

## **Doç. Dr. ERKAN YILMAZ**

### **Kişisel Bilgiler**

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### **Eğitim Bilgileri**

Doktora, Erciyes Üniversitesi, Fen Fakültesi, Türkiye 2012 - 2016

Yüksek Lisans, Erciyes Üniversitesi, Fen Fakültesi, Türkiye 2010 - 2012

Lisans, Karadeniz Teknik Üniversitesi, Fen Fakültesi, Türkiye 2004 - 2008

### **Yabancı Diller**

İngilizce, C1 İleri

### **Yaptığı Tezler**

Yüksek Lisans, KARBON NANOTÜP ÜZERİNDE BAZI METAL İYONLARININ ZENGİNLEŞTİRİLMESİ, Erciyes Üniversitesi, Fen Fakültesi, Kimya, 2012

### **Araştırma Alanları**

Teknik Bilimler, Çevre Mühendisliği, Çevre Bilimleri, Çevre Kimyası, Temel Bilimler, Kimya, Analitik Kimya, Ayırma Teknikleri, Kromatografi, Mikro ve Yarımkro Analiz Yöntemleri, Spektroskopik Yöntemler

### **Akademik Unvanlar / Görevler**

Doç. Dr., Erciyes Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2020 - Devam Ediyor

Dr. Öğr. Üyesi, Erciyes Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2018 - 2019

