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Education Information

Doctorate, Tulane University, Chemical And Biomolecular Engineering , United States Of America 2001 - 2005

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya, Turkey 1994 - 1997

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 1989 - 1994

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Hydrogels with Tunable Size, Structure and Properties for Applications in Bio- and Nanotechnology, Tulane University, Chemical And Biomolecular Engineering, Nano Materials, 2005

Postgraduate, Amidoksim Esaslı Polimerik Ağ Yapıların Hazırlanması ve Uranil İyonu Tutulmasında Kullanılması, Hacettepe University, Fen Bilimleri Enstitüsü , Kimya, 1997

Research Areas

Chemistry, Physical Chemistry, New Technologies in Polymer Chemistry, Polymeric Materials, Natural Sciences

Academic Titles / Tasks

Professor, Canakkale Onsekiz Mart University, Fen Fakültesi, Kimya, 2015 - Continues

Assistant Professor, Canakkale Onsekiz Mart University, Fen Fakültesi, Kimya, 2007 - 2009

Other, Tulane University, Chemical And Biomolecular Engineering, Chemistry, 2006 - 2007

Other, University of Delaware, Materials Science & Engineering, Chemistry, 2005 - 2006

Research Assistant, Tulane University, Chemical And Biomolecular Engineering, Chemistry, 2001 - 2005

- I. **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., Şahiner N.
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- II. **Modifying wetting properties of PI Film: The impact of surface texturing and CF₄ and O₂ plasma treatment**
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- III. **Slightly degradable, naturally antibacterial hydrogel matrixes derived from polyvinyl alcohol and linear/branched-polyethyleneimine as a wound dressing material**
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- IV. **Highly re-usable porous carbon-based particles as adsorbents for the development of CO₂ capture technologies**
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- V. **Phosphazene-based covalent organic polymers as metal-free catalysts with improved H₂ generation from NaBH₄ in methanol with superior catalytic activity and re-generation ability**
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- VI. **Amine-modified halloysite nanotube embedded PEI cryogels as adsorbent nanoarchitectonics for recovery of valuable phenolic compounds from olive mill wastewater**
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- VII. **Fluorescent Graphitic Carbon Nitride (g-C₃N₄)-Embedded Hyaluronic Acid Microgel Composites for Bioimaging and Cancer-Cell Targetability as Viable Theragnostic**
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- VIII. **Super porous α-, β-, γ-cyclodextrin cryogels with high active agent loading and controllable release profiles**
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Journal of Applied Polymer Science, vol.141, no.3, 2024 (SCI-Expanded)
- IX. **B, P, and S heteroatom doped, bio- and hemo-compatible 2D graphitic-carbon nitride (g-C₃N₄) with antioxidant, light-induced antibacterial, and bioimaging endeavors**
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- X. **Cell Staining Microgels Derived from a Natural Phenolic Dye: Hematoxylin Has Intriguing Biomedical Potential**
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- XI. **Water Dynamics in Dextran-Based Hydrogel Micro/Nanoparticles Studied by NMR Diffusometry and Relaxometry**
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- XII. **Rapid Pathogen Purge by Photosensitive Arginine–Riboflavin Carbon Dots without Toxicity**
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- XIII. **ESI-IM-MS characterization of cyclodextrin complexes and their chemically cross-linked alpha (α-), beta (β-) and gamma (γ-) cyclodextrin particles as promising drug delivery materials with improved**

