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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 Esash 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

PUBLISHED JOURNAL ARTICLES INDEXED BY SCI, SSCI, AND AHCI

- I. **Modifying wetting properties of PI Film: The impact of surface texturing and CF4 and O2 plasma treatment**
Aktas C., Bhethanabotla V., Ayyala R. S., ŞAHİNER N.
Applied Surface Science, vol.656, 2024 (SCI-Expanded)
- II. **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**
Demirci S., Yıldız M., ŞAHİNER N.
Journal of Environmental Chemical Engineering, vol.12, no.2, 2024 (SCI-Expanded)
- III. **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)
- IV. **Fluorescent Graphitic Carbon Nitride (g-C₃N₄)-Embedded Hyaluronic Acid Microgel Composites for Bioimaging and Cancer-Cell Targetability as Viable Theragnostic**
SUNER S. C., ŞAHİNER M., Demirci S., UMUT E., ŞAHİNER N.
Pharmaceuticals, vol.17, no.2, 2024 (SCI-Expanded)
- V. **Super porous α-, β-, γ-cyclodextrin cryogels with high active agent loading and controllable release profiles**
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- VI. **Cell Staining Microgels Derived from a Natural Phenolic Dye: Hematoxylin Has Intriguing Biomedical Potential**
ŞAHİNER M., Sunol A. K., ŞAHİNER N.
Pharmaceutics, vol.16, no.1, 2024 (SCI-Expanded)
- VII. **B, P, and S heteroatom doped, bio- and hemo-compatible 2D graphitic-carbon nitride (g-C₃N₄) with antioxidant, light-induced antibacterial, and bioimaging endeavors**
Demirci S., Suner S. S., Neli O. U., KOCA A., ŞAHİNER N.
Nanotechnology, vol.35, no.2, 2023 (SCI-Expanded)
- VIII. **Water Dynamics in Dextran-Based Hydrogel Micro/Nanoparticles Studied by NMR Diffusometry and Relaxometry**
UMUT E., Beira M. J., ÖZTOP H. M., ŞAHİNER N., Sebastião P. J., Kruk D.
The journal of physical chemistry. B, vol.127, no.41, pp.8950-8960, 2023 (SCI-Expanded)
- IX. **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 bioavailability**
YILMAZ S., Ozturk S., SALİH B., Ayyala R. S., ŞAHİNER N.
Colloids and Surfaces B: Biointerfaces, vol.230, 2023 (SCI-Expanded)
- X. **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)
- XI. **Carboxymethyl Chitosan Microgels for Sustained Delivery of Vancomycin and Long-Lasting Antibacterial Effects**
ŞAHİNER M., Yilmaz A. S., Ayyala R. S., ŞAHİNER N.
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- XII. **Poly(2-aminoethyl methacrylate) based microgels catalyst system to be used in hydrolysis and methanolysis of NaBH₄ for H₂ generation**
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- XIII. **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)
- XIV. **Alpha-Glucosidase Enzyme Immobilized Dextran-Co Metal Nanoparticle Cryogel Composite Systems as Dual Catalyst with Enhanced Stability and Catalytic Activity**
Demirci S., ŞAHİNER N.
ChemCatChem, vol.15, no.11, 2023 (SCI-Expanded)
- XV. **A simple gradient centrifugation method for bacteria detection in skim milk**
Rodoplù Solovchuk D., BOYACI İ. H., TAMER U., ŞAHİNER N., ÇETİN D.
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- XVI. **Carbon Tetrafluoride, Oxygen, and Air RF Plasma Modified Low-Density Polyethylene and Polydimethylsiloxane**
Polat O., Bhethanabotla V. R., Ayyala R. S., ŞAHİNER N.
Plasma Chemistry and Plasma Processing, vol.43, no.3, pp.737-756, 2023 (SCI-Expanded)
- XVII. **Force-Based Characterization of the Wetting Properties of LDPE Surfaces Treated with CF₄ and H₂ Plasmas**
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- XVIII. **Biocompatible Glycol Chitosan Microgels as Effective Drug Carriers**
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- XIX. **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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Pharmaceuticals, vol.16, no.4, 2023 (SCI-Expanded)
- XX. **Low-pressure plasma treated polycarbonate and polymethyl methacrylate (PMMA) sheets with different surface patterns to change their surface properties**
Gizer S. G., Bhethanabotla V. R., Ayyala R. S., Şahiner N.
