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Education Information

Doctorate, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2010 - 2017

Postgraduate, Eskişehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 2007 - 2010

Undergraduate, Anadolu University, Fen Fakültesi, Kimya Bölümü, Turkey 2002 - 2007

Dissertations

Doctorate, Azot, fosfor ve kükürt içeren polimerik mikro ve nano partiküllerin sentezi ve çeşitli uygulamalarda kullanımları, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2017

Postgraduate, Uyarıya duyarlı yüzeye sahip polistiren latekslerin sentez ve karakterizasyonu, Eskişehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2010

Research Areas

Biomedical Engineering, Polymer Technology, Catalysis and Catalytic Processes, Chemistry

Academic Titles / Tasks

Assistant Professor, Eskişehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Biyomedikal Mühendisliği, 2019 - Continues

Academic and Administrative Experience

Head of Department, Eskişehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Biyomedikal Mühendisliği, 2020 - Continues

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

I. Tunable Friction Through Stimuli Responsive Hybrid Carbon Microspheres

Oak S., Pashazanusi L., Sengel S., Omarova M., Hemstock J. L., He W., He J., John V., Sahiner N., Pesika N. S. LANGMUIR, vol.35, no.48, pp.15849-15854, 2019 (Journal Indexed in SCI)

II. Synthesis and characterization of poly(N-(2-mercaptoethyl) acrylamide) microgel for biomedical applications

Sengel S., ŞAHİNER N.

POLYMERS FOR ADVANCED TECHNOLOGIES, vol.30, no.8, pp.2109-2121, 2019 (Journal Indexed in SCI)

- III. **Highly regenerable ionic liquid microgels as inherently metal-free green catalyst for H-2 generation**
ÖZTÜRK O., Demirci S., BÜTÜN ŞENGEL S., ŞAHİNER N.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.29, no.5, pp.1426-1434, 2018 (Journal Indexed in SCI)
- IV. **Various amine functionalized halloysite nanotube as efficient metal free catalysts for H-2 generation from sodium borohydride methanolysis**
ŞAHİNER N., BÜTÜN ŞENGEL S.
APPLIED CLAY SCIENCE, vol.146, pp.517-525, 2017 (Journal Indexed in SCI)
- V. **Removal of arsenate and dichromate ions from different aqueous media by amine based p(TAEA-co-GDE) microgels**
Rehman S. U. , Khan A. R. , Sahiner M., BÜTÜN ŞENGEL S., Aktaş N., Siddiq M., ŞAHİNER N.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.197, pp.631-641, 2017 (Journal Indexed in SCI)
- VI. **Poly((Thiazol-2-yl) acrylamide), p(ATA) microgel: Synthesis, characterization and versatile applications**
BÜTÜN ŞENGEL S., ŞAHİNER N.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.522, pp.272-278, 2017 (Journal Indexed in SCI)
- VII. **Halloysite-carboxymethyl cellulose cryogel composite from natural sources**
BÜTÜN ŞENGEL S., Sahiner M., Aktas N., ŞAHİNER N.
APPLIED CLAY SCIENCE, vol.140, pp.66-74, 2017 (Journal Indexed in SCI)
- VIII. **Environmentally benign halloysite clay nanotubes as alternative catalyst to metal nanoparticles in H-2 production from methanolysis of sodium borohydride**
ŞAHİNER N., BÜTÜN ŞENGEL S.
FUEL PROCESSING TECHNOLOGY, vol.158, pp.1-8, 2017 (Journal Indexed in SCI)
- IX. **Surfactant free synthesis and characterization of poly(vinyl carbazole) microgel and its chemical modifications**
ŞAHİNER N., BÜTÜN ŞENGEL S.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.514, pp.243-250, 2017 (Journal Indexed in SCI)
- X. **A facile preparation of donut-like supramolecular tannic acid-Fe(III) composite as biomaterials with magnetic, conductive, and antioxidant properties**
ŞAHİNER N., BÜTÜN ŞENGEL S., YILDIZ M.
JOURNAL OF COORDINATION CHEMISTRY, vol.70, no.21, pp.3619-3632, 2017 (Journal Indexed in SCI)
- XI. **Quaternized polymeric microgels as metal free catalyst for H-2 production from the methanolysis of sodium borohydride**
ŞAHİNER N., BÜTÜN ŞENGEL S.
JOURNAL OF POWER SOURCES, vol.336, pp.27-34, 2016 (Journal Indexed in SCI)
- XII. **Tannic acid decorated poly(methacrylic acid) micro and nanoparticles with controllable tannic acid release and antioxidant properties**
ŞAHİNER N., BÜTÜN ŞENGEL S.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.508, pp.30-38, 2016 (Journal Indexed in SCI)
- XIII. **Poly(vinyl phosphonic acid) nanogels with tailored properties and their use for biomedical and environmental applications**
BÜTÜN ŞENGEL S., ŞAHİNER N.
EUROPEAN POLYMER JOURNAL, vol.75, pp.264-275, 2016 (Journal Indexed in SCI)
- XIV. **Reusable Soft Hydrogels for Gold Recovery from Acidic Environments**
ŞAHİNER N., Karakoyun N., Şahan T., Butun S., Aktaş N.
SEPARATION SCIENCE AND TECHNOLOGY, vol.48, no.5, pp.805-812, 2013 (Journal Indexed in SCI)
- XV. **p(AAGA) hydrogel reactor for in situ Co and Ni nanoparticle preparation and use in hydrogen**

