

Doç. Dr. SELİN SAĞBAŞ SUNER

Kişisel Bilgiler

İş Telefonu: [+90 286 218 0018](tel:+902862180018) Dahili: 22234

E-posta: selinsagbassuner@comu.edu.tr

Web: <https://avesis.comu.edu.tr/selinsagbassuner>

Posta Adresi: Çanakkale Onsekiz Mart Üniversitesi, Terzioğlu kampüsü,Fen Edebiyat Fakültesi, Kimya Bölümü

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-3524-0675

Publons / Web Of Science ResearcherID: U-5886-2019

ScopusID: 57205727564

Yoksis Araştırmacı ID: 304368

Eğitim Bilgileri

Doktora, Çanakkale Onsekiz Mart Üniversitesi, Fen Edebitay Fakültesi, Kimya , Türkiye 2011 - 2018

Yüksek Lisans, Çanakkale Onsekiz Mart Üniversitesi, Fen Edebitay Fakültesi, Biyoloji , Türkiye 2008 - 2011

Lisans, Çanakkale Onsekiz Mart Üniversitesi, Fen Edebitay Fakültesi, Biyoloji , Türkiye 2004 - 2008

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Biyomedikal Uygulamalar için Ksantan, Guar, Arabik, Locust Bean Gamlardan Makro, Mikro ve Nano Yapılar, Çanakkale Onsekiz Mart Üniversitesi, Fen Bilimleri Enstitüsü, Kimya , 2018

Yüksek Lisans, Çanakkale Boğazındaki (Çanakkale, Türkiye) bazı kırmızı alglarla agar miktarının yıllık değişimi, Çanakkale Onsekiz Mart Üniversitesi, Fen Bilimleri Enstitüsü, Biyoloji , 2011

Araştırma Alanları

Kimya, Biyokimya, Biyopolimerler ve uygulamaları, Temel Bilimler

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Çanakkale Onsekiz Mart Üniversitesi, Fen Fakültesi, Kimya, 2019 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. Tannic acid-based bio-MOFs with antibacterial and antioxidant properties acquiring non-hemolytic and non-cytotoxic characteristics

