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Öğrenim Bilgisi

Doktora 2010 - 2013	North Carolina State University, Fiber Ve Polimer Bilimi, Amerika Birleşik Devletleri
Yüksek Lisans 2008 - 2010	North Carolina State University {North Carolina}, Tekstil Kimyası, Amerika Birleşik Devletleri
Lisans 1999 - 2005	Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği Bölümü, Türkiye

Yaptığı Tezler

Doktora, Unusual formation of precursors for crystallization of ultra-high performance polypropylene and poly (ethylene terephthalate) fibers by utilization of ecologically friendly horizontal isothermal bath, North Carolina State University, Fiber Ve Polimer Bilimi, 2013

Yüksek Lisans, Novel approaches to the development and characterization of antimicrobial conventional and nanostructured materials, North Carolina State University {North Carolina}, Tekstil Kimyası, 2010

Akademik Unvanlar / Görevler

Doç. Dr. 2019 - Devam Ediyor	Eskişehir Osmangazi Üniversitesi, Mühendislik-Mimarlık Fakültesi, Metalurji ve Malzeme Müh.Böl.
Dr. Öğr. Üyesi 2014 - 2019	Eskişehir Osmangazi Üniversitesi, Mühendislik-Mimarlık Fakültesi, Metalurji ve Malzeme Müh.Böl.
Araştırma Görevlisi 2015 - 2016	Harvard University, Medical School
Araştırma Görevlisi 2015 - 2016	Harvard-Mit Health Sciences And Technology

