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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1991 - 1996

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya (YI), Turkey 1988 - 1991

Undergraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1984 - 1988

Foreign Languages

English

Dissertations

Doctorate, Poli (stiren) esaslı reçineler üzerinde sekonder amin sentezi ve aldehit ayrılması, İstanbul Teknik Üniversitesi, Kimya, Kimya, 1996

Postgraduate, Naftalinin seryum (IV) ile oksidasyon kinetiği ve mekanizması Oxidation of kinetic of naphtalene by CE (IV), İstanbul Teknik Üniversitesi, Kimya, Kimya, 1991

Research Areas

Basic Sciences, Chemistry, Physical Chemistry, Polymeric Adsorbents, Polymeric Materials

Academic Titles / Tasks

Professor, Istanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2009 - Continues

Courses

Genel Kimya, Undergraduate, 2000 - 2001

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**
Buğdaycı T., Bektaş S., Akgül E. T., Korkmaz B., Yavuz E., Şenkal B. F.
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- II. **Speciation of chromium in water samples and lettuce extracts in the unified bioaccessibility method (UBM) saliva solution by vortex assisted-dispersive solid phase microextraction**
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- III. **Investigation of thermodynamic properties of Amine Modified Polystyrene and its use for separation of isomers**
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- IV. **Investigation of electrochemical and indicator properties of chalcone type compounds**
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- V. **Synthesis and investigation of new cholesteryl carbamate-based liquid crystals**
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- VI. **A new multi-hydroxyl methacrylate based adsorbent for boron removal from aqueous solutions**
Torunoglu T. G., Burak K., Erdem Y., Şenkal B. F.
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- VII. **Effective removal of Cs-137 ions from radioactive wastewater by Melamine-Styrene based Polymer (MSP)**
Karabayir E., Taskin O. S., ÖZDEMİR A., Şenkal B. F.
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- VIII. **Conductivity mechanism and dielectric properties of poly (2-aminophenol) with boron nitride and graphite composites**
Cogalmis F. T., Ahlatcyoolu Ozerol E., OKUTAN M., Şenkal B. F.
CHEMICAL PAPERS, vol.75, no.9, pp.4719-4727, 2021 (SCI-Expanded)
- IX. **Impedance spectroscopy of polyaniline coated hydrogel**
OKUTAN M., Yavuz E., ÖZEROL E., Şenkal B. F., Yalcin O., Yıldız A.
POLYMER BULLETIN, vol.78, no.8, pp.4473-4486, 2021 (SCI-Expanded)
- X. **Application of inverse gas chromatography in the surface characterization of diethanol amine modified polystyrene based polymer**
Adiguzel A. C., Korkmaz B., ÇAKAR F., Şenkal B. F., CANKURTARAN Ö.
TURKISH JOURNAL OF CHEMISTRY, vol.45, no.5, pp.1533-1542, 2021 (SCI-Expanded)
- XI. **Influence of hydrogen bond on the mesomorphic behaviour in urethane based liquid crystalline compounds: Experimental and computer simulation study**
Korkmaz B., Agtas S., Sütay B., Yildirim E., Yilgor I., Yurtsever M., Şenkal B. F., Gürsel Y.
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- XII. **Investigation of interaction behaviours of cesium and strontium ions with engineering barrier material to prevent leakage to environmental**
Erentürk S., Hacıyakupoğlu S., Şenkal B. F.
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- XIII. **Investigation of Curcumin Water Solubility Through Emulsifying with Biocompatible Polyethylene Glycol-Based Polymers**
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- XIV. **A radioactively durable melamine-styrene based polymer: Highly efficient removal of Sr-90**
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- XV. **DETERMINATION OF GLASS TRANSITION TEMPERATURE AND SURFACE PROPERTIES OF NOVEL CHALCONE MODIFIED POLY (STYRENE) BASED POLYMER**
Adiguzel A. C., ÇAKAR F., Şenkal B. F., CANKURTARAN Ö., Hepuzer Gursel Y., KARAMAN F.
THERMAL SCIENCE, vol.23, 2019 (SCI-Expanded)
- XVI. **The synthesis and dielectric characterization of liquid crystalline hydrogen bonded complex of 3-(4-(dimethyl amino) phenyl)-1-(4-hydroxyphenyl) prop-2-en-1-one with 8-(4-cyanobiphenyl-4'-oxy) octan-1-ol**
Korkmaz B., Ozerol E. A., Gürsel Y., Şenkal B. F., OKUTAN M.
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- XVII. **Simultaneous voltammetric analysis of lead, copper and mercury ions by carbon paste electrode based on 1-(3-aminopropyl) imidazole modified polymer**
