

## Assoc. Prof. SELİN SAĞBAŞ SUNER

### Personal Information

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### International Researcher IDs

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

ScopusID: 57205727564

Yoksis Researcher ID: 304368

### Education Information

Doctorate, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Kimya , Turkey 2011 - 2018

Postgraduate, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Biyoloji , Turkey 2008 - 2011

Undergraduate, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Biyoloji , Turkey 2004 - 2008

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Biyomedikal Uygulamalar için Ksantan, Guar, Arabik, Locust Bean Gamlardan Makro, Mikro ve Nano Yapılar, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Kimya , 2018

Postgraduate, Çanakkale Boğazındaki (Çanakkale, Türkiye) bazı kırmızı alglerde agar miktarının yıllık değişimi, Canakkale Onsekiz Mart University, Fen Bilimleri Enstitüsü, Biyoloji , 2011

### Research Areas

Chemistry, Biochemistry, Polymers and Their Applications, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Canakkale Onsekiz Mart University, Fen Fakültesi, Kimya, 2019 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

1. 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, 2024 (SCI-Expanded)

- II. **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, vol.249, 2024 (SCI-Expanded)
- III. **Fluorescent Graphitic Carbon Nitride (g-C<sub>3</sub>N<sub>4</sub>)-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, vol.17, no.2, 2024 (SCI-Expanded)
- IV. **B, P, and S heteroatom doped, bio- and hemo-compatible 2D graphitic-carbon nitride (g-C<sub>3</sub>N<sub>4</sub>) with antioxidant, light-induced antibacterial, and bioimaging endeavors**  
Demirci S., Suner S., Neli O. U., KOCA A., ŞAHİNER N.  
NANOTECHNOLOGY, vol.35, no.2, 2024 (SCI-Expanded)
- V. **Rapid Pathogen Purge by Photosensitive Arginine–Riboflavin Carbon Dots without Toxicity**  
SUNER S. C., Bhethanabotla V. R., Ayyala R. S., ŞAHİNER N.  
Materials, vol.16, no.19, 2023 (SCI-Expanded)
- VI. **Super-Macroporous Pullulan Cryogels as Controlled Active Delivery Systems with Controlled Degradability**  
Ari B., Sahiner M., Sağbaş Suner S., Demirci S., Sahiner N.  
Micromachines, vol.14, no.7, 2023 (SCI-Expanded)
- VII. **Degradable, biocompatible, and antibacterial polygalacturonic acid/polyethyleneimine polyplex particles**  
Suner S. S.  
Polymers for Advanced Technologies, vol.34, no.6, pp.2001-2009, 2023 (SCI-Expanded)
- VIII. **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, vol.16, no.4, 2023 (SCI-Expanded)
- IX. **Light-Activated Modified Arginine Carbon Dots as Antibacterial Particles**  
SAĞBAŞ SUNER S., ŞAHİNER M., YILMAZ S., Ayyala R. S., ŞAHİNER N.  
CATALYSTS, vol.12, no.11, 2022 (SCI-Expanded)
- X. **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, vol.14, no.20, 2022 (SCI-Expanded)
- XI. **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, vol.71, no.14, pp.1104-1115, 2022 (SCI-Expanded)
- XII. **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, vol.14, no.8, 2022 (SCI-Expanded)
- XIII. **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, vol.360, 2022 (SCI-Expanded)
- XIV. **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, vol.13, no.6, 2022 (SCI-Expanded)
- XV. **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, vol.201, pp.351-363, 2022 (SCI-Expanded)
- XVI. **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, vol.277, 2022 (SCI-Expanded)
- XVII. **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.  
JOURNAL OF FLUORESCENCE, vol.31, no.6, pp.1705-1717, 2021 (SCI-Expanded)
- XVIII. **Improved Biomedical Properties of Polydopamine-Coated Carbon Nanotubes**  
Demirci S., ŞAHİNER M., Suner S. S., ŞAHİNER N.  
MICROMACHINES, vol.12, no.11, 2021 (SCI-Expanded)
- XIX. **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, vol.138, no.24, 2021 (SCI-Expanded)
