Curriculum Vitae

PERSONAL DATA

Name and Surname: Gizem KALELİ CAN

Date of Birth: 1988

Place of Birth: Ankara, TURKEY

Nationality: Republic of Turkey

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EDUCATION

B.Sc. in Chemistry, Abant İzzet Baysal University, Bolu, 2011

B.Sc. in Chemistry, Eötvös Lorand University, Hungary, 2009 (ERASMUS)

M.Sc. in Chemistry, Abant İzzet Baysal University, Bolu, 2013

Ph.D. in Biomedical Engineering, TOBB University of Economics and Technology, 2018

THESIS

Ph.D. Thesis: Kaleli Can G., 2018, "Development of QTF-based Mass Sensitive Immunosensor for Phenylketonuria Diagnosis", Mehmet Mutlu (Advisor). TOBB University of Economics and Technology- Division of Biomedical Engineering, Ankara, Turkey.

Master Thesis: Kaleli G., 2013, "Determination of the levels of polycyclic aromatic hydrocarbons and the biomarker enzyme activities in striped red mullet (Mullus surmuletus) caught from the West

Black Sea Region of Turkey", Azra Bozcaarmutlu (Advisor), Abant İzzet Baysal University, Division of Chemistry, Bolu, Turkey.

CAREER

2014-.. Research Asistant in Biomedical Engineering Department, Engineering Faculty, TOBB University of Economics and Technology, Ankara, Turkey

July 2017- Researcher in Pulse Plasma Systems Department, Institute of Plasma Physics (IPP), Prague, Czech Republic

February-March 2017- Researcher in Inha University, Chemical Engineering Department, Soft Matter Lab, Incheon, Korea

2010-2013- Researcher in Abant İzzet Baysal University, Chemistry Department, Biochemistry Lab, Bolu, Turkey

AWARDS AND FELLOWSHİP

Full Scholarship in TOBB Economics and Technology University (2014-2018)

Erasmus Scholarship (2009)

İzzet Baysal Foundation Scholarship (2006-2011)

PUBLICATIONS

Papers published in SCI & SSCI & Arts and Humanities

1. Kaleli Can, G., Ozlü, B., Özgüzar, H. F., Kabay, G., Onal Ulusoy, B., Eom, T., Shim, B. S., Mutlu, M. (2018). Electrochemical detection of chromium (VI) based on melanin nanospheres decorated screen-printed carbon electrode. *Biosensors and Bioelectronics*. (Submitted)

2. Kaleli Can G., Özgüzar H. F., Kabay G., Mutlu M., (2018). Stability Enhancement of Amine-rich Thin Films by Plasma Polymerized n(hexane) Pre-coating. *Plasma Process and Polymer*. (Submitted)
3. Kaleli Can, G., Kömürcü, P., Özgüzar, H. F., Kabay, G., Mutlu, M. (2018). Simultaneous Insulation and Modification of Quartz Tuning Fork Surface by Single-step Plasma Polymerization Technique with Amine Rich Precursors. *MRS Communications.https://doi.org/10.1557/mrc.2018.79*
4. Kabay, G., Demirci, C., Kaleli Can, G., Meydan, A. E., Daşan, B. G., & Mutlu, M. (2018). A comparative study of single-needle and coaxial electrospun amyloid-like protein nanofibers to investigate hydrophilic drug release behavior. *International journal of biological macromolecules*, 114:989-997
5. Kabay, G., Can, G. K., & Mutlu, M. (2017). Amyloid-like protein nanofibrous membranes as a sensing layer infrastructure for the design of mass-sensitive biosensors. *Biosensors and Bioelectronics*, *97*, 285-291.
6. Kabay, G., Meydan, A. E., Can, G. K., Demirci, C., & Mutlu, M. (2017). Controlled release of a hydrophilic drug from electrospun amyloid-like protein blend nanofibers. *Materials Science and Engineering: C*, *81*, 271-279.
7. Sultanova, Z., Kaleli, G., Kabay, G., & Mutlu, M. (2016). Controlled release of a hydrophilic drug from coaxially electrospun polycaprolactone nanofibers. *International journal of pharmaceutics*, *505*(1-2), 133-138.
8. Kabay, G., Kaleli, G., Sultanova, Z., Ölmez, T. T., Şeker, U. Ö. Ş., & Mutlu, M. (2016). Biocatalytic protein membranes fabricated by electrospinning. *Reactive and Functional Polymers*, *103*, 26-32.
9. Bozcaarmutlu, A., Sapmaz, C., Kaleli, G., Turna, S., & Yenisoy-Karakaş, S. (2015). Combined use of PAH levels and EROD activities in the determination of PAH pollution in flathead mullet (Mugil cephalus) caught from the West Black Sea coast of Turkey. *Environmental Science and Pollution Research*, *22*(4), 2515-2525.

