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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, C1 Advanced

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 Edebiyat Fakültesi, Kimya, 2015 - Continues

Assistant Professor, Canakkale Onsekiz Mart University, Fen Edebiyat 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

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

- Beaded chitosan/carrageenan based fiber with bio-medicinal application potentials**
Kurt S. B. , ŞAHİNER N.
JOURNAL OF POLYMER RESEARCH, vol.29, no.5, 2022 (Journal Indexed in SCI)

- II. **Polyethyleneimine based Cerium(III) and Ce(NO₃)₃ metal-organic frameworks with blood compatible, antioxidant and antimicrobial properties**
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- III. **Biocompatible poly(galacturonic acid) micro/nanogels with controllable degradation via tunable chemical crosslinking**
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- IV. **Colloidal bioactive nanospheres prepared from natural biomolecules, catechin and L-lysine**
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- V. **Thermo-responsive macroporous p(NIPAM)cryogel affords enhanced thermal stability and activity for α-glucosidase enzyme by entrapping in situ**
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- VI. **pH-Responsive Amphoteric p (APTMACI-co-AMPS) Hydrogel as Effective Multiple Dye Sponge Network From Aqueous Media**
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- VIII. **Urease-Immobilized PEI Cryogels for the Enzymatic Hydrolysis of Urea and Carbon Dioxide Uptake**
Demirci S., ŞAHİNER N.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.61, no.7, pp.2771-2782, 2022 (Journal Indexed in SCI)
- IX. **Hyaluronic acid (HA)-Gd(III) and HA-Fe(III) microgels as MRI contrast enhancing agents**
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- X. **Poly(vinyl alcohol)-tannic Acid Cryogel Matrix as Antioxidant and Antibacterial Material**
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- XI. **α-Glucosidase enzyme entrapped superporous poly(amphoteric) cryogel reactor with improved enzymatic activity and stability over wide pH ranges**
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CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.177, pp.670-681, 2022 (Journal Indexed in SCI)
- XII. **The effect of sulphur on the antibacterial properties of succinic acid-Cu(II) and mercaptosuccinic acid-Cu(II) MOFs**
Gizer S. G. , ŞAHİNER N.
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- XIII. **Stabilisation of lavender essential oil extracted by microwave-assisted hydrodistillation: Characteristics of starch and soy protein-based microemulsions**
Çelebi Uzkuç N. M. , Uzkuç H., Berber M. M. , Tarhan Kuzu K., Özmen Toğay S., İşleten Hoşoğlu M., Kirca Toklucu A., Kurt S. B. , Şahiner N., Yüceer Y.
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- XIV. **One step synthesis of an amino acid derived particles, poly(L-Arginine) and its biomedical application**
ŞAHİNER N.
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- XV. **Improved Biomedical Properties of Polydopamine-Coated Carbon Nanotubes**
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MICROMACHINES, vol.12, no.11, 2021 (Journal Indexed in SCI)

