenmesi**  
ŞAHİN A., TAŞDEMİR H. M., KARABULUT A. F., GÜRÜ M.  
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016
- XXXIII. **Bentonitin CMC ve Na<sub>2</sub>CO<sub>3</sub>-MGO Kullanılarak Aktifleştirilmesi ve Özelliklerinin İncelenmesi**  
ŞAHİN A., Seyfeli R. C., Yener Ö., GÜNDÜZ U.  
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016
- XXXIV. **SiO<sub>2</sub> Katkılı Elektrolitler İçinde Süperkapasitör Açık Devre Potansiyel Davranışlarının İncelenmesi**  
ŞAHİN A., BALBAŞI M., Yıldırım N.  
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016
- XXXV. **Bentonite Treatment of Bentonite with Na<sub>2</sub>CO<sub>3</sub> and MgO**  
Seyfeli R. C., GÜNDÜZ U., ŞAHİN A.  
European Chemistry Congress, 16 - 18 June 2016
- XXXVI. **Tekstil Atık Sularındaki Boyar Maddelerin Adsorpsiyon Yoluyla Giderilmesi**  
AR İ., ŞAHİN A., Özbey F., Adıgüzel E.  
Ist International Urban Environment Health Congress, 11 - 15 May 2016
- XXXVII. **Sulardaki Co(II) İyonunun Adsorpsiyon Yoluyla Giderilmesi**  
AR İ., Sarı E., ŞAHİN A.  
Ist International Urban Environment Health Congress, 11 - 15 May 2016
- XXXVIII. **Anodic Behaviour of Carbon Supported Ni Co Ni and Co Electrocatalyst in Direct Borohydride Fuel Cell**  
ŞAHİN A., AR İ.

NCC-6 International Catalysis Conference, 27 - 30 April 2016

- XXXIX. **Anodic Behavior of Carbon Supported Ni Co Ni and Co Electrocatalyst in Direct Borohydride Fuel Cell**  
ŞAHİN A., AR İ.  
NCC6-The 6th Catalysis Conference, Bursa, Turkey, 27 - 30 April 2016, vol.1, pp.159
- XL. **Preliminary Results of Na<sub>2</sub>CO<sub>3</sub> Treatment of Çankırı Bentonite**  
UYSAL D., ŞAHİN A., DOĞAN Ö. M., UYSAL B. Z.  
İzmir Institute of Technology, Porous Powder Materials, 15 - 18 September 2015
- XLI. **KÜTAHYA TUNÇBİLEK LİNYİTİNİN VE ATIK ŞLAMIN GAZLAŞTIRILMASI**  
UYSAL D., ŞAHİN A., GENÇ G., DOĞAN Ö. M., UYSAL B. Z.  
20. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 2 - 05 September 2015
- XLII. **FARKLI SAHALARDAN ALINAN KÖMÜR ÖRNEKLERİNİN VE DOĞALGAZIN SABİT GÜÇ ÜRETİMLİ YAKMA SİSTEMLERİNDE KULLANIMI**  
ŞAHİN A., UYSAL D., DOĞAN Ö. M., UYSAL B. Z.  
20. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 2 - 05 September 2015
- XLIII. **Kütahya Tunçbilek Şlam Atıklarının Gazlaştırılmasının Ebsilon Yazılımı ile Simülasyonu**  
UYSAL D., ŞAHİN A., GENÇ G., DOĞAN Ö. M., UYSAL B. Z.  
ULIBTK'15 20. Isı Bilimi ve Tekniği Kongresi, Turkey, 2 - 05 September 2015
- XLIV. **Farklı Yörelere Alınan Kömür Örneklerinin ve Doğalgazın Sabit Güç Üretimli Yakma Sistemlerinde Kullanımı**  
ŞAHİN A., UYSAL D., DOĞAN Ö. M., UYSAL B. Z.  
ULIBTK'15 20. Isı Bilimi ve Tekniği Kongresi, Turkey, 2 - 05 September 2015
- XLV. **Polivinilidin Florid Bazlı TiO<sub>2</sub> Katkılı Polimerik Kompozit Membranların Sentezi Karakterizasyonu ve Yakıt Hücresi Performansı**  
Şahin A.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XLVI. **Polietilen Glikol Su Mono Propilen Glikol Su ve Polietilen Glikol Mono Propilen Glikol Su Sistemlerinin Kinematik Viskozite Değerlerinin Ölçülmesi ve Karşılaştırılması**  
Şahin A.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XLVII. **Kaplama Tekniği Kullanılarak Nafyon Membran Elektrot Düzeneklerinin Yakıt Hücresi Performans Testleri**  
Şahin A.  
5. Fiziksel Kimya Kongresi, Konya, Turkey, 16 - 19 May 2015
- XLVIII. **Polietilen Glikol Su Sistemlerinin Kinematik Viskozite Değerlerinin Ölçülmesi ve Modellenmesi**  
Şahin A.  
5. Fiziksel Kimya Kongresi, Konya, Turkey, 16 - 19 May 2015
- XLIX. **Selülozik Polimerik Kompozit Ahşap Malzemeye Yanmazlık Özelliğinin Kazandırılması**  
ŞAHİN A., KARABULUT A. F., TAŞDEMİR H. M., AYDIN M. Y., GÜRÜ M.  
11. Ulusal Kimya Mühendisliği Kongresi (UKMK-11), Eskişehir, Turkey, 2 - 05 September 2014
- L. **Coating of Composite Membrane Surface With Platin Catalayst by Electroless Plating ELP Technique and Fuel Cell Performance Tests**  
Şahin A.  
5. Ulusal Kataliz Kongresi, Adana, Turkey, 23 - 26 April 2014
- LI. **HZSM-5 KATKILI POLIVINİL ALKOL BAZLI (PVA) KOMPOZİT MEMBRAN SENTEZİ, KARAKTERİZASYONU VE YAKIT HÜCRESI PERFORMANS TESTLERİ**  
AR İ., ŞAHİN A.  
ULIBTK'xx13 19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, vol.33, pp.12
- LII. **Synthesis and characterization of Polyvinyl alcohol based Boron Phosphate doped composite membrane**  
Şahin A.

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- LVI. **HZSM 5 Katalizörünün Asit Sayısının Belirlenmesi**  
Şahin A.  
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Şahin A.  
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## Supported Projects

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