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Education Information

Doctorate, Yıldız Technical University, Faculty Of Arts & Science, Kimya, Turkey 1991 - 1998

Postgraduate, Yıldız Technical University, Mühendislik , Kimya Mühendisliği, Turkey 1987 - 1990

Undergraduate, Yıldız Üniversitesi, Mühendislik , Kimya Mühendisliği, Turkey 1982 - 1987

Foreign Languages

German, B1 Intermediate

English, B2 Upper Intermediate

Research Areas

Chemistry, Physical Chemistry, Characterization of Polymers, Polymeric Materials, Natural Sciences

Academic Titles / Tasks

Professor, Yıldız Technical University, Fen Edebiyat , Kimya, 2011 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Preparation of partially neutralized poly(acrylic acid) microspheres via inverse pickering suspension polymerization**
Ceylan O., Kaya M. A., Sarac A.
POLYMER ENGINEERING AND SCIENCE, vol.59, no.1, pp.162-169, 2019 (SCI-Expanded)
- II. **Synthesis of Vinyl Acetate co Butyl Acrylate Latexes Investigation of the Effects of Polymerization Temperature on the Latex Properties**
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- III. **Synthesis and electrical properties of hydrogen bonded liquid crystal polymer**
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- V. **Synthesis of ABA Type Block Copolymers of Poly Ethylene Glycol and Poly Dodecyl Vinyl Ether and Its Using as Surfactant in Emulsion Polymerization**
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- XI. **Electrical conductivity, thermoelectric power, and optical properties of organo-soluble polyaniline organic semiconductor**
Yakuphanoglu F., Şenkal B. F., Sarac A.
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- XII. **Preparation of poly(glycidyl methacrylate) grafted sulfonamide based polystyrene resin with tertiary amine for the removal of dye from water**
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- XIII. **A study of some equation-of-state parameters of poly(methylhydrosiloxane-co-dimethylsiloxane) with some solvents by gas chromatography**
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- XIV. **Swelling behavior of polystyrene networks in some aliphatic esters and linear polystyrene solutions**
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- XV. **Semi-continuous emulsion copolymerization of vinyl acetate and butyl acrylate using a new protective colloid. Part 2. Effects of monomer ratio and initiator**
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- XVII. **Film formation stages for poly(vinyl acetate) latex particles: a photon transmission study**
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COLLOID AND POLYMER SCIENCE, vol.284, no.10, pp.1097-1105, 2006 (SCI-Expanded)
- XVIII. **Vapor-induced film formation from low-T-g particles for different solvent compositions**

- Arda E., Kara S., Sarac A., Pekcan O.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.297, no.2, pp.520-524, 2006 (SCI-Expanded)
- XIX. **Preparation of a new polymeric surfactant for emulsion polymerization**
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MACROMOLECULAR SYMPOSIA, vol.239, pp.43-50, 2006 (SCI-Expanded)
- XX. **Emulsion copolymerization of vinyl acetate and 2-ethyl hexyl acrylate using nonionic emulsifiers in loop reactor**
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- XXI. **The ratio of crystallinity and thermodynamical interactions of polycaprolactone with some aliphatic esters and aromatic solvents by inverse gas chromatography**
Sarac A., Sakar D., Cankurtaran O., Karaman F.
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- XXII. **Synthesis and characterization of new alternating, amphiphilic, comblike copolymers of poly(ethylene oxide) macromonomer and N-phenylmaleimide**
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- XXIV. **Semicontinuous emulsion copolymerization of vinyl acetate and butyl acrylate using different initiators and different chain length emulsifiers**
SARAÇ A.
MACROMOLECULAR SYMPOSIA, vol.217, pp.161-167, 2004 (SCI-Expanded)
- XXV. **Effect of initiators and ethoxylation degree of non-ionic emulsifiers on vinyl acetate and butyl acrylate emulsion copolymerization in the loop reactor**
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- XXVIII. **Equation-of-state exchange parameters of poly(methyl methacrylate) with some aliphatic esters**
Cankurtaran Ö., Saraç A., Yilmaz F.
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- XXIX. **Heat Transfers from Gaseous Fuel Oxygen Flames to Metals**
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- I. **Su Bazlı Yapı Son Kat Boyaları Ve Beklentiler**
SARAÇ A., ELGİN C.
Boyatürk, no.65, pp.12-14, 2016 (Peer-Reviewed Journal)
- II. **Boru Reaktörde Farklı Bağlayıcıların Yüksek Performanslı Üretimi**

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Kimya Teknolojileri, no.12, pp.68-71, 2006 (Non Peer-Reviewed Journal)

