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Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya, Turkey 1995 - 2001

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya, Turkey 1992 - 1995

Undergraduate, Hacettepe University, Fen Fakültesi, Kimya, Turkey 1987 - 1992

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Chemistry, Analytical Chemistry, Atomic Mass Spectrometry, Separation Methods, Chromatographic Analysis, Sample preparation, Spectroscopical Methods, Physical Chemistry, Functional Polymers, Polymeric Adsorbents, Polymeric Materials, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2014 - Continues

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2010 - 2014

Advising Theses

Kavaklı C., Arsenik iyonlarının adsorpsiyonunda kullanılan poli(1-vinilimidazol) aşılınmış polimerik adsorbent hazırlanması, Postgraduate, E.ESRA(Student), 2020

Kavaklı C., Etilendiamin fonksiyonel gruplarını içeren polimerik adsorbent hazırlanması ve arsenik(V) iyonlarının adsorpsiyon özelliklerinin incelenmesi, Postgraduate, E.GÖKOĞLU(Student), 2016

Kavaklı C., Aminometil piridin fonksiyonel gruplarını içeren polimerik partiküllerin hazırlanması ve arsenik(V) iyonlarının adsorpsiyon özelliklerinin incelenmesi, Postgraduate, K.MULLAOĞLU(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- Activation of inert polyethylene/polypropylene nonwoven fiber (NWF) by plasma-initiated grafting and amine functionalization of the grafts for Cu (II), Co(II), Cr(III), Cd(II) and Pb(II) removal**
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- II. **Monodisperse-porous cerium oxide microspheres carrying iridium oxide nanoparticles as a heterogeneous catalyst for water oxidation**
HAMALOĞLU K. Ö. , Tosun R. B. , Kayi H., AKKAŞ KAVAKLI P., KAVAKLI C., Tuncel A.
APPLIED SURFACE SCIENCE, vol.547, 2021 (Journal Indexed in SCI)
- III. **Nanoscale Zerovalent Iron Immobilized on Functionalized Nonwoven Cotton Fabric for As(V) Adsorption**
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- IV. **Reusable water oxidation catalyst with dual active center for enhanced water oxidation: Iridium oxide nanoparticles immobilized on monodisperse-porous Mn508 microspheres**
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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.29, pp.15482-15496, 2021 (Journal Indexed in SCI)
- V. **Monodisperse-porous cerium oxide microspheres as a new support with appreciable catalytic activity for a composite catalyst in benzyl alcohol oxidation**
HAMALOĞLU K. Ö. , Tosun R. B. , Ulu S., Kayi H., KAVAKLI C., AKKAŞ KAVAKLI P., Kip C., Tuncel A.
NEW JOURNAL OF CHEMISTRY, vol.45, no.4, pp.2019-2029, 2021 (Journal Indexed in SCI)
- VI. **A synergistic catalyst based on a multivalence monodisperse-porous microspheres with oxygen vacancies for benzyl alcohol oxidation**
Tosun R. B. , HAMALOĞLU K. Ö. , AKKAŞ KAVAKLI P., KAVAKLI C., Tuncel A.
MOLECULAR CATALYSIS, vol.497, 2020 (Journal Indexed in SCI)
- VII. **Novel cotton fabric adsorbent for efficient As(V) adsorption**
Korpayev S., KAVAKLI C., Tilki S., AKKAŞ KAVAKLI P.
Environmental Science and Pollution Research, vol.25, no.34, pp.34610-34622, 2018 (Journal Indexed in SCI)
- VIII. **Preparation and characterization of ethylenediamine modified glycidyl methacrylate-grafted nonwoven cotton fabric adsorbent**
Korpayev S., KAVAKLI C., ÇOLAK Ş., Kavaklı P.
Cellulose, vol.25, no.1, pp.813-828, 2018 (Journal Indexed in SCI)
- IX. **Activation of Polyethylene/Polypropylene Nonwoven Fabric by Radiation-Induced Grafting for the Removal of Cr(VI) from Aqueous Solutions**
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- X. **Radiation induced emulsion graft polymerization of 4-vinylpyridine onto PE/PP nonwoven fabric for As(V) adsorption**
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- XI. **Effects of 900 MHz Radiofrequency Radiation on Skin Hydroxyproline Contents**
Cam S. T. , Seyhan N., KAVAKLI C., ÇELİKBIÇAK Ö.
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- XII. **Preparation and characterization of Fe(III)-loaded iminodiacetic acid modified GMA grafted nonwoven fabric adsorbent for anion adsorption**
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Radiation Physics and Chemistry, vol.94, no.1, pp.105-110, 2014 (Journal Indexed in SCI Expanded)
- XIII. **Quaternized dimethylaminoethyl methacrylate strong base anion exchange fibers for As(V) adsorption**
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Radiation Physics and Chemistry, vol.102, pp.84-95, 2014 (Journal Indexed in SCI Expanded)
- XIV. **Preparation and characterization of glycidyl methacrylate grafted 4-amino-1,2,4-triazole modified nonwoven fiber adsorbent for environmental application**
KAVAKLI C., Kavaklı P. A. , GUVEN O.
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- XV. **Preparation of quaternized dimethylaminoethylmethacrylate grafted nonwoven fabric for the**

