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Publons / Web Of Science ResearcherID: ABD-7822-2020

ScopusID: 8893348400

Yoksis Researcher ID: 151728

Education Information

Doctorate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi Anabilim Dalı, Turkey 2005 - 2010

Postgraduate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi Anabilim Dalı, Turkey 2002 - 2005

Undergraduate, İstanbul Technical University, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1995 - 2001

Foreign Languages

English

Dissertations

Doctorate, Preparation of acrylate and sulfonamide based polymeric sorbents for separation of biomolecules, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi Anabilim Dalı, 2010

Postgraduate, Preparation of new polymeric sorbents for removal of heavy metal ions from aqueous solutions, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi Anabilim Dalı, 2005

Research Areas

Chemistry, Natural Sciences

Academic Titles / Tasks

Associate Professor, İstanbul Technical University, Fen-Edebiyat, Kimya, 2022 - Continues

Assistant Professor, İstanbul Technical University, Fen-Edebiyat, Kimya, 2018 - 2022

Lecturer PhD, İstanbul Technical University, Fen-Edebiyat, Kimya, 2014 - 2015

Research Assistant, İstanbul Technical University, Fen-Edebiyat, Kimya, 2003 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Urethane- and urea-modified polymeric sorbents enable efficient and selective removal of mercury(II) from water**
Bugdayci T., Bektaş S., Akgül E. T., Korkmaz B., Yavuz E., Senkal B. F.
Polymer Bulletin, vol.80, no.11, pp.12079-12102, 2023 (SCI-Expanded)
- II. **Emulsion-Templated Porous Polymers for Efficient Dye Removal**
Uzum G., Akin Özmen B., Akgül E., Yavuz E.
ACS OMEGA, vol.7, no.18, pp.16127-16140, 2022 (SCI-Expanded)
- III. **A new multi-hydroxyl methacrylate based adsorbent for boron removal from aqueous solutions**
Torunoglu T. G., Burak K., Erdem Y., Senkal B. F.
SEPARATION SCIENCE AND TECHNOLOGY, vol.57, no.11, pp.1702-1713, 2022 (SCI-Expanded)
- IV. **Impedance spectroscopy of polyaniline coated hydrogel**
OKUTAN M., Yavuz E., ÖZEROL E., Senkal B. F., Yalcin O., Yıldız A.
POLYMER BULLETIN, vol.78, no.8, pp.4473-4486, 2021 (SCI-Expanded)
- V. **Hierarchically Porous High-Surface-Area Polymers with Interconnected Pores for Fast and Selective Albumin Adsorption**
Suslukaya M., Mumcu Topaloğlu H., Gül Karagüler N., Yavuz E.
ACS APPLIED POLYMER MATERIALS, vol.3, no.5, pp.2742-2758, 2021 (SCI-Expanded)
- VI. **Functionalization of gum arabic including glycoprotein and polysaccharides for the removal of boron**
Duran H., Yavuz E., Sismanoglu T., Senkal B. F.
CARBOHYDRATE POLYMERS, vol.225, 2019 (SCI-Expanded)
- VII. **Acid and base catalysed reactions in one pot with site-isolated polyHIPE catalysts**
Yavuz E., Cherkasov N., Degirmenci V.
RSC ADVANCES, vol.9, no.15, pp.8175-8183, 2019 (SCI-Expanded)
- VIII. **Preparation of poly(acrylamide) grafted onto crosslinked poly (HEMA-MMA-EGDMA) beads for the removal of phenol**
Usta H., Bildik F., Yavuz E., Turan G. T., Senkal B. F.
SEPARATION SCIENCE AND TECHNOLOGY, vol.53, no.8, pp.1156-1162, 2018 (SCI-Expanded)
- IX. **Preparation of crosslinked quaternary amide-sulfonamide resin for removal of mercury ions from aqueous solutions**
Yavuz E., TURAN G. T., ALKAZAN S., Senkal B. F.
DESALINATION AND WATER TREATMENT, vol.56, no.8, pp.2145-2153, 2015 (SCI-Expanded)
- X. **Modification of poly(glycidyl methacrylate) grafted onto crosslinked PVC with iminopropylene glycol group and use for removing boron from water**
Yavuz E., Gürsel Y., SENKAL B. F.
DESALINATION, vol.310, pp.145-150, 2013 (SCI-Expanded)
- XI. **Preparation of Sulfonamide Containing Cellulose Based Sorbent for Removal of Mercury Ions**
Cekli S., YAVUZ E., Senkal B. F.
SEPARATION SCIENCE AND TECHNOLOGY, vol.47, no.9, pp.1350-1355, 2012 (SCI-Expanded)
- XII. **Preparation of poly (acrylic acid) containing core-shell type resin for removal of basic dyes**
Yavuz E., Bayramoglu G., Arica M. Y., Senkal B. F.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.86, no.5, pp.699-705, 2011 (SCI-Expanded)
- XIII. **Preparation of Dicarboxylic Acid Containing Sulfonamide Based Resin and Removal of Basic Dyes**
Yavuz E., TEKİN E. T., Kandaz M., Senkal B. F.
SEPARATION SCIENCE AND TECHNOLOGY, vol.45, no.5, pp.687-691, 2010 (SCI-Expanded)
- XIV. **Preparation of the Sulfonamide Containing Block Copolymer as Polymeric Sorbent for Removal of Mercury from Aqueous Solutions**
Gürsel Y., YAVUZ E., GOKAY G., Senkal B. F.
SEPARATION SCIENCE AND TECHNOLOGY, vol.45, no.16, pp.2406-2412, 2010 (SCI-Expanded)
- XV. **Thiol Containing Sulfonamide Based Polymeric Sorbent for Mercury Extraction**

