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International Researcher IDs

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ScopusID: 24491630600

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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, Faculty Of Science, Department Of Chemistry, 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, Uyariya 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, Polymers and Their Applications, Functional Polymers, Composites, Natural Sciences

Academic Titles / Tasks

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

Academic and Administrative Experience

Bölüm Akademik Teşvik Değerlendirme Komisyonu Başkanı, Eskişehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Biyomedikal Mühendisliği, 2020 - Continues

Head of Department, Eskişehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Biyomedikal Mühendisliği, 2021 -

2024

Fakülte Kurulu Üyesi, Eskişehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Biyomedikal Mühendisliği, 2021 - 2024

Advising Theses

Bütün Şengel S., Kriyojel Doku İskelesi: Wharton Jeli Kaynaklı Mezenkimal Kök Hücre Kullanılarak Yönlendirilmiş Doku Mühendisliği Uygulamaları, Postgraduate, F.IDRISOVA(Student), 2024

Bütün Şengel S., Polisakkarit bazlı poliyonik sıvılar ve biyomedikal uygulamaları, Postgraduate, H.DEVECİ(Student), 2024

Bütün Şengel S., Erdem Gürsan K. A., Polisakkarit-kriyojel temelli elektrokimyasal biyosensör geliştirilmesi ve uygulamaları, Postgraduate, N.TUNCA(Student), 2023

Bütün Şengel S., Çevre ve enerji uygulamaları için silika aerojel kompozitler, Postgraduate, Ş.SOMAKLI(Student), 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A novel green Microfiltration approach by developing a Lab-on-a-Chip System: A case study for Escherichia coli**
Javanifar R., Dabagh S., Kaya M., Bütün Şengel S., Ebrahimi A., Ghorbanpoor H., Avcı H.
Separation and Purification Technology, vol.353, 2025 (SCI-Expanded)
- II. **Developing a Novel Platelet-Rich Plasma-Laden Bioadhesive Hydrogel Contact Lens for the Treatment of Ocular Surface Chemical Injuries**
Soykan M. N., Altug B., Bas H., Ghorbanpoor H., Avcı H., Eroglu S., Sengel S., Sariboyaci A., Bagis S., Uysal O., et al.
MACROMOLECULAR BIOSCIENCE, vol.23, no.12, 2023 (SCI-Expanded)
- III. **PDMA cryogel beads as a catalyst for hydrogen generation from NaBH₄ alcoholysis**
BÜTÜN ŞENGEL S., Deveci H., BÜTÜN V.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.48, no.76, pp.29530-29541, 2023 (SCI-Expanded)
- IV. **Hydro(Solvo)Thermal-Supported Nano/Microparticle-Doped Silica Aerogels: Synthesis, Characterization and Catalyst Applications for H₂ Production**
Somaklı Ş., Bütün Şengel S.
SILICON, vol.0, no.0, 2023 (SCI-Expanded)
- V. **Clay/nanocomposite hydrogels: In review**
Kurama H., Bütün Şengel S.
PHYSICO-CHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.59, no.5, pp.165991, 2023 (SCI-Expanded)
- VI. **Carbon spheres as an efficient green catalysts for dehydrogenation of sodium borohydride in methanol**
Bütün Şengel S., Deveci H., Bas H., Bütün V.
Catalysis Communications, vol.177, 2023 (SCI-Expanded)
- VII. **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 (SCI-Expanded)
- VIII. **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 (SCI-Expanded)
- IX. **Highly regenerable ionic liquid microgels as inherently metal-free green catalyst for H₂ generation**
ÖZTÜRK O., Demirci S., BÜTÜN ŞENGEL S., ŞAHİNER N.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.29, no.5, pp.1426-1434, 2018 (SCI-Expanded)
- X. **Responsive biopolymer-based microgels/nanogels for drug delivery applications**
Suner S. S., ŞAHİNER M., Sengel S., Rees D. J., Reed W. F., ŞAHİNER N.

STIMULI RESPONSIVE POLYMERIC NANOCARRIERS FOR DRUG DELIVERY APPLICATIONS: TYPES AND TRIGGERS, VOL 1, pp.453-500, 2018 (SCI-Expanded)