Surfaces and Interfaces, vol.1, pp.102646, 2023 (SCI-Expanded)
- XXI. **Removal of Cd(II), Co(II), Cr(III), Ni(II), Pb(II) and Zn(II) ions from wastewater using polyethyleneimine (PEI) cryogels**
Bagdat S., Tokay F., Demirci S., YILMAZ S., ŞAHİNER N.
Journal of Environmental Management, vol.329, 2023 (SCI-Expanded)
- XXII. **Biofouling and Mitigation Methods: A Review**
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Biointerface Research in Applied Chemistry, vol.13, no.2, pp.185, 2023 (SCI-Expanded)
- XXIII. **Poly(Glycerol) Microparticles as Drug Delivery Vehicle for Biomedical Use**
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- XXIV. **Physically and Chemically Crosslinked, Tannic Acid Embedded Linear PEI-Based Hydrogels and Cryogels with Natural Antibacterial and Antioxidant Properties**
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- XXV. **A Review on Phyto-Therapeutic Approaches in Alzheimer's Disease**
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- XXVI. **Thermo-responsive macroporous p(NIPAM)cryogel affords enhanced thermal stability and activity for α-glucosidase enzyme by entrapping in situ**
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CANADIAN JOURNAL OF CHEMICAL ENGINEERING, vol.100, no.12, pp.3575-3587, 2022 (SCI-Expanded)
- XXVII. **A comparison study about antibacterial activity of zeolitic imidazolate frameworks (ZIFs) prepared with various metal ions**
Demirci S., Yıldırım Y., ŞAHİNER N.

- Inorganica Chimica Acta, vol.542, 2022 (SCI-Expanded)
- XXVIII. **The synthesis and characterization of PTCDA-Co(II), and PTCDA-La(III) fluorescent MOFs** br
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- XXIX. **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)
- XXX. **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)
- XXXI. **Enhanced Bioactive Properties of Halloysite Nanotubes via Polydopamine Coating**
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POLYMERS, vol.14, no.20, pp.1-14, 2022 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **Label-Free Surface Enhanced Raman Spectroscopy for Cancer Detection**
Avci E., Yilmaz H., Sahiner N., TUNA B. G., Cicekdal M. B., Eser M., Basak K., Altintoprak F., Zengin I., DOĞAN S., et al.
CANCERS, vol.14, no.20, 2022 (SCI-Expanded)
- XXXV. **Poly(vinyl amine) microparticles derived from N-Vinylformamide and their versatile use**
Demirci S., SÜTEKİN S. D., Kurt S. B., Guven O., ŞAHİNER N.
POLYMER BULLETIN, vol.79, no.9, pp.7729-7751, 2022 (SCI-Expanded)
- XXXVI. **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**
Guven O., Demirci S., SÜTEKİN S. D., Ari B., ŞAHİNER N.
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- XXXVII. **Degradable poly(catechin) nanoparticles as a versatile therapeutic agent**
SUNER S. C., ŞAHİNER M., Mohapatra S., Ayyala R. S., Bhethanabotla V. R., ŞAHİNER N.
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- XXXVIII. **Recent development in solar-driven photocatalytic hydrogen production utilizing g-C₃N₄**
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- XXXIX. **Biofilm inhibition and bacterial eradication by C-dots derived from polyethyleneimine-citric acid**
Abraham W. L., Demirci S., Wypyski M. S., Ayyala R. S., Bhethanabotla V. R., Lawson L. B., Sahiner N.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.217, 2022 (SCI-Expanded)
- XL. **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)
- XLI. **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)
- XLII. **Synthesis and Characterization of a New Cryogel Matrix for Covalent Immobilization of Catalase**
Altunbas C., ASLAN A., KUŞAT K., ŞAHİNER M., AKGÖL S., ŞAHİNER N.
