

Prof. Ayfer SARAÇ ÖZKAN

Personal Information

Web: <https://avesis.yildiz.edu.tr/asarac>

Address: Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 34220 Esenler, İstanbul

International Researcher IDs

ORCID: 0000-0003-1680-9093

Yoksis Researcher ID: 174238

Education

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 Positions

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

Journal articles indexed in 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**
ŞİŞMANOĞLU S., SARAÇ A.
IOSR Journal of Polymer and Textile Engineering, vol.3, no.5, pp.49-52, 2016 (SCI-Expanded)
- III. **Synthesis and electrical properties of hydrogen bonded liquid crystal polymer**
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- IV. **Determination of Critical Micel Concentration of PEG 10 Tallow Propane Amine Effects of Salt and pH**

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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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- VI. **Emulsion Polymerization of Vinyl Acetate in the Presence of a New Cationic Surfactant**
SARAÇ A., ŞENKAL B. F., YILDIRIM M.
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- VII. **A comparative study on water-based coatings prepared in the presence of oligomeric and conventional protective colloids**
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- VIII. **Synthesis and characterization of water-based poly(vinyl acetate-co-butyl acrylate) latexes containing oligomeric protective colloid**
Berber Yamak H., Saraç A., Yildırım H.
POLYMER BULLETIN, vol.66, no.7, pp.881-892, 2011 (SCI-Expanded)
- IX. **Removal of dyes from water using crosslinked aminomethane sulfonic acid based resin**
Kaner D., Sarac A., Şenkal B. F.
ENVIRONMENTAL GEOCHEMISTRY AND HEALTH, vol.32, no.4, pp.321-325, 2010 (SCI-Expanded)
- X. **Semibatch emulsion copolymerization in the presence of n-methylol acrylamide: effects of emulsifier type and concentration**
Kahraman A., Sarac A.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.20, no.3, pp.303-307, 2009 (SCI-Expanded)
- XI. **Electrical conductivity, thermoelectric power, and optical properties of organo-soluble polyaniline organic semiconductor**
Yakuphanoglu F., Şenkal B. F., Sarac A.
JOURNAL OF ELECTRONIC MATERIALS, vol.37, no.6, pp.930-934, 2008 (SCI-Expanded)
- XII. **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)
- XIII. **A study of some equation-of-state parameters of poly(methylhydrosiloxane-co-dimethylsiloxane) with some solvents by gas chromatography**
COSKUN S., Cankurtaran O., Eran B. B., Sarac A.
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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 1. Effect of different emulsifiers**
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- XVI. **Semi-continuous emulsion copolymerization of vinyl acetate and butyl acrylate using a new protective colloid. Part 2. Effects of monomer ratio and initiator**
Sarac A., Berber H., Yildirim H.
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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**
Sarac A., Senkal B. F., Yavuz E., Guersel Y. H.
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**
Sarac A., Keklik M., Yidiz O., Yidirim H.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.98, no.3, pp.1380-1384, 2005 (SCI-Expanded)
- 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**
Cianga L., Sarac A., Ito K., Yagci Y.
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- XXIII. **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)
- XXIV. **Determination of rate of crystallinity and thermodynamical interaction parameters of polycaprolactone with some solvents by gas chromatography**
Sarac A., Cankurtaran O., Yilmaz F.
MACROMOLECULAR SYMPOSIA, vol.217, pp.301-306, 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**
Sarac A., Yidirim H.
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- XXVI. **Determination of some thermodynamical interaction parameters of polycaprolactone with some solvents by inverse gas chromatography**
Sarac A., Ture A., Cankurtaran O., Yilmaz F.
POLYMER INTERNATIONAL, vol.51, pp.1285-1289, 2002 (SCI-Expanded)
- XXVII. **Semicontinuous emulsion polymerization of vinyl acetate: Effect of ethoxylation degree of nonionic emulsifiers**
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JOURNAL OF APPLIED POLYMER SCIENCE, vol.86, no.4, pp.844-851, 2002 (SCI-Expanded)
- XXVIII. **Equation-of-state exchange parameters of poly(methyl methacrylate) with some aliphatic esters**
Cankurtaran Ö., Saraç A., Yilmaz F.
European Polymer Journal, vol.37, pp.747-751, 2001 (SCI-Expanded)
- XXIX. **Heat Transfers from Gaseous Fuel Oxygen Flames to Metals**
GÜLEN F. J., KADIRGAN M. A. N., SARAÇ A.
Applied Energy, vol.39, pp.201-205, 1991 (SCI-Expanded)

Articles Published in Other Journals

- 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**

TURHAN K., SARAÇ A., YILDIRIM H.