Bayraktar C., CANKURTARAN H., Şenkal B. F.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.98, no.10, pp.889-906, 2018 (SCI-Expanded)
- XVIII. **Synthesis of chalcone-containing methacrylate-based hydrogen bonded side chain liquid crystalline polymer and its dielectric properties**
Korkmaz B., GURSEL Y. H., Canli N. Y., Ozdemir Z. G., OKUTAN M., Şenkal B. F.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.28, no.11, pp.1351-1356, 2017 (SCI-Expanded)
- XIX. **Compressive moduli and network parameters of N-isopropylacrylamide hydrogels copolymerized by monoesters of itaconic acid and crosslinked with tetraallylammonium bromide**
KOZBEKCI C., Şenkal B. F., Erbil C.
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- XX. **Structural, optical and electrical properties of polypyrrole in an ionic liquid**
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POLYMER BULLETIN, vol.74, no.7, pp.2625-2639, 2017 (SCI-Expanded)
- XXI. **A Practical Application of Solid-phase Extraction Using a Syringe Filled with Sorbent for the Determination of Lead and Cadmium in Water**
Ozbek N., Turan G. T., Şenkal B. F., Akman S.
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- XXII. **Synthesis and characterization of a new hydrogen bonded side chain liquid crystal block copolymer and investigation of electrical properties**
Korkmaz B., ÖZEROL E., Bozdogan A. C., OKUTAN M., Şenkal B. F., Gürsel Y.
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- XXIII. **The voltammetric determination of bisphenol A content of polycarbonate utensils using a resin modified carbon paste electrode**
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- XXIV. **Synthesis and electrical properties of hydrogen bonded liquid crystal polymer**
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- XXV. **The effect on the impedance characteristics of the metal oxides Al₂O₃ and ZnO doping into polyaniline**
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- XXVI. **Formation of composites between polyvinylimidazole and bentonites and their use for removal of remazol black B from water**
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- XXVII. **Modification of amino-bis-(cis-propan 2,3 diol) functions onto crosslinked poly (3-chloro-2-hydroxypropyl methacrylate-methyl methacrylate-ethyleneglycole dimethacrylate) for removal of boron from water**
Turan G. T., Şenkal B. F.
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- XXIX. **Super-capacitive behavior of carbon nano tube doped 11-(4-cyanobiphenyl-4-oxy) undecan-1-ol**
Ozdemir Z. G., Canli N. Y., Şenkal B. F., Gürsel Y., OKUTAN M.
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- XXX. **Preparation and characterization of graphite composites of polyaniline**
Ozerol E. A., Şenkal B. F., Okutan M.
MICROELECTRONIC ENGINEERING, vol.146, pp.76-80, 2015 (SCI-Expanded)
- XXXI. **Preparation and Electrical Characterization of Poly(Aniline) NanoClay Composites**
Ahlatcioglu E., Şenkal B. F., OKUTAN M.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.34, no.4, pp.341-346, 2015 (SCI-Expanded)
- XXXII. **Addition of single-wall carbon nanotubes to a liquid crystal material: Impact on dielectric properties**
Gürsel Y., Şenkal B. F., Canli N. Y., Ozdemir Z. G., AHLATCIOGLU E., Yilmaz O., OKUTAN M.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.34, pp.182-188, 2015 (SCI-Expanded)
- XXXIII. **Preparation and polymerization of chalcone substituted aniline and investigation of impedance properties**
Ahlatcioglu E., Şenkal B. F., Okutan M., GURSEL Y.
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Simsek E. B., Beker U., Şenkal B. F.
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- XXXVI. **Voltammetric determination of nitrite in meat products using polyvinylimidazole modified carbon paste electrode**
Yıldız G., OZTEKIN N., ORBAY A., Senkal F.
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- XXXVII. **Effect of crosslinker structure and crosslinker/monomer ratio on network parameters and thermodynamic properties of Poly (N-isopropylacrylamide) hydrogels**
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- XXXVIII. **Removal of Acidic and Basic Dyes from Water using Crosslinked Polystyrene Based Quaternary Ethyl Piperazine Resin**
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- XXXIX. **Preparation of clay poly glycidyl methacrylate composite support for immobilization of cellulase**
Şenkal B. F.
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- XL. **Determination of lead in milk and yoghurt samples by solid phase extraction using a novel aminothioazole polymeric resin**
Şenkal B. F.