- XX. **HA particles as resourceful cancer, steroidal and antibiotic drug delivery device with sustainable and multiple drug release capability**  
Sahiner N., Suner S., Kurt S. B., Can M., Ayyala R. S.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.58, no.3, pp.145-155, 2021 (SCI-Expanded)
- XXI. **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, vol.57, no.12, pp.810-818, 2020 (SCI-Expanded)
- XXII. **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, vol.27, no.7, 2020 (SCI-Expanded)
- XXIII. **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, vol.37, no.3, 2020 (SCI-Expanded)
- XXIV. **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, vol.137, no.6, 2020 (SCI-Expanded)
- XXV. **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, vol.576, 2020 (SCI-Expanded)
- XXVI. **Nitrogen and Sulfur Doped Carbon Dots from Amino Acids for Potential Biomedical Applications**  
ŞAHİNER N., Suner S., ŞAHİNER M., SILAN C.  
JOURNAL OF FLUORESCENCE, vol.29, no.5, pp.1191-1200, 2019 (SCI-Expanded)
- XXVII. **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, vol.137, pp.836-843, 2019 (SCI-Expanded)
- XXVIII. **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.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.130, pp.627-635, 2019 (SCI-Expanded)
- XXIX. **Mesoporous, degradable hyaluronic acid microparticles for sustainable drug delivery application**  
ŞAHİNER N., SUNER S. C., Ayyala R. S.  
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.177, pp.284-293, 2019 (SCI-Expanded)
- XXX. **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, vol.126, pp.1150-1157, 2019 (SCI-Expanded)
- XXXI. **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, vol.39, no.1, pp.75-82, 2019 (SCI-Expanded)
- XXXII. **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, vol.3, no.12, pp.17359-17367, 2018 (SCI-Expanded)
- XXXIII. **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, vol.172, pp.618-626, 2018 (SCI-Expanded)
- XXXIV. **Modifiable natural gum based microgel capsules as sustainable drug delivery systems**  
Sagbas S., ŞAHİNER N.  
Carbohydrate Polymers, vol.200, pp.128-136, 2018 (SCI-Expanded)
- XXXV. **Polymeric ionic liquid materials derived from natural source for adsorption purpose**  
ŞAHİNER N., SAĞBAŞ SUNER S.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.196, pp.208-216, 2018 (SCI-Expanded)
- XXXVI. **Sucrose based ionic liquid colloidal microgels in separation of biomacromolecules**  
ŞAHİNER N., SAĞBAŞ SUNER S.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.196, pp.191-199, 2018 (SCI-Expanded)
- XXXVII. **Graphene Oxide Embedded P(4-VP) Cryogel Composites for Fast Dye Removal/Separations**  
ŞAHİNER N., YILDIZ S., Sagbas S.  
POLYMER COMPOSITES, vol.39, no.5, pp.1694-1703, 2018 (SCI-Expanded)
- XXXVIII. **Humic acid particle embedded super porous gum Arabic cryogel network for versatile use**  
SUNER S. S., ŞAHİNER N.  
Polymers for Advanced Technologies, vol.29, no.1, pp.151-159, 2018 (SCI-Expanded)
- XXXIX. **Synthesis, Characterization, and Use of Carbon Microspheres for Removal of Different Dyes from Aqueous Environments**  
ŞAHİNER N., FAROOQ M., REHMAN S. U., Sağbaşı S., Sahiner M., SIDDIQ M., Aktaş N.  
WATER AIR AND SOIL POLLUTION, vol.228, no.10, 2017 (SCI-Expanded)
- XL. **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, vol.93, pp.775-784, 2017 (SCI-Expanded)
- XLI. **Gum Arabic Microgels As Template for In Situ Metal-Sulfide Based Quantum Dots Preparation and Their Thermal, Spectroscopic, Optical, and Magnetic Characterization**  
FAROOQ M., Sağbaşı S., YILDIZ M., Meral K., SIDDIQ M., Aktaş N., ŞAHİNER N.  
JOURNAL OF ELECTRONIC MATERIALS, vol.46, no.7, pp.4373-4383, 2017 (SCI-Expanded)
- XLII. **Polymeric ionic liquid materials derived from natural source for adsorption purpose**  
ŞAHİNER N., Sagbas S.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.196, pp.208-216, 2017 (SCI-Expanded)