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- XIV. **Carboxymethyl Chitosan Microgels for Sustained Delivery of Vancomycin and Long-Lasting Antibacterial Effects**
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- XV. **Poly(2-aminoethyl methacrylate) based microgels catalyst system to be used in hydrolysis and methanolysis of NaBH₄ for H₂ generation**
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- XVI. **Super-Macroporous Pullulan Cryogels as Controlled Active Delivery Systems with Controlled Degradability**
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- XVII. **Alpha-Glucosidase Enzyme Immobilized Dextran-Co Metal Nanoparticle Cryogel Composite Systems as Dual Catalyst with Enhanced Stability and Catalytic Activity**
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- XVIII. **A simple gradient centrifugation method for bacteria detection in skim milk**
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- XIX. **Force-Based Characterization of the Wetting Properties of LDPE Surfaces Treated with CF₄ and H₂ Plasmas**
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- XX. **Biocompatible Glycol Chitosan Microgels as Effective Drug Carriers**
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- XXI. **Carbon Tetrafluoride, Oxygen, and Air RF Plasma Modified Low-Density Polyethylene and Polydimethylsiloxane**
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- XXII. **Low-pressure plasma treated polycarbonate and polymethyl methacrylate (PMMA) sheets with different surface patterns to change their surface properties**
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- XXIII. **Physically Crosslinked Chondroitin Sulfate (CS)–Metal Ion (M: Fe(III), Gd(III), Zn(II), and Cu(II)) Particles for Versatile Applications and Their Biosafety**
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- XXIV. **Removal of Cd(II), Co(II), Cr(III), Ni(II), Pb(II) and Zn(II) ions from wastewater using polyethyleneimine (PEI) cryogels**
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- XXV. **Biofouling and Mitigation Methods: A Review**
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- XXVI. **Physically and Chemically Crosslinked, Tannic Acid Embedded Linear PEI-Based Hydrogels and Cryogels with Natural Antibacterial and Antioxidant Properties**
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- XXVII. **Poly(Glycerol) Microparticles as Drug Delivery Vehicle for Biomedical Use**
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- XXVIII. **A Review on Phyto-Therapeutic Approaches in Alzheimer's Disease**
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- XXIX. **Thermo-responsive macroporous p(NIPAM) cryogel affords enhanced thermal stability and activity for a-glucosidase enzyme by entrapping in situ**
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- XXX. **Light-Activated Modified Arginine Carbon Dots as Antibacterial Particles**
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- XXXII. **A comparison study about antibacterial activity of zeolitic imidazolate frameworks (ZIFs) prepared with various metal ions**
Demirci S., Yildirim Y., ŞAHİNER N.
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- XXXIII. **Recent developments in CO₂ capture, utilization, related materials, and challenges**
Gizer S. G., Polat O., Ram M. K., Sahiner N.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.12, pp.16241-16263, 2022 (SCI-Expanded)
- XXXIV. **Therapeutic and Nutraceutical Effects of Polyphenolics from Natural Sources**
ŞAHİNER M., Yilmaz A. S., GÜNGÖR B., Ayoubi Y., ŞAHİNER N.
MOLECULES, vol.27, no.19, 2022 (SCI-Expanded)
- XXXV. **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)
- XXXVI. **Label-Free Surface Enhanced Raman Spectroscopy for Cancer Detection**
Avcı E., Yilmaz H., Sahiner N., TUNA B. G., Cicekdal M. B., Eser M., Basak K., Altintoprak F., Zengin I., DOĞAN S., et al.
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- XXXVIII. **Poly(vinyl amine) microparticles derived from N-Vinylformamide and their versatile use**
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- XXXIX. **Biofilm inhibition and bacterial eradication by C-dots derived from polyethyleneimine-citric acid**
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- XL. **P(HMA-co-ATU) hydrogel synthesis via gamma radiation and its use for in situ metal nanoparticle preparation and as catalyst in 4-nitrophenol reduction**
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- XLI. **Recent development in solar-driven photocatalytic hydrogen production utilizing g-C₃N₄**
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- XLII. **Degradable poly(catechin) nanoparticles as a versatile therapeutic agent**

