



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:

- Nepafenak İlaç Etken Maddesinin Tayini için Sensör Geliştirilmesi ve Analitik Uygulaması*, Project Supported by Higher Education Institutions, Aydoğdu Özdoğan N., 2022-2024.
- Rifaksimim Tayini İçin Sensör Geliştirilmesi ve Analitik Uygulaması*, Project Supported by Higher Education Institutions, Aydoğdu Özdoğan N., 2022-2024.
- Pirfenidon ilaç etken maddesinin elektrokimyasal davranışlarının incelenmesi için polimer bazlı nanosensörler geliştirilmesi*, Project Supported by Higher Education Institutions, Aydoğdu Özdoğan N., 2022-2024.
- Onosma gracilis ve O. oreodoxa'dan elde edilen metanol özütlelerinin 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.** Aydođdu Özdođan 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., Aydođdu Özdođan 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., Aydođdu Özdođan N., Manjunatha J. G., "Electrochemical strategies for determination of tert-butyl hydroquinone (TBHQ) in food samples", *Journal of Food Measurement and Characterization*, 2024.
- A4.** Aydođdu Özdođan 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.** Aydođdu Özdođan 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., Aydođdu Özdođan 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., Aydođdu Özdođan 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., Aydođdu Özdođan N., Sankürkcü 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.** Aydođdu Özdođan 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.** Aydođdu Özdođan 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., Aydođdu Özdođan N., Dinçer İ., Erdoğan M. M., Rifaksimim Tayini için Elektrokimyasal Nanosensör Geliştirilmesi, In: *Marmara Üniversitesi Eczacılık Fakültesi Ulusal Eczacılık Kongresi (MÜEFKON'25)*, İstanbul, Türkiye, 2025.
- B4.** Aydođdu Özdođan 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., Aydođdu Özdođan 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., Aydođdu Özdođan N., Demir E., Sensor Development And Analytical Application For The Determination Of Nepafenac, In: *3. International Uludağ Scientific Research Congress*, Bursa, Türkiye, 2024.
- B7.** Aydođdu Özdođan 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.** Aydođdu Özdođan 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., Aydođdu Özdođan 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. Aydođdu Özdođan N., Mısır M., Demir E., "Overview of Sensitivity, Selectivity, and Stability of Voltammetric Sensors", *Advancements in Voltammetry for Biosensing Applications*, Springer, 2025.

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

C2.3. Aydođdu Özdođan 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. Aydođdu Özdođan 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. Aydođdu Özdođan N., Samancı Ş. N., Demir E., "Enhanced Carbon Sensors for Determination of Hormones", *Handbook of Carbon Sensors*, CRC Press, 2025.

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

C2.7. Mısır M., Aydođdu Özdođan 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., Aydođdu Özdođan 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., Aydođdu Özdođan 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. Aydođdu Özdođan N., Demir E., Mısır M., "Graphene Modified Electrodes for Detection of Vitamins", *Graphene Based Sensors*, IOP Publishing, Bristol, 2023.

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

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

C2.13. Aydođdu Özdođan 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. Aydođdu Özdođan 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., Aydođdu Özdođan N., "Electrochemical Analysis of Pesticide in Food Samples", *Medicine & Health 2021*, Efe Akademi Yayınevi, 2021.

C2.16. Demir E., Silah H., Aydođdu Özdođan 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., Aydođdu Özdođan 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. Aydođdu Özdođan 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., Aydođdu Özdođan 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.