

PERSONAL DATA

Name and Surname : Gözde KABAY
Date of Birth : 23.08.1989
Place of Birth : İZMİR/TURKEY
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EDUCATION

- PhD. Biomedical Engineering, TOBB University of Economics and Technology, Ankara, 2015-.....

(Fully Scholarship)

- BSc. Physics, Physics Department, Yıldız Technical University, Istanbul, 2016.

(Dissertation Title: Study of Used Particles and Ions for Hadron Therapy Interaction with Tissue via Simulation.)

- MSc. Biomedical Engineering, TOBB University of Economics and Technology, Ankara, 2015.

(Fully Scholarship)

(Dissertation Title: Production of Amyloid-like Biocatalytic Membranes)

- BSc. Education of Physics, Faculty of Education, Dokuz Eylul University, Izmir, 2013.

RESEARCH INTERESTS

- Drug Release
- Biomaterial Production
- Electrospinning Technology

- Biosensors
- Plasma Modification of Biomaterials and Their Applications
- Protein Engineering

LANGUAGE

English

CONFERENCES AND CERTIFICATES

- International English Language Testing System (IELTS). (Overall Score-6)
- Graduate Record Examination (GRE). (Quantitative Task: 152/170)
- COST Action MP1206- 3rd International Training School on Electrospinning of Nanofibers and Their Characterization: Hands-on Experience, 1-3 June 2016, UNAM-Institute of Materials Science and Nanotechnology, Bilkent University, Ankara, Türkiye.

SCI INDEXED PUBLICATIONS

1. G Kaleli Can, P Komurcu, HF Özgüzar, **G Kabay**, M Mutlu. Simultaneous Insulation and Modification of Quartz Tuning Fork Surface by Single-step Plasma Polymerization Technique with Amine Rich Precursors. *MRS Communications*. (Under Review)
2. **G Kabay**, C Demirci, G Kaleli-Can, AE Meydan, B Günaydın-Dasan, M Mutlu (2018), Kabay, A comparative study of single-needle and coaxial electrospun amyloid-like protein nanofibers to investigate hydrophilic drug release behavior. *International Journal Of Biological Macromolecules*. (In Press)
3. **G Kabay**, AE Meydan, G Kaleli-Can, C Demirci, M Mutlu (2017), Controlled release of a hydrophilic drug from electrospun amyloid-like protein blend nanofibers. *Materials Science and Engineering: C*, **81**, 271-279.
4. **G Kabay**, G Kaleli-Can, M Mutlu (2017), Amyloid-like protein nanofibrous membranes as a sensing layer infrastructure for the design of mass-sensitive biosensors. *Biosensors and Bioelectronics*, **97**, 285-291.
5. **G Kabay**, G Kaleli, Z Sultanova, TT Ölmez, UÖŞ Şeker, M Mutlu (2016), Biocatalytic Protein Nanofibers Produced by Electrospinning, *Reactive and Functional Polymers*, **103**, 26-32.
6. Z Sultanova, G Kaleli, **G Kabay**, M Mutlu (2016), Controlled Release of a Hydrophilic Drug from Coaxially Electrospun Polycaprolactone Nanofibers. *International J of Pharmaceutics*, **505 (1-2)**, 133-138.
7. K Yurumezoglu, H Isik, G Arikan, **G Kabay**, (2015), Teaching the absorption of light colours using an artificial rainbow. *Physics Education* **50 (4)**, 402.

NATIONAL PUBLICATIONS

1. N Kavcar, **G Kabay**, G Arıkan (2016), Ortaöğretim Fizik 12 Ders Kitabının Öğretmen Adayları Raporlarıyla Değerlendirilmesi. *Buca Eğitim Fakültesi Dergisi*, (38) 112-133.