generation from the hydrolysis of sodium borohydride

ŞAHİNER N., Butun S., Turhan T.

CHEMICAL ENGINEERING SCIENCE, vol.82, pp.114-120, 2012 (Journal Indexed in SCI)

- XVI. **Porous and modified HA particles as potential drug delivery systems**
ŞAHİNER N., SILAN C., Sagbas S., ILGIN P., Butun S., ERDUĞAN H., Ayyala R. S.
MICROPOROUS AND MESOPOROUS MATERIALS, vol.155, pp.124-130, 2012 (Journal Indexed in SCI)
- XVII. **Utilization of Smart Hydrogel-Metal Composites as Catalysis Media**
ŞAHİNER N., Butun S., ÖZAY Ö., Dibek B.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.373, pp.122-128, 2012 (Journal Indexed in SCI)
- XVIII. **Modifiable chemically crosslinked poli(kappa-carrageenan) particles**
Sagbas S., Butun S., ŞAHİNER N.
CARBOHYDRATE POLYMERS, vol.87, no.4, pp.2718-2724, 2012 (Journal Indexed in SCI)
- XIX. **Soft hydrogels for dual use: Template for metal nanoparticle synthesis and a reactor in the reduction of nitrophenols**
ŞAHİNER N., Kaynak A., Butun S.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.358, no.4, pp.758-764, 2012 (Journal Indexed in SCI)
- XX. **Novel hydrogel particles and their IPN films as drug delivery systems with antibacterial properties**
SILAN C., AKÇALI A., Otkun M. T., Ozbey N., Butun S., ÖZAY Ö., ŞAHİNER N.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.89, pp.248-253, 2012 (Journal Indexed in SCI)
- XXI. **Hydrogel templated CdS quantum dots synthesis and their characterization**
ŞAHİNER N., SEL K., Meral K., ONGANER Y., Butun S., ÖZAY Ö., SILAN C.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.389, pp.6-11, 2011 (Journal Indexed in SCI)
- XXII. **A versatile hydrogel template for metal nano particle preparation and their use in catalysis**
Butun S., ŞAHİNER N.
POLYMER, vol.52, no.21, pp.4834-4840, 2011 (Journal Indexed in SCI)
- XXIII. **One-step fabrication of biocompatible carboxymethyl cellulose polymeric particles for drug delivery systems**
Butun S., Ince F. G., ERDUĞAN H., ŞAHİNER N.
CARBOHYDRATE POLYMERS, vol.86, no.2, pp.636-643, 2011 (Journal Indexed in SCI)
- XXIV. **Hydrogel particles with core shell morphology for versatile applications: Environmental, biomedical and catalysis**
ŞAHİNER N., Butun S., ILGIN P.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.386, pp.16-24, 2011 (Journal Indexed in SCI)
- XXV. **Soft hydrogel particles with high functional value**
ŞAHİNER N., Butun S., ILGIN P.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.381, pp.74-84, 2011 (Journal Indexed in SCI)
- XXVI. **Hyaluronic acid hydrogel particles with tunable charges as potential drug delivery devices**
EKİCİ S., ILGIN P., Butun S., ŞAHİNER N.
CARBOHYDRATE POLYMERS, vol.84, no.4, pp.1306-1313, 2011 (Journal Indexed in SCI)
- XXVII. **Micelles and 'reverse micelles' with a novel water-soluble diblock copolymer**
BÜTÜN V., Sonmez S., YARLIGAN UYSAL S., Taktak F. F., Atay A., BÜTÜN ŞENGEL S.
POLYMER, vol.49, no.19, pp.4057-4065, 2008 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. The use of titanium dioxide particles embedded in anionic hydrogel composite for photocatalytic degradation of methylene blue**