- XI. **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 (SCI-Expanded)
- XII. **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 (SCI-Expanded)
- XIII. **Poly((Thiazol-2-yl) acrylamide), p(ATA) microgel: Synthesis, characterization and versatile applications**
BÜTÜN ŞENGEL S., ŞAHİNER N.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.522, pp.272-278, 2017 (SCI-Expanded)
- XIV. **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 (SCI-Expanded)
- XV. **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 (SCI-Expanded)
- XVI. **Surfactant free synthesis and characterization of poly(vinyl carbazole) microgel and its chemical modifications**
ŞAHİNER N., BÜTÜN ŞENGEL S.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.514, pp.243-250, 2017 (SCI-Expanded)
- XVII. **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 (SCI-Expanded)
- XVIII. **0D, 1D, 2D, and 3D Soft and Hard Templates for Catalysis**
Butun S., Demirci S., Yasar A. O., Sagbas S., Aktaş N., ŞAHİNER N.
MORPHOLOGICAL, COMPOSITIONAL, AND SHAPE CONTROL OF MATERIALS FOR CATALYSIS, vol.177, pp.317-357, 2017 (SCI-Expanded)
- XIX. **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 (SCI-Expanded)
- XX. **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-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.508, pp.30-38, 2016 (SCI-Expanded)
- XXI. **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 (SCI-Expanded)
- XXII. **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 (SCI-Expanded)

- XXIII. **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 (SCI-Expanded)
- XXIV. **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 (SCI-Expanded)
- XXV. **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 (SCI-Expanded)
- XXVI. **Modifiable chemically crosslinked poli(kappa-carrageenan) particles**
 Sagbas S., Butun S., ŞAHİNER N.
 CARBOHYDRATE POLYMERS, vol.87, no.4, pp.2718-2724, 2012 (SCI-Expanded)
- XXVII. **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 (SCI-Expanded)
- XXVIII. **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 (SCI-Expanded)
- XXIX. **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 (SCI-Expanded)
- XXX. **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 (SCI-Expanded)
- XXXI. **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 (SCI-Expanded)
- XXXII. **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 (SCI-Expanded)
- XXXIII. **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 (SCI-Expanded)
- XXXIV. **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 (SCI-Expanded)
- XXXV. **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 (SCI-Expanded)

Articles Published in Other Journals

- I. **Smart materials and their advanced biomedical applications: HNT and HNT-polymer composites**

Bütün Şengel S., Tunca N., Deveci H., Baş H., Bütün V.

Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.31, no.4, pp.955-974, 2023 (Peer-Reviewed Journal)

- II. **Amine functionalized poly (glycidyl methacrylate) hydrogels for Congo red adsorption**
Gokkus K., Bütün Şengel S., Yildirim Y., Hasanbeyoglu S., Butun V.
JOURNAL OF ENVIRONMENTAL ENGINEERING AND SCIENCE, vol.18, no.4, pp.204-214, 2023 (ESCI)
- III. **Synthesis and modification of hydro(solvo) thermal-supported silica aerogels and their use in adsorption studies**
Somaklı Ş., Bütün Şengel S.
Nigde Omer Halisdemir University Journal of Engineering Sciences, vol.12, no.3, pp.872-882, 2023 (Peer-Reviewed Journal)
- IV. **Boric acid versus boron trioxide as catalysts for green energy source H₂ production from sodium borohydride methanolysis**
DEMİRCİ Ş., ARI B., BÜTÜN ŞENGEL S., İNGER E., ŞAHİNER N.
Manas Journal of Engineering, vol.9, no.2, pp.142-151, 2021 (Peer-Reviewed Journal)
- V. **SiO₂ Particle Embedded Silica Aerogels: Environmental and Energy Applications**
Bütün Şengel S., Somaklı Ş., Bütün V.
ESKİŞEHİR TECHNICAL UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY A- APPLIED SCIENCES AND ENGINEERING, vol.22, pp.120-128, 2021 (Peer-Reviewed Journal)
- VI. **Synthesis and Characterization of Poly[(2-Dimethylamino) Ethyl Methacrylate]-PAN/TiO₂ Composite Cryogels and Their Use in Separation Study**
Bütün Şengel S., Gökkuş K., Keyik K., Bütün V.
Eskişehir Technical University Journal of Science and and Technology A- Applied Sciences and Engineering, vol.22, pp.129-138, 2021 (Peer-Reviewed Journal)
- VII. **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, vol.2, pp.97-109, 2021 (Scopus)
- VIII. **Functionalization of Carbon Particles by Atom Transfer Radical Polymerization**
ŞAHİNER N., BÜTÜN ŞENGEL S.
MRS ADVANCES, vol.2, no.47, pp.2537-2544, 2017 (ESCI)
- IX. **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 (Peer-Reviewed Journal)
- X. **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 (Peer-Reviewed Journal)

