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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 Yarımikro 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 MoS₂ and MXene for supercapacitor applications**
Hayat H. P., Dokan F. K., ÖNSES M. S., YILMAZ E., Duran A., ŞAHMETLİOĞLU E.
Materials Research Bulletin, cilt.175, 2024 (SCI-Expanded)
- 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 acridinium 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**
Giray G., Gonca S., Özdemir S., Isik Z., YILMAZ E., SOYLAK M., Dizge N.
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- VII. **Polymer nanofilm mediated photo-assisted growth of gold nanostructures for sensing of drugs**
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- VIII. **TiO₂@ZnO nanocomposite: bifunctional material for solid phase extraction of U(VI) and Th(IV) and photocatalytic degradation of organic contaminant**
Aydin F., YILMAZ E., Demirkiran G., Erbaş Z., Vurucuel M., SOYLAK M.
Journal of Radioanalytical and Nuclear Chemistry, cilt.332, sa.10, ss.3879-3892, 2023 (SCI-Expanded)
- IX. **Asymmetric and zinc-ion hybrid supercapacitors based on iron oxide and carbon dots**
Yetiman S., Kılıç Dokan F., ÖNSES M. S., Huang X., YILMAZ E., ŞAHMETLİOĞLU E.
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- X. **High energy density hybrid supercapacitors based on graphitic carbon nitride modified BiFeO₃ and biomass-derived activated carbon**
Pecenek H., Dokan F. K., ÖNSES M. S., YILMAZ E., ŞAHMETLİOĞLU E.
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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**
Akyol E., ULUSOY H. İ., YILMAZ E., POLAT Ü., SOYLAK M.
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- XII. **Scalable Fabrication of MXene-PVDF Nanocomposite Triboelectric Fibers via Thermal Drawing**
Hasan M. M., Sadeque M. S. B., Albasar I., YILMAZ E., KILIÇ DOKAN F., Onses M. S., Ordu M.
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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**
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- XV. **Highly compressible binder-free sponge supercapacitor electrode based on flower-like NiO/MnO₂/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., ALOthman Z. A., YILMAZ E., SOYLAK M.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, cilt.102, sa.8, ss.1825-1833, 2022 (SCI-Expanded)
- 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**
ALothman 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., Yılmaz E., ŞAHMETLİOĞLU E.
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- XIX. **Outstanding supercapacitor performance with intertwined flower-like NiO/ MnO₂/CNT electrodes**
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- XX. **Nanostructures for the Prevention, Diagnosis, and Treatment of SARS-CoV-2: A Review**
Kiremitler N. B., Kemerli M. Z., Kayaci N., Karagoz S., Pekdemir S., Sarp G., Sanduvaç S., Önses M. S., Yılmaz E.
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- XXI. **Effects of carbon nanomaterials and MXene addition on the performance of nitrogen doped MnO₂ 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 Fe₃O₄/C-nanodots hybrid material prior to spectrophotometric analysis**
Emiroglu E., YUVALI D., SARP G., YILMAZ E., NARİN İ.
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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**
Vikulina A. S., Stetsyura I. Y., ÖNSES M. S., YILMAZ E., Skirtach A. G., Volodkin D.
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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**
Vuran B., ULUSOY H. İ., SARP G., YILMAZ E., MORGÜL Ü., Kabir A., Tartaglia A., Locatelli M., SOYLAK M.
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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**
Sarıkaya M., ULUSOY H. İ., MORGÜL Ü., ULUSOY S., Tartaglia A., YILMAZ E., SOYLAK M., Locatelli M., Kabir A.
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- XXIX. **Application of magnetic nanomaterials in bioanalysis**
Yılmaz E., Sarp G., Uzcun 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**
SOYLAK M., Agirbas M., YILMAZ E.
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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., Sözdutalmaz İ., Sahmetlioglu E., Ozkara E. S., et al.
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- XXXII. **Fabrication of superhydrophobic Ag@ZnO@Bi2WO6 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., Yılmaz 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**
YUVALI D., YILMAZ E., NARIN İ.
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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**
Habla M. A., AlMasoud N., Alomar T. S., AlOthman Z. A., YILMAZ E., SOYLAK M.
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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**
Ozkantar N., YILMAZ E., SOYLAK M., TÜZEN M.
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- XXXIX. **Fabrication and characterization of SiO₂@Fe₃O₄@nanodiamonds for vortex-assisted magnetic solid-phase extraction of lead in cigarette samples prior to FAAS detection**
Saydan Kanberoglu G., YILMAZ E., SOYLAK M.
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- XL. **Solid-phase extraction of copper as 1-(2-pyridylazo)-2-naphthol (PAN) chelates on Coprinus atramentaria**
Erbaş Z., Maulana R., YILMAZ E., Ozdemir S., Kilinc E., SOYLAK M.
