CURRICULUM VITAE AND PUBLICATIONS LIST

CURRICULUM VITAE

Name and Surname: Nida AYDOĞDU ÖZDOĞAN

Academic Title: Assistant Professor

Work Address:

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Area of Expertise:
Analytical Chemistry
Basic Pharmaceutics Sciences
Health Sciences
Pharmacology and Therapeutics

Degree	Department/Program	University	Year
Doctorate	Analytical Chemistry (PhD.)	Ankara University	2024
Bachelor's Degree	Pharmacy	Ankara University	2018

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s):

Determination of some common antibiotics in environmental samples with electrochemical nanosensors

Position Title	Workplace	Year
Assistant Professor	Afyonkarahisar Health Sciences University	2025-Continues
Research Assistant	Afyonkarahisar Health Sciences University	2019-2024

Roles in Projects:

1. *Nepafenak İlaç Etken Maddesinin Tayini için Sensör Geliştirilmesi ve Analitik Uygulaması*, Project Supported by Higher Education Institutions, Aydoğdu Özdoğan N., 2022-2024.

2. *Rifaksimin Tayini İçin Sensör Geliştirilmesi ve Analitik Uygulaması*, Project Supported by Higher Education Institutions, Aydoğdu Özdoğan N., 2022-2024.

3. *Pirfenidon ilaç etken maddesinin elektrokimyasal davranışlarının incelenmesi için polimer bazlı nanosensörler geliştirilmesi*, Project Supported by Higher Education Institutions, Aydoğdu Özdoğan N., 2022-2024.

4. *Onosma gracilis ve O. oreodoxa'dan elde edilen metanol özütlerinin kimyasal kompozisyonunun, antioksidan ve enzim inhibitör aktivitelerinin araştırılması*, Project Supported by Higher Education Institutions, Aydoğdu Özdoğan N., 2020-2021.

Undergraduate and graduate level courses taught in the last two years (If offered, summer courses will also be added to the table):

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	

2025	Spring	Analytical Chemistry I (Practise)			
2025	Spring	Research Project I			
2025	Spring	Electrochemical Analysis			
2025	Fall	Analytical Chemistry I (Practise)			
2025	Fall	Research Project I			
2025	Fall	Electrochemical Analysis			

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

A1. Aydoğdu Özdoğan N., Demir E., Özkan S. A., "Development of a New Generation MWCNT/TiO2/TiO2-Based Voltammetric Sensors for the Detection of Daptomycin in Soil and Different Water Samples", *ChemElectroChem*, pp. 1-11, 2025.

A2. Tekin Ö. F., Koçal E., Aydoğdu Özdoğan N., Demir E., "The Development and Analytical Applications of Polymer-Based and Carbon-Based Sensors for the Determination of Nepafenac", *Topics in Catalysis*, pp. 1-15, 2025.

A3. Demir E., Mısır M., Dinçer İ., Aydoğdu Özdoğan N., Manjunatha J. G., "Electrochemical strategies for determination of tert-butyl hydroquinone (TBHQ) in food samples", *Journal of Food Measurement and Characterization*, 2024.

A4. Aydoğdu Özdoğan N., Demir E., Özkan S. A., "Sensitive and selective electrochemical characterization and analytical determination of linezolid in environmental samples using TiO2 nanoparticles and MWCNT-COOH modified glassy carbon electrode", *Microchemical Journal*, vol. 199, 2024.

A5. Aydoğdu Özdoğan N., Özçelikay G., Özkan S. A., "Rapid and Sensitive Electrochemical Assay of Cefditoren with MWCNT/Chitosan NCs/Fe2O3 as a Nanosensor", *Micromachines*, vol. 13, no. 8, pp. 1-16, 2022.

A6. Karimi F., Demir E., Aydoğdu Özdoğan N., Shojaei M., Taher M. A., Asrami P. N., Alizadeh M., Ghasemi Y., Cheraghi S., "Advancement in electrochemical strategies for quantification of Brown HT and Carmoisine (Acid Red 14) From Azo Dyestuff class", *Food and Chemical Toxicology*, vol. 165, no. 113075, 2022.

A7. Alizadeh M., Demir E., Aydoğdu Özdoğan N., Zare N., Karimi F., Kandomal S. M., Rokni H., Ghasemi Y., "Recent advantages in electrochemical monitoring for the analysis of amaranth and carminic acid as food color", *Elsevier BV*, vol. 163, no. 112929, pp. 1-12, 2022.