- Yavuz E., Barim G., Şenkal B. F.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.114, no.3, pp.1879-1883, 2009 (SCI-Expanded)
- XVI. **Poly(vinylbenzylchloride) Beads Grafted with Polymer Brushes Carrying Hydrazine Ligand for Reversible Enzyme Immobilization**
Yavuz E., Bayramoglu G., Şenkal B. F., Arica M. Y.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.113, no.4, pp.2661-2669, 2009 (SCI-Expanded)
- XVII. **Glycidyl methacrylate grafted on p(VBC) beads by SI-ATRP technique: Modified with hydrazine as a salt resistance ligand for adsorption of invertase**
Bayramoglu G., YAVUZ E., Şenkal B. F., Arica M. Y.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.345, pp.127-134, 2009 (SCI-Expanded)
- XVIII. **Poly(glycidylmethacrylate) brushes generated on poly(VBC) beads by SI-ATRP technique: Hydrazine and amino groups functionalized for invertase adsorption and purification**
Yavuz E., BAYRAMOGLU G., Şenkal B. F., Arica M. Y.
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.877, pp.1479-1486, 2009 (SCI-Expanded)
- XIX. **Preparation of pyridine sulphonamide resin for the removal of dyes from aqueous solutions**
Şenkal B. F., TEKIN E. T., Yavuz E.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.20, no.3, pp.308-311, 2009 (SCI-Expanded)
- XX. **Preparation of poly(glycidyl methacrylate) grafted sulfonamide based polystyrene resin with tertiary amine for the removal of dye from water**
Senkal B. F., BILDIK F., Yavuz E., SARAC A.
REACTIVE & FUNCTIONAL POLYMERS, vol.67, no.12, pp.1471-1477, 2007 (SCI-Expanded)
- XXI. **The synthesis of new polymeric sorbent and its application in preconcentration of cadmium and lead in water samples**
Senkal B. F., INCE M., YAVUZ E., YAMAN M.
TALANTA, vol.72, no.3, pp.962-967, 2007 (SCI-Expanded)
- XXII. **Sulfonamide based polymeric sorbents for selective mercury extraction**
Şenkal B. F., Yavuz E.
Reactive and Functional Polymers, vol.67, pp.1465-1470, 2007 (SCI-Expanded)
- XXIII. **Preparation of poly(vinyl pyrrolidone) grafted sulfonamide based polystyrene resin and its use for the removal of dye from water**
Senkal B. F., YAVUZ E.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.17, pp.928-931, 2006 (SCI-Expanded)
- XXIV. **Removal of dyes from water by poly(vinyl pyrrolidone) hydrogel**
Senkal B. F., ERKAL D., YAVUZ E.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.17, pp.924-927, 2006 (SCI-Expanded)
- XXV. **Crosslinked poly(glycidyl methacrylate)-based resin for removal of mercury from aqueous solutions**
Senkal B. F., YAVUZ E.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.101, no.1, pp.348-352, 2006 (SCI-Expanded)
- XXVI. **Ureasulfonamide polymeric sorbent for selective mercury extraction**
Şenkal B. F., YAVUZ E.
MONATSHEFTE FUR CHEMIE, vol.137, no.7, pp.929-934, 2006 (SCI-Expanded)
- XXVII. **Preparation of a new polymeric surfactant for emulsion polymerization**
Sarac A., Senkal B. F., YAVUZ E., Guersel Y.
MACROMOLECULAR SYMPOSIA, vol.239, pp.43-50, 2006 (SCI-Expanded)
- XXVIII. **Poly(acrylamide) grafts on spherical polyvinyl pyridine resin for removal of mercury from aqueous solutions**
Yavuz E., Senkal B. F., BICAK N.
REACTIVE & FUNCTIONAL POLYMERS, vol.65, pp.121-125, 2005 (SCI-Expanded)
- XXIX. **Poly(acrylamide) grafts on spherical polymeric sulfonamide based resin for selective removal of**

