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Education Information

Doctorate, University of Oxford, United Kingdom 2010 - 2011

Doctorate, Middle East Technical University, Turkey 2002 - 2011

Research Areas

Medicine, Pharmacology and Therapeutics, Professional Sciences, Pharmaceutical Chemistry, Metallurgical and Materials Engineering, Material science and engineering, Biomaterials, Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Cannabidiol Negatively Regulates Androgenic Signal in Prostate Cancer Cells and Fine-Tunes the Tumorigenesis by Modulating Endoplasmic Reticulum-Associated Degradation, Unfolded Protein Response, and Autophagy**
ERZURUMLU Y., ÇATAKLI D., SEZER S.
Revista Brasileira de Farmacognosia, vol.33, no.2, pp.316-325, 2023 (SCI-Expanded)
- II. **Biochemical, pharmacological, and toxicological attributes of caper (Capparis ovata) flowering buds and berries pickles**
Ozgun-Acar O., Celik-Turgut G., GÜNER H., Sezer S., ŞEN A.
FOOD SCIENCE & NUTRITION, vol.10, no.12, pp.4189-4200, 2022 (SCI-Expanded)
- III. **Metallophthalocyanines derived with phenyl sulfide by bridging triazole using click chemistry: Synthesis, Computational Study, Redox Chemistry and Catalytic Activity**
KARACA H., DELİBAŞ N., Sağlam S., Piskin H., SEZER S., HÖKELEK T., TEKER M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1236, 2021 (SCI-Expanded)
- IV. **Liposomal delivery systems for herbal extracts**
SÖĞÜT O., AYDEMİR SEZER Ü., SEZER S.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.61, 2021 (SCI-Expanded)
- V. **Zero-valent iron nanoparticles containing nanofiber scaffolds for nerve tissue engineering**
AYDEMİR SEZER Ü., Yavuz K. O., Ors G., Bay S., Aru B. A., SÖĞÜT O., Caglar T. A., BOZKURT M. R., Cagavi E. C., YANIKKAYA DEMİREL G., et al.
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.14, no.12, pp.1815-1826, 2020 (SCI-Expanded)
- VI. **Cost-effective synthesis of polyricinoleate: Investigation of coating characteristics, in vitro degradation, and antibacterial activity**
Tonta M. M., AYDEMİR SEZER Ü., Olmez H., GÜREK A. G., SEZER S.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.136, no.44, 2019 (SCI-Expanded)

- VII. **Cytotoxicity, bactericidal and hemostatic evaluation of oxidized cellulose microparticles: Structure and oxidation degree approach**
AYDEMİR SEZER Ü., Sahin I., Aru B., Olmez H., YANIKKAYA DEMİREL G., SEZER S.
CARBOHYDRATE POLYMERS, vol.219, pp.87-94, 2019 (SCI-Expanded)
- VIII. **Process optimisation, biocompatibility and anti-cancer efficacy of curcumin loaded gelatine microparticles cross-linked with dialdehyde carboxymethyl cellulose**
Kocer Z., Aru B., AYDEMİR SEZER Ü., YANIKKAYA DEMİREL G., Beker U., SEZER S.
JOURNAL OF MICROENCAPSULATION, vol.36, no.5, pp.485-499, 2019 (SCI-Expanded)
- IX. **A versatile method for the synthesis of poly(glycolic acid): high solubility and tunable molecular weights**
Sanko V., Sahin I., AYDEMİR SEZER Ü., SEZER S.
POLYMER JOURNAL, vol.51, no.7, pp.637-647, 2019 (SCI-Expanded)
- X. **Polypropylene composite hernia mesh with anti-adhesion layer composed of polycaprolactone and oxidized regenerated cellulose**
AYDEMİR SEZER Ü., Sanko V., Gulmez M., Aru B., Sayman E., Aktekin A., Aker F. V., YANIKKAYA DEMİREL G., SEZER S.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.99, pp.1141-1152, 2019 (SCI-Expanded)
- XI. **Oxidized regenerated cellulose cross-linked gelatin microparticles for rapid and biocompatible hemostasis: A versatile cross-linking agent**
SEZER U. A., KOCER Z., SAHIN I., Aru B., Demirel G. Y., SEZER S.
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- XII. **Thiochalcone substituted phthalocyanines for dye-sensitized solar cells: Relation of optical and electrochemical properties for cell performance**
Karaca H., Sisman I., Guzel E., Sezer S., Selimoglu F., Ergezen B., Karaca M., Eyupoglu V.
JOURNAL OF COORDINATION CHEMISTRY, vol.71, no.10, pp.1606-1622, 2018 (SCI-Expanded)
- XIII. **A Polypropylene-Integrated Bilayer Composite Mesh with Bactericidal and Antiadhesive Efficiency for Hernia Operations**
Aydemir Sezer U., SANKO V., GULMEZ M., SAYMAN E., Aru B., Yuksekdog Z. N., AKTEKIN A., VARDAR AKER F., Sezer S.
ACS Biomaterials Science and Engineering, vol.3, no.12, pp.3662-3674, 2017 (SCI-Expanded)
- XIV. **Zero valent zinc nanoparticles promote neuroglial cell proliferation: A biodegradable and conductive filler candidate for nerve regeneration**
Sezer U. A., Ozturk K., Aru B., Demirel G. Y., Sezer S., Bozkurt M. R.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.28, no.1, 2017 (SCI-Expanded)
- XV. **Carboxymethyl cellulose/oxidized regenerated cellulose hydrogels as adhesion barriers: comparative study with different molecular weights and substitution degrees**
AKTEKIN A., SAHIN I., Aydemir Sezer U., GULMEZ M., OZKARA S., Sezer S.
Cellulose, vol.23, no.5, pp.3145-3156, 2016 (SCI-Expanded)
- XVI. **Use of oxidized regenerated cellulose as bactericidal filler for food packaging applications**
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CELLULOSE, vol.23, no.5, pp.3209-3219, 2016 (SCI-Expanded)
- XVII. **Polyacrylamide-based semi-interpenetrating networks for entrapment of laccase and their use in azo dye decolorization**
Koklukaya S. Z., Sezer S., Aksoy S., HASIRCI N.
BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, vol.63, no.5, pp.699-707, 2016 (SCI-Expanded)
- XVIII. **Synthesis characterization and metal sensing applications of novel chalcone substituted phthalocyanines**
Karaca H., Cayegil B., Sezer S.
SYNTHETIC METALS, vol.215, pp.134-141, 2016 (SCI-Expanded)