ARI B., BÜTÜN ŞENGEL S., ŞAHİNER N.

SPE Polymers, 2021 (Refereed Journals of Other Institutions)

II. Functionalization of Carbon Particles by Atom Transfer Radical Polymerization

ŞAHİNER N., BÜTÜN ŞENGEL S.

MRS ADVANCES, vol.2, no.47, pp.2537-2544, 2017 (Journal Indexed in ESCI)

III. The Use of Cu, Ni and Co Metal Nanoparticles Generated in Acidic Hydrogels as Catalysts in the Reduction of Nitro Phenols

ŞAHİNER N., BÜTÜN ŞENGEL S.

Journal of Hydrogels, vol.1, no.1, pp.63-69, 2015 (Refereed Journals of Other Institutions)

IV. Preparation of collagen based composite materials with synthetic polymers for potential wound dressing applications

Sahiner M., BÜTÜN ŞENGEL S., ALPASLAN D., Bitlisli B. O.

Hacettepe Journal of Biology and Chemistry, vol.1, no.42, pp.63-69, 2014 (Other Refereed National Journals)

Books & Book Chapters

I. Responsive biopolymer-based microgels/nanogels for drug delivery applications

Suner S. S. , Sahiner M., BÜTÜN ŞENGEL S., Rees D. J. , Reed W. F. , ŞAHİNER N.

in: Stimuli Responsive Polymeric Nanocarriers for Drug Delivery Applications, , Editor, Woodhead Publishing, pp.453-500, 2018

II. 0D, 1D, 2D, and 3D Soft and Hard Templates for Catalysis

BÜTÜN ŞENGEL S., Demirci S., Yasar A. O. , Sagbas S., Aktas N., ŞAHİNER N.

in: Studies in Surface Science and Catalysis, , Editor, Elsevier, pp.317-357, 2017

Refereed Congress / Symposium Publications in Proceedings

I. Kalsiyum Aljinat-M (M:Co, Ni, Cu, Ag vb.) Kompozit Mikrokürelerin Sentezi ve NaBH₄ Hidrolizinde Katalizör Olarak Kullanımı

KEYİK K., BÜTÜN ŞENGEL S.

32. Ulusal Kimya Kongresi, Turkey, 17 - 19 September 2020

II. Çevre ve Enerji Uygulamaları İçin Silika Aerojel Kompozitler

Somaklı Ş., BÜTÜN ŞENGEL S.