mercury ions from aqueous solutions

Senkal B. F., Yavuz E., BICAK N.

MACROMOLECULAR SYMPOSIA, vol.217, pp.169-178, 2004 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **PREPARATION OF POLY (N-[TRIS (HYDROXYMETHYL) METHYL] ACRYLAMIDE-CO-1-VINYL IMIDAZOLE-CO-EGDMA) (THMMA-CO-VIM-CO-EGDMA) BASED HYDROGEL FOR REMOVAL OF BORON FROM AQUEOUS SOLUTIONS**
SENKAL B. F., çiftçi s. n., TEKNECİ E., YAVUZ E.
INTERNATIONAL BIOLOGICAL, AGRICULTURAL AND LIFE SCIENCE CONGRESS 2019, 7 - 08 November 2019
- II. **Use of Polymeric Sorbents to Remove Boron from Aqueous Solutions**
SENKAL B. F., TORUNOĞLU TURAN G., YAVUZ E., ersoy a.
Adsorpsiyon – Elektrodializ Hibrit Prosesiyle Jeotermal Sulardan Lityum ve Bor Kazanılması / Lithium and Boron Recovery from Geothermal Water Using Hybrid Process Combining Adsorption and Electrodialysis, 11 September 2017
- III. **Modification of multiple amide functions onto crosslinked poly (vinyl benzyl chloride (PVBC)-co-(Ethylene glycole dimethacrylate) (EGDMA)) resin for removal of phenol**
bildik f., ŞİŞMANOĞLU Z. T., YAVUZ E., SENKAL B. F.
IWA 2nd Regional Symposium on Water, Wastewater and Environment, 22-24 March, 2017 in Çesme-Izmir, Turkey, 22 - 24 March 2017
- IV. **Removal of phenol from aqueous solution by using polymer modified nanoclay**
YILDIZ G., YAVUZ E., TEKNECİ E., SENKAL B. F.
2nd IWA Regional Symposium on Water, Wastewater and Environment, 22 - 24 March 2017
- V. **NATURAL RESIN FUNCTIONALIZEDHOLLOW SILICA SPHEREBIONANOCOMPOSITE MATERIALFOR ADSORPTION**
duran h., YAVUZ E., ŞİŞMANOĞLU Z. T., SENKAL B. F.
The 2nd Regional IWA Symposium on water, wastewater and environment, 22 - 24 March 2017
- VI. **MODĞFĞCATĞON OF MULTĞPLE AMĞDEFUNCTĞONS ONTO CROSSLĞNKEDPOLY (VĞNYL BENZYL CHLORĞDE(PVBC)-CO-(ETHYLENE GLYCOLEDĞMETHACRYLATE) (EGDMA)) RESĞNFOR REMOVAL OF PHENOL**
SENKAL B. F., bildik f., YAVUZ E., ŞİŞMANOĞLU Z. T.
The 2nd Regional IWA Symposium on water, wastewater and environment, 22 - 24 March 2017
- VII. **PREPARATION OF POLY 2 ACRYLAMIDO 2 METHYLPROPANE SULFONIC ACID AMPS GRAFTED ONTO CROSSLINKED POLY VINYLBENZYL CHLORIDE RESIN FOR REMOVAL OF ATRAZINE FROM WATER**
bildik F., SENKAL B. F., ŞİŞMANOĞLU Z. T., YAVUZ E.
SEPARATION SCIENCE- THEORY AND PRACTICE 2015, 6 - 10 September 2015
- VIII. **A NEW POLYMERIC SORBENT FOR REMOVAL OF MERCURY IONS FROM AQUEOUS SOLUTIONS**
YAVUZ E., çokgez i., SENKAL B. F.
SEPARATION SCIENCE -THEORY AND PRACTICE 2015, 6 - 10 September 2015
- IX. **Preparation of the Poly(styrene) Based Imidazole Containing Quaternary Chloroacetamide Modified Sorbent for Removal of Phenol**
Bildik F., Yavuz E., SİSMANOĞLU T., Senkal B. F.
15th International Conference on Polymers and Organic Chemistry (POC), Timisoara, Romania, 10 - 13 June 2014, vol.352, pp.66-71
- X. **Removal of boron from Aqueous solution by using sorbitol containing polymer modified bentonite**
YAVUZ E., EREL Z. E., TORUNOĞLU TURAN G., GÜRSSEL Y., SENKAL B. F.
EurAsia Waste Management Symposium, İstanbul, Turkey, 28 - 30 April 2014
- XI. **Hypercrosslinked PolyHIPE supported L proline Efficient Catalyst for Stereoselective Aldol Reactions**

