

Prof. İRFAN AR

Personal Information

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), Turkey 1987 - 1992

Post Graduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Yl) (Tezli), Turkey 1984 - 1987

Under Graduate, Middle East Technical University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1980 - 1983

Dissertations

Doctorate, Kireçtaşı-SO₂ Reaksiyonunun Kinetiği Çalışmaları ve Baca Gazındaki SO₂'xxnin Tutulması Amacıyla Sobalara Uygulanması, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Dr), 1992

Post Graduate, Çok bileşenli distilasyon sistemlerinin optimal dizilişinin sentezi, Gazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Yl) (Tezli), 1987

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2008 - Continues

Associate Professor, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2002 - 2008

Assistant Professor, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1994 - 2002

Lecturer, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1992 - 1994

Research Assistant, Gazi University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1984 - 1992

Professional Experience

Head of Department, Gazi University, Fen Bilimleri Enstitüsü, Çevre Bilimleri Anabilim Dalı (Disiplinlerarası), 2012 - 2017

Courses

Hidrojen Teknolojisi, Doctorate, 2019 - 2020

Kimya Mühendisliği Tasarımı 1, Under Graduate, 2017 - 2018

Technology Management, Under Graduate, 2017 - 2018

Yakıt Pili Teknolojisi ve Uygulamaları, Post Graduate, 2016 - 2017, 2017 - 2018

Kimya Mühendisliği Laboratuvarı I, Under Graduate, 2017 - 2018

KM 481 Kimya Mühendisliği Laboratuvarı II, Under Graduate, 2016 - 2017

KM 451 Kimya Mühendisliği Tasarımı I, Under Graduate, 2016 - 2017

KM 492 Lisans Araştırma Projesi, Under Graduate, 2016 - 2017

Advising Theses

AR İ., Borik asit katkılı speek/pva kompozit membranı sentezlenmesi ve karakterizasyon çalışmaları, Post Graduate, T.NUR(Student), 2019

AR İ., Nickel Removal From Wastewater By Using Natural And Treated Adsorbents, Post Graduate, H.YILMAZ(Student), 2018

AR İ., Synthesis and characterizat on of hydrocarbon based nanocomposite membrane for pem fuel cells, Doctorate, M.ABDULWHEED(Student), 2018

AR İ., Pem yakıt pillerinde organik/inorganik nanokompozit membran geliştirilmesi, Post Graduate, F.NURİYEV(Student), 2018

AR İ., Production Of Electricity From Biogas And Hydroelectric Energy In Waste Water Treatment Facilities, Post Graduate, A.GÜNAL(Student), 2018

AR İ., Kömürle çalışan termik santraller için çevresel etki indeksinin geliştirilmesi, Doctorate, A.BARTAN(Student), 2017

AR İ., Synthesis, characterization and fuel cell test of sepiyolite and kaolinite added sulfonated poly (ether ether ketone) composite membrane, Post Graduate, A.ÇALI(Student), 2017

AR İ., Removal Of Lead From Waste Waters By Using Walnut Shell, Post Graduate, C.GÜL(Student), 2017

AR İ., Synthesis and characterization of nano composite membrane for the fuel cells, Doctorate, A.ŞAHİN(Student), 2013

GÜRÜ M., AR İ., Synthesis of sodium borohydride from sodium amide by mechanochemical process, its catalytic dehydrogenation and usage in fuel cells, Post Graduate, Ö.USTA(Student), 2011

BALBAŞI M., AR İ., DEVELOPMENT OF HETEROGENEOUS CATALYSTS FOR BIODIESEL PRODUCTION, Post Graduate, A.BARTAN(Student), 2009

AR İ., SYNTHESIS OF POLYVINYL ALCOHOL BASED COMPOSITE MEMBRANE FOR FUEL CELLS, A.TAŞKIN(Student), 2008

AR İ., Yakıt hücrelerinde kullanılmak üzere polivinil alkol bazlı kompozit membran sentezi, Post Graduate, A.TAŞKIN(Student), 2008

MUTLU S. F. , AR İ., Peyniraltı suyunun anaerobik arıtma çamuru reaktöründe arıtımında en uygun koşulların belirlenmesi, Post Graduate, E.ÖZTÜRK(Student), 2007

AR İ., SYNTHESIS OF HIGH TEMPERATURE RESISTANT MEMBRANE FORTHE FUEL CELLS, Post Graduate, A.ŞAHİN(Student), 2007

AR İ., Borik asit katkılı sülfolanmış polisitiren membranın polimer elektrolit yakıt hücresinde elektrolit olarak kullanılabilirliği, Post Graduate, A.DEMİRCİ(Student), 2006