- ŞAHİNER N., Guven O., Demirci S., SUNER S. C., ŞAHİNER M., Ari B., Can M.
Colloids and Surfaces B: Biointerfaces, cilt.252, 2025 (SCI-Expanded)
- II. **Toxicity Evaluation of Sulfobetainized Branched Polyethyleneimine via Antibacterial and Biocompatibility Assays**
ŞAHİNER M., SUNER S., Demirci S., Ayyala R. S., ŞAHİNER N.
Toxics, cilt.13, sa.2, 2025 (SCI-Expanded)
- III. **The Use of Low-Quality Cotton-Derived Cellulose Films as Templates for In Situ Conductive Polymer Synthesis as Promising Biomaterials in Biomedical Applications**
Demirci S., ŞAHİNER M., Rumi S. S., SUNER S., Abidi N., ŞAHİNER N.
Macromolecular Materials and Engineering, cilt.310, sa.1, 2025 (SCI-Expanded)
- IV. **Nanoparticles for Biomedical Use Derived from Natural Biomolecules: Tannic Acid and Arginine**
ŞAHİNER M., SUNER S., ŞAHİNER N.
Biomedicines, cilt.13, sa.1, 2025 (SCI-Expanded)
- V. **Antipathogenic Activity of Betainized Polyethyleneimine Sprays Without Toxicity**
Sağbaş Suner S., Ayyala R. S., Sahiner N.
Biomedicines, cilt.12, sa.11, 2024 (SCI-Expanded)
- VI. **The effect of sulfur atom on the biomedical properties of metal organic frameworks (MOF) prepared from mercaptosuccinic acid (MSA) and dimercaptosuccinic acid (DMSA) with Co(II), Ni(II), and Cu(II) ions**
Demirci S., Aktaş C., Sağbaş Suner S., Sahiner N.
INORGANICA CHIMICA ACTA, sa.571, ss.1-10, 2024 (SCI-Expanded)
- VII. **Drug-impregnated contact lenses via supercritical carbon dioxide: A viable solution for the treatment of bacterial and fungal keratitis**
Gungor B., Erdogan H., Suner S., Silan C., Saraydin S. U., Sahiner N.
International Journal of Pharmaceutics, cilt.662, 2024 (SCI-Expanded)
- VIII. **Amine-modified halloysite nanotube embedded PEI cryogels as adsorbent nanoarchitectonics for recovery of valuable phenolic compounds from olive mill wastewater**
Demirci S., Suner S. S., YILMAZ S., Bagdat S., Tokay F., ŞAHİNER N.
Applied Clay Science, cilt.249, 2024 (SCI-Expanded)
- IX. **Fluorescent Graphitic Carbon Nitride ($\text{g-C}_{3}\text{N}_{4}$)-Embedded Hyaluronic Acid Microgel Composites for Bioimaging and Cancer-Cell Targetability as Viable Theragnostic**
Sagbas Suner S., Şahiner M., Demirci S., Umut E., Şahiner N.
PHARMACEUTICALS, cilt.17, sa.2, 2024 (SCI-Expanded)
- X. **B, P, and S heteroatom doped, bio- and hemo-compatible 2D graphitic-carbon nitride ($\text{g-C}_{3}\text{N}_{4}$) with antioxidant, light-induced antibacterial, and bioimaging endeavors**
Demirci S., Suner S., Neli O. U., KOCA A., ŞAHİNER N.
NANOTECHNOLOGY, cilt.35, sa.2, 2024 (SCI-Expanded)
- XI. **Slightly degradable, naturally antibacterial hydrogel matrixes derived from polyvinyl alcohol and linear/branched-polyethyleneimine as a wound dressing material**
Ari B., Suner S. C., Şahiner M., Demirci S., Şahiner N.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, cilt.61, sa.7, ss.441-453, 2024 (SCI-Expanded)
- XII. **Rapid Pathogen Purge by Photosensitive Arginine-Riboflavin Carbon Dots without Toxicity**
SUNER S. C., Bhethanabotla V. R., Ayyala R. S., ŞAHİNER N.
Materials, cilt.16, sa.19, 2023 (SCI-Expanded)
- XIII. **Super-Macroporous Pulluan Cryogels as Controlled Active Delivery Systems with Controlled Degradability**
Ari B., Sahiner M., Sağbaş Suner S., Demirci S., Sahiner N.
Micromachines, cilt.14, sa.7, 2023 (SCI-Expanded)
- XIV. **Degradable, biocompatible, and antibacterial polygalacturonic acid/polyethyleneimine polyplex**

