



CURRICULUM VITAE

Name and Surname: Nilüfer KOÇYİĞİT
Date of Birth: 1989
Academic Title: Assistant Professor
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Area of Expertise: Chemistry
Natural Sciences

Degree	Department/Program	University	Year
Master's Degree	İŞ SAĞLIĞI VE GÜVENLİĞİ (YL) (TEZSİZ) (UZAKTAN ÖĞRETİM)	İstanbul Gelişim University	2023
Doctorate	ANALİTİK KİMYA (DR)	Yıldız Technical University	2021
Master's Degree	ANALİTİK KİMYA (YL) (TEZLİ)	Marmara University	2015
Bachelor's Degree	KİMYA BÖLÜMÜ	Marmara University	2012

Position Title	Workplace	Year
Assistant Professor	Biruni University	2021-Continues
Research Assistant	Biruni University	2019-2021

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1. "Sensitive, low cost and disposable electrochemical dopamine sensor based on Ag-NP/f-MWCNT/Poly (L-Cysteine)/ PGE", Applied Physics A, 2025.
- A2. "ZnO-NF/Graphene/Nafion as electrode platform for some pharmaceutical active ingredients sensor and energy storage applications", Synthetic Metals, 2025.
- A3. "The novel double-decker lanthanide metal phthalocyanines substituted with 1-[3,5-bis (trifluoromethyl)phenyl] propoxyl: Synthesis, characterization, electrochemistry, spectroelectrochemistry, and electrochromism", Journal of Molecular Structure, 2025.
- A4. "Impact of Boehmite and Gibbsite on the supercapacitor performances of polypyrrole: γ -AlO(OH)/PPy/CF and γ -Al(OH)3/PPy/CF flexible and wearable nanocomposites", Journal of Alloys and Compounds, 2025.
- A5. "Furoic acid-doped-over-oxidized poly (3, 4-ethylenedioxythiophene)-based electrochemical sensor for selective, sensitive and concurrent quantification of paracetamol, codeine phosphate and caffeine in pharmaceutical formulation", Journal of Materials Research, 2025.
- A6. "One-step chronoamperometric synthesis of S, N co-doped graphene oxide electrodes for nonenzymatic electrochemical H₂O₂ sensor", Journal of Materials Science: Materials in Electronics, 2024.
- A7. "Novel Ball-Type Phthalocyanines with Eight Benzotriazole Groups: Synthesis, Computational DFT Studies, and Supercapacitor Properties", ECS Journal of Solid State Science and Technology, 2024.
- A8. "Glycosylated zinc(II) phthalocyanine photosensitizer: Synthesis, photophysical properties and in vitro photodynamic activity on breast cancer cell line", Journal of Molecular Structure, 2024.

- A9. "Palladium (II)-NNN Pincer Complex Embedded Carbon Felt Electrode for High-Performance Symmetrical Supercapacitor Applications", Energy Technology, 2024.
- A10. "Synthesis, fabrication and characterization of 2-naphthyloxy group-substituted bis(2-pyridylimino)isoindoline and its derivatives as a positive electrode for vanadium redox flow battery applications", Dalton Transactions, 2023.
- A11. "Synthesis and characterization of novel HMPM bridged ball-type metallophthalocyanines, and their DFT studies and electrochemical performance as supercapacitor electrodes", Synthetic Metals, 2023.
- A12. "A novel electrolytes for redox flow batteries: Cerium and chromium couples in aqueous system", International Journal of Energy Research, 2021.
- A13. "Chrome and cobalt-based novel electrolyte systems for redox flow batteries", International Journal of Energy Research, 2020.
- A14. "A novel vanadium/cobalt redox couple in aqueous acidic solution for redox flow batteries", International Journal of Energy Research, 2020.
- A15. "Electrocatalytic Activity of Novel Ball-Type Metallophthalocyanines with Trifluoro Methyl Linkages in Oxygen Reduction Reaction and Application as Zn-Air Battery Cathode Catalyst", Electrochimica Acta, 2017.

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

- B1. "NiCo₂O₄/S,N-codoped Graphene Oxide/Nafion/GCE nanocomposite electrode material for energy storage applications", International Conference on New Trends in Chemistry, 2025.
- B2. "NOVEL BALL-TYPE METALLOPHthalOCYANINES DERIVED FROM BENZOTRIAZOL: THEIR SYNTHESIS, CHARACTERIZATION AND ELECTROCHEMICAL PERFORMANCE AS SUPERCAPACITOR ELECTRODES", IV. BASKENT INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY STUDIES, 2023.
- B3. "Karbon Esaslı Elektrodun Ce(III) Çözeltisinde Elektrokimyasal Davranışlarının İncelenmesi", GAPYENEV-2020 II. International Renewable Energy and Energy Efficiency Congress, 2020.
- B4. "Electrochemical Behaviour of Graphite Based Electrode in Co(II)/Cr(III) Based Redox Flow Battery", World Energy Strategies Congress and Exhibition, 2019.
- B5. "Synthesis and characterization of unique bifunctional oxygen electrocatalysts M₂Pc₂ type macrocycles and their usage in the secondary Zn O₂ battery applications", 2nd International Conference on Green Chemistry and Sustainable Engineering, 2016.
- B6. "Catalytic activity and photovoltaic properties of novel 4,4'-(hexafluoroisopropylidene)diphenol based ball-type metallophthalocyanines", 17th International Symposium on Relations between Homogeneous and Heterogeneous Catalysis, 2015.

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

- E1. "HEMATEİN KATKILI POLİPİROL KALEM UCU ELEKTRODUN SÜPERKAPASİTÖR PERFORMANSININ İNCELENMESİ", X. ULUSAL ANORGANİK KİMYA KONGRESİ, 2025.
- E2. "Asetik Asit ve Fosfanoasetik Asit Katkılı Polipirol Kalem Ucu Elektrotların Süperkapasitör Özelliklerinin Araştırılması", 35. Ulusal Kimya Kongresi, 2024.
- E3. "S, N eş katkılı grafen oksit elektrotların kronoamperometrik yöntem ile tek adımlı sentezi ve H₂O₂ elektrokimyasal sensörü", 35. Ulusal Kimya Kongresi, 2024.
- E4. "Suda Çözünür Mezo-Süstitüye BODIPY Bileşiklerinin in vitro Fotodinamik Aktivitelerinin İncelenmesi", 9. Ulusal Anorganik Kimya Kongresi, 2024.
- E5. "Electrocharacterization and Development of a Novel Electrochemical Sensor for the Simultaneous Determination of Paracetamol and Ibuprofen", 4. Ulusal Karbon Konferansı, 2024.
- E6. "Investigation of Electrochemical Behavior of Fe (II) With Carbon-Based Electrodes in Redox Flow Batteries", 3. Ulusal Karbon Konferansı (3. UKK), 2021.
- E7. "Farklı Derişimlerdeki Vanadyum(III) Çözeltisinin Asidik Ortamda Elektrokimyasal Davranışlarının İncelenmesi", 31. Ulusal Kimya Kongresi, 2019.