- XIX. **Combination of gelatin and tranexamic acid offers improved haemostasis and safe use on internal hemorrhage control**
Sezer U. A., Kocer Z., Aru B., Demirel G. Y., Gulmez M., Aktekin A., Ozkara S., Sezer S.
RSC ADVANCES, vol.6, no.97, pp.95189-95198, 2016 (SCI-Expanded)
- XX. **Properties of Na-Montmorillonite and Cellulose Nanocrystal Reinforced Poly(butyl acrylate-co-methyl methacrylate) Nanocomposites**
Vatansever A., Dogan H., Inan T., Sezer S., Sirkecioğlu A.
POLYMER ENGINEERING AND SCIENCE, vol.55, no.12, pp.2922-2928, 2015 (SCI-Expanded)
- XXI. **Development of Metal Ion Binded Oxidized Regenerated Cellulose Powder as Hemostatic Agent: A Comparative Study with in Vivo Performance**
Demirekin Z. B., Sezer U. A., Karatopuk D., Sezer S.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.54, no.18, pp.4906-4914, 2015 (SCI-Expanded)
- XXII. **Concise synthesis, electrochemistry and spectroelectrochemistry of phthalocyanines having triazole functionality**
Karaca H., Sezer S., Ozalp-Yaman S., TANYELİ C.
POLYHEDRON, vol.72, pp.147-156, 2014 (SCI-Expanded)
- XXIII. **Synthesis and biological evaluation of optically active conjugated gamma- and delta-lactone derivatives**
Sardan M., Sezer S., Gunel A., Akkaya M., TANYELİ C.
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.22, no.18, pp.5814-5818, 2012 (SCI-Expanded)
- XXIV. **Stereoselective synthesis of optically active cyclopenta[c]pyridines and tetrahydropyridines**
Sezer S., Gumrukcu Y., Bakirci I., Unver M. Y., TANYELİ C.
TETRAHEDRON-ASYMMETRY, vol.23, no.9, pp.662-669, 2012 (SCI-Expanded)
- XXV. **Synthesis of L-prolinol substituted novel optically active phthalocyanines**
Karaca H., Sezer S., TANYELİ C.
DYES AND PIGMENTS, vol.90, no.2, pp.100-105, 2011 (SCI-Expanded)
- XXVI. **Stereoselective synthesis of optically active dihydrofurans and dihydropyrans via a ring closing metathesis reaction**
Cayir M., Demirci S., Sezer S., TANYELİ C.
TETRAHEDRON-ASYMMETRY, vol.22, no.11, pp.1161-1168, 2011 (SCI-Expanded)
- XXVII. **Stereoselective synthesis of optically active cyclopenta[c]pyrans and cyclopenta[c]furans by the intramolecular Pauson-Khand reaction**
Sezer S., ŞAHİN E., TANYELİ C.
TETRAHEDRON-ASYMMETRY, vol.21, no.4, pp.476-485, 2010 (SCI-Expanded)
- XXVIII. **Stereoselective synthesis of spirocyclic cyclopentapyrans by the Pauson-Khand reaction on camphor tethered enynes**
Sezer S., Gumrukcu Y., ŞAHİN E., TANYELİ C.
TETRAHEDRON-ASYMMETRY, vol.19, no.23, pp.2705-2710, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Evaluation of In Vivo Adhesion Properties of New Generation Polyglactin, Oxidized Regenerated Cellulose and Chitosan-Based Meshes for Hernia Surgery**
Gulmez M., Aktekin A., Aker F., Sanko V., SEZER S.
CUREUS, vol.13, no.10, 2021 (ESCI)
- II. **A design achieved by coaxial electrospinning of polysulfone and sulfonated polysulfone as a core-shell structure to optimize mechanical strength and hemocompatibility**
AYDEMİR SEZER Ü., ARU B., DEMİREL G., SEZER S., öztürk k.
Surfaces and Interfaces, vol.10, pp.176-187, 2018 (Scopus)

Books & Book Chapters

- I. **Cellulose-based Hydrogels as Biomaterials**
AYDEMİR SEZER Ü., SEZER S., SANKO V., ŞAHİN İ., KOCER Z., ÖZTÜRK K.
in: Cellulose-based superabsorbent hydrogels, İbrahim H. Mondal, Editor, Springer International Publishing, pp.1-27, 2019
- II. **Cellulose- Based hydrogels as Biomaterials**
SEZER S., AYDEMİR SEZER Ü.
in: Cellulose-Based Superabsorbent Hydrogels, İbrahim H. Mondal , Editor, Springer Nature Publishing Group, Cham, pp.1-27, 2018
- III. **cellulose-based hydrogeks as biomaterials**
AYDEMİR SEZER Ü., SEZER S., SEZER S.
in: Cellulose-based superabsorbent hydrogels, Mondal İ. H., Editor, Springer Nature Publishing Group, Cham, pp.1-27, 2018

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