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- XVII. **Autocatalytic tyrosine nitration of prostaglandin endoperoxide synthase-2 in LPS-stimulated RAW 264.7 macrophages**
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BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.340, no.1, pp.318-325, 2006 (Journal Indexed in SCI)
- XVIII. **Selective adsorption and recovery of precious metal ions from geological samples by 1,5,9,13-tetrathiacyclohexadecane-3,11-diol anchored poly(p-CMS-DVB) microbeads**
Kavakli C., Malci S., Tuncel S., Salih B.
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- XIX. **Selectivity of cyclam modified poly (p-chloromethyl styrene-ethyleneglycol dimethacrylate) microbeads for Cu(II), Ni(II), Co(II) and Zn(II)**
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- XX. **Selective adsorption, pre-concentration and matrix elimination for the determination of Pb(II), Cd(II), Hg(II) and Cr(III) using 1,5,9,13-tetrathiacyclohexadecane-3,11-diol anchored poly (p-chloromethylstyrene-ethyleneglycoldimethacrylate) microbeads**
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ANALYTICA CHIMICA ACTA, vol.550, pp.24-32, 2005 (Journal Indexed in SCI)
- XXI. **A new pitfall in detecting biological**
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NITRIC OXIDE-BIOLOGY AND CHEMISTRY, vol.9, no.1, pp.44-52, 2003 (Journal Indexed in SCI)
- XXII. **Synthesis and characterization of 1,4,8,11-tetraazacyclotetradecane carrying poly(p-chloromethyl styrene-ethylene glycol dimethacrylate) microbeads and its metal ion-chelated forms**
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- XXIII. **1,4,8,11-tetraazacyclotetradecane bound to poly(p-chloromethylstyrene-ethylene glycol dimethacrylate) microbeads for selective gold uptake**
Kavakli C., Ozvatan N., Tuncel S., Salih B.
ANALYTICA CHIMICA ACTA, vol.464, no.2, pp.313-322, 2002 (Journal Indexed in SCI)
- XXIV. **Adsorption of heavy metal ions onto dithizone-anchored poly (EGDMA-HEMA) microbeads**
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- XXV. **Dye-incorporated poly(EGDMA-HEMA) microspheres as specific sorbents for aluminum removal**
Denizli A., Salih B., KAVAKLI C., Piskin E.
JOURNAL OF CHROMATOGRAPHY B, vol.698, pp.89-96, 1997 (Journal Indexed in SCI)
- XXVI. **Scanning tunnelling microscopy for characterization of metathesis catalysts based on photogenerated W(CO)(6)/CCl4**
Zareie M., KAVAKLI C., Salih B., Piskin E.
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.118, no.2, pp.195-203, 1997 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

1. Preparation of Poly(Vinylimidazole) Grafted Polystyrene Microspheres with Atom Transfer Radical

Polymerisation and Removal of Arsenic Ions from Aqueous Solutions

KAVAKLI C., AKYÜZ E. E. , TİLKİ S., AKKAŞ KAVAKLI P.

2.INTERNATIONAL ENVIRONMENTAL CHEMISTRY CONGRESS, Antalya, Turkey, 31 October - 03 November 2019