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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**
Köseoğlu K., ULUSOY H. İ., YILMAZ E., SOYLAK M.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, cilt.90, 2020 (SCI-Expanded)
- XLII. **TiO₂ nanoparticles and C-Nanofibers modified magnetic Fe₃O₄ nanospheres (TiO₂@Fe₃O₄@C-NF): A multifunctional hybrid material for magnetic solid-phase extraction of ibuprofen and photocatalytic degradation of drug molecules and azo dye**
YILMAZ E., Salem S., SARP G., Aydın S., Sahin K., Korkmaz I., YUVALI D.
Talanta, cilt.213, 2020 (SCI-Expanded)
- XLIII. **SERS-active hydrophobic substrates fabricated by surface growth of Cu nanostructures**
ŞAKİR M., YILMAZ E., ÖNSES M. S.
MICROCHEMICAL JOURNAL, cilt.154, 2020 (SCI-Expanded)
- XLIV. **Graphene-like MoS₂-modified magnetic C-dot nanoflowers: An efficient magnetic solid-phase extraction adsorbent for monitoring of trace amounts of ibuprofen**
YILMAZ E., SARP G.
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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., Alabdulkarem E. A., SOYLAK M.
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- XLVI. **Green synthesis of magnetic carbon nanodot/graphene oxide hybrid material (Fe₃O₄@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. **Cu₂O-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**
Aydın F., YILMAZ E., Ölmez E., SOYLAK 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 TiO₂ modified polycaprolactone electrospun nanofibers (PCL/TiO₂-Ag NFs) as a multifunctional material for SERS, photocatalysis and antibacterial applications**
Karagoz S., KİREMİTLER N. B., ŞAKİR M., Salem S., ÖNSES M. S., Sahmetlioglu E., CEYLAN A., YILMAZ E.
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- LI. **Analytical methodology for trace determination of propoxur and fenitrothion pesticide residues by**

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- LII. **A flower-like hybrid material composed of Fe₃O₄, 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 Fe₃O₄ magnetic particles including multi-walled carbon nanotubes and nanodiamonds**
ULUSOY H. İ., Gülle S., YILMAZ E., SOYLAK M.
Analytical Methods, cilt.11, sa.40, ss.5108-5117, 2019 (SCI-Expanded)
- LIV. **A hybrid material composed of multiwalled carbon nanotubes and MoSe₂ nanorods as a sorbent for ultrasound-assisted solid-phase extraction of lead(II) and copper(II)**
Menghwar P., YILMAZ E., SOYLAK M.
Microchimica Acta, cilt.186, sa.10, 2019 (SCI-Expanded)
- LV. **Separation, enrichment and spectrophotometric determination of erythrosine (E127) in drug, cosmetic and food samples by heat-induced homogeneous liquid-liquid microextraction method**
Ozkantar N., YILMAZ E., SOYLAK M., Tuzen M.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, cilt.99, sa.12, ss.1135-1147, 2019 (SCI-Expanded)
- LVI. **A new amine based microextraction of lead (II) in real water samples using flame atomic absorption spectrometry**
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- LVII. **Magnetic solid-phase extraction of quercetin on magnetic-activated carbon cloth (MACC)**
Arain M. B., YILMAZ E., HODA N., Kazi T. G., SOYLAK M.
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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**
Ulusoy S., YILMAZ E., Erbas Z., ULUSOY H. İ., SOYLAK M.
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- LIX. **Application of deep eutectic solvent in ultrasound-assisted emulsification microextraction of quercetin from some fruits and vegetables**
Kanberoğlu G. S., YILMAZ E., SOYLAK M.
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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**
Memon Z. M., YILMAZ E., Shah A. M., Kazi T. G., Devrajani B. R., SOYLAK M.
JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, cilt.16, sa.4, ss.687-694, 2019 (SCI-Expanded)
- 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/SiO₂

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- LXIV. **Deep eutectic solvent based liquid phase microextraction of nickel at trace level as its diethyldithiocarbamate chelate from environmental samples**
Erbaş 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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- LXIX. **A novel and simple deep eutectic solvent based liquid phase microextraction method for rhodamine B in cosmetic products and water samples prior to its spectrophotometric determination**
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- LXX. **Synthesis and characterization of Pd nanoparticle-modified magnetic Sm₂O₃-ZrO₂ as effective multifunctional catalyst for reduction of 2-nitrophenol and degradation of organic dyes**
YILMAZ E., TUT Y., TÜRKÖĞLU O., SOYLAK M.
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- LXXI. **Nanomaterial's based chromium speciation in environmental samples: A review**
ARAIN M. B., ALI I., YILMAZ E., SOYLAK M.
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- LXXII. **Ultrasound-assisted Supramolecular Microextraction of Copper in Water, Food, Hair, and Tobacco Samples Prior to Microsampling Flame Atomic Absorption Spectrometry**
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