A8. Baltacı Bozkurt N., Aydoğdu Özdoğan N., Sarıkürkcü C., Tepe B., "Onosma gracilis (Trautv.) and O. oreodoxa (Boiss. & Heldr.): Phytochemistry, in silico docking, antioxidant and enzyme inhibitory activities", *South African Journal of Botany*, vol. 143, pp. 410-417, 2021.

B. Papers presented at international scientific meetings and published in proceedings:

B1. Aydoğdu Özdoğan N., Demir E., Özkan S. A., Selective, and sensitive voltammetric detection of antibacterial drug linezolid using designing and fabrication of electrochemical nanosensor TiO2 nanoparticles and MWCNTCOOH modified glassy carbon electrode in environmental samples, In: *33rd International Symposium on Pharmaceutical and Biomedical Analysis*, Ankara, Türkiye, 2025.

B2. Aydoğdu Özdoğan N., Demir E., Özkan S. A., Comparison of bare glassy carbon electrode and newly developed TiO2/MWCNT/GCE voltammetric sensors for the detection of roxithromycin, In: *7th International Symposium on Advances in Pharmaceutical Analysis (APA 2025)*, Ankara, Türkiye, 2025, pp. 131-131.

B3. Demir E., Aydoğdu Özdoğan N., Dinçer İ., Erdoğan M. M., Rifaksimin Tayini için Elektrokimyasal Nanosensör Geliştirilmesi, In: *Marmara Üniversitesi Eczacılık Fakültesi Ulusal Eczacılık Kongresi (MÜEFKON'25)*, İstanbul, Türkiye, 2025.

B4. Aydoğdu Özdoğan N., Demir E., Özkan S. A., Development Of A Carbon-Based Sensor Using Voltammetry Techniques For The Determination Of Daptomycin And Application In Different Environmental Samples, In: *Biosensor 2024*, Konya, Türkiye, 2024.

B5. Kökener N., Tunay B., Aydoğdu Özdoğan N., Mısır M., Demir E., Investigation Of The Electrochemical Behavior Of The Drug Active Ingredient Pirfenidone And Its Analytical Application In Different Samples, In: *3.International Uludağ Scientific Research Congress*, Bursa, Türkiye, 2024.

B6. Tekin Ö. F., Koçal E., Aydoğdu Özdoğan N., Demir E., Sensor Development And Analytical Application For The Determination Of Nepafenac, In: *3.International Uludağ Scientific Research Congress*, Bursa, Türkiye, 2024.

B7. Aydoğdu Özdoğan N., Özçelikay Akyıldız G., Özkan S. A., Nanomaterial-Based Electrochemical Sensor Development for Sensitive Determination of Cefditoren in Human Serum and Pharmaceutical Forms, In: *12. International Drug Chemistry Conference*, Antalya, Türkiye, 2024.

B8. Aydoğdu Özdoğan N., Demir E., Özkan S. A., Selective, and sensitive voltammetric detection of antibacterial drug linezolid using designing and fabrication of electrochemical nanosensor TiO2 nanoparticles and MWCNT-COOH modified glassy carbon electrode in environmental samples, In: *PBA 2023 33rd International Symposium on Pharmaceutical and Biomedical Analysis*, Ankara, Türkiye, 2023, pp. 161-161.

B9. Demir E., Silah H., Aydoğdu Özdoğan N., Sarıkürkcü C., Açıkgül M. B., Investigation of the Electrochemical Behavior of Rafoxanide by Modified Electrode, In: *3rd International Conference on Food, Agriculture and Veterinary*, İzmir, Türkiye, 2021, pp. 195-196.

C. National/international books written or chapters in books:

C2. Chapters in national/international books written:

C2.1. Aydoğdu Özdoğan N., Mısır M., Demir E., "Overview of Sensitivity, Selectivity, and Stability of Voltammetric Sensors", *Advancements in Voltammetry for Biosensing Applications*, Springer, 2025.

C2.2. Aydoğdu Özdoğan N., Mısır M., Demir E., "Overview of Sensitivity, Selectivity, and Stability of Voltammetric Sensors", *Advancements in Voltammetry for Biosensing Applications*, Springer, 2025.

C2.3. Aydoğdu Özdoğan N., Mısır M., Demir E., "Electro-analysis of food additives using nanomaterial based electrochemical sensors", *Advances in Electrochemical Sensor Applications Using Nano-structured Materials*, Royal Society of Chemistry, 2025.