32. Ulusal Kimya Kongresi, Turkey, 17 - 19 September 2020

III. Titanyum Dioksit İçeren Anyonik Hidrojel Kompozitin Metilen Mavisi Boyasının Fotokatalitik Bozunmasında Kullanılması

ARI B., BÜTÜN ŞENGEL S., ŞAHİNER N.

Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi, Turkey, 09 September 2018

IV. Microwave-assisted Hydrodistillation Of Essential Oils From Dried Lavender Leaves And Their Stabilization By Micro/nanoemulsions

İŞLETEN HOŞOĞLU M., ÇELEBİ UZKUÇ N. M. , YÜCEER Y., BÜTÜN ŞENGEL S., ŞAHİNER N.

Bioflavour 2018 - Biotechnology Of Flavours, Fragrances And Functional Ingredient, Frankfurt, Germany, 18 - 21 September 2018

V. Azot, Fosfor ve Kükürt İçeren Polimerik Mikro ve Nano Partiküllerin Sentezi ve Çeşitli Uygulamalarda Kullanımları

BÜTÜN ŞENGEL S., ŞAHİNER N.

Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi, Eskişehir, Turkey, 9 - 12 September 2018

VI. Poli(etilen imin) Modifiye Edilmiş Gözenekli Karbon Partiküllerinin Karakterizasyonu ve Katalizör Uygulamaları

DEMİRCİ Ş., BÜTÜN ŞENGEL S., YILDIZ M., ŞAHİNER N.

Uluslararası Katılımlı . VII. Polimer Bilim ve Teknoloji Kongresi, Eskişehir, Turkey, 9 - 12 September 2018

- VII. **Functionalization of Carbon Particles by Atom Transfer Radical Polymerization**
ŞAHİNER N., BÜTÜN ŞENGEL S.
Materials Research Society Spring Meeting Exhibit, 17 - 21 April 2017
- VIII. **Halloysite-carboxymethyl Cellulose Cryogel Composite From Natural Sources**
BÜTÜN ŞENGEL S.
3rd International Conference On Bio-based Polymers And Composites, Hungary, 28 August 2016
- IX. **The Use of Poly(tris(2-aminoethyl)amine-Co-Glycerol Diglycidyl Ether) Microgel as Template for Co, Ni Nanoparticles and Their Use as Catalyst for H₂ Production from NABH₄ Hydrolysis**
BÜTÜN ŞENGEL S.
POLYMER SCIENCE AND ENERGY, NEW ORLEANS, United States Of America, 24 August 2016
- X. **Polyethyleneimine Modified Halloysite Embedding P(Acrylamide) Cryogel Composites**
BÜTÜN ŞENGEL S.