Books & Book Chapters

- I. **Synthesis and Characterization of Water and Poly(vinyl acetate) Based Wood Adhesives**
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- III. **The Mechanical Properties of Water-Based Emulsion Polymers: Effect of Reaction Conditions**
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- IV. **The Mechanical Properties of Water-Based Emulsion Polymers: Effect of Reaction Conditions**
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- I. **Metal/Insulating Poly(vinyl acetate) Latex with Silicon Surfactant /Si MIS Structure**
Çalışkan M., Kuruoğlu F., Süngü Mısırlıoğlu B., Serin M., Yılmaz M., Saraç Özkan A.
Turkish Physical Society 35rd International Physical Congress, MUĞLA, Turkey., Muğla, Turkey, 4 - 08 September 2019, pp.344-0
- II. **Impedance Spectrum of Poly(vinyl acetate) Latex with Silicon Surfactant**
SÜNGÜ MISIRLIOĞLU B., Gülşen D., GÜVEN ÖZDEMİR Z., ÇALIŞKAN M., SARAÇ A., SERİN M.
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- III. **Silikon Esaslı Dış Cephe Boyaları**
AK K., SARAÇ A.
8.Ulusal Kimya Öğrenci Kongresi, Turkey, 16 - 18 May 2017
- IV. **Pigmentler**
ARAS N., SARAÇ A.
8. Ulusal Kimya Öğrenci Kongresi, Turkey, 16 - 18 May 2017
- V. **Effects of Silicon Surfactant Concentration on the Formation of Micel in Emulsion Polymerization**
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- VI. **New Generation Water Based Emulsion Polymers**
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- VII. **The Effects of Binder and Filler Types and Concentrations on Physicochemical Properties of Water borne Paints**
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- VIII. **Investigation of The Effects of Polymerization Temperature on The Latex Properties**
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- IX. **Semicontinuous Emulsion Copolymerization of Vinyl acetate and Butyl acrylate with Nonionic**

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Karacetin G., Sarac A.

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- X. **Su Bazlı Boyaların Film Özellikleri Üzerine Dolgu Türü ve Konsantrasyonunun Etkileri**
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- XII. **Silica Type Effect on Superhydrophobic Surface Properties of PDMS-Silica Coatings**
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- XIV. **The Salt Effects on the Emulsion Copolymers of Vinyl Acetate and Butyl Acrylate**
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- XV. **Salt Effect on Colloidal Stabilization of Water-Based Emulsion Copolymers**
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- XVI. **Synthesizing Well-Defined Water-Based Latexes**
SARAÇ A.
Paintistanbul 2012, 01 September 2012
- XVII. **Kesikli ve Yarı-Sürekli Emülsiyon Polimerizasyonu: Karşılaştırmalı Deneysel Bir Çalışma**
SARAÇ A.
III. Fiziksel Kimya Günleri, 01 July 2012
- XVIII. **Emülsiyon Polimerlerinin Özellikleri Üzerine Farklı Tuzların Etkisi**
SARAÇ A.
6. Ulusal Analitik Kimya Kongresi, 01 July 2012
- XIX. **Effects of Feeding Type on the Properties of Emulsion Copolymers**
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- XX. **Effect of the Cationic Surfactant and Salt on plasmid DNA Precipitation: Role of the Surface Charge on Precipitation System**
ATACI N., SARAÇ A.
11. International Symposium on Polymers for Advanced Technologies, 01 October 2011
- XXI. **Plasmid DNA precipitation in the presence of cationic surfactant/salt: effect of the surface charge on precipitation**
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- XXIII. **Electrical, Film and Surface Properties of Water-Based Latexes Prepared by Semicontinuous Emulsion Polymerization**
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- XXVI. **Determination of gelation and curing time of various acrylic polymers**
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- XXVII. **Emulsion polymerization of styrene and vinyl acetate with cationic surfactant**
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- XXVIII. **A study on the vinyl acetate-co-butyl acrylate latexes in the presence of n-methylol acrylamide and mixed type emulsifiers**
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- XXIX. **Effects of Emulsifier Type on the Structure of Water-Based Emulsion Polymers**
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- XXX. **Mechanical Properties of Water-Based Emulsion Polymers Effect of Reaction Conditions**
SARAÇ A.
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- XXXI. **Investigation of Mechanical Properties of Emulsion Polymers with Different Colloidal Stabilizators**
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- XXXII. **Boru Reaktörde Sentezlenen Vinil Asetat-ko-Butil Akrilat Lateksleri Üzerine Monomer Oranının Etkisi**
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- XXXIII. **Synthesizing of Vinyl Acetate-co-Butyl Acrylate Latexes in the Loop Reactor: Effect of Various Emulsifiers**
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- XXXIX. **Polikaprolakton' un Aromatik Çözücülerle Termodinamik Etkileşimlerinin Ters Gaz Kromatografisi ile İncelenmesi**
CANKURTARAN Ö., Saraç A., Türe A., Yılmaz F.
XVI. Ulusal Kimya Kongresi, Konya, Turkey, pp.864
- XL. **A Study on Polystyrene Networks in Linear Polystyrene Solutions**
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- XLI. **Determination of Thermodynamical Interaction Parameters and Rate of Crystalline of Polycaprolactone with Some Solvents by Gas Chromatography**
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- XLII. **A Study on Minimum Film Forming of Water-Based Emulsion Copolymers**
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- XLIII. **A Study on the Thermodynamical Interactions of Polycaprolactone with Some Aliphatic Esters**
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- XLIV. **A Study of the Some Thermodynamical Interaction Parameters and Percent Crystallinity of Polycaprolactone with Some Aliphatic Esters and Aromatic Solvents by Inverse Gas Chromatography**
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- XLV. **A Study of Some Equation of State Parameters of Methylhydrosiloxane - Dimethyl Siloxane Copolymer with Some Acetates**
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- XLVI. **Thermodynamical Interactions of Polycaprolactone with Some Aromatic Solvents by Inverse Gas Chromatography**
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- XLVII. **Determination of Ratio of Crystallinity and Some Thermodynamic Interaction Parameters of Polycaprolactone By Gas Chromatography**
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