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- XLIII. **Titanium platelet-rich fibrin (T-PRF) as high-capacity doxycycline delivery system**
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Clinical Oral Investigations, vol.26, no.8, pp.5429-5438, 2022 (SCI-Expanded)
- XLIV. **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)
- XLV. **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)
- XLVI. **Polyethyleneimine based Cerium(III) and Ce(NO₃)₃ metal-organic frameworks with blood compatible, antioxidant and antimicrobial properties**
Demirci S., ŞAHİNER N.
Inorganica Chimica Acta, vol.534, 2022 (SCI-Expanded)
- XLVII. **Beaded chitosan/carrageenan based fiber with bio-medicinal application potentials**
Kurt S. B., ŞAHİNER N.
JOURNAL OF POLYMER RESEARCH, vol.29, no.5, 2022 (SCI-Expanded)
- XLVIII. **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)
- XLIX. **pH-Responsive Amphoteric p (APTMACl-co-AMPS) Hydrogel as Effective Multiple Dye Sponge Network From Aqueous Media**
Demirci S., Ari B., Aktaş N., ŞAHİNER N.
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- L. **Colloidal bioactive nanospheres prepared from natural biomolecules, catechin and L-lysine**
Can M., ŞAHİNER M., ŞAHİNER N.
JOURNAL OF POLYMER RESEARCH, vol.29, no.3, 2022 (SCI-Expanded)
- LI. **One step synthesis of an amino acid derived particles, poly(L-Arginine) and its biomedical application**
ŞAHİNER N.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.33, no.3, pp.831-842, 2022 (SCI-Expanded)
- LII. **Trimesic Acid-Based Co(II) MOFs as Colorimetric Sensor for Detection of Ammonia Gas**
Sotirov S., Demirci S., Marudova M., ŞAHİNER N.
IEEE SENSORS JOURNAL, vol.22, no.5, pp.3903-3910, 2022 (SCI-Expanded)
- LIII. **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)
- LIV. **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 (SCI-Expanded)
- LV. **Poly(vinyl alcohol)-tannic Acid Cryogel Matrix as Antioxidant and Antibacterial Material**
Ari B., ŞAHİNER M., Demirci S., ŞAHİNER N.
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- LVI. **alpha-Glucosidase enzyme entrapped superporous poly(amphoteric) cryogel reactor with improved enzymatic activity and stability over wide pH ranges**
Demirci S., ŞAHİNER N.
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.177, pp.670-681, 2022 (SCI-Expanded)
- LVII. **Chemically Cross-Linked Poly(β -Cyclodextrin) Particles as Promising Drug Delivery Materials**
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- ACS Applied Polymer Materials, vol.3, no.12, pp.6238-6251, 2021 (SCI-Expanded)
- LVIII. **The effect of sulphur on the antibacterial properties of succinic acid-Cu(II) and mercaptosuccinic acid-Cu(II) MOFs**
Gizer S. G., ŞAHİNER N.
INORGANICA CHIMICA ACTA, vol.528, 2021 (SCI-Expanded)
- LIX. **Stabilisation of lavender essential oil extracted by microwave-assisted hydrodistillation: Characteristics of starch and soy protein-based microemulsions**
ÇELEBİ UZKUÇ N. M., UZKUÇ H., Berber M. M., TARHAN KUZU K., ÖZMEN TOĞAY S., İşleten Hoşoğlu M., KIRCA TOKLUCU A., KURT S., ŞAHİNER N., Karagül Yüceer Y.
Industrial Crops and Products, vol.172, 2021 (SCI-Expanded)
- LX. **Improved Biomedical Properties of Polydopamine-Coated Carbon Nanotubes**
Demirci S., ŞAHİNER M., Suner S. S., ŞAHİNER N.
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- LXI. **Versatile Fluorescent Carbon Dots from Citric Acid and Cysteine with Antimicrobial, Anti-biofilm, Antioxidant, and AChE Enzyme Inhibition Capabilities**
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- LXII. **Biodiverse Properties of Tannic Acid-Based Fibers**
ŞAHİNER M., Kurt S. B., ŞAHİNER N.