Other Publications

1. Hortaç, E., Kaleli, G., Çökeliler, D., Yavuzdemir, Ş., Mutlu, M., Ekici, M. D., Göçmen J.S, (2016) GSBL Pozitif Üropatojen Escherichia coli İzolatlarının Plazma Polimerizasyon Tekniği ve Nanomalzemeler ile Modifiye Edilmiş (Mikroplak) Yüzeylerde Biyofilm Oluşumunun İncelenmesi: Deneysel Model. *Türk Mikrobiyol Cem Der* 45(4):181-187.
2. Göçmen, J.S., İştar Hortaç, E., Çökeliler, D., Mutlu, M., Kaleli Can, G., Alparslan, S., Çetin, C., Kartal,N., Özçelik, U.C., Aycan, Ç, (2017) Kan ve El Kültüründen İzole Edilen Koagülaz-Negatif Stafilokok İzolatlarının Biyofilm Oluşumunun Plazma Polimerizasyon Tekniği ile Kaplanmış Mikroplaklarda İncelenmesi: Deneysel Model. *FLORA* 22(4):166-174

Oral or poster presentations presented in international meetings

1. 2017 MRS Fall Meeting, "The Development of QTF-Based Mass Sensitive Immunosensor for Phenylketonuria Diagnosis" (26 November-1 December 2017) (Poster Presentation)
2. 22nd International Biomedical Science & Technology Symposium (BIOMED 2017), "The Development of QTF-based mass sensitive immunosensor for Phenylketonuria diagnosis" (12-14 May 2017) (Oral Presentation)
3. 2017: KONNECT-KICK OFF METING: Resources and Sustainability, Nanocellulose Reinforced Composited for Advanced Earthquake-proof Construction Technology (Ncel-CONST) (January 31-February 3), "The development of QTF-based mass sensitive immunosensor for phenylketonuria diagnosis" (Oral Presentation)
4. FP7-KORANET Summer School on Novel Approaches in Non-Thermal Processing of Materials, Local Organizing Committee, (June 23-27,2014) TOBB University of Economics and Technology.
5. 2nd International Biosensor Congress, "Plasma Assisted Nanofiber Enriched Mass Sensitive Immunosensor for the Detection of Cardiac Marker Troponin T" (June 10-12,2015) (Oral Presentation)
6. FP7-KORANET Summer School on Novel Approaches in Non-Thermal Processing of Materials, Local Organizing Committee, (June 23-27,2014) TOBB University of Economics and Technology.
7. International Middle East Plasma Science (IMEPS) "Generation of amphoteric surfaces via glow-discharge technique with single precursor on Polycarbonate Nanorod Arrays for Biomedical Applications" (April 23-25, 2014), (Oral Presentation)
8. 6th International Workshop on Biomonitoring of Atmospheric Pollution (BIOMAP) "Determination of PAH residues in striped red mullet (*Mullus surmuletus*) from the West Black Sea Coast of Turkey" (October 15-19, 2012), (Poster Presentation)
9. 2. Ulusal Öğrenci Kongresi 'Zonguldak Limanı'ndan yakalanan has kefal balığı (mugil cephalus) karaciğer dokusunda antrasen, piren, krisen, benzo(a)antrasen ve benzo(k)floranten derişiminin belirlenmesi ve canlılar üzerine etkisi' (Haziran 2011) (Sözlü Sunum)

PROJECTS

1. Nanocellulose Reinforced Cmposites for Advanced Earthquake-proof Construction Technology, KONNECT Project

2. Batı Karadeniz Bölgesi'nden toplanan balık örneklerinde biyobelirteç enzim aktiviteleri ve kimyasal analizlerle kirlilik tayini, TUBİTAK (104Y083)

Courses given as a teaching assistant

- Genel Kimya Laboratuvarı (2014-2017)-Genel Koordinatörü
- Genel Fizik Laboratuvarı (2014-2015)

- Biyomedikal Algılayıcı ve Çeviriciler Lab (2014-2017)- Genel Koordinatörü

RESEARCH INTEREST

Biosensor & Nanobiosensor:

- Mass Sensitive Biosensor

  QTF-based Immunosensor

  QCM-based Biosensor

- Electrochemical Biosensor

  Screen Printed Electrochemical Biosensor

Biotechnology & Bioengineering: Nanotechnology & Nanomaterial

- Plasma Polymerization Technique for Surface Modification
- Biomaterials: Modification and Applications
  Electrospinning
  Control Release
- Antibody Immobilization for Recognition Layer Design for Biosensor

YÖKDİL: 91,250