- XLIII. Polyethyleneimine modified poly(Hyaluronic acid) particles with controllable antimicrobial and anticancer effects**  
Sahiner N., Sagbas S., Sahiner M., Ayyala R. S.  
Carbohydrate Polymers, vol.159, pp.29-38, 2017 (SCI-Expanded)
- XLIV. 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.  
Carbohydrate Polymers, vol.156, pp.380-389, 2017 (SCI-Expanded)
- XLV. P(TA) macro-, micro-, nanoparticle-embedded super porous p(HEMA) cryogels as wound dressing material**  
ŞAHİNER N., Sagbas S., Sahiner M., SILAN C.  
Materials Science and Engineering C, vol.70, pp.317-326, 2017 (SCI-Expanded)
- XLVI. Degradable tannic acid/polyethyleneimine polyplex particles with highly antioxidant and antimicrobial effects**  
ŞAHİNER N., Sağbaşı S., Sahiner M., DEMIRCI S.  
POLYMER DEGRADATION AND STABILITY, vol.133, pp.152-161, 2016 (SCI-Expanded)
- XLVII. Preparation of macro-, micro-, and nano-sized poly(Tannic acid) particles with controllable degradability and multiple biomedical uses**  
ŞAHİNER N., Sagbas S., Aktaş N.  
Polymer Degradation and Stability, vol.129, pp.96-105, 2016 (SCI-Expanded)
- XLVIII. 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, vol.142, pp.334-343, 2016 (SCI-Expanded)
- XLIX. Graphene Oxide Embedded P(4-VP) Cryogel Composites for Fast Dye Removal/Separations**  
ŞAHİNER N., Yildiz S., Sagbas S.  
POLYMER COMPOSITES, vol.39, pp.1694-1703, 2016 (SCI-Expanded)
- L. Preparation and characterization of monodisperse, mesoporous natural poly(tannic acid)-silica nanoparticle composites with antioxidant properties**  
ŞAHİNER N., Sagbas S., Aktaş N.  
Microporous and Mesoporous Materials, vol.226, pp.316-324, 2016 (SCI-Expanded)
- LI. Biocompatible and biodegradable poly(Tannic Acid) hydrogel with antimicrobial and antioxidant properties**  
ŞAHİNER N., Sağbaşı S., Sahiner M., SILAN C., Aktaş N., Turk M.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.82, pp.150-159, 2016 (SCI-Expanded)
- LII. Modified biofunctional p(tannic acid) microgels and their antimicrobial activity**  
SAĞBAŞ SUNER S., Aktaş N., ŞAHİNER N.  
APPLIED SURFACE SCIENCE, vol.354, pp.306-313, 2015 (SCI-Expanded)
- LIII. Single step natural poly(tannic acid) particle preparation as multitalented biomaterial**  
ŞAHİNER N., Sağbaşı S., Aktaş N.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.49, pp.824-834, 2015 (SCI-Expanded)
- LIV. p(AAm/TA)-based IPN hydrogel films with antimicrobial and antioxidant properties for biomedical applications**  
Sahiner M., SAĞBAŞ SUNER S., BİTLİSLİ B. O.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.132, no.16, 2015 (SCI-Expanded)
- LV. Natural p(TA) hydrogel and microgel networks for diverse potential biomedical uses**  
ŞAHİNER N., SAĞBAŞ SUNER S., Sahiner M., Aktaş N.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.249, 2015 (SCI-Expanded)
- LVI. 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, vol.5, no.24, pp.18183-18195, 2015 (SCI-Expanded)
- LVII. **Multifunctional tunable p(inulin) microgels**  
ŞAHİNER N., Sağbaş S.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.40, pp.366-372, 2014 (SCI-Expanded)
- LVIII. **Poly(sucrose) micro particles preparation and their use as biomaterials**  
ŞAHİNER N., Sağbaş S., Turk M.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.66, pp.236-244, 2014 (SCI-Expanded)
- LIX. **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, vol.246, pp.55-62, 2014 (SCI-Expanded)
- LX. **Preparation of Poly(Humic Acid) Particles and Their Use in Toxic Organo-Phenolic Compound Removal from Aqueous Environments**  
Sağbaş S., KANTAR Ç., ŞAHİNER N.  
WATER AIR AND SOIL POLLUTION, vol.225, no.1, 2014 (SCI-Expanded)
- LXI. **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, vol.418, pp.76-83, 2013 (SCI-Expanded)
- LXII. **A novel p(AAm-co-VPA) hydrogel for the Co and Ni nanoparticle preparation and their use in hydrogel generation from NaBH<sub>4</sub>**  
Sağbaş S., ŞAHİNER N.  
FUEL PROCESSING TECHNOLOGY, vol.104, pp.31-36, 2012 (SCI-Expanded)
- LXIII. **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 NaBH<sub>4</sub>**  
Sağbaş S., ŞAHİNER N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.24, pp.18944-18951, 2012 (SCI-Expanded)
- LXIV. **Porous and modified HA particles as potential drug delivery systems**  
ŞAHİNER N., SILAN C., SAĞBAŞ S., İLGİN P., BÜTÜN S., ERDUĞAN H., Ayyala R. S.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.155, pp.124-130, 2012 (SCI-Expanded)
- LXV. **Modifiable chemically crosslinked poli(kappa-carrageenan) particles**  
Sağbaş S., Bütün S., ŞAHİNER N.  
CARBOHYDRATE POLYMERS, vol.87, no.4, pp.2718-2724, 2012 (SCI-Expanded)
- LXVI. **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.  
NANOTECHNOLOGY, vol.3, pp.591-594, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- 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, vol.5, no.12, pp.5554-5566, 2022 (ESCI)
- II. **Fungal Keratitis Treatment Using Drug-Loaded Hyaluronic Acid Microgels**  
Ayyala R. S., Suner S., Bhethanabotla V. R., ŞAHİNER N.