Araştırma Görevlisi
2013 - 2014

İstanbul Teknik Üniversitesi, Uçak Ve Uzay Bilimleri Fakültesi

Araştırma Görevlisi
2013 - 2014

North Carolina State University

Araştırma Görevlisi
2008 - 2013

North Carolina State University

Desteklenen Projeler

1. AVCI H., GASIMZADE N., Yükseköğretim Kurumları Destekli Proje, ÇİP ÜZERİNDE KARACİĞER KANSERİ PLATFORMUNDA İLACA BAĞLI KARACİĞER ENDOTEL HASARININ İNCELENMESİ, 2023 - Devam Ediyor
2. DOĞAN GÜZEL F., AVCI H., Diğer Uluslararası Fon Programları, Tam-Entegre ve Hızlı Bir Çip-Üstü Antibiyotik Duyarlılık Testi - Mikobakterium Tüberküloz İçin Örnek Bir Durum Analizi, 2018 - Devam Ediyor
3. Atalay E., Özalp O., Uysal O., Ghorbanpoor H., Eroğlu S., Korkmaz O. T., Avcı H., Eker Sarıboyacı A., TÜBİTAK Projesi, Plateletten Zengin Plazma, Limbal-Kaynaklı Stromal Mezenkimal Kök Hücre Ve Pro-Rejeneratif Özellikli Eksozom İle Enkapsüle Edilmiş Terapötik Biyomalzeme Uygulamasının Oküler Yüzey Kimyasal Ve Termal Yanıklı Hayvan Modellerinde Klinik Etkinliğinin Araştırılması, 2023 - 2026
4. İstanbullu Ö. B., Yasan Ö. B., Ghorbanpoor H., Demir Cevizlidere B., Avcı H., Eker Sarıboyacı A., TÜBİTAK Projesi, Hegzagonal Bor Nitrür ve Tantalum Mikropartikül Takviyesi ile 3D Yazdırılabilir Biyobozunur Malzemeler İçin Hedef Doku ile Mekanik Uyumluluğun ve X-Işınlı Tıbbi Görüntüleme Sistemleri İle Görüntülenebilme Özelliğinin İyileştirilmesi, 2024 - 2025
5. Ghorbanpoor H., Avcı H., Doğan Güzel F., Bütün Şengel S., Semerci Sevimli T., Pat S., Darcan C., Eker Sarıboyacı A., TÜBİTAK Projesi, Mikroakışkan Çip İçerisinde Nanolif: Bakteri Duvarının Giderilmesinde Mikro-Filtrasyon Platformunun Geliştirilmesi, 2023 - 2025
6. Avcı H., Uysal O., Eker Sarıboyacı A., Güneş S., Semerci Sevimli T., TÜBİTAK Projesi, Klinik Tanılamada Mikroakışkan Çip İçerisinde 3-Boyutlu Karaciğer Kitinin Geliştirilmesi, 2021 - 2025
7. Ghorbanpoor H., Avcı H., Kaya B. M., Doğan Güzel F., Semerci Sevimli T., Eker Sarıboyacı A., TÜBİTAK Projesi, Farklı Hücre Besiyeri Ortamlarında Bulunan Ph Değerlerinin Sürekli Bir Şekilde Ve Yüksek Hassasiyette Ölçümü İçin Optik Temelli Ph Sensörünün Geliştirilmesi, 2023 - 2024
8. Avcı H., Ghorbanpoor H., Doğan Güzel F., Ebrahimi A., Şengel T., Topal A. E., Özel C., Kaya M., Yükseköğretim Kurumları Destekli Proje, Mikroakışkan Yonga Üzerinde Üç Boyutlu Karaciğer Kanseri Modeli ve Hedefe Yönelik Tanılama ve İlaç Taraması Kitinin Geliştirilmesi, 2022 - 2024
9. Atalay E., Eroğlu S., Avcı H., Uysal O., Güneş S., TÜBİTAK Projesi, Oküler Yüzeyin Kimyasal Yaralanmasında Plateletten Zengin Plazma Yüklü Bioadeziv Hidrojel Üretimi; Ico-Reg Hidrojel'In Pre-Klinik Kavram Kanıt Çalışması, 2021 - 2023
10. SEMERCİ SEVİMLİ T., ÇEMREK F., SEVİMLİ M., ŞAHİNTÜRK V., AVCI H., EKER SARIBOYACI A., QOMI EKENEL E., ALTUĞ TASA B., GHORBANI A., GÜNEŞ S., et al., Yükseköğretim Kurumları Destekli Proje, Küçük Hücreli Dışı Akciğer Kanseri (KHDAK) Kökenli Kanser Kök Hücrelerinde (Stem-Like NSCLC Cells) Epitelyal Mezenkimal Geçişte Borik Asitin Etkilerinin İncelenmesi, 2020 - 2022
11. EKER SARIBOYACI A., GÜNEŞ S., TUNCER S., SEMERCİ SEVİMLİ T., AVCI H., SEVİMLİ M., QOMİ EKENEL E., UYSAL O., Yükseköğretim Kurumları Destekli Proje, Domoik Asidin İnsan Amniyotik Sıvı Kökenli Mezenkimal Kök Hücrelerin (iAS-MKH) DNA Tamir Mekanizması Üzerine Etkisinin Araştırılması, 2019 - 2022
12. Eker Sarıboyacı A., Avcı H., Uysal O., Özkurt M., TÜBİTAK Projesi, Mezenkimal Kök Hücre Yüklü Kompozit Canlı Fibrillerin Saten Dkoumasıyla Üretilen Yapı İskeletlerinde İlaç Kontrolü Salınımın Değerlendirilmesi, 2020 - 2021

