

Arş. Gör. Dr. SEMİH ÇALAMAK

Kişisel Bilgiler

İş Telefonu: [+90 312 305 4018](tel:+903123054018)

E-posta: semihcalamak@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/semihcalamak>

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-0989-6400

Yoksis Araştırmacı ID: 55229

Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp, Türkiye 2012 - 2018

Doktora, Stanford University, School Of Medicine, Radiology Department, Canary Center At Stanford For Cancer Early Detection, Amerika Birleşik Devletleri 2014 - 2015

Yüksek Lisans, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp, Türkiye 2010 - 2012

Lisans, Gazi Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Türkiye 2007 - 2010

Lisans, Gazi Üniversitesi, Fen Edebiyat Fakültesi, Biyoloji, Türkiye 2006 - 2010

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Prostat kanseri biyobelirteçlerinin tayini için nanoplazmonik platformların hassasiyetinin artırılması, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp, 2018

Yüksek Lisans, Yara örtüsü olarak ipek bazlı antibakteriyel biyonanotekstillerin üretimi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp Anabilim Dalı (Disiplinlerarası), 2012

Araştırma Alanları

Yaşam Bilimleri, Biyokimya, Biyomoleküller, Temel Bilimler

Akademik Unvanlar / Görevler

Araştırma Görevlisi Dr., Hacettepe Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2012 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. In situ silver nanoparticle synthesis on 3D-printed polylactic acid scaffolds for biomedical

applications

ÇALAMAK S., Ermis M.

JOURNAL OF MATERIALS RESEARCH, cilt.36, sa.1, ss.166-175, 2021 (SCI-Expanded)

- II. **Design of circulating microfluidic bioreactor for circulating tumor cells research and shear stress effects on breast cancer (MDA-MB-231) cell viability**
ÇALAMAK S.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, cilt.36, sa.1, ss.395-406, 2021 (SCI-Expanded)
- III. **Development of besifloxacin HCl loaded nanofibrous ocular inserts for the treatment of bacterial keratitis: In vitro, ex vivo and in vivo evaluation**
POLAT H. K., Pehlivan S. B., Ozkul C., ÇALAMAK S., Ozturk N., AYTEKİN E., FIRAT A., ULUBAYRAM K., KOCABEYOĞLU S., Irkeç M., et al.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, cilt.585, 2020 (SCI-Expanded)
- IV. **Liposome-based combination therapy for acne treatment**
EROĞLU İ., Aslan M., Yaman U., Gultekinoglu M., ÇALAMAK S., KART D., ULUBAYRAM K.
JOURNAL OF LIPOSOME RESEARCH, cilt.30, sa.3, ss.263-273, 2020 (SCI-Expanded)
- V. **A Circulating Bioreactor Reprograms Cancer Cells Toward a More Mesenchymal Niche**
Calamak S., Ermis M., Sun H., Islam S., Sikora M., Nguyen M., Hasirci V., Steinmetz L. M., Demirci U.
ADVANCED BIOSYSTEMS, cilt.4, sa.2, 2020 (SCI-Expanded)
- VI. **Polyethylenimine-mediated gold nanoparticle arrays with tunable electric field enhancement for plasmonic applications**
ÇALAMAK S., ULUBAYRAM K.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.30, sa.10, ss.10013-10023, 2019 (SCI-Expanded)
- VII. **Controlled synthesis of multi-branched gold nanodendrites by dynamic microfluidic flow system**
ÇALAMAK S., ULUBAYRAM K.
JOURNAL OF MATERIALS SCIENCE, cilt.54, sa.10, ss.7541-7552, 2019 (SCI-Expanded)
- VIII. **Gold nano-decorated aligned polyurethane nanofibers for enhancement of neurite outgrowth and elongation**
DEMİR U. S., SHAHBAZI R., ÇALAMAK S., ÖZTÜRK Ş., GÜLTEKİNOĞLU M., ULUBAYRAM K.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, cilt.106, sa.6, ss.1604-1613, 2018 (SCI-Expanded)
- IX. **Curcumin-loaded electrospun PHBV nanofibers as potential wound-dressing material**
MUTLU G., ÇALAMAK S., ULUBAYRAM K., GÜVEN E.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, cilt.43, ss.185-193, 2018 (SCI-Expanded)
- X. **Hydrogels as a New Platform to Recapitulate the Tumor Microenvironment**
Ermis M., Calamak S., Kocal G. C., Guven S., Durmus N. G., Rizvi I., Hasan T., HASIRCI N., Hasirci V., Demirci U.
HANDBOOK OF NANOMATERIALS FOR CANCER THERANOSTICS, ss.463-494, 2018 (SCI-Expanded)
- XI. **An overview of nanofiber-based antibacterial drug design**
ÇALAMAK S., SHAHBAZI R., EROĞLU İ., Gultekinoglu M., ULUBAYRAM K.
EXPERT OPINION ON DRUG DISCOVERY, cilt.12, sa.4, ss.391-406, 2017 (SCI-Expanded)
- XII. **In vivo tissue distribution and efficacy studies for cyclosporin A loaded nano-decorated subconjunctival implants**
Yavuz B., Pehlivan S., Kaffashi A., ÇALAMAK S., ULUBAYRAM K., PALASKA E., Cakmak H. B., Unlu N.
DRUG DELIVERY, cilt.23, sa.9, ss.3279-3284, 2016 (SCI-Expanded)
- XIII. **Integrating Cell Phone Imaging with Magnetic Levitation (i-LEV) for Label-Free Blood Analysis at the Point-of-Living**
Baday M., Calamak S., Durmus N. G., Davis R. W., Steinmetz L. M., Demirci U.
SMALL, cilt.12, sa.9, ss.1222-1229, 2016 (SCI-Expanded)
- XIV. **Immobilization of heparin on chitosan-grafted polyurethane films to enhance anti-adhesive and antibacterial properties**
Kara F., AKSOY E. A., ÇALAMAK S., HASIRCI N., Aksoy S.

JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, cilt.31, sa.1, ss.72-90, 2016 (SCI-Expanded)

- XV. **Preparation and in vitro/in vivo evaluation of cyclosporin A-loaded nanodecorated ocular implants for subconjunctival application**
PEHLIVAN S., Yavuz B., ÇALAMAK S., ULUBAYRAM K., KAFFASHI A., VURAL İ., Cakmak H. B., DURGUN M. E., DENKBAŞ E. B., UNLU N.
Journal of Pharmaceutical Sciences, cilt.104, sa.5, ss.1709-1720, 2015 (SCI-Expanded)
- XVI. **Bioprinted Microfluidic 3 D Cancer Microenvironments for Detection of Histone Modification and Cell Migration**
ÇALAMAK S., DEMİRTAŞ T. T., GÜVEN S., ÖZEN M. O., İNCİ F., SEKAR T., MALLICK P., PAULMURUGAN R., DEMİRCİ U.
TISSUE ENGINEERING PART A, cilt.21, ss.1-413, 2015 (SCI-Expanded)
- XVII. **Multitarget, quantitative nanoplasmonic electrical field-enhanced resonating device ((NERD)-R-2) for diagnostics**
İnci F., Filippini C., Baday M., Ozen M. O., Calamak S., Durmus N. G., Wang S., Hanhauser E., Hobbs K. S., Juillard F., et al.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, cilt.112, sa.32, 2015 (SCI-Expanded)
- XVIII. **Remote control CPAs delivery via cryonanoliposomes**
TESSIER S. N., ÇALAMAK S., ARAMPATZİDOU M., FISHER D., EISENBERG D. P.
Cryobiology, cilt.71, ss.178-179, 2015 (SCI-Expanded)
- XIX. **Ag/silk fibroin nanofibers: Effect of fibroin morphology on Ag⁺ release and antibacterial activity**
ÇALAMAK S., AKSOY E. A., Ertas N., ERDOĞDU C., SAĞIROĞLU M., ULUBAYRAM K.
EUROPEAN POLYMER JOURNAL, cilt.67, ss.99-112, 2015 (SCI-Expanded)
- XX. **Silver nanoparticle containing silk fibroin bionanotextiles**
ÇALAMAK S., AKSOY E. A., ERDOĞDU C., SAĞIROĞLU M., ULUBAYRAM K.
JOURNAL OF NANOPARTICLE RESEARCH, cilt.17, sa.2, 2015 (SCI-Expanded)
- XXI. **Nanofibers Based Antibacterial Drug Design, Delivery and Applications**
ULUBAYRAM K., ÇALAMAK S., SHAHBAZI R., Eroglu İ.
CURRENT PHARMACEUTICAL DESIGN, cilt.21, sa.15, ss.1930-1943, 2015 (SCI-Expanded)
- XXII. **Silk fibroin based antibacterial bionanotextiles as wound dressing materials**
ÇALAMAK S., Erdogdu C., Ozalp M., ULUBAYRAM K.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.43, ss.11-20, 2014 (SCI-Expanded)

Kitap & Kitap Bölümleri

- I. **Hydrogels as a New Platform to Recapitulate the Tumor Microenvironment**
Çalamak S.
Handbook of Nanomaterials for Cancer Theranostics, Jao Conde, Editör, Elsevier Science, Oxford/Amsterdam , Amsterdam, ss.463-494, 2018
- II. **Antibakteriyel Biyomalzemeler**
ÇALAMAK S., GÜLTEKİNOĞLU M., ULUBAYRAM K.
İLERİ BİYOMALZEMELER: BİYOMALZEME VE NANOMALZEME UYGULAMALARI, Filiz Kuralay, Editör, Palme, 2018

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Development of Besifloxacin HCl Loaded Insert Formulations for the Treatment of Bacterial Keratitis**
POLAT H. K., ÇALAMAK S., AYTEKİN E., PEHLİVAN S., ULUBAYRAM K., ÇALIŞ S.
8th BBBB International Conference on Pharmaceutical Sciences, Türkiye, 14 - 16 Ekim 2019
- II. **In Vitro Evaluation of Ocular Insert Formulations Containing Besifloxacin HCl**

POLAT H. K., ÇALAMAK S., AYTEKİN E., PEHLİVAN S., ULUBAYRAM K., ÇALIŞ S.