- Cameron N., YAVUZ E.
IUPAC 10th International Conference on Advanced Polymers via Macromolecular Engineering, Durham, Canada, 18 - 22 August 2013
- XII. Removal of Methylene Blue from Aqueous Solution by Using Polymer Modified Bentonite
YAVUZ E., BAYDAR B., AHLATÇIOĞLU E., ŞENKAL B. F.
12th Eurasia Conference on Chemical Sciences, CORFU, Greece, 16 - 21 April 2012
- XIII. Grafting of Polyacrylamide onto clay for selective removal of Hg²⁺ ion from water
YAVUZ E., Barim G., ÇELİK M. S., ŞENKAL B. F.
Polymers for Advanced Technologies, Lodz, Poland, 2 - 05 October 2011
- XIV. Synthesis of ABA type hydrogen bonded liquid crystalline block copolymer
YAVUZ E., GÜRSEL Y., AHLATÇIOĞLU E., ŞENKAL B. F., YAKUPHANOĞLU F.
Polymers for Advanced Technologies, Lodz, Poland, 2 - 05 October 2011
- XV. The Synthesis of sulfonamide based polymeric sorbents for selective removal of mercury from water
ŞENKAL B. F., Kucukkaya I., YAVUZ E.
Polymers for Advanced Technologies, Lodz, Poland, 2 - 05 October 2011
- XVI. Preparation of polyacrylamide hydrogel for removal of mercury ions
ŞENKAL B. F., ÇEKLİ S., YAVUZ E.
Macro and Supramolecular architectures and Materials, MAM-08, Düsseldorf, Germany, 7 - 11 September 2008
- XVII. Removal of cationic dyes from water by poly 2 acrylamido 2 methyl 1 propanesulfonic acid hydrogel
KANER D., YAVUZ E., ŞENKAL B. F.
IEX 2008, Recent Advances in Ion Exchange Theory and Practice, Cambridge, Canada, 9 - 11 July 2008
- XVIII. Removal of acidic dyes from water using crosslinked ethyl piperazine resin
YAVUZ E., ŞENKAL B. F.
IEX 2008, Recent Advances in Ion Exchange Theory and Practice, Cambridge, Canada, 9 - 11 July 2008
- XIX. İyon değiştirici ligand olarak fonksiyonel hidrazin taşıyan kürelerin atom transfer radikal polimerizasyon tekniği ile hazırlanması ve ham maya özütünden invertaz saflaştırılması işleminde kullanılması
YAVUZ E., ŞENKAL B. F., BAYRAMOĞLU G., ARICA M. Y.
IV. Ulusal Analitik Kimya Kongresi, Elazığ, Turkey, 25 - 27 June 2008
- XX. Thiol containing sulfonamide based polymeric sorbent for mercury extraction
YAVUZ E., ŞENKAL B. F.
9th International Symposium on Polymers For Advanced Technologies, ŞANGAY, China, 22 - 25 October 2007
- XXI. Investigation of emulsion polymerization of vinyl pyrrolidone with ionic liquid
SARAÇ A., ŞENKAL B. F., GÜRSEL Y., YAVUZ E.
9th International Symposium on Polymers For Advanced Technologies, ŞANGAY, China, 22 - 25 October 2007
- XXII. ATRP tekniği ile yüzeyde fonksiyonel iplikçik taşıyan afinite kürelerin sentezlenmesi ve uygulanması
YAVUZ E., ŞENKAL B. F., BAYRAMOĞLU G., ARICA M. Y.
3. Ulusal Afinite Teknikleri Kongresi, Bursa, Turkey, 12 September - 17 August 2007
- XXIII. Tiyoüre fonksiyonlu çapraz bağlı polistiren reçinenin sentezi ve ağır metal iyonlarının giderilmesinde kullanılması
YAVUZ E., ŞENKAL B. F., İnce M., YAMAN M.
VII. Ulusal Kromatografi Kongresi, Kırıkkale, Turkey, 13 - 15 June 2007
- XXIV. Emulsion polymerization of different monomers with using n methyl glucamine containing polymeric surfactant
Erkal D., ŞENKAL B. F., SARAÇ A., YAVUZ E.
1st European Chemistry Congress, Budapest, Hungary, 27 - 31 August 2006
- XXV. Acetylsulfonamide based polymeric sorbent for selective mercury extraction
ŞENKAL B. F., YAVUZ E.
First International Workshop on Frontiers and Interfaces of Ion Exchange, Antalya, Turkey, 11 - 15 June 2006
- XXVI. Removal of dyes from water by polyvinyl imidazole hydrogel