- II. **Removal of Se(VI) by Using Amine Modified Polystyrene from Aqueous Solutions**
ÖZDEMİR B., ÖZMEN F., AKKAŞ KAVAKLI P., KAVAKLI C.
2nd International Environmental Chemistry Congress (EnviroChem), 31 October - 03 November 2019
- III. **Preparation of poly(vinylimidazole) grafted polystyrene microspheres with atom transfer radical polymerisation and removal of arsenic ions from aqueous solutions**
KAVAKLI C., TİLKİ S., AKKAŞ KAVAKLI P., AKYÜZ E. E.
2nd International Environmental Chemistry Congress (EnviroChem), 31 October - 03 November 2019
- IV. **Modified Nonwoven Cotton Fabric With Antimicrobial Properties**
ŞAHİNER M., ARI B., SERDAR K., SAĞBAŞ S., AKKAŞ KAVAKLI P., KAVAKLI C., ŞAHİNER N.
7th International Technical Textiles Congress, 10 - 12 October 2018
- V. **The Use of Modified GMA-g-PE/PP-NWF as Catalyst For H₂ Production**
ŞAHİNER M., ARI B., SERDAR K., DEMİRCİ Ş., KAVAKLI C., AKKAŞ KAVAKLI P., ŞAHİNER N.
7th International Technical Textiles Congress, 10 - 12 October 2018
- VI. **Fonksiyonel Polimerik Adsorbent Kullanılarak Selenyum İyonlarının Sulu Çözeltilerden Uzaklaştırılması**
ÖZDEMİR B., KAVAKLI C., TİLKİ S., AKKAŞ KAVAKLI P.
ULUSLARARASI KATILIMLI VII. POLİMER BİLİM VE TEKNOLOJİ KONGRESİ-"POLİMER-2018, Eskişehir, Turkey, 9 - 12 September 2018
- VII. **Sulu Çözeltilerden As(V) Adsorpsiyonu için Pamuk Esaslı Adsorbent Malzeme Hazırlanması**
KAVAKLI C., AKKAŞ KAVAKLI P., SERDAR K.
Uluslararası Katılımlı VII. Polimer Bilim Ve Teknoloji Kongresi, 9 - 12 September 2018
- VIII. **Amidoksim Fonsiyonel Grubu İçeren Pamuk Kumaşların Aşı Polimerizasyonu ile Hazırlanması**
KAVAKLI C., AKKAŞ KAVAKLI P., KUMAN M.
Uluslararası Katılımlı VII. Polimer Bilim Ve Teknoloji Kongresi, 9 - 12 September 2018
- IX. **Plazma Yöntemi İle Aşılınmış Dokumasız Kumaş Adsorbent Hazırlanması ve Sulu Çözelti lerden Ağır Metal İyonlarının Uzaklaştırılmasında Kullanımı**
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- X. **Functional Grafted Polymeric Adsorbents for Environmental Applications**
AKKAŞ KAVAKLI P., KAVAKLI C., OLGUN G.
5th International Conference on Methods and Materials for Separation Process "Separation Science – Theory and Practice 2018, 26 - 30 August 2018
- XI. **Se(VI) Adsorption onto QDMAEMA-g-PE/PP Nonwoven Fabrics**
KAVAKLI C., ÖZTÜRK G., KARABULUT C., AKKAŞ KAVAKLI P.
5th International Conference on Methods and Materials for Separation Process "Separation Science – Theory and Practice 2018, 26 - 30 August 2018
- XII. **Synthesis of Quaternized Poly(N,N-Dimethylaminoethyl Methacrylate) Grafted PE/PP Nonwoven Fabric via RadiationInduced RAFT Polymerization for The Removal of Selenium (VI) Ions**
AKKAŞ KAVAKLI P., BARSBAY M., TİLKİ S., KAVAKLI C., GÜVEN O.
EUROANALYSIS 2017, Stockholm, Sweden, 28 August - 01 September 2017
- XIII. **Synthesis of Quaternized Poly(N,N-Dimethylaminoethyl Methacrylate) Grafted PE/PP Nonwoven Fabric via RadiationInduced RAFT Polymerization for The Removal of Selenium (VI) Ions**
AKKAŞ KAVAKLI P., BARSBAY M., TİLKİ S., KAVAKLI C., OLGUN G.
EUROANALYSIS 2017, 28 August - 01 September 2017
- XIV. **Plasma Induced ethylenediamine modified glycidyl methacrylategrafted nonwoven cotton fabric adsorbent**
AKKAŞ KAVAKLI P., SERDAR K., TİLKİ S., KAVAKLI C.
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- XV. **Plasma Induced ethylenediamine modified glycidyl methacrylate grafted nonwoven cotton fabric adsorbent**
AKKAŞ KAVAKLI P., korpayev s., TİLKİ S., KAVAKLI C.
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- XVI. **Synthesis of Quaternized Poly(N,N-Dimethylaminoethyl Methacrylate) Grafted PE/PP Nonwoven Fabric via Radiation- Induced RAFT Polymerization for The Removal of Selenium (VI) Ions**
AKKAŞ KAVAKLI P., BARSBAY M., TİLKİ S., KAVAKLI C., Güven O.
Euroanalysis 2017, Stockholm, Sweden, 28 August - 01 September 2017
- XVII. **NONWOVEN COTTON FABRIC ADSORBENT FOR As(V) REMOVAL**
korpayev s., TİLKİ S., AKKAŞ KAVAKLI P., KAVAKLI C.
IWA-PPFW 2017-The 2nd IWA Regional Symposium on water, wastewater and environment, izmir/çeşme, Turkey, 22 - 24 March 2017
- XVIII. **Nonwoven Cotton Fabric for As (V) Removal**
SERDAR K., TİLKİ S., AKKAŞ KAVAKLI P., KAVAKLI C.
IWA-PPFW 2017-The 2nd IWA Regional Symposium on water, 22 - 24 March 2017
- XIX. **FUNCTIONAL GRAFTED NONWOVEN TEXTILE ADSORBENTS FORENVIRONMENTAL APPLICATIONS**
AKKAŞ KAVAKLI P., KAVAKLI C., TİLKİ S., GÜVEN O.
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- XX. **Renewable Cellulosic adsorbent for the removal of Cu(II), Pb(II) and Cd(II) ions from aqueous media**
BARSBAY M., AKKAŞ KAVAKLI P., TİLKİ S., KAVAKLI C., OLGUN G.
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- XXI. **Grafted polymeric ligand exchanger for removal of Cr(VI)**
AKKAŞ KAVAKLI P., KAVAKLI C., BURCU O., OLGUN G.
IWA-PPFW 2017-The 2nd IWA Regional Symposium on water, 22 - 24 March 2017
- XXII. **Functional grafted nonwoven textile adsorbents for environmental applications**
AKKAŞ KAVAKLI P., KAVAKLI C., TİLKİ S., OLGUN G.
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- XXIII. **Removal of arsenic, selenium and chromium by vinylpyridine strong base fabric adsorbent**
KAVAKLI C., AKKAŞ KAVAKLI P., BURCU O., OLGUN G.
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- XXIV. **Radiation-induced grafting of poly(2-(dimethylamino)ethyl methacrylate) (PDMAEMA) and poly(glycidyl methacrylate) (PGMA)from PE/PP non-woven fabric for the removal of Cr(VI) ions from aqueous media**
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- XXVI. **Renewable cellulosic adsorbent for the removal of Cu(II), Pb (II) and Cd (II) ions from aqueous media**
BARSBAY M., AKKAŞ KAVAKLI P., TİLKİ S., KAVAKLI C., Güven O.
2nd IWA Regional International Symposium on Water, Wastewater and Environment (IWA-PPFW2017), Çeşme, Turkey, 22 - 24 March 2017
- XXVII. **RENEWABLE CELLULOSIC ADSORBENT FOR THE REMOVAL OF CU(II), PB (II) AND CD (II) IONS FROM AQUEOUS MEDIA**
BARSBAY M., AKKAŞ KAVAKLI P., TİLKİ S., KAVAKLI C., GÜVEN O.