13. Avcı H., Moralı U., Erol S., Yükseköğretim Kurumları Destekli Proje, Geliştirilecek Yüksek Hassasiyetteki Elektrokimyasal Sensör Sistemi ile Ülkemiz Deniz Canlılarında Domoik Asidin ve Deniz Kirliliğinin İncelenmesi, 2018 - 2021
14. Avcı H., TÜBİTAK Projesi, Geliştirilen Çevre Dostu Yöntem ile Yeni Nesil Yüksek Performanslı ve Fonksiyonel Polietilen Bazlı Fiberlerin Geliştirilmesi, 2018 - 2020
15. Nurbaş M., Avcı H., Yükseköğretim Kurumları Destekli Proje, Fonksiyonel çekirdek/kabuk nanolif esaslı biyomalzemelerin geliştirilmesi, 1998 - 2020
16. Nurbaş M., Avcı H., Ghorbanpoor H., Yükseköğretim Kurumları Destekli Proje, Geliştirilmiş Üç Boyutlu (3D) Fiber Takviyeli Çevre Dostu Biyo-Kompozit Yapıların Tasarımı, 2016 - 2018
17. AVCI H., Yükseköğretim Kurumları Destekli Proje, Çevre Dostu ve Doğal İçerikli Bileşikleri İçeren Antibakteriyel Nanofiber ve Yara İyileştirici Örtü Eldesi, 2015 - 2017
18. Nurbaş M., Avcı H., Yükseköğretim Kurumları Destekli Proje, Gelişmiş Üç Boyutlu (3B) Çevre Dostu Fiberle Güçlendirilmiş Biyo-Kompozit Yapıların Tasarımı, 2015 - 2017
19. Ghorbanpoor H., Nurbaş M., Avcı H., Yükseköğretim Kurumları Destekli Proje, Design of Advanced Three-Dimensional (3D) Eco-Friendly Fiber Reinforced Bio-Composite Structures., 2015 - 2017
20. Ghorbanpoor H., Avcı H., Yükseköğretim Kurumları Destekli Proje, Termoplastik Elastomer olan Poly styrene b ethylene co butylene b styrene nin dinamik manipulasyonla fonksiyonel elektrospun nanofiber mühendisliği, 2015 - 2016
21. BAKSAN B., AVCI H., Yükseköğretim Kurumları Destekli Proje, Termoplastik Elastomer olan Poly styrene b ethylene co butylene b styrene nin dinamik manipulasyonla fonksiyonel elektrospun nanofiber mühendisliği, 2015 - 2016
22. Diğer Uluslararası Fon Programları, Novel Melt Spun Melt Ordered Process for Producing High Performance Polyester Fibers, 2010 - 2013

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. **Molecular Separation by Using Active and Passive Microfluidic chip Designs: A Comprehensive Review**
Ebrahimi A., İÇÖZ K., Didarian R., Shih C., Tarim E. A., Nasseri B., AKPEK A., Cecen B., Bal-Ozturk A., Güleç K., et al. *Advanced Materials Interfaces*, cilt.11, sa.2, 2024 (SCI-Expanded)
2. **High-throughput microfluidic chip with silica gel-C18 channels for cyclotide separation**
Ebrahimi A., Didarian R., GHORBANPOOR H., DOĞAN GÜZEL F., Hashempour H., AVCI H. *Analytical and Bioanalytical Chemistry*, cilt.415, sa.27, ss.6873-6883, 2023 (SCI-Expanded)
3. **CLINICAL-GRADE HUMAN SYNOVIAL FLUID-DERIVED MESENCHYMAL STEM CELLS FOR DEGENERATIVE MENISCUS THERAPY**
Uysal O., Avcı H., Bagis S. G., Semerci Sevimli T., Ozel C., Cevizlidere B., Soykan M. N., Kara S. G., Ekenel E. Q., Tasa B. A., et al. *CYTOTHERAPY*, sa.6, 2023 (SCI-Expanded)
4. **Simple and low-cost antibiotic susceptibility testing for Mycobacterium tuberculosis using screen-printed electrodes**
GHORBANPOOR H., AKÇAKOCA İ., Norouz Dizaji A., Butterworth A., Corrigan D., Kocagoz T., Ebrahimi A., AVCI H., DOĞAN GÜZEL F. *Biotechnology and Applied Biochemistry*, cilt.70, sa.3, ss.1397-1406, 2023 (SCI-Expanded)
5. **Revealing the single-channel characteristics of OprD (OccAB1) porins from hospital strains of Acinetobacter baumannii**
Ebrahimi A., Ergün T., KAYGUSUZ İZGÖRDÜ Ö., DARCAN C., AVCI H., Öztürk B., GÜNER H. R., GHORBANPOOR H., DOĞAN GÜZEL F. *European Biophysics Journal*, cilt.52, sa.3, ss.131-143, 2023 (SCI-Expanded)
6. **A multifunctional sateen woven dressings for treatment of skin injuries**
Ozel C., Apaydin E., EKER SARIBOYACI A., Tamayol A., AVCI H. *Colloids and Surfaces B: Biointerfaces*, cilt.224, 2023 (SCI-Expanded)