C2.4. Aydoğdu Özdoğan N., Mısır M., Demir E., "Electro-analysis of Food Additives Using Nanomaterial-based Electrochemical Sensors", *Advances in Electrochemical Sensor Applications Using Nano-structured Materials*, Royal society of chemistry, 2025.

C2.5. Aydoğdu Özdoğan N., Samancı Ş. N., Demir E., "Enhanced Carbon Sensors for Determination of Hormones", *Handbook of Carbon Sensors*, CRC Press, 2025.

C2.6. Aydoğdu Özdoğan N., Samancı Ş. N., Demir E., "Carbon Sensors and Significance", *Handbook of Carbon Sensors*, CRC Press, 2025.

C2.7. Mısır M., Aydoğdu Özdoğan N., Demir E., "Polymer Functionalized Materials for Design of Electrochemical Sensing Devices", *Real-Time Applications of Advanced Electrochemical Sensing Devices*, IOP Publishing, 2024.

C2.8. Demir E., Aydoğdu Özdoğan N., Ölçer M., "Nanostructured Electrochemical Biosensors for Estimation of Pharmaceutical Drugs", *Novel Nanostructured Materials for Electrochemical Bio-sensing Applications*, Elsevier, 2024.

C2.9. Mısır M., Aydoğdu Özdoğan N., Demir E., "Polymer Functionalized Materials for Design of Electrochemical Sensing Devices", *Real-Time Applications of Advanced Electrochemical Sensing Devices*, Institute of Physics Publishing, 2024.

C2.10. Aydoğdu Özdoğan N., Demir E., Mısır M., "Graphene Modified Electrodes for Detection of Vitamins", *Graphene Based Sensors*, IOP Publishing, Bristol, 2023.

C2.11. Aydoğdu Özdoğan N., Demir E., Mısır M., "Graphene Modified Electrodes for Detection of Vitamins", *Graphene-Based Sensors*, IOP Publishing Ltd, London, 2023.

C2.12. Demir E., Aydoğdu Özdoğan N., Ölçer M., "Nanostructured Electrochemical Biosensors for Estimation of Pharmaceutical Drugs", *Novel Nanostructured Materials for Electrochemical Bio-sensing Applications*, Elsevier, Boston, 2023.

C2.13. Aydoğdu Özdoğan N., Demir E., "Development of Electrochemical Sensor for the Analysis of Herbicides", *Electrochemical Sensors Based on Carbon Composite Materials: Fabrication, Properties, and Applications*, Institute of Physics Publishing, Bristol, 2022.

C2.14. Aydoğdu Özdoğan N., Demir E., "Development of electrochemical sensors for the analysis of herbicides", *Electrochemical Sensors Based on Carbon Composite Materials*, IOP Science, London, 2022.

C2.15. Demir E., Silah H., Aydoğdu Özdoğan N., "Electrochemical Analysis of Pesticide in Food Samples", *Medicine & Health 2021*, Efe Akademi Yayınevi, 2021.

C2.16. Demir E., Silah H., Aydoğdu Özdoğan N., "Electrochemical Applications for the Antioxidant Sensing in Food Samples such as Citrus and its Derivatives, Soft Drinks, Supplementary Food and Nutrients", *Citrus*, IntechOpen, London, 2021.

D. Articles published in national peer-reviewed journals:

D1. Demir E., Aydoğdu Özdoğan N., Sarıkürkcü C., Açıkgül M. B., Silah H., "Developing and Analytical Application of Modified Electrode for the Electrochemical Determination of Rafoxanide Veterinary Drug", *International Bulletin of Electrochemical Methodology*, vol. 1, no. 1, 2024.

E. Papers presented at national scientific meetings and published in proceedings:

E1. Aydoğdu Özdoğan N., Demir E., Özkan S. A., FABRICATION AND APPLICATION OF SELECTIVE AND SENSITIVE ELECTROCHEMICAL NANOSENSOR FOR VOLTAMMETRIC DETECTION OF ANTIBACTERIAL DRUG LINEZOLID IN ENVIRONMENTAL SAMPLES, In: *14th Annual Symposium on Physical and Analytical Chemistry (ASPAC 2025)*, Tiflis, Georgia, 2025.

E2. Tekin Ö. F., Koçal E., Aydoğdu Özdoğan N., Demir E., Topikal Oftalmik Anti-inflamatuar Nepafenak'ın Hassas Tespiti için Farklı Voltametrik Sensörlerin Geliştirilmesi ve Karşılaştırılması, In: *36. Ulusal Kimya Kongresi*, Van, Türkiye, 2025.