ACS APPLIED BIO MATERIALS, 2022 (ESCI)

- III. **Poly(Vinylamine) Derived N-Doped C-Dots with Antimicrobial and Antibiofilm Activities**  
SÜTEKİN S. D., ŞAHİNER M., Suner S. S., Demirci S., Guven O., ŞAHİNER N.  
C-JOURNAL OF CARBON RESEARCH, vol.7, no.2, 2021 (ESCI)
- IV. **Poli(Rutin) micro/nanogels for biomedical applications**  
ŞAHİNER M., SAGBAS S.  
Hittite Journal of Science & Engineering, vol.8, no.2, pp.179-187, 2021 (Peer-Reviewed Journal)
- V. **Quercetin particles with lower inhibitory activity for  $\alpha$ -glycosidase and negligible effects on blood clotting**  
Şahiner M., Sagbas Suner S.  
Journal of the Turkish Chemical Society Section A: Chemistry, vol.8, no.2, pp.443-452, 2021 (Scopus)
- VI. **Nitrogen-Doped Arginine Carbon Dots and Its Metal Nanoparticle Composites as Antibacterial Agent**  
Suner S., ŞAHİNER M., Ayyala R. S., Bhethanabotla V. R., ŞAHİNER N.  
C-JOURNAL OF CARBON RESEARCH, vol.6, no.3, 2020 (ESCI)
- VII. **Preparation of Macrocorpus Carboxymethyl Cellulose Cryogels and Its Blood Compability**  
ŞAHİNER N., SAĞBAŞ SUNER S., TOSUNOĞLU M.  
MRS Advances, no.4, 2019 (Scopus)
- VIII. **Degradable natural phenolic based particles with micro-and nano-size range**  
Sahiner N., Sagbas S., ŞAHİNER M., Aktaş N.  
Recent Patents on Materials Science, vol.11, no.1, pp.33-40, 2018 (Scopus)
- IX. **Yara Kaplama Malzemesi olarak Kollajen Esaslı Hidrojel Filmleri**  
ŞAHİNER M., SAĞBAŞ SUNER S., TURAN A., ERDUĞAN H., ŞAHİNER N.  
Çanakkale Onsekiz Mart Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.4, no.2, pp.103-116, 2018 (Peer-Reviewed Journal)
- X. **Microgels Derived from Different Forms of Carrageenans, Kappa, Iota, and Lambda for Biomedical Applications**  
ŞAHİNER N., Sağbaş S., YILMAZ S.  
MRS ADVANCES, vol.2, no.47, pp.2521-2527, 2017 (ESCI)
- XI. **Synthesis and Properties of Inulin Based Microgels**  
ŞAHİNER N., Sagbas S., YOSHIDA H., LYON L. A.  
Colloids and Interface Science Communications, vol.2, pp.15-18, 2014 (Scopus)