7. **On chip microfluidic separation of cyclotides**
Didarian R., EBRAHIMI A., GHORBANPOOR H., Bagheroghli H., GÜZEL F. D., faradpour m., Lotfibakhshaiesh N., Hashempour H., AVCI H.
Turkish Journal of Chemistry, cilt.47, sa.1, ss.253-262, 2023 (SCI-Expanded)
8. **Improvement of polyethylene fiber wettability and mechanical properties through an environmentally sustainable spinning process**
Seyhan A., Gunaydin B. N., Polat Y., Kılıç A., Demir A., AVCI H.
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9. **Immunomodulating Hydrogels as Stealth Platform for Drug Delivery Applications**
Rezaei Z., Yilmaz-Aykut D., Tourk F. M., Bassous N., Barroso-Zuppa M., Shawl A. I., Ashraf S. S., AVCI H., Hassan S. Pharmaceuticals, cilt.14, sa.10, 2022 (SCI-Expanded)
10. **Developing an in-Line method to improve mechanical and flame retardancy performance of polyethylene fiber**
Gunaydin B., Seyhan A., Polat Y., Kilic A., Demir A., Ureyen M. E., Avci H.
JOURNAL OF INDUSTRIAL TEXTILES, cilt.52, sa.1, ss.1-15, 2022 (SCI-Expanded)
11. **A fully integrated rapid on-chip antibiotic susceptibility test-A case study for Mycobacterium smegmatis**
Ghorbanpoor H., Dizaji A. N., Akçakoca İ., Blair E. O., Ozturk Y., Hoskisson P., Kocagoz T., Avci H., Corrigan D. K., Doğan Güzel F.
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12. **An electrochemical biosensor with integrated microheater to improve the sensitivity of electrochemical nucleic acid biosensors**
AKÇAKOCA İ., GHORBANPOOR H., Blair E., Ozturk Y., Dizaji A. N., Kocagoz T., AVCI H., Corrigan D., DOĞAN GÜZEL F.
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13. **Investigation of electrochemical behavior of potassium ferricyanide/ferrocyanide redox probes on screen printed carbon electrode through cyclic voltammetry and electrochemical impedance spectroscopy**
Koç Y., Morali U., Erol S., Avci H.
Turkish Journal Of Chemistry, cilt.45, sa.6, ss.1895-1915, 2021 (SCI-Expanded)
14. **Label-free molecular detection of antibiotic susceptibility for Mycobacterium smegmatis using a low cost electrode format**
Guzel F. D., Ghorbanpoor H., Dizaji A. N., Akçakoca İ., Ozturk Y., Kocagoz T., Corrigan D. K., Avci H.
BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, cilt.68, sa.6, ss.1159-1166, 2021 (SCI-Expanded)
15. **Electrochemical-based “antibiotsensor” for the whole-cell detection of the vancomycin-susceptible bacteria**
Norouz Dizaji A., Ali Z., Ghorbanpoor H., Ozturk Y., Akçakoca İ., Avci H., Doğan Güzel F.
Talanta, cilt.234, 2021 (SCI-Expanded)
16. **Determination of therapeutic agents efficiencies of microsatellite instability high colon cancer cells in post-metastatic liver biochip modeling**
Bayir Garbioglu D., DEMİR N., Ozel C., AVCI H., DİNCER M.
FASEB Journal, cilt.35, sa.9, 2021 (SCI-Expanded)
17. **Current strategies for the regeneration of skeletal muscle tissue**
Alarçin E., Bal-Öztürk A., Avci H., Ghorbanpoor H., Guzel F. D., Akpek A., Yesiltas G., Canak-İpek T., Avci-Adali M.
International Journal of Molecular Sciences, cilt.22, sa.11, 2021 (SCI-Expanded)
18. **Electrochemical Investigation of Gold Based Screen Printed Electrodes: An Application for a Seafood Toxin Detection**
Koc Y., Morali U., Erol S., Avci H.
Electroanalysis, cilt.33, sa.4, ss.1033-1048, 2021 (SCI-Expanded)
19. **Tissue adhesives: From research to clinical translation**
Bal-Ozturk A., Cecen B., Avci-Adali M., Topkaya S. N., ALARÇIN E., YAŞAYAN G., Li Y. E., Bulkurcuoglu B., Akpek A., AVCI H., et al.