Araştırma Görevlisi, Erciyes Üniversitesi, Fen Fakültesi, Kimya, 2009 - 2017

### **Akademik İdari Deneyim**

Erciyes Üniversitesi, 2018 - Devam Ediyor

Erciyes Üniversitesi, 2019 - 2022

Erciyes Üniversitesi, 2018 - 2021

Erciyes Üniversitesi, 2018 - 2018

## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. **Flexible electrodes composed of flower-like MoS<sub>2</sub> and MXene for supercapacitor applications**  
Hayat H. P., Dokan F. K., ÖNSES M. S., YILMAZ E., Duran A., ŞAHMETLİOĞLU E.  
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- II. **Solid phase microextraction of rhodamine B in cosmetic samples using ZnS@GO@WMCNTs Nanocomposite with Spectrophotometric Detection**  
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- III. **Investigation of aclidinium bromide degradation by stability-indicating HPLC methods, characterization of impurities by NMR, and identification of degradation products by LC-MS**  
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- IV. **Determination of Rhodamine B in Cosmetics, Candy, Water, and Plastic by a Novel Multiwalled Carbon Nanotube (MWCNT)@Zinc Oxide@Magnetite Nanocomposite for Magnetic Solid-Phase Extraction (MSPE) with Spectrophotometric Detection**  
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- V. **Unlocking the Potential of Bismuth-Based Materials in Supercapacitor Technology: A Comprehensive Review**  
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- VI. **Novel extracellular synthesized silver nanoparticles using thermophilic *Anoxybacillus flavithermus* and *Geobacillus stearothermophilus* and their evaluation as nanodrugs**  
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- VII. **Polymer nanofilm mediated photo-assisted growth of gold nanostructures for sensing of drugs**  
Kayaci N., Şakir M., Esidir A., Yilmaz E., Onses M. S.  
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- VIII. **TiO<sub>2</sub>@ZnO nanocomposite: bifunctional material for solid phase extraction of U(VI) and Th(IV) and photocatalytic degradation of organic contaminant**  
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- IX. **Asymmetric and zinc-ion hybrid supercapacitors based on iron oxide and carbon dots**  
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- X. **High energy density hybrid supercapacitors based on graphitic carbon nitride modified BiFeO<sub>3</sub> and biomass-derived activated carbon**  
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- XI. **Application of magnetic solid-phase extraction for sensitive determination of anticancer drugs in urine by means of diamino benzidine tetrachlorohydrate modified magnetic nanoparticles**  
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- XII. **Scalable Fabrication of MXene-PVDF Nanocomposite Triboelectric Fibers via Thermal Drawing**  
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- XIII. **Determination of Curcumin in Food with Homogenous Liquid-Phase Microextraction Preconcentration and Spectrophotometric Determination**  
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- XIV. **Determination of Rhodamine B by UV-Vis spectrophotometry in cosmetics after microextraction by using heat-induced homogeneous liquid-liquid extraction method**  
Erbas Z., Soylak M.  
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- XV. **Highly compressible binder-free sponge supercapacitor electrode based on flower-like NiO/MnO<sub>2</sub>/CNT**  
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- XVI. **Thiomalic acid/ferric chloride-based deep eutectic solvent for microextraction of chromium in natural water samples prior to FAAS analysis**  
Habila M. A., Alabdulkarem E. A., AOthman Z. A., YILMAZ E., SOYLAK M.  
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- XVII. **Development of combined-supramolecular microextraction with ultra-performance liquid chromatography-tandem mass spectrometry procedures for ultra-trace analysis of carbaryl in water, fruits and vegetables**  
AOthman Z. A., YILMAZ E., Habila M. A., Alhenaki B., SOYLAK M., Ahmed A. Y. B. H., Alabdulkarem E.  
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- XVIII. **Microwave-assisted fabrication of high-performance supercapacitors based on electrodes composed of cobalt oxide decorated with reduced graphene oxide and carbon dots**  
Yetiman S., Pecenek H., KILIÇ DOKAN F., ÖNSES M. S., Yilmaz E., ŞAHMETLİOĞLU E.  
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- XIX. **Outstanding supercapacitor performance with intertwined flower-like NiO/ MnO<sub>2</sub>/CNT electrodes**  
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- XX. **Nanostructures for the Prevention, Diagnosis, and Treatment of SARS-CoV-2: A Review**  
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- XXI. **Effects of carbon nanomaterials and MXene addition on the performance of nitrogen doped MnO<sub>2</sub> based supercapacitors**  
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- XXII. **Cadmium selenide and carbon nanodots modified magnetite nanospheres for the magnetic solid-phase extraction (MSPE) of malachite green prior to spectrophotometric determination**  
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- XXIII. **Magnetic solid phase extraction of erythrosine (E127) in pharmaceutical samples with Fe<sub>3</sub>O<sub>4</sub>/C-nanodots hybrid material prior to spectrophotometric analysis**  
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- XXIV. **An easy and green amine-based microextraction strategy combined UV-Vis spectrophotometric detection for mercury in natural water samples**  
Dogru S., YILMAZ E., Gunduz S., SOYLAK M.  
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- XXV. **Mesoporous one-component gold microshells as 3d sers substrates**  
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- XXVI. **Hydrolytic enzyme modified magnetic nanoparticles: An innovative and green microextraction system for inorganic species in food samples**  
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- Analytica Chimica Acta, cilt.1178, 2021 (SCI-Expanded)
- XXVII. **Determination of chloramphenicol and tetracycline residues in milk samples by means of nanofiber coated magnetic particles prior to high-performance liquid chromatography-diode array detection**  
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- XXVIII. **Sensitive determination of Fluoxetine and Citalopram antidepressants in urine and wastewater samples by liquid chromatography coupled with photodiode array detector**  
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- XXIX. **Application of magnetic nanomaterials in bioanalysis**  
Yilmaz E., Sarp G., Uzcan F., Özalp Ö., Soylak M.  
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- XXX. **A new strategy for the combination of supramolecular liquid phase microextraction and UV–Vis spectrophotometric determination for traces of maneb in food and water samples**  
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- XXXI. **Antibacterial, Antiviral, and Self-Cleaning Mats with Sensing Capabilities Based on Electrospun Nanofibers Decorated with ZnO Nanorods and Ag Nanoparticles for Protective Clothing Applications**  
Karagoz S., Burak Kiremitler N. B., Sarp G., Pekdemir S., Salem S., Goksu A., Serdar Onses M. S., Sözdutmaz İ., Sahmetlioglu E., Ozkara E. S., et al.  
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- XXXII. **Fabrication of superhydrophobic Ag@ZnO@Bi<sub>2</sub>WO<sub>6</sub> membrane disc as flexible and photocatalytic active reusable SERS substrate**  
Korkmaz I., ŞAKİR M., SARP G., Salem S., TÖRÜN İ., Volodkin D., Yavuz E., ÖNSES M. S., YILMAZ E.  
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- XXXIII. **An environment-friendly and rapid liquid-liquid microextraction based on new synthesized hydrophobic deep eutectic solvent for separation and preconcentration of erythrosine (E127) in biological and pharmaceutical samples**  
Yuvalı D., Seyhaneyildizi M., Soylak M., Narin İ., Yilmaz E.  
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- XXXIV. **An environmentally friendly and novel amine-based liquid phase microextraction of quercetin in food samples prior to its determination by UV-vis spectrophotometry**  
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- XXXV. **A new liquid phase microextraction method-based reverse micelle for analysis of dexketoprofen in human plasma by HPLC-DAD**  
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- XXXVI. **Switchable-hydrophilicity solvent liquid-liquid microextraction**  
Alshana U., Hassan M., Al-Nidawi M., YILMAZ E., SOYLAK M.  
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- XXXVII. **Deep Eutectic Solvent-Based Microextraction of Lead(II) Traces from Water and Aqueous Extracts before FAAS Measurements**  
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- XXXVIII. **Pyrocatechol violet impregnated magnetic graphene oxide for magnetic solid phase microextraction of copper in water, black tea and diet supplements**  
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- XXXIX. **Fabrication and characterization of SiO<sub>2</sub>@Fe<sub>3</sub>O<sub>4</sub>@nanodiamonds for vortex-assisted magnetic solid-phase extraction of lead in cigarette samples prior to FAAS detection**  
Saydan Kanberoglu G., YILMAZ E., SOYLUK M.  
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- XL. **Solid-phase extraction of copper as 1-(2-pyridylazo)-2-naphthol (PAN) chelates on Coprinus atramentaria**  
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- XLI. **Simple and sensitive determination of vitamin A and E in the milk and egg yolk samples by using dispersive solid phase extraction with newly synthesized polymeric material**  
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JOURNAL OF FOOD COMPOSITION AND ANALYSIS, cilt.90, 2020 (SCI-Expanded)
- XLII. **TiO<sub>2</sub> nanoparticles and C-Nanofibers modified magnetic Fe<sub>3</sub>O<sub>4</sub> nanospheres (TiO<sub>2</sub>@Fe<sub>3</sub>O<sub>4</sub>@C-NF): A multifunctional hybrid material for magnetic solid-phase extraction of ibuprofen and photocatalytic degradation of drug molecules and azo dye**  
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- XLIV. **Graphene-like MoS<sub>2</sub>-modified magnetic C-dot nanoflowers: An efficient magnetic solid-phase extraction adsorbent for monitoring of trace amounts of ibuprofen**  
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- XLV. **A novel deep eutectic solvent microextraction procedure for enrichment, separation and atomic absorption spectrometric determination of palladium at ultra-trace levels in environmental samples**  
ALOthman Z. A., Habila M. A., YILMAZ E., Alabdullkarem E. A., SOYLUK M.  
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- XLVI. **Green synthesis of magnetic carbon nanodot/graphene oxide hybrid material (Fe<sub>3</sub>O<sub>4</sub>@C-nanodot@GO) for magnetic solid phase extraction of ibuprofen in human blood samples prior to HPLC-DAD determination**  
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- XLVII. **Low bandgap microsphere-like magnetic nanocomposite: An enhanced photocatalyst for degradation of organic contaminants and fabrication of SERS-active surfaces**  
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- XLVIII. **Cu<sub>2</sub>O-CuO ball like/multiwalled carbon nanotube hybrid for fast and effective ultrasound-assisted solid phase extraction of uranium at ultra-trace level prior to ICP-MS detection**  
Aydin F., YILMAZ E., Ölmez E., SOYLUK M.  
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- XLIX. **Photocatalytic green fabrication of Au nanoparticles on ZnO nanorods modified membrane as flexible and photocatalytic active reusable SERS substrates**  
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- L. **Synthesis of Ag and TiO<sub>2</sub> modified polycaprolactone electrospun nanofibers (PCL/TiO<sub>2</sub>-Ag NFs) as a multifunctional material for SERS, photocatalysis and antibacterial applications**  
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- LI. **Analytical methodology for trace determination of propoxur and fenitrothion pesticide residues by**