AR İ., Tavuk gübresinin anaerobik parçalanması için uygun koşulların belirlenmesi, Post Graduate, A.KARATAŞ(Student), 2006

AR İ., Rüzgar, güneş ve jeotermal enerjinin Türkiye koşullarında değerlendirilmesi, Post Graduate, S.YILDIRIM(Student), 2005

GÜRÜ M., AR İ., Magnezyum borhidrür sentezi ve hidrojen çevirimi de kullanımı, Post Graduate, S.KAYA(Student), 2005

AR İ., Yakıt hücrelerinde kullanılmak üzere polisitiren bazlı membran sentezi, Post Graduate, Ü.AKTAŞ(Student), 2005

AR İ., Sülfolanmış polistirenin polimer elektrolit membran yakıt hücresinde elektrolit olarak denemesi, Post Graduate, E.ÖĞÜT(Student), 2005

AR İ., Endüstriyel atıksulardan Cr(VI)'nın adsorpsiyon yoluyla giderilmesi, Post Graduate, M.UYSAL(Student), 2004

AR İ., H₂S gazının tutulması için mangan oksit ve mangan-demir-bakır oksit sorbent geliştirilmesi, Post Graduate, P.ÇAĞLAYAN(Student), 2004

AR İ., Sulardaki Co(II) iyonunun adsorpsiyon yoluyla giderilmesi, Post Graduate, E.SARI(Student), 2003

AR İ., Polimer elektrolit membran yakıt hücresi için dowex reçinesinin ve H-ZSM5 zeolitinin elektrolit olarak denemesi, Post Graduate, O.İLKE(Student), 2001

AR İ., Sulardaki siyanür kirliliğinin dolgulu kolonlarda adsorpsiyon yoluyla giderilmesi, Post Graduate, H.YASLIKAYA(Student), 1999

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

- I. **Improved fuel cell properties of Nano-TiO₂ doped Poly(Vinylidene fluoride) and phosphonated Poly(Vinyl alcohol) composite blend membranes for PEM fuel cells**
YAĞIZATLI Y., Ulaş B., Cali A., ŞAHİN A., AR İ.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.60, pp.35130-35138, 2020 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **Synthesis and characterization of sodium borohydride and a novel catalyst for its dehydrogenation**
AR İ., Guler O. U. , GÜRÜ M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.44, pp.20214-20233, 2018 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **The Effect of Inlet Parameters on Fluid Flow and Cell Performance at Cathode of a Proton Exchange Membrane Fuel Cell**
Gulan U., Turkoglu H., AR İ.
JOURNAL OF FUEL CELL SCIENCE AND TECHNOLOGY, vol.7, no.4, 2010 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Biogas Production From Cow, Horse And Camel Manures With Different Mixture Rates By Anaerobic Fermentation**
Akhmetov N., AR İ.
International Journal On Mathematic Engineering Natural Sciences, vol.12, 2019 (Refereed Journals of Other Institutions)
- II. **Inorganic Acid Doped Highly Hydroxylated Polymer Based Thin Membrane**
Abdulwheed RADHA M., ŞAHİN A., PEHLİVAN E., AR İ.
Materials Today: Proceedings, pp.1888-1895, 2019 (Refereed Journals of Other Institutions)
- III. **An Optimization Example for Electricity Production from Geothermal Sources by using Double Stage System**
MURATHAN A. M. , AR İ., Alıcılar A.
Energy Education Science And Technology, vol.3, no.1, pp.42-45, 1999 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **Recent Advances in Hydrogen Fuel Cell Technologies**
AR İ.
ICMATSE 2020, Ankara, Turkey, 2 - 04 October 2020
- II. **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
- III. **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
- 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 Device Applications (ICMATSE 2020), 2 - 04 October 2020
- V. **Design of A Novel Electrode for Waste Water Treatment in Microbial Fuel Cell**
İkinci Ş. N. , AR İ.
International Congress of Advanced Materials Technologies, Ankara, Turkey, 2 October - 04 February 2020
- VI. **İki Odacıklı Mikrobiyal Yakıt Hücrelerinde Kentsel Atıksu Arıtımı İçin Yeni Anot Geliştirilmesi**
İkinci Ş. N. , AR İ.
10.Uluslararası Avrupa Fen- Matematik- Mühendislik ve Sağlık Bilimleri Kongresi, 14 - 15 December 2019
- VII. **Improved Fuel Cell Properties Of Nano-TiO₂ Doped Polyvinylidene Fluoride and Phosphonated Poly(Vinyl Alcohol) Composite Blend Membranes For PEM Fuel Cells**
YAĞIZATLI Y., ULAŞ B., Çalı A., ŞAHİN A., AR İ.
International Hydrogen Technologies Congress, 20 - 23 September 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. **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