food chemistry, vol.0, no.137, pp.55-61, 2013 (SCI-Expanded)

- XLII. **Modification of poly(glycidyl methacrylate) grafted onto crosslinked PVC with iminopropylene glycol group and use for removing boron from water**
Yavuz E., Gürsel Y., ŞENKAL B. F.
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- XLIII. **Synthesis of new organic semiconductors based on poly(2-anilinoethanol) doped with different acids and investigation of their electro-optical properties**
Ahlatcioglu E., Şenkal B. F., Yakuphanoglu F., Mansour S. A.
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- XLIII. **Synthesis of Carbon-Based Nano Materials for Hydrogen Storage**
Karatepe N., YUCA N., Şenkal B. F.
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- XLIV. **Synthesis and adsorption properties of polymeric and polymer-based hybrid adsorbent for hexavalent chromium removal**
Duranoglu D., Kaya I. G. B., Beker U., Şenkal B. F.
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- XLV. **Preparation of Sulfonamide Containing Cellulose Based Sorbent for Removal of Mercury Ions**
Cekli S., YAVUZ E., Şenkal B. F.
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- XLVI. **Network parameters of poly(N-isopropylacrylamide)/montmorillonite hydrogels: effects of accelerator and clay content**
Erbil C., TOPUZ D., Gökçeören A. T., Şenkal B. F.
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- XLVII. **Immobilization and stabilization of papain on poly(hydroxyethyl methacrylate-ethylenglycol dimethacrylate) beads grafted with epoxy functional polymer chains via surface-initiated-atom transfer radical polymerization (SI-ATRP)**
Bayramoglu G., Şenkal B. F., Yilmaz M., Arica M. Y.
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- XLVIII. **Development of Polymeric and Polymer-Based Hybrid Adsorbents for Chromium Removal from Aqueous Solution**
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CLEAN-SOIL AIR WATER, vol.39, no.11, pp.980-988, 2011 (SCI-Expanded)
- XLIX. **Determination and Removing of Lead and Nickel in Water Samples by Solid Phase Extraction Using a Novel Remazol Black B-Sulfonamide Polymeric Resin**
Timur I., Şenkal B. F., Karaaslan N. M., Bal T., Cengiz E., YAMAN M.
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- L. **Solid Phase Extraction and Determination of Nickel in Water Samples by Using Novel Thiol Containing Sulfonamide Polymeric Resin and Atomic Absorption Spectrophotometer**
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- LI. **Photovoltaic and impedance spectroscopy analysis of p-n like junction for dye sensitized solar cell**
Yahia I. S., HAFEZ H. S., Yakuphanoglu F., Şenkal B. F., MOTTALEB M. S. A. A.
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- LII. **Inhibition of the corrosion of stainless steel by poly-N-vinylimidazole and N-vinylimidazole**
Oncul A., COBAN K., SEZER E., Şenkal B. F.
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- LIII. **Preparation of poly (acrylic acid) containing core-shell type resin for removal of basic dyes**
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- LIV. **Impedance spectroscopy properties of polypyrrole doped with boric acid**
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- LVII. **Electrical characterization with atomic force microscopy and low temperature transport properties of boric acid doped polyaniline with Fe₃O₄ nanoparticles composites**
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- LVIII. **Removal of dyes from water using crosslinked aminomethane sulfonic acid based resin**
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- LIX. **Double-walled carbon nanotube/polymer nanocomposites: Electrical properties under dc and ac fields**
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- LX. **Electrical Characterization of the Boron Trifluoride Doped Poly(3-aminoacetophenone)/p-Si Junction**
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- LXI. **Preparation of Dicarboxylic Acid Containing Sulfonamide Based Resin and Removal of Basic Dyes**
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- LXV. **Synthesis of New Polymeric Resin and Its Application in Solid Phase Extraction of Copper in Water Samples Using STAT-FAAS**
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- LXVI. **Fluorescent chemosensor for Ag(I) based on amplified fluorescence quenching of a new phthalocyanine bearing derivative of benzofuran**
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- LXIX. **Inorganic-organic photodiodes based on polyaniline doped boric acid and polyaniline doped boric acid:nickel(II) phthalocyanine composite**
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- LXX. **Synthesis and liquid crystal properties of phthalocyanine bearing a star polytetrahydrofuran moiety**
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İLTER Z., Şenkal B. F., YAKUPHANOĞLU F., AHMEDZADE M.
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