- decanoic acid modified magnetic nanoparticles**  
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- LII. **A flower-like hybrid material composed of Fe<sub>3</sub>O<sub>4</sub>, graphene oxide and CdSe nanodots for magnetic solid phase extraction of ibuprofen prior to its quantification by HPLC detection**  
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- LIII. **Trace determination of vitamin B12 in food samples by using Fe<sub>3</sub>O<sub>4</sub> magnetic particles including multi-walled carbon nanotubes and nanodiamonds**  
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- LIV. **A hybrid material composed of multiwalled carbon nanotubes and MoSe<sub>2</sub> nanorods as a sorbent for ultrasound-assisted solid-phase extraction of lead(II) and copper(II)**  
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- LV. **Separation, enrichment and spectrophotometric determination of erythrosine (E127) in drug, cosmetic and food samples by heat-induced homogeneous liquid-liquid microextraction method**  
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- LVI. **A new amine based microextraction of lead (II) in real water samples using flame atomic absorption spectrometry**  
Habila M. A., AL-Othman Z. A., YILMAZ E., Alabdullkarem E. A., SOYLAK M.  
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- LVII. **Magnetic solid-phase extraction of quercetin on magnetic-activated carbon cloth (MACC)**  
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- LVIII. **Trace analysis of quercetin in tea samples by HPLC-DAD system by means of a new nanocomposite including magnetic core-shell**  
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- LIX. **Application of deep eutectic solvent in ultrasound-assisted emulsification microextraction of quercetin from some fruits and vegetables**  
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- LX. **A green ultrasonic-assisted liquid-liquid microextraction technique based on deep eutectic solvents for flame atomic absorption spectrometer determination of trace level of lead in tobacco and food samples**  
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- LXI. **Supramolecular solvent microextraction and ultra-performance liquid chromatography-tandem mass spectrometry combination for the preconcentration and determination of malathion in environmental samples**  
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- LXII. **Developing a new and simple ultrasound-assisted emulsification liquid phase microextraction method built upon deep eutectic solvents for Patent Blue V in syrup and water samples**  
Kanberoğlu G. S., YILMAZ E., SOYLAK M.  
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- LXIII. **Magnetic solid phase extraction of trace paracetamol and caffeine in synthetic urine and wastewater samples by a using core shell hybrid material consisting of graphene oxide/multiwalled carbon**