- particles**
Suner S. S.
Polymers for Advanced Technologies, cilt.34, sa.6, ss.2001-2009, 2023 (SCI-Expanded)
- XV. **Physically Crosslinked Chondroitin Sulfate (CS)-Metal Ion (M: Fe(III), Gd(III), Zn(II), and Cu(II)) Particles for Versatile Applications and Their Biosafety**
SUNER S. C., ŞAHİNER M., UMUT E., Ayyala R. S., ŞAHİNER N.
Pharmaceuticals, cilt.16, sa.4, 2023 (SCI-Expanded)
- XVI. **Light-Activated Modified Arginine Carbon Dots as Antibacterial Particles**
SAĞBAŞ SUNER S., ŞAHİNER M., YILMAZ S., Ayyala R. S., ŞAHİNER N.
CATALYSTS, cilt.12, sa.11, 2022 (SCI-Expanded)
- XVII. **Polyelectrolyte Chondroitin Sulfate Microgels as a Carrier Material for Rosmarinic Acid and Their Antioxidant Ability**
ŞAHİNER M., SAĞBAŞ SUNER S., YILMAZ S., ŞAHİNER N.
POLYMERS, cilt.14, sa.20, 2022 (SCI-Expanded)
- XVIII. **Degradable poly(catechin) nanoparticles as a versatile therapeutic agent**
SUNER S. C., ŞAHİNER M., Mohapatra S., Ayyala R. S., Bhethanabotla V. R., ŞAHİNER N.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, cilt.71, sa.14, ss.1104-1115, 2022 (SCI-Expanded)
- XIX. **Polymeric ionic liquid forms of PEI microgels as catalysts for hydrogen production via sodium borohydride methanolysis**
Demirci S., Suner S., Yıldız M., Sahiner N.
JOURNAL OF MOLECULAR LIQUIDS, cilt.360, 2022 (SCI-Expanded)
- XX. **Degradable and Non-Degradable Chondroitin Sulfate Particles with the Controlled Antibiotic Release for Bacterial Infections**
Suner S., ŞAHİNER M., Ayyala R. S., ŞAHİNER N.
PHARMACEUTICS, cilt.14, sa.8, 2022 (SCI-Expanded)
- XXI. **Thiourea-Isocyanate-Based Covalent Organic Frameworks with Tunable Surface Charge and Surface Area for Methylene Blue and Methyl Orange Removal from Aqueous Media**
SUNER S. C., Demirci S., SÜTEKİN S. D., YILMAZ S., ŞAHİNER N.
Micromachines, cilt.13, sa.6, 2022 (SCI-Expanded)
- XXII. **Biocompatible poly(galacturonic acid) micro/nanogels with controllable degradation via tunable chemical crosslinking**
SUNER S. C., Ari B., SÜTEKİN S. D., ŞAHİNER N.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.201, ss.351-363, 2022 (SCI-Expanded)
- XXIII. **Hyaluronic acid (HA)-Gd(III) and HA-Fe(III) microgels as MRI contrast enhancing agents**
ŞAHİNER N., UMUT E., Suner S., ŞAHİNER M., Culha M., Ayyala R. S.
CARBOHYDRATE POLYMERS, cilt.277, 2022 (SCI-Expanded)
- XXIV. **Versatile Fluorescent Carbon Dots from Citric Acid and Cysteine with Antimicrobial, Anti-biofilm, Antioxidant, and AChE Enzyme Inhibition Capabilities**
Suner S., ŞAHİNER M., Ayyala R. S., Bhethanabotla V. R., ŞAHİNER N.
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- XXV. **Improved Biomedical Properties of Polydopamine-Coated Carbon Nanotubes**
Demirci S., ŞAHİNER M., Suner S. S., ŞAHİNER N.
MICROMACHINES, cilt.12, sa.11, 2021 (SCI-Expanded)
- XXVI. **A polyphenolic biomacromolecule prepared from a flavonoid: Catechin as degradable microparticles**
Suner S. S., Mohapatra S., Ayyala R. S., Brethanabotla V. R., ŞAHİNER N.
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.138, sa.24, 2021 (SCI-Expanded)
- XXVII. **HA particles as resourceful cancer, steroid and antibiotic drug delivery device with sustainable and multiple drug release capability**
Sahiner N., Suner S., Kurt S. B., Can M., Ayyala R. S.
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- XXVIII. **Biocompatible macro, micro and nano scale guar gum hydrogels and their protein absorption capacity**
Suner S., ŞAHİNER N.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, cilt.57, sa.12, ss.810-818, 2020 (SCI-Expanded)
- XXIX. **Preparation of hyaluronic acid and copolymeric hyaluronic acid: sucrose particles as tunable antibiotic carriers**
Sahiner N., Suner S., Ayyala R. S.
JOURNAL OF POLYMER RESEARCH, cilt.27, sa.7, 2020 (SCI-Expanded)
- XXX. **Delivery of Small Molecule EF2 Kinase Inhibitor for Breast and Pancreatic Cancer Cells Using Hyaluronic Acid Based Nanogels**
Cömert Önder F., Sağbaş Suner S., Şahiner N., Ay M., Ozpolat B.
PHARMACEUTICAL RESEARCH, cilt.37, sa.3, 2020 (SCI-Expanded)
- XXXI. **Antimicrobial activity and biocompatibility of slow-release hyaluronic acid-antibiotic conjugated particles**
Zhang Z., Suner S., Blake D. A., Ayyala R. S., ŞAHİNER N.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, cilt.576, 2020 (SCI-Expanded)
- XXXII. **Functionalization of halloysite nanotubes with polyethyleneimine and various ionic liquid forms with antimicrobial activity**
Suner S., ŞAHİNER M., AKÇALI A., ŞAHİNER N.
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.137, sa.6, 2020 (SCI-Expanded)
- XXXIII. **Enhancement of biocompatibility and carbohydrate absorption control potential of rosmarinic acid through crosslinking into microparticles**
ŞAHİNER M., Blake D. A., Fullerton M. L., SUNER S. C., SUNOL A. K., ŞAHİNER N.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.137, ss.836-843, 2019 (SCI-Expanded)
- XXXIV. **Nitrogen and Sulfur Doped Carbon Dots from Amino Acids for Potential Biomedical Applications**
ŞAHİNER N., Suner S., ŞAHİNER M., SILAN C.
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- XXXV. **Cryogel composites based on hyaluronic acid and halloysite nanotubes as scaffold for tissue engineering**
SUNER S. C., DEMIRCI S., Yetiskin B., FAKHRULLIN R., NAUMENKO E., Okay O., Ayyala R. S., ŞAHİNER N.
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- XXXVI. **Mesoporous, degradable hyaluronic acid microparticles for sustainable drug delivery application**
ŞAHİNER N., SUNER S. C., Ayyala R. S.
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- XXXVII. **Hyaluronic acid and hyaluronic acid: Sucrose nanogels for hydrophobic cancer drug delivery**
SUNER S. S., Arı B., CÖMERT ÖNDER F., ÖZPOLAT B., AY M., ŞAHİNER N.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.126, ss.1150-1157, 2019 (SCI-Expanded)
- XXXVIII. **Use of modified poly(inulin) micro/nanogels in drug release and blood compatibility tests Modifiye poli(inülin) mikro/nanojellerinin ilaç salımında kullanımı ve kan uyumluluklarının tespiti**
ÜLKER ÇAKIR D., SAĞBAŞ SUNER S., ŞAHİNER N.
Turkiye Klinikleri Journal of Medical Sciences, cilt.39, sa.1, ss.75-82, 2019 (SCI-Expanded)
- XXXIX. **Fabrication of Biodegradable Poly(naringin) Particles with Antioxidant Activity and Low Toxicity**
Sahiner M., ŞAHİNER N., Sagbas S., FULLERTON M. L., BLAKE D. A.
ACS Omega, cilt.3, sa.12, ss.17359-17367, 2018 (SCI-Expanded)
- XL. **Polydopamine particles as nontoxic, blood compatible, antioxidant and drug delivery materials**
Sahiner N., Sagbas S., ŞAHİNER M., BLAKE D. A., REED W. F.
Colloids and Surfaces B: Biointerfaces, cilt.172, ss.618-626, 2018 (SCI-Expanded)
- XLI. **Modifiable natural gum based microgel capsules as sustainable drug delivery systems**
Sagbas S., ŞAHİNER N.