ORAL PRESENTATIONS

1. P Komurcu, G Kaleli Can, HF Özgüzar, **G Kabay**, M Mutlu. (2017), Simultaneous Insulation and Modification of Quartz Tuning Fork Surface by Single Step Plasma Polymerization Technique with Amine Rich Precursors, A Meeting of the Materials Research Society (MRS), Boston, USA.
2. **G Kabay**, G Kaleli, M Mutlu. (2016) Amyloid-Like Protein Membrane: A Natural Biosensing Platform (2016), Science and Applications of Thin Films, Conference & Exhibition (SATF 2016), Izmir Institute of Technology, Izmir, Turkey.
3. **G Kabay**, G Kaleli, Z Sultanova, UOS Seker, M Mutlu. (2015), Performance of Enzyme Immobilization Methods on Bio-inspired Albumin Scaffolds. *Nanofibers and Related Applications (NART)*, Prague, Czech Republic.
4. **G Kabay**, G Kaleli, Z Sultanova, UOS Seker, M Mutlu. (2015), Preparation of Enzyme-carrying Living Membranes Produced by Electrospinning for Biosensor Applications. *2nd International Congress on Biosensors*, Gediz University, İzmir, Turkey.
5. Z Sultanova, **G Kabay**, G Kaleli, M Mutlu. (2015), Coaxial electrospun PCL/PVA-chitosan nanofibers: A novel non-viral gene delivery scaffold. *International Conference on Plasma Science (ICOPS)*, (pp. 1-1), Antalya, Turkey.
6. **G Kabay**, G Kaleli, O Dincel, M Mutlu. (2014), Physical Modification of Polycarbonate Nanorod Arrays by Low-Pressure Low-Frequency Oxygen Plasma, *FP7-KORANET Course on Novel Approaches in Non-Thermal Processing of Materials*, TOBB University of Economics and Technology, Ankara, Turkey.
7. S Altuntas., **G Kabay**, F Büyükserin, M Mutlu. (2014), Investigation of Low-Pressure Low-Frequency Oxygen Plasma on Chemical/Physical Properties of Polycarbonate Nanorod Arrays, 1st International Middle East Plasma Science (IMEPS) Conference, Antalya, Turkey.

POSTER PRESENTATIONS

1. M Mutlu, S Altuntas, **G Kabay**, G Kaleli, Ö Dincel, F Buyukserin. (2014). Oxygen Plasma Etched Polycarbonate Nanorod Arrays for Surface-Enhanced Raman Scattering (SERS) Applications, *CMST COST TD1102: (PHOTOTECH)*, İstanbul, Turkey.
2. M Mutlu, G Kaleli, **G Kabay**, Z Sultanova, Ö Dincel BS Shim. (2014). Plasma-Assisted Approach for Developing Janus Nanofibers that Improve Cell Proliferation and Extracellular Matrix Production. *Science and Applications of Thin Films (SATF 2014), Conference & Exhibition*, İzmir, Turkey.

PROJECTS WRITTEN & INVOLVED

FP7-KONNECT Joint project on Resources and Sustainability. "Nanocellulose Reinforced Composites for Advanced Earthquake-proof Construction Technology" (nCEL-CONTECH). (2016-2018).

(Working as a research fellow in the project, responsible for preparing materials by electrospinning method and reinforcing them by adding nanoparticles for construction technology.)

TUBITAK 1002. "Production of Amyloid Based Biocatalytic Membrane by Electrospinning". (2016).

(Worked as a research fellow on the whole project, responsible for producing amyloid protein solutions and biocatalytic protein membranes by electrospinning. Also, amperometric measurements were carried out to find retained activity of produced membranes.)

FP7-KORANET Project on Environmental and Biomedical Applications of Microplasmas Produced by Gliding Arc Discharges (ENV-BIO-GA). "Novel Approaches in Non-Thermal Processing of Materials", TOBB University of Economics and Technology, (2014).

(Worked as a local organising committee member)

REFERENCES

Prof. Dr. Mehmet MUTLU (Supervisor)

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Department of Biomedical Engineering,

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