- X. **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
- XI. **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
- XII. **Synthesis, characterization and fuel cell performance tests of nano-TiO₂ 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
- XIII. **Improved Fuel Cell Properties of Nano-TiO₂Doped 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
- XIV. **Synthesis of SPEEK-PVA Based Composite Membrane With Boric Acid For PEM Fuel Cells**
KARAME TE T., ŞAHİN A., AR İ.
International Bor Symposium BORON 2019, 17 - 19 April 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. **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
- XVII. **Development of Organic/Inorganic Nano-Composite Membrane For PEM Fuel Cells**
NURİYE V F., ŞAHİN A., AR İ.
1. International Mersin Symposium, 1 - 03 November 2018
- XVIII. **"Pem Yakıt Pillerinde Organik/İnorganik Nanokompozit Membran Geliştirilmesi**
Nuriyev F., ŞAHİN A., AR İ.
I. Uluslararası Mersin Sempozyumu, 1 - 03 November 2018
- XIX. **"Doğal Ve İşleme Tabi Tutulmuş Adsorbanlar Kullanılarak Atık Sulardan Nikel Giderimi**
Yılmaz H., AR İ.
I. Uluslararası Mersin Sempozyumu, 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. **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
- XXII. **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
- XXIII. **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

- XXIV. **SYNTHESIS and CHARACTERIZATION of SODIUM BOROHYDRIDE from SODIUM AMIDE by MECHANOCHEMICAL REACTION**
AR İ., usta ö., GÜRÜ M.
Int. Advanced researches and Engineering Congress, Osmaniye, Turkey, 16 - 17 November 2017
- XXV. **INVESTIGATION of PERFORMANCE of a NOVEL SYNTHETIC CATALYST in DEHYDROGENATION of SODIUM BOROHYDRIDE**
GÜRÜ M., usta ö., AR İ.
Int. Advanced researches and Engineering Congress, Osmaniye Korkutata Üniversitesi, 16 - 17 November 2017
- XXVI. **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
- XXVII. **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
- XXVIII. **Environmental impact assessment of coal power plants in operation**
Bartan A., KÜÇÜKALİ S., AR İ.
International Conference on Advances in Energy Systems and Environmental Engineering (ASEE), Wroclaw, Poland, 2 - 05 July 2017, vol.22
- XXIX. **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
- XXX. **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
- XXXI. **Sulardaki Co(II) İyonunun Adsorpsiyon Yoluyla Giderilmesi**
AR İ., Sarı E., ŞAHİN A.
Ist International Urban Environment Health Congress, 11 - 15 May 2016
- XXXII. **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
- XXXIII. **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
- XXXIV. **Removal of Lead from Waste Waters by Using Walnut Shell**
Gül C., AR İ.
Green Chemistry and Sustainable Technologies (GCSTI2015), Turkey, 30 September - 03 October 2015
- XXXV. **HZSM-5 KATKILI POLIVINİL ALKOL BAZLI (PVA) KOMPOZIT MEMBRAN SENTEZİ, KARAKTERİZASYONU VE YAKIT HÜCREŞİ 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
- XXXVI. **Synthesis And Characterization of Sulfonated Polystyrene Composite Membranes Support with Amberlyst**
ŞAHİN A., AR İ., ERŞAN K., BALBAŞI M.
I. Polymeric Composites Symposium and Exposition, Turkey, 17 - 19 November 2006
- XXXVII. **Synthesis and Characterization of Composite Membranes in Fuel Cell**

ŞAHİN A., AR İ., ERŞAN K., BALBAŞI M.

I. Polymeric Composites Symposium and Exposition, Turkey, 17 - 19 November 2006

XXXVIII. **Mn-Fe-Cu Karışık Oksiti ile Yüksek Sıcaklık Desülfürizasyonu**

YAŞYERLİ S., AR İ., Gülşen D., Doğu T.

VI. Ulusal Kimya Mühendisliği Kongresi (UKMK-6), Turkey, 7 - 10 September 2004

XXXIX. **Dynamic Analysis of Removal and Conversion of H₂S to Sulfur by Cu-V and Cu-V-Mo Mixed Oxides in a Fixed Bed Reactor**

YAŞYERLİ S., AR İ., Gülşen D., Doğu T.