- XVI. **Poly(vinyl amine) microparticles derived from N-Vinylformamide and their versatile use**
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- XVII. **Chondroitin Sulfate-Based Cryogels for Biomedical Applications**
Demirci S., ŞAHİNER M., Ari B., Sunol A. K. , ŞAHİNER N.
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- XVIII. **Versatile Fluorescent Carbon Dots from Citric Acid and Cysteine with Antimicrobial, Anti-biofilm, Antioxidant, and AChE Enzyme Inhibition Capabilities**
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- XX. **Biodiverse Properties of Tannic Acid-Based Fibers**
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- XXI. **Synthesis and characterization of cobalt nanoparticles containing anionic polymer hydrogel nanocomposite catalysts for fast reduction of nitrocompounds in water**
Jabeen N., Farooqi Z. H. , Shah A., Ali A., Khurram M., Mahmood K., ŞAHİNER N., Ajmal M.
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- XXIII. **Self-Crosslinked Ellipsoidal Poly(Tannic Acid) Particles for Bio-Medical Applications**
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- XXIV. **A facile one-pot synthesis of microgels and nanogels of laminarin for biomedical applications**
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- XXV. **Superporous neutral, anionic, and cationic cryogel reactors to improved enzymatic activity and stability of α -Glucosidase enzyme via entrapment method**
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- XXVI. **Catalytic performance of boron-containing magnetic metal nanoparticles in methylene blue degradation reaction and mixture with other pollutants**
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- XXVII. **Modification of halloysite clay nanotubes with various alkyl halides, and their characterization, blood compatibility, biocompatibility, and genotoxicity**
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- XXXIV. **Synthesis and characterization of nitrogen-doped carbon dots as fluorescent nanoprobe with antimicrobial properties and skin permeability**
Demirci S., McNally A. B. , Ayyala R. S. , Lawson L. B. , ŞAHİNER N.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.59, 2020 (Journal Indexed in SCI)
- XXXV. **PEI modified natural sands of Florida as catalysts for hydrogen production from sodium borohydride dehydrogenation in methanol**
Inger E., Demirci S., Can M., Sunol A. K. , Philippidis G., ŞAHİNER N.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, 2020 (Journal Indexed in SCI)
- XXXVI. **Versatile poly(maltose) micro/nanoparticles with tunable surface functionality as a biomaterial**
Kurt S. B. , Ayyala R. S. , ŞAHİNER N.
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- XXXVII. **Carbon Dots Fabrication: Ocular Imaging and Therapeutic Potential**
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- XXXVIII. **Preparation of dextran cryogels for separation processes of binary dye and pesticide mixtures from aqueous solutions**
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- XXXIX. **Preparation of hyaluronic acid and copolymeric hyaluronic acid: sucrose particles as tunable antibiotic carriers**
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- XL. **Graphene Aerogels for In Situ Synthesis of Conductive Poly(para-phenylenediamine) Polymers, and Their Sensor Application**
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- XLI. **Catalytic activity of metal-free amine-modified dextran microgels in hydrogen release through methanolysis of NaBH₄**
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- XLII. **Natural Celluloses as Catalysts in Dehydrogenation of NaBH₄ in Methanol for H₂ Production**
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- XLIII. **Boron-containing magnetic nanoparticles from Co, Ni, and Fe chloride salts and their catalytic performances on 4-nitrophenol reduction**
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- XLIV. **Biofabrication of Chitosan-Based Nanomedicines and Its Potential Use for Translational Ophthalmic Applications**
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- XLV. **Amino acid-derived Poly((L)-Lysine) (p(LL)) microgel as a versatile biomaterial: Hydrolytically degradable, drug carrying, chemically modifiable and antimicrobial material**
ŞAHİNER N.
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- XLVI. **Porous carbon particles as metal-free superior catalyst for hydrogen release from methanolysis of sodium borohydride**
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- XLVII. **Synthesis and preparation of responsive poly(Dimethyl acrylamide/gelatin and pomegranate extract) as a novel food packaging material**
Alpaslan D., Dudu T. E. , ŞAHİNER N., Aktasa N.
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- XLVIII. **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 (Journal Indexed in SCI)
- XLIX. **Catalytic activity of amine functionalized titanium dioxide nanoparticles in methanolysis of sodium borohydride for hydrogen generation**
Demirci S., Sunol A. K. , ŞAHİNER N.
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- L. **Simultaneous degradation and reduction of multiple organic compounds by poly(vinyl imidazole) cryogels templated Co, Ni, Cu metal nanoparticles**
TERCAN M., DEMİRCİ Ş., DAYAN O., ŞAHİNER N.
NEW JOURNAL OF CHEMISTRY, vol.1, no.1, pp.1-10, 2020 (Journal Indexed in SCI Expanded)
- LI. **Functionalization of halloysite nanotubes with polyethyleneimine and various ionic liquid forms with antimicrobial activity**
Suner S., ŞAHİNER M., AKÇALI A., ŞAHİNER N.
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- LII. **Antimicrobial activity and biocompatibility of slow-release hyaluronic acid-antibiotic conjugated particles**
Zhang Z., Suner S., Blake D. A. , Ayyala R. S. , ŞAHİNER N.
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- LIII. **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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- LIV. **Tunable Friction Through Stimuli Responsive Hybrid Carbon Microspheres**
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- LV. **Preparation of Macroporous Carboxymethyl Cellulose Cryogels and Its Blood Compatibility**
ŞAHİNER N., SAĞBAŞ SUNER S., TOSUNOĞLU M.
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- LVI. **Graphene oxide embedded P(AAm)/PANI cryogel polymer composites for sensor application against pesticide, nitro compound, and organic dyes**
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- LX. **N-doped C-dot embedded fluorescent and thermo-responsive p(NIPAAm) microgel composites**
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- LXI. **Enhancement of biocompatibility and carbohydrate absorption control potential of rosmarinic acid through crosslinking into microparticles**
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- LXII. **Nitrogen and Sulfur Doped Carbon Dots from Amino Acids for Potential Biomedical Applications**
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- LXIII. **Synthesis and characterization of poly(N-(2-mercaptoethyl) acrylamide) microgel for biomedical applications**
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- LXIV. **Cryogel composites based on hyaluronic acid and halloysite nanotubes as scaffold for tissue engineering**
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- LXV. **Mesoporous, degradable hyaluronic acid microparticles for sustainable drug delivery application**
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- LXVI. **The use of M@p(4-VP) and M@p(VI) (M:Co, Ni, Cu) cryogel catalysts as reactor in a glass column in the reduction of p-nitrophenol to p-aminophenol under gravity**
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- LXVII. **The preparation and use of p(2-acrylamido-2-methyl-1-propanesulfonic acid)-tris(dioxa-3,6-heptyl)amine (p(AMPS)-TDA-1) ionic liquid microgel in hydrogen production**
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- LXIX. **Hyaluronic acid and hyaluronic acid: Sucrose nanogels for hydrophobic cancer drug delivery**
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- INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.126, pp.1150-1157, 2019 (Journal Indexed in SCI)
- LXX. **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**
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- LXXII. **Online monitoring of dopamine particle formation via continuous light scattering intensity measurement**
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- LXXIII. **Nematicidal effects of olive pomace and green walnut husk on root-knot nematode *Meloidogyne incognita* on tomato**
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- LXXV. **Nematicidal effects of olive pomace and green walnut husk on root-knot nematodes *Meloidogyne incognita* on tomato**
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- LXXVII. **Polydopamine particles as nontoxic, blood compatible, antioxidant and drug delivery materials**
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- LXXVIII. **Modifiable natural gum based microgel capsules as sustainable drug delivery systems**
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- LXXX. **One step preparation of polymeric maltitol particles, from a sugar molecule, maltitol for biomedical applications**
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- LXXXI. **Highly regenerable ionic liquid microgels as inherently metal-free green catalyst for H₂ generation**
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