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- XXIX. **Removal of Cd II ions from aqueous media using porous cellulosic adsorbent**
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THE 12TH INTERNATIONAL SYMPOSIUM ON IONIZING RADIATION & POLYMERS, 25 - 30 October 2016
- XXX. **Removal of Cd II ions from aqueous media using porous cellulosic adsorbent**
BARSBAY M., AKKAŞ KAVAKLI P., TİLKİ S., KAVAKLI C., GÜVEN O.
THE 12TH INTERNATIONAL SYMPOSIUM ON IONIZING RADIATION AND POLYMERS, 25 September - 30 October 2016
- XXXI. **Sulu Çözeltilerden As V Adsorpsiyonu için Zayıf Baz Anyon Değiştirici Dokumasız Kumaşlar**
AKKAŞ KAVAKLI P., TİLKİ S., KAVAKLI C.
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Turkey, 4 - 07 September 2016
- XXXII. **Sulu Çözeltilerden Cr VI Uzaklaştırılması için Polietilen Polipropilen PE PP Dokumasız Kumaşların Aktivasyonu**
KAVAKLI C., BARSBAY M., TİLKİ S., GÜVEN O., AKKAŞ KAVAKLI P.
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Ankara, Turkey, 4 - 07 September 2016
- XXXIII. **Zayıf Baz Anyon Değiştirici Reçine Kullanılarak Sulu Çözeltilerden As V Uzaklaştırılması**
TİLKİ S., AKKAŞ KAVAKLI P., KAVAKLI C.
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Ankara, Turkey, 4 - 07 September 2016
- XXXIV. **Cu II Yüklenmiş Polimerik Ligand Değiştiricilerin Sentezi ve Cr VI Uzaklaştırılmasında Kullanımı**
OKYAY B., HAMURCU A., KAVAKLI C., AKKAŞ KAVAKLI P.
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Ankara, Turkey, 4 - 07 September 2016
- XXXV. **Plazma Tekniği Kullanılarak PE PP Dokumasız Kumaş Yüzeylerinin Aşı Polimerizasyonu İle GMA Aşılması ve Karakterizasyonu**
Korpayev S., KAVAKLI C., AKKAŞ KAVAKLI P.
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Turkey, 04 September 2019 - 07 September 2016
- XXXVI. **Kuaternize Edilmiş 4 Vinilpiridin Aşılmalı Polimerik Kumaş Adsorbent ile Sulu Çözeltilerden Se VI Uzaklaştırılması**
KAVAKLI C., OKYAY B., AKKAŞ KAVAKLI P.
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Ankara, Turkey, 4 - 07 September 2016
- XXXVII. **Polimerik Kumaş Adsorbentler ve Uygulamaları**
AKKAŞ KAVAKLI P., KAVAKLI C., TİLKİ S.
1. ULUSLARARASI LİF VE POLİMER ARAŞTIRMALARI SEMPOZYUMU, Bursa, Turkey, 13 - 14 May 2016
- XXXVIII. **Elektro Eğirme Yöntemi Kullanılarak Polistiren Nanoliflerin Hazırlanması ve Pb II İyonu Tayininde Kullanımı**
TUNCER E., TİLKİ S., KAVAKLI C., AKKAŞ KAVAKLI P.
1. ULUSLARARASI LİF VE POLİMER ARAŞTIRMALARI SEMPOZYUMU, Bursa, Turkey, 13 - 14 May 2016
- XXXIX. **Eilendiamin Modifiye Edilmiş PE PP Dokumasız Kumaş Fiberlerle Sulu Çözeltilerden Kadmiyum İyonlarının Uzaklaştırılması**
TİLKİ S., KAVAKLI C., AKKAŞ KAVAKLI P.
1. ULUSLARARASI LİF VE POLİMER ARAŞTIRMALARI SEMPOZYUMU, Turkey, 13 - 14 May 2016
- XL. **REMOVAL OF As V FROM AQUEOUS SOLUTIONS BY USING WEAK BASE ANION EXCHANGE RESIN ADSORBENT**
KAVAKLI C., TİLKİ S., AKKAŞ KAVAKLI P.
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- XLI. WEAK BASE ANION EXCHANGE NONWOVEN FIBERS FOR As V ADSORPTION FROM AQUEOUS SOLUTIONS**
KAVAKLI C., TILKI S., AKKAŞ KAVAKLI P.
EUROANALYSIS XVIII, BORDO, France, 6 - 10 September 2015
- XLII. Removal of Se VI from Aqueous Solutions using Quaternized 4 Vinylpyridine Polymeric Adsorbent**
AKKAŞ KAVAKLI P., BURCU O., KAVAKLI C.
EUROANALYSIS XVIII, BORDO, France, 6 - 10 September 2015
- XLIII. Mass spectrometric investigation of terminal olefin metathesis and polymerization onto W(CO)(6) and Mo(CO)(6)/CCl4, CBr4/hv catalyst systems in gas-phase**
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Conference of the NATO-Advanced-Study-Institute on Ring Opening Metathesis Polymerisation and Related Chemistry, POLAICA-ZDROY, Poland, 3 - 15 September 2000, vol.56, pp.437-449