Fourth International Conference on Unsteady State Processes in Catalysis, 03 October 2003

XL. **Catalytic Oxidation of Hydrogen Sulfide to Sulfur Using Cu-V and Cu-V-Mo Mixed Oxide Catalysts**

YAŞYERLİ S., Gülşen D., Doğu T., AR İ.

Chemical Reactor Engineering: Meeting The Challenges For New Technology, ECI, 04 July 2003

XLI. **Activities Copper Oxide and Cu-V, Cu-Mo Mixed Oxides for H₂S Removal in the Presence and Absence Hydrogen and Predictions of Deactivation Model**

YAŞYERLİ S., Gülşen D., AR İ., Doğu T.

United Engineering Foundation Chem.Reaction Engineering VIII, 01 June 2001

XLII. **Modeling of H₂S Sorption on Copper Based Mixed Oxide Sorbents in a Fixed Bed Reactor**

YAŞYERLİ S., AR İ., Gülşen D., Doğu T.

2nd Chem.Eng.Conf. for Collaborative Research in Eastern Mediterranean (EMCC-II), 04 May 2001

XLIII. **Removal of Hydrogen Sulfide by Using a Natural Zeolite, Clinoptilolite**

YAŞYERLİ S., AR İ.

14th International Congress of Chemical and Process Engineering, Czech Republic, 01 November 2000

XLIV. **Gazlaştırmada Oluşan H₂S'ün Bakıroksit Adsorbent ile Tutulması**

YAŞYERLİ S., AR İ., Gülşen D.

Yanma ve Hava Kirliliği V. Ulusal Sempozyumu, Turkey, 01 January 2000

XLV. **Sulu Fazlardan Kurşun Dolgulu Kolonlarda Uzaklaştırılması**

AR İ., MURATHAN A. M. , ALICILAR A., GÜRÜ M.

Üçüncü Ulusal Kimya Mühendisliği Kongresi, Erzurum, Turkey, 1 - 04 September 1998, vol.2, pp.1433-1437

XLVI. **Dolgulu Kolonların Atıksu Arıtımındaki Kullanım Etkinliği**

MURATHAN A. M. , ALICILAR A., AR İ.

", İkinci Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 9 - 13 September 1996, vol.2, pp.1155-1158

Supported Projects

AR İ., Project Supported by Higher Education Institutions, Yakıt Hücrelerinde Kullanılmak Üzere Kompozit Membran Sentezi ve Karakterizasyonu, 2009 - Continues

AR İ., Project Supported by Higher Education Institutions, Polimer Elektrolit Membranlı Yakıt Hücresi İçin Kompozit Membran Sentezi Ve Karakterizasyonu, 2008 - Continues

AR İ., Project Supported by Higher Education Institutions, Yakıt Hücreleri İçin Kompozit Membran Geliştirilmesi, 2005 - Continues

AR İ., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Katı Polimer Elektrolit Yakıt Hücrelerinde (PEMFC) kullanılmak üzere Polimer Membran Geliştirilmesi, 2005 - Continues

AR İ., Project Supported by Higher Education Institutions, Atık sulardaki kobaltın adsorpsiyon yöntemiyle uzaklaştırılması, 2002 - Continues

AR İ., Project Supported by Higher Education Institutions, Klinoptilolit destek maddesi üzerine metal oksit yüklenerek sorbent geliştirilmesi, 2000 - Continues

AR İ., Project Supported by Higher Education Institutions, Metal oksit adsorbentlerinin sentezi ve karakterizasyonu, 1998 - Continues

AR İ., Project Supported by Higher Education Institutions, Atık suların kurşun giderilmesi, 1996 - Continues

AR İ., Project Supported by Higher Education Institutions, Sabit yatak reaktöründe kükürtdioksit-kireçtaşı

reaksiyonun kinetiğinin incelenmesi, 1993 - Continues

AR İ., Project Supported by Higher Education Institutions, PEM YAKIT PİLLERİNDE KULLANILMAK ÜZERE ORGANİK-İNORGANİK NANO-KOMPOZİT MEMBRAN GELİŞTİRİLMESİ, 2018 - 2020

AR İ., Project Supported by Higher Education Institutions, Yakıt Hücrelerinde Kullanmak Üzere Nanokompozit Membran Sentezi, 2012 - 2017

AR İ., Project Supported by Higher Education Institutions, PEM Yakıt Pilleri İçin Modifiye Sol-Jel Yöntemi Kullanarak Membran Üretimi, 2012 - 2017

AR İ., Project Supported by Higher Education Institutions, Polivinil Alkol (PVA)/Formaldehit/LUDOX kompozit membranlarının sentezi ve karakterizasyonu, 2010 - 2012

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