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- LXIII. **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.
JOURNAL OF POROUS MATERIALS, vol.28, no.5, pp.1563-1576, 2021 (SCI-Expanded)
- LXIV. **Tunable fluorescent and antimicrobial properties of poly(vinyl amine) affected by the acidic or basic hydrolysis of poly(N-vinylformamide)**
SÜTEKİN S. D., Demirci S., Kurt S. B., Guven O., ŞAHİNER N.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, no.42, 2021 (SCI-Expanded)
- LXV. **Chondroitin Sulfate-Based Cryogels for Biomedical Applications**
Demirci S., ŞAHİNER M., Ari B., Sunol A. K., ŞAHİNER N.
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- LXVI. **A polyphenolic biomacromolecule prepared from a flavonoid: Catechin as degradable microparticles**
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- LXVII. **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)
- LXVIII. **Self-Crosslinked Ellipsoidal Poly(Tannic Acid) Particles for Bio-Medical Applications**
ŞAHİNER N.
MOLECULES, vol.26, no.9, 2021 (SCI-Expanded)
- LXIX. **A facile one-pot synthesis of microgels and nanogels of laminarin for biomedical applications**
Can M., ŞAHİNER N.
Journal of Colloid and Interface Science, vol.588, pp.40-49, 2021 (SCI-Expanded)
- LXX. **Dichromate and arsenate anion removal by PEI microgel, cryogel, and bulkgel**
Kubilay Ş., Demirci S., Can M., Aktas N., ŞAHİNER N.
Journal of Environmental Chemical Engineering, vol.9, no.2, 2021 (SCI-Expanded)
- LXXI. **Superporous neutral, anionic, and cationic cryogel reactors to improved enzymatic activity and stability of α -Glucosidase enzyme via entrapment method**
Demirci S., ŞAHİNER N.
Chemical Engineering Journal, vol.409, 2021 (SCI-Expanded)

- LXXII. PEI modified natural sands of Florida as catalysts for hydrogen production from sodium borohydride dehydrogenation in methanol
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INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.3, pp.4048-4067, 2021 (SCI-Expanded)
- LXXIII. Versatile poly(maltose) micro/nanoparticles with tunable surface functionality as a biomaterial
Kurt S. B., Ayyala R. S., ŞAHİNER N.
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- LXXIV. Catalytic performance of boron-containing magnetic metal nanoparticles in methylene blue degradation reaction and mixture with other pollutants
Meydan E., Demirci Ş., Aktaş N., Şahiner N., Öztürk Ö. F.
Inorganic Chemistry Communications, vol.126, pp.1-9, 2021 (SCI-Expanded)
- LXXV. Chitosan based fibers embedding carbon dots with anti-bacterial and fluorescent properties
Kurt S. B., ŞAHİNER N.
POLYMER COMPOSITES, vol.42, no.2, pp.872-880, 2021 (SCI-Expanded)
- LXXVI. 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.
Materials Chemistry And Physics, vol.259, pp.124013, 2021 (SCI-Expanded)
- LXXVII. HA particles as resourceful cancer, steroid 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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- LXXVIII. 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)
- LXXIX. Biocompatible macro, micro and nano scale guar gum hydrogels and their protein absorption capacity
Suner S., ŞAHİNER N.
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- LXXX. An amino acid, L-Glutamic acid-based metal-organic frameworks and their antibacterial, blood compatibility, biocompatibility, and sensor properties
Can M., Demirci S., Sunol A. K., ŞAHİNER N.
MICROPOROUS AND MESOPOROUS MATERIALS, vol.309, 2020 (SCI-Expanded)
- LXXXI. Biodegradable super porous inulin cryogels as potential drug carrier
Ari B., ŞAHİNER N.
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- LXXXII. Synthesis and characterization of nitrogen-doped carbon dots as fluorescent nanoprobes 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 (SCI-Expanded)
- LXXXIII. 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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