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. **Utilizing Biopolymer Based Cryogels in Biomedical Applications**
İdrisova F., Bütün Şengel S.
14th International Fiber and Polymer Research Symposium, Bursa, Turkey, 24 - 25 May 2024, pp.1-8
- II. **Hydrogels Used as Wound Dressing Materials**
Abbasova G., Bütün Şengel S., Bütün V.
14th International Fiber and Polymer Research Symposium, Bursa, Turkey, 24 - 25 May 2024, pp.1-9
- III. **POLYSACCHARIDE-BASED MICROGELS USED AS A DRUG DELIVERY SYSTEM**
Deveci H., Bütün Şengel S.
7th INTERNATIONAL ANTALYA CONGRESS OF SCIENTIFIC RESEARCH AND INNOVATIVE STUDIES, Antalya, Turkey, 11 - 13 May 2024, pp.70-77
- IV. **3D Cryogel Scaffolds from Natural Polymers for Use in Tissue Engineering Applications**
İDRİSOVA F., BÜTÜN ŞENGEL S.
8th International ICONTECH CONGRESS on Innovative Surveys in Positive Sciences, Baku, Azerbaijan, 16 March 2024, pp.580-589
- V. **Phytic Acid as a Low-cost, Non-toxic and Sustainable Homogeneous Catalyst: Hydrogen Production from Alcoholysis of NaBH₄**
BÜTÜN ŞENGEL S., DEVECİ H.
8th International Conference on Catalysis and Chemical Engineering (CCE-2024), Boston, MA, United States Of America, 26 - 29 February 2024
- VI. **Polymeric Materials and Their Use in The Biomedical, Environmental, and Energy Field**
Bütün Şengel S.
2nd International Conference of Sciences on "Revamped Scientific Outlook of 21st Century, 2023", Rawalpindi, Pakistan, 15 November 2023
- VII. **Macroporous poly[2-(dimethylamino)ethyl methacrylate] cryo beads: Synthesis, quaternization and biomedical applications**
BÜTÜN ŞENGEL S., TUNCA N., ŞENGEL T., GÖGER G., BÜTÜN V.
Asiachem – 19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, pp.328-329
- VIII. **Lignin-based biomaterials having different size and morphology: Their preparations and biomedical applications**
BÜTÜN ŞENGEL S.
Asiachem – 19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, pp.112-113
- IX. **Metal-free carbon-based efficient green catalysts prepared via hydrothermal process for the fast hydrogen production in the dehydrogenation of NaBH₄ in methanol**
DEVECİ H., TUNCA N., BAŞ H., BÜTÜN ŞENGEL S., BÜTÜN V.
Asiachem – 19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, pp.162-163
- X. **Cellulose and starch micro(nano)spheres: Hydrothermal synthesis and dye adsorption performances**
DEVECİ H., BAŞ H., BÜTÜN ŞENGEL S., BÜTÜN V.
Asiachem – 19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, pp.219
- XI. **Clay/Nanocomposite Hydrogels: In Review**
KURAMA H., BÜTÜN ŞENGEL S.
17 th International Mineral Processing Symposium, İstanbul, Turkey, 15 - 17 December 2022, vol.1, pp.163-172
- XII. **How the Exfoliation Effects the Properties of Clay /Graphene Oxide Polymer Composite Hydrogels in Use for Environmental Remediation**
IŞIK M., BÜTÜN ŞENGEL S., KURAMA H.
4th Euro-Mediterranean Conference for Environmental Integration (EMCEI-2022), Tunisia, 01 November 2022
- XIII. **Nano-, mikro- ve makro-boyutta lignin partiküllerinin sentezi ve biyomedikal uygulamaları**
BÜTÜN ŞENGEL S., TUNCA N., BÜTÜN V.
Uluslararası Katılımlı VIII. Polimer Bilim ve Teknoloji Kongresi, Malatya, Turkey, 20 - 23 June 2022, pp.42