46TH IUPAC WORLD POLYMER CONGRESS, İstanbul, Turkey, 20 July 2016
- XI. **In Situ Conductive Polymer Synthesis in Neutral, Cationic, And Anionic Cryogels and Their Potential Sensor Applications**
BÜTÜN ŞENGEL S.
46TH IUPAC WORLD POLYMER CONGRESS, İstanbul, Turkey, 20 July 2016
- XII. **Modified Halloysite Macrogels Using Absorption Study**
BÜTÜN ŞENGEL S.
INTERNATIONAL POROUS AND POWDER MATERIALS SYMPOSIUM AND EXHIBITION, İzmir, Turkey, 18 September 2015
- XIII. **FENOLLERİN BİYOCAR İÇEREN HİDROJEL KOMPOZİTLERİ İLE ATIK SULARDAN UZAKLAŞTIRILMASI**
BÜTÜN ŞENGEL S.
25. ULUSAL KİMYA KONGRESİ, Erzurum, Turkey, 26 November 2011
- XIV. **NİTROFENOLLERİN METAL YÜKLÜ HİDROJELLER KULLANILARAK KATALİTİK REAKSİYON SONUCUNDA AMİNOFENOLE DÖNÜŞTÜRÜLMESİ**
BÜTÜN ŞENGEL S.
25. ULUSAL KİMYA KONGRESİ, Erzurum, Turkey, 27 June 2011
- XV. **ÇEKİRDEK-KABUK YAPISINDA MODİFİYE HİDROJEL NANOPARTİKÜLLERİNİN SENTEZ, KARAKTERİZASYON VE ÇEŞİTLİ UYGULAMA ÇALIŞMALARI**
BÜTÜN ŞENGEL S.
25. ULUSAL KİMYA KONGRESİ, Erzurum, Turkey, 27 June 2011
- XVI. **TUNEABLE FUNCTIONAL CORE-SHELL POLYMERIC PARTICLE DESIGN FOR VERSATILE APPLICATIONS: DRUG DELIVERY, ENVIRONMENTS AND THE CATALYSIS**
BÜTÜN ŞENGEL S.
FRONTIERS IN POLYMER SCIENCE, Lyon, France, 30 May 2011
- XVII. **HYDROGEL TEMPLATES FOR METAL NANOPARTICLE PREPARATION AND THEIR USE AS REACTORS**
BÜTÜN ŞENGEL S.
FRONTIERS IN POLYMER SCIENCE, Lyon, France, 30 May 2011
- XVIII. **PREPARATION OF COLLAGEN BASED COMPOSITE MATERIALS WITH SYNTHETIC POLYMERS FOR POTENTIAL WOUND DRESSING APPLICATION**
BÜTÜN ŞENGEL S.
II INTERNATIONAL LEATHER ENGINEERING CONGRESS ON INNOVATIVE ASPECTS FOR LEATHER INDUSTRY, İzmir, Turkey, 12 May 2011
- XIX. **UTILIZATION OF SMART HYDROGEL-METAL COMPOSITES AS CATALYSIS MEDIA**
BÜTÜN ŞENGEL S.
COLLOID AND MATERIALS 2011, THE 1ST INTERNATIONAL SYMPOSIUM ON COLLOIDS AND MATERIALS: NEW SCIENTIFIC HORIZONS, Amsterdam, Netherlands, 09 May 2011
- XX. **COLLAGEN BASED HYBRID HYDROGELS FILMS**
BÜTÜN ŞENGEL S.