8th BBBB International Conference on Pharmaceutical Sciences, Türkiye, 14 - 16 Ekim 2019

- III. **DETECTION OF PROSTATE CANCER BIOMARKERS VIA IN-SITU GOLD NANOPARTICLE GROWTH ON LSPR SURFACES**
ÇALAMAK S., ULUBAYRAM K.
International Pharmaceutical Technology Symposium (IPTS-2018), 17 - 19 Eylül 2018
- IV. **Silk Fibroin Based Antibacterial Bionanotextiles**
ÇALAMAK S., ULUBAYRAM K.
22. International Biomedical Sciences and Technologies Symposium (BIOMED), 12 - 14 Mayıs 2017
- V. **Development of Electrospun Nanofiber-Based Implants Coated with Different Polymers for Topical Ocular Therapy**
POLAT H. K., ÇALAMAK S., AYTEKİN E., PEHLİVAN S., ULUBAYRAM K., ÇALIŞ S.
The 22nd Biomedical Science and Technology Symposium, 12 - 14 Mayıs 2017
- VI. **In vivo evaluation of cyclosporin a loaded nano-decorated subconjunctival implants**
YAVUZ B., PEHLİVAN S., KAFFASİ A., ÇALAMAK S., ULUBAYRAM K., PALASKA E., ÜNLÜ N.
22. International Biomedical Sciences and Technologies Symposium (BIOMED), 12 - 15 Mayıs 2017
- VII. **Polyelectrolyte Microstructured Scaffolds Modified with Hyaluronic Acid**
MANAP G., YAĞCI B. S., ÇALAMAK S., AKSOY E. A., ULUBAYRAM K.
22nd International Biomedical Science and Technology Symposium, 12 - 14 Mayıs 2017
- VIII. **Strontium and Zinc Decorated Polysaccharide Composite Gel Fibers**
YAĞCI B. S., MANAP G., ÇALAMAK S., AKSOY E. A., ULUBAYRAM K.
22 International Biomedical Science and Technology Symposium, 12 - 14 Mayıs 2017
- IX. **Dexamethasone Loaded Electrospun Nanofiber Based Implants for Topical Ocular Therapy**
POLAT H. K., ÇALAMAK S., AYTEKİN E., PEHLİVAN S., ULUBAYRAM K., ÇALIŞ S.
18th International Pharmaceutical Technology Symposium, 18 - 21 Eylül 2016
- X. **Monitoring drug responses of blood cells using cellphone based magnetic levitation system**
SAYLAN Y., BADAY M., SAHAN A., ÇALAMAK S., DURMUŞ N. G., İNCİ F., DAVIS R. W., STEINMETZ L., DEMİRCİ U.
Canary Summit 2016, 04 Mayıs 2016
- XI. **Micropatterned Substratesfor Cell Cycle Synchronization in MDA MB 231 Breast Carcinoma Cell Line**
ERMİŞ ŞEN M., ÇALAMAK S., CHEN P., ULUBAYRAM K., HASIRCI V. N., DEMİRCİ U.
21st International Biomedical Science and Technology Symposium, 22 - 24 Ekim 2015
- XII. **Enhancement of Neuronal Outgrowth By Gold Nanoparticles Decorated Polyurethane Nanofiber Scaffolds**
DEMİR Ü. S., SHAHBAZI R., ÇALAMAK S., ÖZTÜRK Ş., ULUBAYRAM K.
Tissue Engineering and Regenerative Medicine (TERMIS 2015), 8 - 11 Eylül 2015
- XIII. **Genomic Analysis of Flow Induced EMT in Colorectal Cancer Cells**
ÇALIBAŞI G., GÜVEN S., DURMUŞ N. G., ÇALAMAK S., CHEN P., BASKIN Y., DEMİRCİ U.
Canary Symposium, 5 - 07 Mayıs 2015
- XIV. **A rapid quantitative device for monitoring oncogenic viral load and circulating tumorcells in a multiplexed manner**
İNCİ F., İNAN H., ÖZEN M. Ö., ÇALAMAK S., DEMİRCİ U.
Canary Symposium, 5 - 07 Mayıs 2015
- XV. **Effects of Different Stimulating Factors on Axonal Elongation of PC12 Cells Seeded on Gold Nanoparticle Modified Scaffolds**
DEMİR Ü. S., SHAHBAZI R., ÇALAMAK S., ÖZTÜRK Ş., ULUBAYRAM K.
21st International Biomedical Science and Technology, 22 - 24 Ekim 2015

Desteklenen Projeler

EROĞLU İ., ULUBAYRAM K., AKSOY E. A., GÜLTEKİNOĞLU BAYRAM M., ÇALAMAK S., Yükseköğretim Kurumları Destekli

Proje, Kombine Etkili Nanolipozomların Geliştirilmesi, 2017 - 2018

Bilimsel Hakemlikler

Materials Science and Engineering C, SCI Kapsamındaki Dergi, Mart 2016

Metrikler

Yayın: 40

Atıf (WoS): 577

Atıf (Scopus): 688

H-İndeks (WoS): 14

H-İndeks (Scopus): 14