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

Books

- I. **Synthesis and Characterization of Water and Poly(vinyl acetate) Based Wood Adhesives**
Saraç Özkan A.
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- II. **Synthesis and Characterization of Water and Poly(vinyl acetate) Based Wood Adhesives**
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in: Polymer science research advances practical applications and educational aspects, A. MÉNDEZ-VÍLAS; A. SOLANO, Editor, FORMATEX, pp.537-543, 2016
- 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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in: Innovations in Chemical Biology, Bilge Sener, Editor, Springer Science + Business Media B.V., pp.405-409, 2009

Papers Presented at Peer-Reviewed Scientific Conferences

- 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.
Turkish Physical Society 33rd International Physical Congress, 6 - 10 September 2017, pp.616
- III. **Pigmentler**
ARAS N., SARAÇ A.
8. Ulusal Kimya Öğrenci Kongresi, Turkey, 16 - 18 May 2017
- IV. **Silikon Esaslı Dış Cephe Boyaları**
AK K., 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**
SARAÇ A., GÜLŞEN D.
JCF-Frühjahrssymposium-2017, Mainz, Germany, 29 March - 01 April 2017
- VI. **New Generation Water Based Emulsion Polymers**
KARADEMİR S., GİDEN V., SARAÇ A.
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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**
ŞİŞMANOĞLU S., SARAÇ A.
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- IX. **Semicontinuous Emulsion Copolymerization of Vinyl acetate and Butyl acrylate with Nonionic**

Surfactants (Triton X Series)

Karacetin G., Sarac A.

15th International Conference on Polymers and Organic Chemistry (POC), Timisoara, Romania, 10 - 13 June 2014, vol.352, pp.72-77

- X. **Su Bazlı Boyaların Fizikokimyasal Özellikleri Üzerine Bağlayıcı ve Dolgu Yüzdesinin Etkileri**
YILDIRIM M., Ceren B., Meriç M., SARAÇ A.
V. Fiziksel Kimya Günleri, Turkey, 16 - 19 May 2015, (Summary Text)
- XI. **Su Bazlı Boyaların Film Özellikleri Üzerine Dolgu Türü ve Konsantrasyonunun Etkileri**
YILDIRIM M., ARIKAN S., BERNA B., SARAÇ A.
V. Fiziksel Kimya Günleri, Turkey, 16 - 19 May 2015, (Summary Text)
- XII. **Silica Type Effect on Superhydrophobic Surface Properties of PDMS-Silica Coatings**
Büyükolca G., Saraç A., DENİZ S.
30. European Conference on Surface Science (ECOSS-30), Antalya, Turkey, 31 August 2014, pp.297-0
- XIII. **Fabrication of Superhydrophobic PDMS-Silica Nanocomposite Coatings**
Büyükolca G., Saraç A., DENİZ S.
2. International Surface Treatment Symposium (ISTS-2014), İstanbul, Turkey, 25 June 2014
- XIV. **The Salt Effects on the Emulsion Copolymers of Vinyl Acetate and Butyl Acrylate**
SARAÇ A.
11th International Symposium on Polymers for Advanced Technologies (PAT 2011), 01 October 2012
- XV. **Salt Effect on Colloidal Stabilization of Water-Based Emulsion Copolymers**
SARAÇ A.
Paintistanbul 2012, 01 September 2012
- 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**
SARAÇ A.
12th Eurasia Chemical Sciences Conference, 01 April 2012
- 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**
Ataci N., Sarac A., ARISAN İ.
European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22
- XXII. **Precipitation in the presence of cationic surfactant/salt; effect of the surface charge on precipitation**
ATACI N., Saraç A., Arisan İ.
European Biotechnology Congress, 01 September 2011
- XXIII. **Electrical, Film and Surface Properties of Water-Based Latexes Prepared by Semicontinuous Emulsion Polymerization**
KAHRAMAN A., SARAÇ A.
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- XXIV. **Effect of NaCl on Plasmid DNA Presipitation with a Cationic Surfactant in Aqueous Solution**