COLLOID AND MATERIALS 2011, THE 1ST INTERNATIONAL SYMPOSIUM ON COLLOIDS AND MATERIALS: NEW SCIENTIFIC HORIZONS, Amsterdam, Netherlands, 08 May 2011

- XXI. **MULTI RESPONSIVE TUNABLE CORE SHELL POLYMERIC HYDROGEL NANOPARTICLES AS VERSATILE TOOLS IN BIOMEDICAL FIELDS**
BÜTÜN ŞENGEL S.
241ST AMERICAN CHEMICAL SOCIETY NATIONAL MEETING AND EXPOSITION, POLYMER, United States Of America, 28 March 2011
- XXII. **In situ preparation of various metal nanoparticles within hydrogel networks and their application in catalysis**
Sahiner N., Ozay O., Butun S., Demir V., Dibek B., Aktas N., He J., John V. T.
241st National Meeting and Exposition of the American-Chemical-Society (ACS), California, United States Of America, 27 - 31 March 2011, vol.241
- XXIII. **P(4-VINYLPYRIDINE) BASED SMART NANOPARTICLES WITH TUNABLE CHARACTERISTICS AND FUNCTIONS**
BÜTÜN ŞENGEL S.
FUNCTIONAL POLYMER SURFACES AND INTERFACES, ACS- SWRM AND SERMACS 2010, NEW ORLEANS, United States Of America, 30 December 2010
- XXIV. **METAL NANOPARTICLE SYNTHESIS INSIDE SMART HYDROGELS AND THEIR UTILIZATION AS CATALYST FOR VARIOUS ORGANIC REACTIONS**
BÜTÜN ŞENGEL S.
ACS- SWRM AND SERMACS 20102010 (66TH SOUTHWEST AND 62ND SOUTHEASTERN REGIONAL MEETING OF AMERICAN CHEMICAL SOCIETY), NEW ORLEANS, United States Of America, 30 September 2010
- XXV. **POLYMERIC HYDROGEL NANOPARTICLES WITH MAGNETIC PROPERTY AS POTENTIALS IN TARGETED DELIVERY OF ACTIVE AGENTS**
BÜTÜN ŞENGEL S.
24TH CONFERENCE OF THE EUROPEAN COLLOID AND INTERFACE SOCIETY (ECIS), Czech Republic, 06 September 2010
- XXVI. **İLAÇ SALINIMI SİSTEMİ İÇİN TEK BASAMAKTA KARBOKSİMETİL SELÜLOZ ESASLI POLİMERİK PARTİKÜLLER**
BÜTÜN ŞENGEL S.
24. ULUSAL KİMYA KONGRESİ, Zonguldak, Turkey, 29 June 2010
- XXVII. **MODİFİYE EDİLMİŞ NANO- VE MİKRO-HİYALURONİK ASİT PARTİKÜLLERİNİN DENETİMLİ BİYOAKTİF TÜR SALIM ÇALIŞMALARINDAKİ KULLANIMI**
BÜTÜN ŞENGEL S.
24. ULUSAL KİMYA KONGRESİ, Zonguldak, Turkey, 29 June 2010
- XXVIII. **Evaluation of the Angiogenic Activity of Salvia triloba L. Essential Oil**
Koparal A. T. , Demirci B., Kaya M., Duali G., BÜTÜN ŞENGEL S., Baser K. H. C. , Demirci F.
8th Annual Oxford International Conference on Science of Botanicals, Oxford, England, 06 April 2009, vol.75, pp.421
- XXIX. **TİMOKİNONUN FUNGAL BİYOTRANSFORMASYONU**
BÜTÜN ŞENGEL S.
18.BİTKİSEL İLAÇ HAMMADDELERİ TOPLANTISI, İstanbul, Turkey, 16 October 2008
- XXX. **SICAKLIK- , PH- , TUZ-DUYARLI YÜZEYE SAHİP YENİ TİP LATEKSLERİN SENTEZ VE KAREKTERİZASYONU**
BÜTÜN ŞENGEL S.
XXII. ULUSAL KİMYA KONGRESİ, GAZİ MAGOSA, Cyprus (Kktc), 06 October 2008

Supported Projects

Bütün Şengel S., Eker Sarıboyacı A., TUBİTAK Project, Rejeneratif ve Restoratif Tıp Araştırmaları ve Uygulamaları, 2021 -

2025

Bütün Şengel S., Göger G., Project Supported by Higher Education Institutions, *Cotinus coggygia* Scop. bitki ekstrelerinden nano/mikro partiküllerin hazırlanması ve in vivo *Caenorhabditis elegans* modelinde antimikrobiyal etkilerinin araştırılması, 2021 - 2023

Bütün Şengel S., Kurama H., Project Supported by Higher Education Institutions, Çevresel Uygulamalar için Kompozit Hidrojel Üretimi, 2021 - 2022

Bütün Şengel S., Somaklı Ş., Project Supported by Higher Education Institutions, Silica Aerogel Composites for Environmental and Energy Applications, 2021 - 2022

Bütün Şengel S., TUBITAK Project, Petroleum Sülfonat Tuzları Sentezi Ve Pilot Ölçekli Üretimi, 2017 - 2019

Bütün Şengel S., Şahiner N., Project Supported by Higher Education Institutions, Azot, Fosfor ve Kükürt İçeren Polimerik Mikro ve Nano Partiküllerin Sentezi ve Çeşitli Uygulamalarda Kullanımları, 2017 - 2017

Bütün Şengel S., TUBITAK Project, Yarı Sentetik Metal İşleme Sıvılarında Mineral Yağın Yerine Kullanılabilecek Poliesterlerin Sentezlenmesi, 2012 - 2013

Citations

Total Citations (WOS):677

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