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- XLIII. **Titanium platelet-rich fibrin (T-PRF) as high-capacity doxycycline delivery system**
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- XLIV. **Synthesis and Characterization of a New Cryogel Matrix for Covalent Immobilization of Catalase**
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- XLV. **Superporous poly(β -Cyclodextrin) cryogels as promising materials for simultaneous delivery of both hydrophilic and hydrophobic drugs**
Ari B., Demirci S., Ayyala R. S., SALİH B., ŞAHİNER N.
EUROPEAN POLYMER JOURNAL, vol.176, 2022 (SCI-Expanded)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **Thiourea-Isocyanate-Based Covalent Organic Frameworks with Tunable Surface Charge and Surface Area for Methylene Blue and Methyl Orange Removal from Aqueous Media**
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- XLIX. **Beaded chitosan/carrageenan based fiber with bio-medicinal application potentials**
Kurt S. B., ŞAHİNER N.
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- L. **Polyethyleneimine based Cerium(III) and Ce(NO₃)₃ metal-organic frameworks with blood compatible, antioxidant and antimicrobial properties**
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Inorganica Chimica Acta, vol.534, 2022 (SCI-Expanded)
- LI. **Trimesic Acid-Based Co(II) MOFs as Colorimetric Sensor for Detection of Ammonia Gas**
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- LII. **One step synthesis of an amino acid derived particles, poly(L-Arginine) and its biomedical application**
ŞAHİNER N.
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- LIII. **pH-Responsive Amphoteric p (APTMACI-co-AMPS) Hydrogel as Effective Multiple Dye Sponge Network From Aqueous Media**
Demirci S., Ari B., Aktaş N., ŞAHİNER N.
FRONTIERS IN MATERIALS, vol.9, 2022 (SCI-Expanded)
- LIV. **Biocompatible poly(galacturonic acid) micro/nanogels with controllable degradation via tunable chemical crosslinking**
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- LV. **Colloidal bioactive nanospheres prepared from natural biomolecules, catechin and L-lysine**
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- Demirci S., ŞAHİNER N.
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- LVII. **Hyaluronic acid (HA)-Gd(III) and HA-Fe(III) microgels as MRI contrast enhancing agents**
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- LVIII. **Poly(vinyl alcohol)-tannic Acid Cryogel Matrix as Antioxidant and Antibacterial Material**
Ari B., ŞAHİNER M., Demirci S., ŞAHİNER N.
POLYMERS, vol.14, no.1, 2022 (SCI-Expanded)
- LIX. **alpha-Glucosidase enzyme entrapped superporous poly(amphoteric) cryogel reactor with improved enzymatic activity and stability over wide pH ranges**
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- LX. **Chemically Cross-Linked Poly(β -Cyclodextrin) Particles as Promising Drug Delivery Materials**
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- LXII. **Stabilisation of lavender essential oil extracted by microwave-assisted hydrodistillation: Characteristics of starch and soy protein-based microemulsions**
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- LXIII. **Biodiverse Properties of Tannic Acid-Based Fibers**
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- LXIV. **Improved Biomedical Properties of Polydopamine-Coated Carbon Nanotubes**
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- LXV. **Versatile Fluorescent Carbon Dots from Citric Acid and Cysteine with Antimicrobial, Anti-biofilm, Antioxidant, and AChE Enzyme Inhibition Capabilities**
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- LXVI. **Synthesis and characterization of cobalt nanoparticles containing anionic polymer hydrogel nanocomposite catalysts for fast reduction of nitrocompounds in water**
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- LXVII. **Tunable fluorescent and antimicrobial properties of poly(vinyl amine) affected by the acidic or basic hydrolysis of poly(N-vinylformamide)**
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- LXVIII. **Chondroitin Sulfate-Based Cryogels for Biomedical Applications**
Demirci S., ŞAHİNER M., Ari B., Sunol A. K., ŞAHİNER N.
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- LXIX. **A polyphenolic biomacromolecule prepared from a flavonoid: Catechin as degradable microparticles**
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- LXX. **Tannic Acid for Simple and Highly Selective Visual Detection of Iron (II) and (III) Ions from Different Aqueous Environments**
YILDIZ M., ŞAHİNER N.

- Water, Air, and Soil Pollution, vol.232, no.5, 2021 (SCI-Expanded)
- LXXI. **Self-Crosslinked Ellipsoidal Poly(Tannic Acid) Particles for Bio-Medical Applications**
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- LXXII. **A facile one-pot synthesis of microgels and nanogels of laminarin for biomedical applications**
Can M., ŞAHİNER N.
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- LXXIII. **Dichromate and arsenate anion removal by PEI microgel, cryogel, and bulkgel**
Kubilay Ş., Demirci S., Can M., Aktas N., ŞAHİNER N.
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Chemical Engineering Journal, vol.409, 2021 (SCI-Expanded)
- LXXV. **PEI modified natural sands of Florida as catalysts for hydrogen production from sodium borohydride dehydrogenation in methanol**
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- LXXVI. **Versatile poly(maltose) micro/nanoparticles with tunable surface functionality as a biomaterial**
Kurt S. B., Ayyala R. S., ŞAHİNER N.
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- LXXVIII. **Chitosan based fibers embedding carbon dots with anti-bacterial and fluorescent properties**
Kurt S. B., ŞAHİNER N.
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- LXXIX. **Modification of halloysite clay nanotubes with various alkyl halides, and their characterization, blood compatibility, biocompatibility, and genotoxicity**
Can M., Demirci Ş., Yıldırım Y., Çakır Çoban C., Türk M., Şahiner N.
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- LXXX. **Rod-like L-Aspartic acid-Cu(II) metal organic frameworks; Synthesis, characterization and biomedical properties**
Gizer G., Şahiner M., Yıldırım Y., Demirci Ş., Can M., Şahiner N.
Current Research in Green and Sustainable Chemistry, vol.4, 2021 (SCI-Expanded)
- LXXXI. **HA particles as resourceful cancer, steroidal and antibiotic drug delivery device with sustainable and multiple drug release capability**
Şahiner N., Suner S., Kurt S. B., Can M., Ayyala R. S.
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- LXXXII. **Biocompatible macro, micro and nano scale guar gum hydrogels and their protein absorption capacity**
Suner S., ŞAHİNER N.
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- LXXXIII. **An amino acid, L-Glutamic acid-based metal-organic frameworks and their antibacterial, blood compatibility, biocompatibility, and sensor properties**
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