- Carbohydrate Polymers, cilt.200, ss.128-136, 2018 (SCI-Expanded)
- XLII. **Polymeric ionic liquid materials derived from natural source for adsorption purpose**
ŞAHİNER N., SAĞBAŞ SUNER S.
SEPARATION AND PURIFICATION TECHNOLOGY, cilt.196, ss.208-216, 2018 (SCI-Expanded)
- XLIII. **Sucrose based ionic liquid colloidal microgels in separation of biomacromolecules**
ŞAHİNER N., SAĞBAŞ SUNER S.
SEPARATION AND PURIFICATION TECHNOLOGY, cilt.196, ss.191-199, 2018 (SCI-Expanded)
- XLIV. **Graphene Oxide Embedded P(4-VP) Cryogel Composites for Fast Dye Removal/Separations**
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- XLV. **Humic acid particle embedded super porous gum Arabic cryogel network for versatile use**
SUNER S. S., ŞAHİNER N.
Polymers for Advanced Technologies, cilt.29, sa.1, ss.151-159, 2018 (SCI-Expanded)
- XLVI. **Synthesis, Characterization, and Use of Carbon Microspheres for Removal of Different Dyes from Aqueous Environments**
ŞAHİNER N., FAROOQ M., REHMAN S. U., Sağbaş S., Sahiner M., SIDDIQ M., Aktaş N.
WATER AIR AND SOIL POLLUTION, cilt.228, sa.10, 2017 (SCI-Expanded)
- XLVII. **Superporous hyaluronic acid cryogel composites embedding synthetic polyethyleneimine microgels and Halloysite Nanotubes as natural clay**
DEMIRCI S., SUNER S. S., Sahiner M., ŞAHİNER N.
European Polymer Journal, cilt.93, ss.775-784, 2017 (SCI-Expanded)
- XLVIII. **Gum Arabic Microgels As Template for In Situ Metal-Sulfide Based Quantum Dots Preparation and Their Thermal, Spectroscopic, Optical, and Magnetic Characterization**
FAROOQ M., Sağbaş S., YILDIZ M., Meral K., SIDDIQ M., Aktaş N., ŞAHİNER N.
JOURNAL OF ELECTRONIC MATERIALS, cilt.46, sa.7, ss.4373-4383, 2017 (SCI-Expanded)
- XLIX. **Polymeric ionic liquid materials derived from natural source for adsorption purpose**
ŞAHİNER N., Sagbas S.
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- L. **Polyethyleneimine modified poly(Hyaluronic acid) particles with controllable antimicrobial and anticancer effects**
Sahiner N., Sagbas S., Sahiner M., Ayyala R. S.
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- LI. **Synthesis, characterization and modification of Gum Arabic microgels for hemocompatibility and antimicrobial studies**
Farooq M., Sagbas S., Sahiner M., Siddiq M., Turk M., Aktaş N., ŞAHİNER N.
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- LII. **P(TA) macro-, micro-, nanoparticle-embedded super porous p(HEMA) cryogels as wound dressing material**
ŞAHİNER N., Sagbas S., Sahiner M., SILAN C.
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- LIII. **Degradable tannic acid/polyethyleneimine polyplex particles with highly antioxidant and antimicrobial effects**
ŞAHİNER N., Sağbaş S., Sahiner M., DEMIRCI S.
POLYMER DEGRADATION AND STABILITY, cilt.133, ss.152-161, 2016 (SCI-Expanded)
- LIV. **Preparation of macro-, micro-, and nano-sized poly(Tannic acid) particles with controllable degradability and multiple biomedical uses**
ŞAHİNER N., Sagbas S., Aktaş N.
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- LV. **Inherently antioxidant and antimicrobial tannic acid release from poly(tannic acid) nanoparticles with controllable degradability**
ŞAHİNER N., Sagbas S., Aktaş N., SILAN C.