Nano Today, cilt.36, 2021 (SCI-Expanded)

20. **On-chip label-free impedance-based detection of antibiotic permeation**
Kaur J., Ghorbanpoor H., Öztürk Y., Kaygusuz Ö., Avcı H., Darcan C., Trabzon L., Güzel F. D.
IET Nanobiotechnology, cilt.15, sa.1, ss.100-106, 2021 (SCI-Expanded)
21. **Investigation of the Effect of Channel Structure and Flow Rate on On-Chip Bacterial Lysis**
Dizaji A. N., Ozturk Y., Ghorbanpoor H., Cetak A., AKÇAKOCA İ., Kocagoz T., AVCI H., Corrigan D., Guzel F. D.
IEEE Transactions on Nanobioscience, cilt.20, sa.1, ss.86-91, 2021 (SCI-Expanded)
22. **Self-assembled fibrillar polyethylene crystals with tunable properties**
Seyhan A., Gunaydin B. N., POLAT Y., Kılıç A., Demir A., AVCI H.
POLYMER ENGINEERING AND SCIENCE, cilt.60, sa.9, ss.2176-2189, 2020 (SCI-Expanded)
23. **Recent Advances in 4D Bioprinting**
AKPEK A., BAL ÖZTÜRK A., ALARÇİN E., AVCI H., avci adali m.
Research Journal of Biomedical and Biotechnology, cilt.1, sa.1, ss.20-23, 2020 (SCI-Expanded)
24. **Flexible poly(styrene-ethylene-butadiene-styrene) hybrid nanofibers for bioengineering and water filtration applications**
Avcı H., Akkulak E., Gergeroglu H., Ghorbanpoor H., Uysal O., Eker Sarıboyacı A., Demir B., Soykan M. N., Pat S., Mohammadigharehbagh R., et al.
Journal of Applied Polymer Science, cilt.137, sa.26, 2020 (SCI-Expanded)
25. **Decellularized inner body membranes for tissue engineering: a review**
Inci I., Norouz Dizaji A., Ozel C., MORALI U., Dogan Guzel F., Avcı H.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, cilt.31, sa.10, ss.1287-1368, 2020 (SCI-Expanded)
26. **Customizable Composite Fibers for Engineering Skeletal Muscle Models**
Fallahi A., Yazdi I. K., Serex L., Leshi E., Faramarzi N., Tarlan F., Avcı H., Costa-Almeida R., Sharifi F., Rinoldi C., et al.
ACS BIOMATERIALS SCIENCE & ENGINEERING, cilt.6, sa.2, ss.1112-1123, 2020 (SCI-Expanded)
27. **Synergistic effects of plant extracts and polymers on structural and antibacterial properties for wound healing**
AVCI H., Gergeroglu H.
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28. **Preparation of origanum minutiflorum oil-loaded core-shell structured chitosan nanofibers with tunable properties**
Avcı H., Ghorbanpoor H., Nurbaş M.
Polymer Bulletin, cilt.75, sa.9, ss.4129-4144, 2018 (SCI-Expanded)
29. **Reversible Redox Activity by Ion-pH Dually Modulated Duplex Formation of i-Motif DNA with Complementary G-DNA**
Chang S., Kilic T., Lee C. K., AVCI H., Bae H., Oskui S. M., Jung S. M., Shin S. R., Kim S. J.
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30. **Cell-laden composite suture threads for repairing damaged tendons**
Costa-Almeida R., Domingues R. M. A., Fallahi A., Avcı H., Yazdi I. K., Akbari M., Reis R. L., Tamayol A., Gomes M. E., Khademhosseini A.
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31. **Fabrication of Nanopores in an Ultra-Thin Polyimide Membrane for Biomolecule Sensing**
Guzel F. D., Avcı H.
IEEE SENSORS JOURNAL, cilt.18, sa.7, ss.2641-2646, 2018 (SCI-Expanded)
32. **Rapid prototyping of whole-thermoplastic microfluidics with built-in microvalves using laser ablation and thermal fusion bonding**
Shaegh S. A. M., Pourmand A., Nabavina M., Avcı H., Tamayol A., Mostafalu P., Ghavifekr H. B., Aghdam E. N., Dokmeci M. R., Khademhosseini A., et al.
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33. **Recent advances in organ-on-a-chip technologies and future challenges: a review**
AVCI H., Dogan Guzel F., EROL S., Akpek A.