Supported Projects

- KAVAKLI C., KUMAN M., Project Supported by Higher Education Institutions, Amidoksim Grubu İçeren Pamuk Kumaşların Aşılı Polimerizasyonu ile Hazırlanması ve Karakterizasyonu, 2018 - 2019
- KAVAKLI C., OKYAY B., TILKI S., Project Supported by Higher Education Institutions, Cu(II) Yüklü Polimerik Ligand Değiştirici Kullanılarak Cr(VI) İyonlarının Uzaklaştırılması, 2016 - 2016
- KAVAKLI C., TILKI S., Project Supported by Higher Education Institutions, Amin Fonksiyonel Grubu İçeren Polimerik Adsorbent Kullanılarak Arsenik (V) İyonlarının Uzaklaştırılması, 2015 - 2015
- KAVAKLI C., MULLAOĞLU K., Project Supported by Higher Education Institutions, AMİNOMETİL PİRİDİN FONKSİYONEL GRUPLARINI İÇEREN POLİMERİK PARTİKÜLLERİN HAZIRLANMASI VE ARSENİK(V) İYONLARININ ADSORPSİYON ÖZELLİKLERİNİN İNCELENMESİ, 2013 - 2015

Patent

Kavaklı C., Bir arsenik adsorbent ve elde edilmesi için bir yöntem, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR 2016 10010 B , Standard Registration, 2018

Citations

Total Citations (WOS):384

h-index (WOS):12