- Colloids and Surfaces B: Biointerfaces, cilt.142, ss.334-343, 2016 (SCI-Expanded)
- LVI. **Graphene Oxide Embedded P(4-VP) CryogelComposites for Fast Dye Removal/Separations**
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- LVII. **Preparation and characterization of monodisperse, mesoporous natural poly(tannic acid)-silica nanoparticle composites with antioxidant properties**
ŞAHİNER N., Sagbas S., Aktaş N.
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- LVIII. **Biocompatible and biodegradable poly(Tannic Acid) hydrogel with antimicrobial and antioxidant properties**
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- LIX. **Modified biofunctional p(tannic acid) microgels and their antimicrobial activity**
SAĞBAŞ SUNER S., Aktaş N., ŞAHİNER N.
APPLIED SURFACE SCIENCE, cilt.354, ss.306-313, 2015 (SCI-Expanded)
- LX. **p(AAm/TA)-based IPN hydrogel films with antimicrobial and antioxidant properties for biomedical applications**
Sahiner M., SAĞBAŞ SUNER S., BİTLİSLİ B. O.
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- LXI. **Single step natural poly(tannic acid) particle preparation as multitalented biomaterial**
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MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.49, ss.824-834, 2015 (SCI-Expanded)
- LXII. **Natural p(TA) hydrogel and microgel networks for diverse potential biomedical uses**
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- LXIII. **Very fast catalytic reduction of 4-nitrophenol, methylene blue and eosin Y in natural waters using green chemistry: p(tannic acid)-Cu ionic liquid composites**
ŞAHİNER N., Sağbaş S., Aktaş N.
RSC ADVANCES, cilt.5, sa.24, ss.18183-18195, 2015 (SCI-Expanded)
- LXIV. **Multifunctional tunable p(inulin) microgels**
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MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.40, ss.366-372, 2014 (SCI-Expanded)
- LXV. **Poly(sucrose) micro particles preparation and their use as biomaterials**
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- LXVI. **The use of poly(vinyl phosphonic acid) microgels for the preparation of inherently magnetic Co metal catalyst particles in hydrogen production**
ŞAHİNER N., SAGBAS S.
JOURNAL OF POWER SOURCES, cilt.246, ss.55-62, 2014 (SCI-Expanded)
- LXVII. **Preparation of Poly(Humic Acid) Particles and Their Use in Toxic Organo-Phenolic Compound Removal from Aqueous Environments**
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WATER AIR AND SOIL POLLUTION, cilt.225, sa.1, 2014 (SCI-Expanded)
- LXVIII. **The preparation of poly(vinyl phosphonic acid) hydrogels as new functional materials for in situ metal nanoparticle preparation**
ŞAHİNER N., Sağbaş S.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, cilt.418, ss.76-83, 2013 (SCI-Expanded)
- LXIX. **Tunable poly(2-acrylamido-2-methyl-1-propan sulfonic acid) based microgels with better catalytic**