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34. **A Review of Cellulose and Cellulose Blends for Preparation of Bio-derived and Conventional Membranes, Nanostructured Thin Films, and Composites**
Douglass E. F., AVCI H., Boy R., Rojas O. J., Kotek R.
POLYMER REVIEWS, cilt.58, sa.1, ss.102-163, 2018 (SCI-Expanded)
35. **An eco-friendly approach to synthesis and characterization of magnetite (Fe₃O₄) nanoparticles using *Platanus Orientalis L.* leaf extract**
Nurbas M., Ghorbanpoor H., Avci H.
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36. **Label-Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes**
Shin S. R., Kilic T., Zhang Y. S., Avci H., Hu N., Kim D., Branco C., Aleman J., Massa S., Silvestri A., et al.
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37. **Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors**
Zhang Y. S., Aleman J., Shin S. R., Kilic T., Kim D., Shaegh S. A. M., Massa S., Riahi R., Chae S., Hu N., et al.
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38. **Development of High-Tenacity, High-Modulus Poly(ethylene terephthalate) Filaments via a Next Generation Wet-Melt-Spinning Process**
Yoon J. H., AVCI H., Najafi M., Nasri L., Hudson S. M., Kotek R.
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39. **Investigation and recycling of paint sludge with cement and lime for producing lightweight construction mortar**
Avci H., Ghorbanpoor H., Topçu İ. B., Nurbaş M.
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40. **Aptamer-Based Microfluidic Electrochemical Biosensor for Monitoring Cell-Secreted Trace Cardiac Biomarkers**
Shin S. R., Zhang Y. S., Kim D., Manbohi A., Avci H., Silvestri A., Aleman J., Hu N., Kilic T., Keung W., et al.
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41. **Photophysical properties of phosphorescent elastomeric composite nanofibers**
ÇALIŞIR M. D., Erol M., Kılıç A., AVCI H.
DYES AND PIGMENTS, cilt.125, ss.95-99, 2016 (SCI-Expanded)
42. **Highly crystalline and oriented high-strength poly(ethylene terephthalate) fibers by using low molecular weight polymer**
Avci H., Najafi M., Kılıç A., Kotek R.
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.132, sa.45, 2015 (SCI-Expanded)
43. **High-performance filaments by melt spinning low viscosity nylon 6 using horizontal isothermal bath process**
Najafi M., AVCI H., Kotek R.
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44. **Controlling of Threadline Dynamics via a Novel Method to Develop Ultra-High Performance Polypropylene Filaments**
Avci H., Kotek R., Toliver B.
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45. **Characterization and Development of a New Method for Determination Charge Density of 3-(Trimethoxysilyl)-propyldimethyloctadecyl Ammonium Chloride Coatings on Polyester Surfaces**
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46. **Characterization of Degradation of Polypropylene Nonwovens Irradiated by gamma-Ray**
Keene B., Bourham M., Viswanath V., Avci H., Kotek R.

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47. **Developing an ecologically friendly isothermal bath to obtain a new class high-tenacity and high-modulus polypropylene fibers**
Avci H., Kotek R., Yoon J.
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48. **Preparation of antibacterial PVA and PEO nanofibers containing Lawsonia Inermis (henna) leaf extracts**
Avci H., Monticello R., Kotek R.
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49. **Properties of Antibacterial Polypropylene/Nanometal Composite Fibers**
Gawish S. M., Avci H., Ramadan A. M., Mosleh S., Monticello R., Breidt F., Kotek R.
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Diğer Dergilerde Yayınlanan Makaleler

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Koc Y., Avci H.
Journal of Engineering and Architecture Faculty of Eskisehir Osmangazi University, cilt.30, sa.3, ss.389-396, 2022 (Hakemli Dergi)
2. **The Smallest Workers in Regenerative Medicine: Stem Cell-Derived Exosomes**
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Verdiği Dersler

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Metrikler

Yayın: 168

Atıf (WoS): 702

Atıf (Scopus): 745

H-İndeks (WoS): 13

H-İndeks (Scopus): 14

Arařtırma Alanları

Malzeme Bilimi ve Mühendisliđi

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