

Assoc. Prof. Erdem Yavuz

Personal Information

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Education Information

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

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

Undergraduate, İstanbul Teknik Üniversitesi, 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

Assistant Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2018 - Continues

Research Assistant PhD, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, 2015 - Continues

Lecturer PhD, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2014 - 2015

Research Assistant, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2003 - 2014

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

- 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 (Journal Indexed in SCI)

- II. **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 (Journal Indexed in SCI)
- III. **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. , Şenkal B. F.
SEPARATION SCIENCE AND TECHNOLOGY, vol.53, no.8, pp.1156-1162, 2018 (Journal Indexed in SCI)
- IV. **Preparation of crosslinked quaternary amide-sulfonamide resin for removal of mercury ions from aqueous solutions**
Yavuz E., TURAN G. T. , ALKAZAN S., Şenkal B. F.
DESALINATION AND WATER TREATMENT, vol.56, no.8, pp.2145-2153, 2015 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **Preparation of Sulfonamide Containing Cellulose Based Sorbent for Removal of Mercury Ions**
Cekli S., YAVUZ E., Şenkal B. F.
SEPARATION SCIENCE AND TECHNOLOGY, vol.47, no.9, pp.1350-1355, 2012 (Journal Indexed in SCI)
- VII. **Preparation of poly (acrylic acid) containing core-shell type resin for removal of basic dyes**
Yavuz E., Bayramoglu G., Arica M. Y. , Şenkal B. F.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.86, no.5, pp.699-705, 2011 (Journal Indexed in SCI)
- VIII. **Preparation of the Sulfonamide Containing Block Copolymer as Polymeric Sorbent for Removal of Mercury from Aqueous Solutions**
Gürsel Y., YAVUZ E., GOKAY G., Şenkal B. F.
SEPARATION SCIENCE AND TECHNOLOGY, vol.45, no.16, pp.2406-2412, 2010 (Journal Indexed in SCI)
- IX. **Preparation of Dicarboxylic Acid Containing Sulfonamide Based Resin and Removal of Basic Dyes**
Yavuz E., TEKIN E. T. , Kandaz M., Şenkal B. F.
SEPARATION SCIENCE AND TECHNOLOGY, vol.45, no.5, pp.687-691, 2010 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **Sulfonamide based polymeric sorbents for selective mercury extraction**
Şenkal B. F. , Yavuz E.
Reactive and Functional Polymers, vol.67, pp.1465-1470, 2007 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **Ureasulfonamide polymeric sorbent for selective mercury extraction**
Senkal B. F. , YAVUZ E.
MONATSHEFTE FÜR CHEMIE, vol.137, no.7, pp.929-934, 2006 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **Poly(acrylamide) grafts on spherical polyvinyl pyridine resin for removal of mercury from aqueous solutions**
Yavuz E., Senkal B. F. , BİCAK N.
REACTIVE & FUNCTIONAL POLYMERS, vol.65, pp.121-125, 2005 (Journal Indexed in SCI)
- XXIV. **Poly(acrylamide) grafts on spherical polymeric sulfonamide based resin for selective removal of mercury ions from aqueous solutions**
Senkal B. F. , Yavuz E., BİCAK N.
MACROMOLECULAR SYMPOSIA, vol.217, pp.169-178, 2004 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Preparation of the Poly(styrene) Based Imidazole Containing Quaternary Chloroacetamide Modified Sorbent for Removal of Phenol**
Bildik F., Yavuz E., SISMANOĞLU T., Şenkal B. F.
15th International Conference on Polymers and Organic Chemistry (POC), Timisoara, Romania, 10 - 13 June 2014, vol.352, pp.66-71

Supported Projects

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 POLMERİK sORBENTİN hAZIRLANMASI, 2011 - 2018

Citations

Total Citations (WOS):401

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