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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Bioengineering, Turkey 2021 - Continues

Postgraduate, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, Biomedical Engineering, Turkey 2018 - 2021

Undergraduate, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği , Turkey 2013 - 2018

Dissertations

Postgraduate, Non-Convex Anisotropic Total Variation Regularized 3D Digital Breast Tomosynthesis Imaging, Istanbul Technical University, Fen Bilimleri Enstitüsü, Biomedical Engineering, 2021

Research Areas

Health Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Biomedical Engineering, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Practical SERS substrates by spray coating of silver solutions for deep learning-assisted sensitive antigen identification**
Sahin F., Demirel Şahin G., Camdal A., Akmayan İ., Ozbek T., Acar S., Onses M. S.
COLLOIDS AND SURFACES A: PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.135828, no.135828, pp.927-7757, 2025 (SCI-Expanded)
- Antimicrobial, anti-biofouling, antioxidant, and biocompatible fabrics with high durability via green growth of trimetallic nanoparticles**
Demirel Şahin G., Sahin F., Barlas F. B., Önses M. S., Acar S.
MATERIALS TODAY COMMUNICATIONS, vol.41, no.110807, pp.2352-4928, 2024 (SCI-Expanded)

- III. **Resolution aware nonconvex quasinorm iterative digital breast tomosynthesis imaging**
DEMİREL ŞAHİN G., Ertas M., Yıldırım İ.
Biomedical Signal Processing and Control, vol.85, 2023 (SCI-Expanded)
- IV. **Disintegration and Machine-Learning-Assisted Identification of Bacteria on Antimicrobial and Plasmonic Ag-CuxO Nanostructures**
Sahin F., Camdal A., Demirel Sahin G., Ceylan A., Ruzi M., Onses M. S.
ACS Applied Materials and Interfaces, vol.15, no.9, pp.11563-11574, 2023 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Highly durable antibacterial surface through in- situ grown copper nanoparticles for biomedical applications**
Sahin F., Demirel Sahin G., Ceylan A., Önses M. S.
2022 Medical Technologies Congress (TIPTEKNO), Antalya, Turkey, 31 October - 02 November 2022, pp.73-76
- II. **Directional Total Variation Regularized Breast Tomosynthesis Image Reconstruction**
Demirel Sahin G., Sahin F., Ertas M., Yıldırım İ.
2022 Medical Technologies Congress (TIPTEKNO), Antalya, Turkey, 31 October - 02 November 2022, pp.145-148
- III. **P Norm Regularized Breast Tomosynthesis Image Reconstruction**
Demirel G., Yıldırım İ., Ertas M.
2021 Medical Technologies Congress, TIPTEKNO 2021, Antalya, Turkey, 4 - 06 November 2021
- IV. **EXAMINING THE DEVELOPMENT OF GRAY AND WHITE MATTER IN BRAIN ACCORDING TO AGE**
İçer S., Demirel G., Uysal N.
II. INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS (BILMES 2018), Nevşehir, Turkey, 5 - 07 July 2018, pp.730-734

Supported Projects

Demirel Şahin G., Derman S., Önses M. S., Şahin F., Emergency R&D Project of Group A, Yara Örtüsü Olarak Işık Geçirgen ve Antimikrobiyal Nitelikte Geçici Dövmelerin Geliştirilmesi, 2024 - 2025

Demirel Şahin G., Derman S., Önses M. S., Şahin F., TÜBİTAK Project, Makine Öğrenmesi Destekli Yüzeyde Zenginleştirilmiş Raman Saçılması ile Tiroid Kanseri Tanısına Yeni Bir Yaklaşım, 2024 - 2025

Metrics

Publication: 8

Citation (Scopus): 15

H-Index (Scopus): 1