- YAVUZ E., Bildik F., ŞENKAL B. F.
First International Workshop on Frontiers and Interfaces of Ion Exchange, Antalya, Turkey, 11 - 15 June 2006
- XXVII. Removal of Dyes from Water by Polyvinyl pyrrolidone Hydrogel
YAVUZ E., Erkal D., ŞENKAL B. F.
8th International Symposium on Polymers for Advanced Technologies, Budapest, Hungary, 13 - 16 September 2005
- XXVIII. Crosslinked poly glycidyl methacrylate based resin for selective removal of mercury ions from aqueous solution
ŞENKAL B. F., YAVUZ E., Biçak N.
11th International Conference on Polymers and Organic Chemistry, PRAG, Czech Republic, 18 - 23 July 2004
- XXIX. Poly acrylamide grafts on spherical polyvinyl pyridine resin for removal of mercury from aqueous solutions
YAVUZ E., ŞENKAL B. F.
11th International Conference on Polymers and Organic Chemistry, PRAG, Czech Republic, 18 - 23 July 2004

Supported Projects

Şenkal B. F., Yavuz E., Yıldız G., Tekneci E., Korkmaz B., Project Supported by Higher Education Institutions, Zararlı katyonların sulu ortamlardan uzaklaştırılması için çapraz bağlı fonksiyonel polimerlerin ve polimer kompozitlerinin hazırlanması, 2019 - 2023

Yavuz E., Akgül E., Korkmaz B., Project Supported by Higher Education Institutions, Yüksek yüzey alanlı ve gözenek hacimli polimerik adsorbentler: Reaktif boyaların ve ağır metallerin giderilmesinde kullanılması, 2020 - 2022

Yavuz E., Süslükaya M., Project Supported by Higher Education Institutions, HIZLI VE SEÇİCİ ALBÜMİN ADSORPSİYONU İÇİN HİYERARŞİK VE BİR BİRİNE BAĞLI GÖZENEK YAPISINA SAHİP OLAN YÜKSEK YÜZEV ALANLI POLİMERLER, 2020 - 2021

Yavuz E., Project Supported by Higher Education Institutions, Güneş Pillerinde Kullanılacak Gözenekli Polimerlerin Hazırlanması ve Uygulamaları, 2014 - 2021

Yavuz E., Project Supported by Higher Education Institutions, Fenol Giderilmesi için Polistirilen Bazlı Kuaterner Kloroasetamid Fonksiyonlu Adsorbentin Hazırlanması, 2015 - 2018

Yavuz E., Project Supported by Higher Education Institutions, Polianilin Kaplı Hidrojelin Hazırlanması ve Boya Giderilmesinde Kullanılması, 2014 - 2018

Yavuz E., Project Supported by Higher Education Institutions, Metilen Mavisinin ulu Çözeltilerden Polimer Modifiye Bentonit Kullanılarak Giderilmesi, 2012 - 2018

Yavuz E., Project Supported by Higher Education Institutions, hG 2 NİN SULARDAN GİDERİLMESİ İÇİN SÜLFONAMİD BAZLI POLIMERİK SORBENTİN HAZIRLANMASI, 2011 - 2018

Metrics

Publication: 58

Citation (WoS): 483

Citation (Scopus): 530

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