

## Lect. PhD MEHMET KAYHAN

### Personal Information

**Email:** mehmet.kayhan@usak.edu.tr

**Web:** <https://avesis.usak.edu.tr/mehmet.kayhan>

### International Researcher IDs

ScholarID: CHLszQwAAAAJ

ORCID: 0000-0002-4581-2657

Publons / Web Of Science ResearcherID: HOH-7488-2023

ScopusID: 57194326368

Yoksis Researcher ID: 301876

### Education Information

Doctorate, Technische Universitat Darmstadt, Kimya, Germany 2009 - 2013

Postgraduate, Middle East Technical University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 2007 - 2009

Undergraduate, Ihsan Dogramaci Bilkent University, Fen Fakültesi, Kimya Bölümü, Turkey 2000 - 2007

### Dissertations

Doctorate, Transition Metal Borides: Synthesis, Characterization and Superconducting Properties, Technische Universitat Darmstadt, Kimya, 2013

Postgraduate, Effects of synthesis and doping methods on thermoluminescence glow curves of manganese doped lithium tetraborate, Middle East Technical University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2009

### Research Areas

Boron Chemistry, Ceramic Materials, Semiconductor and Superconductor Materials, Material Characterization, Nanomaterials, Transition Metals, Photochemistry of Inorganic Molecules, Catalysis

### Academic Titles / Tasks

Lecturer, Usak University, REKTÖRLÜK, UBATAM, 2019 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. A Facile Synthesis of Photocatalytic Fe(OH)<sub>3</sub> Nanoparticles for Degradation of Phenol**  
KAYHAN M., Aksoy M., KAYHAN E.  
ChemistrySelect, vol.9, no.23, 2024 (SCI-Expanded)
- II. Inhibition of biofilm, quorum-sensing, and swarming motility in pathogenic bacteria by magnetite, manganese ferrite, and nickel ferrite nanoparticles**  
Doğaç Y. İ., Tamfu A. N., BOZKURT S., KAYHAN M., Teke M., Ceylan O.  
Biotechnology and Applied Biochemistry, vol.71, no.2, pp.356-371, 2024 (SCI-Expanded)

- III. **Synthesis of a benzothiazole-based structure as a selective colorimetric-fluorogenic cyanate chemosensor**  
KAYHAN E., BOZKURT S., KAYHAN M.  
Reviews in Analytical Chemistry, vol.42, no.1, 2023 (SCI-Expanded)
- IV. **Polyacrylonitrile (PAN)/Polyvinyl Alcohol (PVA) Electrospun Nanofibrous Membranes Synthesis, Characterizations, and their Air Permeability Properties**  
İNCE YARDIMCI A., KAYHAN M., TARHAN Ö.  
Journal of Macromolecular Science, Part B: Physics, vol.61, no.10-11, pp.1426-1435, 2022 (SCI-Expanded)
- V. **Antibacterial Activity of AgNO<sub>3</sub> Incorporated Polyacrylonitrile/Polyvinylidene Fluoride (PAN/PVDF) Electrospun Nanofibrous Membranes and Their Air Permeability Properties**  
İNCE YARDIMCI A., Durmus A., KAYHAN M., TARHAN Ö.  
Journal of Macromolecular Science, Part B: Physics, vol.61, no.6, pp.749-762, 2022 (SCI-Expanded)
- VI. **Neutron diffraction and observation of superconductivity for tungsten borides, WB and W<sub>2</sub>B<sub>4</sub>**  
KAYHAN M., Hildebrandt E., Frotscher M., Senyshyn A., Hofmann K., Alff L., Albert B.  
Solid State Sciences, vol.14, no.11-12, pp.1656-1659, 2012 (SCI-Expanded)
- VII. **Effects of synthesis, doping methods and metal content on thermoluminescence glow curves of lithium tetraborate**  
KAYHAN M., YILMAZ A.  
Journal of Alloys and Compounds, vol.509, no.30, pp.7819-7825, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Synthesis and air permeability of electrospun PAN/PVDF nanofibrous membranes**  
Yardimci A. I., KAYHAN M., Durmus A., AKSOY M., TARHAN Ö.  
Research on Engineering Structures and Materials, vol.8, no.2, pp.223-231, 2022 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Comparison of Air Permeability Properties of PAN/PVDF and PAN/PVA Electrospun Nanofibrous Membranes**  
İNCE YARDIMCI A., KAYHAN M., TARHAN Ö.  
5. Int. Conference on Material Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'22), Turkey, 02 September 2022
- II. **Morphological and Structural Properties of PAN/PVDF Electrospun Nanofibers**  
İNCE YARDIMCI A., TARHAN Ö., KAYHAN M., Durmuş A.  
4th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2021), Turkey, 24 - 26 November 2021

## Metrics

Publication: 10  
Citation (Scopus): 91  
H-Index (Scopus): 5

## Non Academic Experience

Aykom Kompozit Aydınlatma  
Tezkom Kompozit Teknolojileri A.Ş.