- nanotube/Fe3O4/SiO<sub>2</sub>**  
ULUSOY H. İ., YILMAZ E., SOYLAK M.  
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- LXIV. **Deep eutectic solvent based liquid phase microextraction of nickel at trace level as its diethyldithiocarbamate chelate from environmental samples**  
Erbas Z., SOYLAK M., YILMAZ E., Dogan M.  
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- LXV. **A sensitive and selective deep eutectic solvent-based ultrasound-assisted liquid phase microextraction procedure for separation-preconcentration and determination of copper in olive oil and water samples**  
Menghwar P., YILMAZ E., Sherazi S. T. H., SOYLAK M.  
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- LXVI. **Development of an ultrasonic-assisted restricted access supramolecular solvent-based liquid phase microextraction (UA-RAS-LPME) method for separation-preconcentration and UV-VIS spectrophotometric detection of curcumin**  
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- LXVII. **Use of hydrolytic enzymes as green and effective extraction agents for ultrasound assisted-enzyme based hydrolytic water phase microextraction of arsenic in food samples**  
YILMAZ E.  
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- LXVIII. **Usage of deep eutectic solvents for the digestion and ultrasound-assisted liquid phase microextraction of copper in liver samples**  
Kanberoğlu G. S., YILMAZ E., SOYLAK M.  
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