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- XXV. **Investigation of Water-Based Emulsions: Surface and Film-Forming Properties**
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- XXVI. **Determination of gelation and curing time of various acrylic polymers**
KÜÇÜK İ., SARAÇ A., YILDIRIM H.
9th International Symposium on Polymers for Advanced Technologies, Shanghai, China, 22 October 2007, pp.250
- XXVII. **Emulsion polymerization of styrene and vinyl acetate with cationic surfactant**
ERKAL D., Senkal B. F., Sarac A.
3rd International Symposium on Reactive Polymers in Inhomogeneous Systems, in Melts and at Interfaces, Dresden, Germany, 23 - 26 September 2007, vol.254, pp.141-145
- XXVIII. **A study on the vinyl acetate-co-butyl acrylate latexes in the presence of n-methylol acrylamide and mixed type emulsifiers**
KAHRAMAN A., SARAÇ A.
3rd International Symposium on Reactive Polymers in Inhomogeneous Systems, in Melts and at Interfaces, Dresden, Germany, 23 - 26 September 2007, vol.254, pp.136-140
- XXIX. **Effects of Emulsifier Type on the Structure of Water-Based Emulsion Polymers**
Gümrükçü Köse G., Keser Karaođlan G., Saraç A.
8th Austrian Polymer Meeting (The Chain of Knowledge From Catalyst to Application), Linz, Austria, 20 - 22 September 2006, pp.69, (Summary Text)
- XXX. **Mechanical Properties of Water-Based Emulsion Polymers Effect of Reaction Conditions**
SARAÇ A.
9th Eurasia Conference on Chemical Sciences (EuAs C2S-9), Antalya, Turkey, 09 September 2006, pp.228
- 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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XIX. Ulusal Kimya Kongresi, 01 September 2005
- XXXIII. **Synthesizing of Vinyl Acetate-co-Butyl Acrylate Latexes in the Loop Reactor: Effect of Monomer Ratio**
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- XXXIV. **Various Methacrylate Polymers for use in Dental Composites**
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23 rd Discussion Conference Current and Future Trends in Polymeric Materials, Prag, Czech Republic, 26 June 2005, pp.11
- XXXV. **Synthesizing of Vinyl Acetate-co-Butyl Acrylate Latexes in the Loop Reactor: Effect of Various Emulsifiers**
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- XXXVII. **Gaz Yakıt Oksijen Alevlerinden Metallerde Isı İletiminin Ölçülmesi İçin Bir Yöntem**

- GÜLEN F. J., Kadirgan N., Saraç A.
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- XXXVIII. **Gaz Yakıt Oksijen Alevlerinin Metal Çubukları Kesme Sürelerini Ölçerek Bu Alevlerden Isı İletiminin Kıyaslanması**
GÜLEN F. J., Saraç A., Kadirgan N.
VI. Kimya Kimya Mühendisliği Sempozyumu, İzmir, Turkey, 09 October 1989, pp.50-51
- XXXIX. **A Study on Polystyrene Networks in Linear Polystyrene Solutions**
CANKURTARAN Ö., Şakar D., Saraç A., Yılmaz F.
Polymer Gels & Networks, Czech Republic
- XL. **Determination of Thermodynamical Interaction Parameters and Rate of Crystalline of Polycaprolactone with Some Solvents by Gas Chromatography**
CANKURTARAN Ö., Saraç A., Yılmaz F.
6th Austrian Polymer Meeting, Austria
- XLI. **Polikaprolakton' un Aromatik Çözücülerle Termodinamik Etkileşimlerinin Ters Gaz Kromatografisi ile İncelenmesi**
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XVI. Ulusal Kimya Kongresi, Konya, Turkey, pp.864, (Summary Text)
- XLII. **A Study of Some Equation of State Parameters of Methylhydrosiloxane - Dimethyl Siloxane Copolymer with Some Acetates**
CANKURTARAN Ö., coşkun S., Bilgin Eran B., Saraç A.
7th Austrian Polymer Meeting, Austria
- XLIII. **Determination of Ratio of Crystallinity and Some Thermodynamic Interaction Parameters of Polycaprolactone By Gas Chromatography**
CANKURTARAN Ö., Saraç A., Yılmaz F.
Romanian Conference on Advanced Materials, Romania, pp.39
- 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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ISPAC Conference, Germany, pp.-69
- XLV. **Thermodynamical Interactions of Polycaprolactone with Some Aromatic Solvents by Inverse Gas Chromatography**
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- XLVI. **A Study on the Thermodynamical Interactions of Polycaprolactone with Some Aliphatic Esters**
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- XLVII. **A Study on Minimum Film Forming of Water-Based Emulsion Copolymers**
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Funded Projects

SARAÇ ÖZKAN A., Project Supported by Higher Education Institutions, Yıldız Teknik Üniversitesi ArGe Faaliyetleri Potansiyelinin Geliştirilmesi, 2017 - 2020

KARAMAN F., SARAÇ A., ŞAKAR DAŞDAN D., YAZICI Ö., UĞRAŞKAN V., BALLIKAYA S., HÜNER A., Project Supported by Higher Education Institutions, Politiyofen/poly(3,4-etilen dioksi tiyofen) nanokompozitlerin termoelektrik özelliklerine manyetik alanın etkisinin araştırılması, 2015 - 2018

SARAÇ ÖZKAN A., Project Supported by Higher Education Institutions, YENİ YÜZEY AKTİF MADDELER VARLIĞINDA FARKLI EMÜLSİYON POLİMERLERİNİN SENTEZİ ve KARAKTERİZASYONU, 2015 - 2017

SARAÇ ÖZKAN A., Project Supported by Higher Education Institutions, Yeni Polimerik Yüzey Aktif Maddelerin Sentezi Ve

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Peer Reviews in Scientific Publications

Organik Kaplayıcılarda Gelişmeler, SCI Journal, April 2007

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Metrics

Publication: 87

Citation (WoS): 261

Citation (Scopus): 277

H-Index (WoS): 9

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