- XIV. **Selüloz ve nişastadan hidrotermal sentez ile karbon kürelerin hazırlanması ve optimizasyonu: Çevre ve enerji uygulamaları**
BÜTÜN ŞENGEL S., BAŞ H., DEVECİ H., BÜTÜN V.
Uluslararası Katılımlı VIII. Polimer Bilim ve Teknoloji Kongresi, Malatya, Turkey, 20 - 23 June 2022, pp.84
- XV. **Karbon kuantum nokta içeren floresan fiberler ve sensör uygulamaları**
BÜTÜN ŞENGEL S., BAŞ H., DEVECİ H., GÖKKUŞ K., BÜTÜN V.
Uluslararası Katılımlı VIII. Polimer Bilim ve Teknoloji Kongresi, Malatya, Turkey, 20 - 23 June 2022, pp.149
- XVI. **TiO₂-Polimer Nanokompozitlerin Sentezi ve Kontrollü İlaç Salım Sistemi Olarak Kullanılması**
TUNCER C., BÜTÜN ŞENGEL S., BÜTÜN V.
Uluslararası Katılımlı VIII. Polimer Bilim ve Teknoloji Kongresi, Malatya, Turkey, 20 - 23 June 2022, pp.85
- XVII. **Lületaşı ve karbon partikülü katkı PHEMA kompozit hidro(kriyo)jeller: Sulu ortamdan ağır metal uzaklaştırılması**
Özbal A., Bütün Şengel S., Gökkuş K., Bütün V.
ULUSLARARASI KATILIMLI VIII. POLİMER BİLİM ve TEKNOLOJİ KONGRESİ, Malatya, Turkey, 20 - 23 June 2022, pp.83
- XVIII. **TiO₂-polimer nanokompozitlerin sentezi ve kontrollü ilaç salım sistemi olarak kullanılması**
Tuncer C., Bütün Şengel S., Bütün V.
ULUSLARARASI KATILIMLI VIII. POLİMER BİLİM ve TEKNOLOJİ KONGRESİ, Malatya, Turkey, 20 - 23 June 2022, pp.85
- XIX. **Poli(2-hidroksietil Metakrilat)/Sepiolit Kompozit Hidrojellerin Metilen Mavisi Adsorpsiyonunda Verimlerinin Ortaya Konması**
Gökkuş K., Özbal A., Bütün Şengel S., Bütün V.
ULUSLARARASI KATILIMLI VIII. POLİMER BİLİM ve TEKNOLOJİ KONGRESİ, Malatya, Turkey, 20 - 23 June 2022, pp.53
- XX. **PHEMA-lületaşı ve PHEMA-CP kompozit hidrojel/kriyojellerin tekstil boya adsorpsiyonunda kullanımı**
Özbal A., Baş H., Bütün Şengel S., Bütün V.
ULUSLARARASI KATILIMLI VIII. POLİMER BİLİM ve TEKNOLOJİ KONGRESİ, Malatya, Turkey, 20 - 23 June 2022, pp.164
- XXI. **Carbon Spheres as Catalyst for H₂ Generation from Sodium Borohydride Methanolysis**
DEVECİ H., BAŞ H., BÜTÜN ŞENGEL S., BÜTÜN V.
10. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, İstanbul, Turkey, 13 - 14 May 2022
- XXII. **Production of Macroporous Reduced Graphene Oxide Aerogel in Thin Film Form via Electrospinning Technique**
BAŞ H., DEVECİ H., BÜTÜN ŞENGEL S., BÜTÜN V.
10. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, İstanbul, Turkey, 13 - 14 May 2022
- XXIII. **Controlled release of antimicrobial compound from nanofiber PVA films and their antimicrobial activities**
BÜTÜN ŞENGEL S., GÖGER G., TUNCA N., GÖKKUŞ K., BÜTÜN V.
10. Uluslararası Lif ve Polimer Araştırmaları Sempozyumu, İstanbul, Turkey, 13 - 14 May 2022
- XXIV. **Facile Synthesis of Functional Carbon Particles by Hydrothermal Treatment**
Bütün Şengel S., Renklitepe C., Bütün V.
8th International Conference on Multidisciplinary Sciences, Antalya, Turkey, 2 - 04 March 2022, pp.336-344
- XXV. **Thermo- and pH-Responsive Cryo-Beads (PNIPAM-PDMA) as Drug Delivery Device**
BÜTÜN ŞENGEL S.
8th International Conference on Multidisciplinary Sciences, Antalya, Turkey, 2 - 04 March 2022
- XXVI. **Controlled Formation of Gelatine-Based Microgels as a Potential Drug Delivery Systems**
BAŞ H., DEVECİ H., TUNCA N., BÜTÜN ŞENGEL S., BÜTÜN V.
8th International Conference on Multidisciplinary Sciences, Antalya, Turkey, 2 - 04 March 2022
- XXVII. **GO and Ag Containing PAMPS Hydrogel Films for Environmental Application: Adsorption and Degradation of Textile Dyes**

- BAŞ H., DEVECİ H., TUNCA N., BÜTÜN ŞENGEL S., BÜTÜN V.
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- XXXVIII. **Titanyum Dioksit İçeren Anyonik Hidrojel Kompozitin Metilen Mavisi Boyasının Fotokatalitik Bozunmasında Kullanılması**
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Non Academic Experience

TESS-SAN GENEL ENDÜSTRİ MADDELERİ SANAYİ VE DIŞ TİCARET LİMİTED ŞİRKETİ
TESS-SAN GENEL ENDÜSTRİ MADDELERİ SANAYİ VE DIŞ TİCARET LİMİTED ŞİRKETİ
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