- performances for Co and Ni nanoparticle preparation and their use in hydrogen generation from NaBH₄**
 Sağbaş S., ŞAHİNER N.
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- LXX. **A novel p(AAm-co-VPA) hydrogel for the Co and Ni nanoparticle preparation and their use in hydrogel generation from NaBH₄**
 Sağbaş S., ŞAHİNER N.
 FUEL PROCESSING TECHNOLOGY, cilt.104, ss.31-36, 2012 (SCI-Expanded)
- LXXI. **Porous and modified HA particles as potential drug delivery systems**
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- LXXII. **Modifiable chemically crosslinked poli(kappa-carrageenan) particles**
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- LXXIII. **The utilization smart hydrogels and composites with controllable porosity in the preparation of metal nanocatalyst**
 ŞAHİNER N., ÖZAY Ö., SAĞBAŞ SUNER S., YAŞAR A. Ö., AKTAŞ N.
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Diger Dergilerde Yayınlanan Makaleler

- I. **Nontoxic Natural Polymeric Particle Vehicles Derived from Hyaluronic Acid and Mannitol as Mitomycin C Carriers for Bladder Cancer Treatment**
 ŞAHİNER N., Ayyala R. S., SUNER S.
 ACS Applied Bio Materials, cilt.5, sa.12, ss.5554-5566, 2022 (ESCI)
- II. **Fungal Keratitis Treatment Using Drug-Loaded Hyaluronic Acid Microgels**
 Ayyala R. S., Suner S., Bhethanabotla V. R., ŞAHİNER N.
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- III. **Poly(Vinylamine) Derived N-Doped C-Dots with Antimicrobial and Antibiofilm Activities**
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- IV. **Poli(Rutin) micro/nanogels for biomedical applications**
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- V. **Quercetin particles with lower inhibitory activity for α-glycosidase and negligible effects on blood clotting**
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 Journal of the Turkish Chemical Society Section A: Chemistry, cilt.8, sa.2, ss.443-452, 2021 (Scopus)
- VI. **Nitrogen-Doped Arginine Carbon Dots and Its Metal Nanoparticle Composites as Antibacterial Agent**
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Metrikler

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