## Books & Book Chapters

- I. **Tunable Biopolymeric Drug Carrier Nanovehicles and Their Safety**  
Sağbaş Suner S., Ari B., Demirci Ş., Şahiner N.  
in: Nano Medicine and Nano Safety, Malay K. Das, Yashwant V. Pathak, Editor, Springer, London/Berlin , Singapore, pp.405-432, 2020
- II. **Carbon dots: preparation, properties, and application**  
SAĞBAŞ SUNER S., ŞAHİNER N.  
in: Nanocarbon and its Composites, Anish Khan, Mohammas Jawaid, Inamuddin, Abdullah Mohamed Asiri, Editor, Woodhead Publishing Limited , Cambridge, pp.651-676, 2019
- III. **0D, 1D, 2D, and 3D Soft and Hard Templates for Catalysis**  
BUTUN S., DEMIRCI S., Yaşar A. Ö., SAĞBAŞ SUNER S., AKTAS N., ŞAHİNER N.  
in: Morphological, Compositional, and Shape Control of Materials for Catalysis, Paolo Fornasiero, Matteo Cargnello, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.317-357, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **Multifunctional heteroatom doped g-C<sub>3</sub>N<sub>4</sub> embedded HA-Gd(III) and HA-Fe(III) particles as targetable theragnostic.**  
Sağbaşı Suner S., Şahiner M.  
267th American Chemical Society National Meeting & Exposition, Many Flavors of Chemistry, Louisiana, United States Of America, 17 - 21 March 2024, pp.1-10
- II. **Antibiotic and antifungal drug-impregnated contact lenses via supercritical carbon dioxide for the treatment of keratitis.**  
Sağbaşı Suner S., Ari B., Güngör B., Erdoğan H., Silan C., Şahiner N.  
267th American Chemical Society National Meeting & Exposition, Many Flavors of Chemistry,, Louisiana, United States Of America, 17 - 21 March 2024, pp.1-10
- III. **Antipathogenic Activities of Nitrogen, Sulfur, Boron Doped Carbon Dots.**  
Sağbaşı Suner S., Şahiner M., Akçalı A., Ayyala R., Şahiner N.  
6th AIChE Annual Meeting, Florida, United States Of America, 5 - 10 November 2023, pp.1-10
- IV. **Polydopamine Coatings of g-C<sub>3</sub>N<sub>4</sub> Structures with Improved Biomedical Properties**  
Şahiner M., Demirci Ş., Sağbaşı Suner S., Şahiner N.  
6th AIChE Annual Meeting, Florida, United States Of America, 5 - 10 November 2023, pp.1-10
- V. **Effects of Single-, Dual-, and Multi-Heteroatom Doping on Photodynamic Antimicrobial Activities of Carbon Dots**  
SAĞBAŞ SUNER S., DEMİRCİ Ş., ŞAHİNER M., AKÇALI A., ŞAHİNER N.  
266th National Fall Meeting of the American Chemical Society (ACS), 13 - 17 August 2023
- VI. **Non-toxic and hemocompatibility nanocarriers derived from polygalacturonic acid for sustainable drug delivery**  
SAĞBAŞ SUNER S.  
8th International Conference on New Trends in Chemistry, 16 - 18 May 2022
- VII. **The adsorption study of oleuropein using functionalized Halloysite Nanotubes as adsorbents**  
SAĞBAŞ SUNER S., DEMİRCİ Ş., TOKAY F., BAĞDAT S., YILMAZ S., ŞAHİNER N.  
8th International Conference on New Trends in Chemistry, GAZİ MAGOSA, Cyprus (Kktc), 16 May 2022
- VIII. **Biyomedikal Uygulamalar için Gam Esaslı Mikrojellerin Sentezlenmesi ve Karakterizasyonu**  
SAĞBAŞ SUNER S., ŞAHİNER N.  
Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi, 9 - 12 September 2018
- IX. **In vitro drug release studies for the treatment of TNBC and pancreatic cancers from natural derivated polymeric micro- and nano-particles**  
CÖMERT ÖNDER F., SAĞBAŞ SUNER S., AY M., Ozpolat B., ŞAHİNER N.  
255th National Spring Meeting of the American Chemical Society (ACS), NEW ORLEANS, United States Of America, 18 - 22 March 2018
- X. **Amino acid derived multifunctional N-, S-doped carbon dots for biomedical applications**  
SAĞBAŞ SUNER S., SILAN C., ŞAHİNER N.  
255th National Spring Meeting of the American Chemical Society (ACS), 18 - 22 March 2018
- XI. **Microgels from xanthan gum and locust bean gum for potential biomedical applications**  
SAĞBAŞ SUNER S., SILAN C., ŞAHİNER N.  
255th National Spring Meeting of the American Chemical Society (ACS), 18 - 22 March 2018
- XII. **In vitro drug release studies for the treatment of TNBC and pancreatic cancers from natural derivated polymeric micro- and nano-particles**  
CÖMERT ÖNDER F., SAĞBAŞ SUNER S., AY M., Ozpolat B., ŞAHİNER N.  
255th National Meeting and Exposition of the American-Chemical-Society (ACS) - Nexus of Food, Energy, and Water, Louisiana, United States Of America, 18 - 22 March 2018, vol.255
- XIII. **Micro/nanoparticles prepared from kappa-, iota-, and lambda-carrageenan for versatile use**  
ŞAHİNER N., SAĞBAŞ SUNER S., Yilmaz S.  
253rd National Meeting of the American-Chemical-Society (ACS) on Advanced Materials, Technologies, Systems, and Processes, San-Francisco, Costa Rica, 2 - 06 April 2017, vol.253
- XIV. **Degradable macro-, micro- and nano-sized natural phenolic based particles**



