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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**
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**
Korkmaz B., Canli N., Ozdemir Z., Okutan M., Gursel Y. H., Saraç A., Şenkal B. F.
JOURNAL OF MOLECULAR LIQUIDS, vol.219, pp.1030-1035, 2016 (SCI-Expanded)
- IV. **Determination of Critical Micel Concentration of PEG 10 Tallow Propane Amine Effects of Salt and pH**

- ATACI N., SARAÇ A.
American Journal of Analytical Chemistry, vol.5, no.1, pp.22-27, 2014 (SCI-Expanded)
- V. **Synthesis of ABA Type Block Copolymers of Poly Ethylene Glycol and Poly Dodecyl Vinyl Ether and Its Using as Surfactant in Emulsion Polymerization**
GÜRSEL Y., SARAÇ A., ŞENKAL B. F.
American Journal of Analytical Chemistry, vol.5, no.1, pp.39-44, 2014 (SCI-Expanded)
- VI. **Emulsion Polymerization of Vinyl Acetate in the Presence of a New Cationic Surfactant**
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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., Yıldırım 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**
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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.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.104, no.3, pp.1627-1631, 2007 (SCI-Expanded)
- XIV. **Swelling behavior of polystyrene networks in some aliphatic esters and linear polystyrene solutions**
Sakar D., Sarac A., Cankurtaran O., Karaman F.
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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**
Sarac A., Berber H., Yildirim H.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.17, pp.860-864, 2006 (SCI-Expanded)
- XVI. **Semi-continuous emulsion copolymerization of vinyl acetate and butyl acrylate using a new protective colloid. Part 1. Effect of different emulsifiers**
Sarac A., Yidirim H.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.17, pp.855-859, 2006 (SCI-Expanded)
- XVII. **Film formation stages for poly(vinyl acetate) latex particles: a photon transmission study**
Kara S., Pekcan O., Sarac A., Arda E.
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.
POLYMER BULLETIN, vol.53, pp.349-357, 2005 (SCI-Expanded)
- 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.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.43, no.3, pp.479-492, 2005 (SCI-Expanded)
- XXIII. **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)
- 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**
Sarac A., Yidirim H.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.90, no.2, pp.537-543, 2003 (SCI-Expanded)
- 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**
Sarac A., Erbil H., Yildirim H.
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 & Book Chapters

- I. **Synthesis and Characterization of Water and Poly(vinyl acetate) Based Wood Adhesives**
Saraç Özkan A.
in: Polymer science: research advances, practical applications and educational aspects, A. Méndez-Vilas ;,A. Solano, Editor, FORMATEX , Badajoz, pp.537-543, 2016
- 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**
Saraç A., Turhan K.
in: Innovations in Chemical Biology, Bilge ŞENER, Editor, Springer-Verlag , Dordrecht, pp.405-409, 2009
- IV. **The Mechanical Properties of Water-Based Emulsion Polymers: Effect of Reaction Conditions**
TURHAN K., SARAÇ A.
in: Innovations in Chemical Biology, Bilge Sener, Editor, Springer Science + Business Media B.V., pp.405-409, 2009

Refereed Congress / Symposium Publications in Proceedings

- 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. **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**
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.
International Turkish Congress on Molecular Spectroscopy (TURCMOS2015), 13 - 18 September 2015
- 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 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
- XI. **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
- 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**
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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**

Atacı N., Karaca Balta D., Saraç Özkan A., Arısan I.

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- XXV. **Investigation of Water-Based Emulsions: Surface and Film-Forming Properties**
Tiğci Y., SARAÇ A.
48th Microsymposium on Polymer Colloids - From Design to Biomedical and Industrial Applications, Prague, Czech Republic, 20 - 24 July 2008, vol.281, pp.206-212
- XXVI. **Determination of gelation and curing time of various acrylic polymers**
KÜÇÜK İ., SARAÇ A., YILDIRIM H.
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- 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**
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8th Austrian Polymer Meeting (The Chain of Knowledge From Catalyst to Application), Linz, Austria, 20 - 22 September 2006, pp.69
- 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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Chemical Physics VII, The Seventh International Conference on Chemical Physics, Isparta, Turkey, 19 May 2006, pp.78
- XXXII. **Boru Reaktörde Sentezlenen Vinil Asetat-ko-Butil Akrilat Lateksleri Üzerine Monomer Oranının Etkisi**
TURHAN K., SARAÇ A., YILDIRIM H.
XIX. Ulusal Kimya Kongresi, 01 September 2005
- XXXIII. **Synthesizing of Vinyl Acetate-co-Butyl Acrylate Latexes in the Loop Reactor: Effect of Various Emulsifiers**
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- XXXIV. **Synthesizing of Vinyl Acetate-co-Butyl Acrylate Latexes in the Loop Reactor: Effect of Monomer Ratio**
TURHAN K., SARAÇ A., YILDIRIM H.
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- XXXV. **Various Methacrylate Polymers for use in Dental Composites**
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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. **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**
CANKURTARAN Ö., Şakar D., Saraç A., Yılmaz F.
Polymer Gels & Networks, Czech Republic
- XLI. **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
- XLII. **A Study on Minimum Film Forming of Water-Based Emulsion Copolymers**
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11th International Symposium on Polymers for Advanced Technologies (PAT 2011)
- XLIII. **A Study on the Thermodynamical Interactions of Polycaprolactone with Some Aliphatic Esters**
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International Organic Chemistry Meeting (MKU-IOCM), Hatay, Turkey, pp.61
- 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**
CANKURTARAN Ö., Saraç A., Yılmaz F.
ISPAC Conference, Germany, pp.-69
- XLV. **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
- XLVI. **Thermodynamical Interactions of Polycaprolactone with Some Aromatic Solvents by Inverse Gas Chromatography**
CANKURTARAN Ö., Saraç A., Yılmaz F.
Fluid Transport in Nanoporous Materials, France, pp.122
- XLVII. **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

Supported 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., HÜNER K., BALLIKAYA S., 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

Emülsiyon Polimerizasyonunda Kullanımları, 2012 - 2016

SARAÇ ÖZKAN A., Project Supported by Higher Education Institutions, Emülsiyon Polimerlerinin Bazı Özelliklerinin Matematiksel Modellenmesi, 2012 - 2015

SARAÇ ÖZKAN A., Project Supported by Higher Education Institutions, İyi Tanımlanmış Emülsiyon Polimerlerinin Farklı Emülgatörlerin Değişen Konsantrasyonları Kullanılarak Sentezi, Karakterizasyonu, Koloidal, Termal ve Yüzey Özelliklerinin İncelenmesi, 2011 - 2012

SARAÇ ÖZKAN A., Project Supported by Higher Education Institutions, İyi Tanımlanmış Su Bazlı Emülsiyon Polimerlerinin Sentezi, Yüzey ve Elektriksel Özelliklerinin İncelenmesi, 2009 - 2011

Scientific Refereeing

Organik Kaplayıcılarda Gelişmeler, SCI Journal, April 2007

Uygulamalı Polimer Bilimi Dergisi, SCI Journal, March 2005

Metrics

Publication: 87

Citation (WoS): 261

Citation (Scopus): 274

H-Index (WoS): 9

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