- ŞAHİNER N., SAĞBAŞ SUNER S., ŞAHİNER M., AKTAŞ N.  
4th International Conference on Nanotechnology in Medicine (NANOMED), 7 - 09 November 2016
- XV. **Superporous HA cryogels embedding synthetic PEI microgels and HNT as natural clay**  
DEMİRCİ Ş., SAĞBAŞ SUNER S., ŞAHİNER M., ŞAHİNER N.  
3th International Conference on Bio-based Polymers and Composites, 28 August - 01 September 2016
- XVI. **Controlled release of tannic acid from poly(tannic acid) microgel, and nanogels**  
ŞAHİNER N., SAĞBAŞ SUNER S., AKTAŞ N., ŞAHİNER M.  
NanoSmat 2016, 11th Conference on Surfaces, Coatings and Nanostructured Materials, 18 - 20 May 2016
- XVII. **Poly(tannic acid) particles embedded superporous poly(hydroxyethyl methacrylate) cryogel for biomedical applications**  
ŞAHİNER M., SAĞBAŞ SUNER S., ŞAHİNER N.  
International Porous Powder Materials Symposium and Exhibitions, 15 - 18 September 2015
- XVIII. **Natural p(TA) hydrogel and microgel networks for diverse potential biomedical uses**  
ŞAHİNER N., SAĞBAŞ SUNER S., ŞAHİNER M., AKTAŞ N.  
249th National Spring Meeting of the American Chemical Society (ACS), 22 - 26 March 2015, vol.249
- XIX. **Tannic acid based natural particles for versatile use**  
ŞAHİNER N., SAĞBAŞ SUNER S., AKTAŞ N.  
247th National Spring Meeting of the American Chemical Society (ACS), 16 - 20 March 2014
- XX. **Preparation of biopolymeric particles from natural inulin**  
SILAN C., SAĞBAŞ SUNER S., ŞAHİNER N.  
245th National Spring Meeting of the American Chemical Society (ACS), 7 - 11 April 2013
- XXI. **Preparation of p(vinyl phosphonic acid) microgels and its metal nanoparticle containing composites for H-2 generation from the hydrolysis of sodium borohydride**  
SAĞBAŞ SUNER S., ŞAHİNER N.  
245th National Spring Meeting of the American-Chemical-Society (ACS), Louisiana, United States Of America, 7 - 11 April 2013, vol.245
- XXII. **Super porous hydrogels as coordinating templates for in situ metal nanoparticle preparation and use as soft reactors in hydrogen production from the hydrolysis of hydrides**  
ŞAHİNER N., SAĞBAŞ SUNER S., Turhan T., KARACAN E., Seven F., Yasar A., Alpaslan D., Aktaş N., Aktaş N.  
244th National Fall Meeting of the American-Chemical-Society (ACS), Pennsylvania, United States Of America, 19 - 23 August 2012, vol.244

## Supported Projects

Sağbaşı Suner S., Şahiner N., Silan C., Güngör B., Erdoğan H., Ünver Saraydın S., TÜBİTAK Project, Süperkritik Karbon Dioksit İle İlaç İmpregne Kontakt Lenslerin Hazırlanması Ve Keratit Tedavisinde Kullanımının Araştırılması, 2022 - 2025

ŞAHİNER N., SAĞBAŞ SUNER S., ŞAHİNER M., AKÇALI A., Project Supported by Higher Education Institutions, Antibiyotik olarak Azot N Kükürt S ve Bor B katkılı Karbon kuantum partiküllerinin KKdotlarının antipatojenik etki ve mekanizmalarının belirlenmesi, 2022 - 2024

Yılmaz S., Şahiner N., Sağbaşı Suner S., Demirci Ş., Bağdat S., Tokay F., TÜBİTAK Project, Zeytin Karasuyundaki Fenolik Bileşiklerin Ayrılması İçin Doğal Kil Halloysit Nanotüp (HNT) Esaslı Malzemelerinin Geliştirilmesi, 2022 - 2024

SAĞBAŞ SUNER S., ŞAHİNER N., ŞAHİNER M., DEMİRCİ Ş., Project Supported by Higher Education Institutions, Süper makro gözenekli pullulan kriyojellerinin sentezi karakterizasyonu ve ilaç taşıma sistemleri olarak kullanım potansiyelleri, 2022 - 2023

SAĞBAŞ SUNER S., ŞAHİNER N., ŞAHİNER M., Demirci Ş., Project Supported by Higher Education Institutions, Kanseri İlaçlı Yüklene Hiyaluronik Esaslı Polimerik Yapıların Antikanser Etkilerinin Araştırılması, 2021 - 2022

SAĞBAŞ SUNER S., ŞAHİNER N., SÜTEKİN S. D., Demirci Ş., Project Supported by Higher Education Institutions, Biyomedikal Uygulamalar için Poligalaktronik Asit Mikro/nanojellerinin Sentezlenmesi ve Karakterizasyonu, 2020 - 2021

TÜBİTAK Project, Doğal Bir Molekül Olan Tannik Asitten Partiküller Hazırlanması Ve Bunların Biyomedikal Uygulamaları, 2013 - 2015

Şahiner N., TUBITAK Project, Gözenekliliđi kontrol eilebilen akıllı hidrojel ve kompozitleri ierisinde sentezlenen metal nano katalizörlerin hidrojen üretiminde kullanılmasının araştırılması, 2011 - 2013

## **Metrics**

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