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Education Information

Doctorate, Erciyes University, Eğitim Bilimleri Enstitüsü, -, Turkey 2011 - 2017

Dissertations

Doctorate, NANO METAL OKSİT VE GRAFEN BAZLI KOMPOZİTLERİN SENTEZİ, KARAKTERİZASYONU VE ESER ELEMENTLERİN KATI FAZ EKSTRAKSİYONU İLE ZENGİNLEŞTİRİLMESİNDE KULLANILMASI, Erciyes University, Fen Bilimleri Enstitüsü, -, 2017

Research Areas

Separation Methods, Food Analysis, Chromatographic Analysis, Sample preparation, Raman Spectroscopy, Spectroscopical Methods, Surface Analysis

Academic Titles / Tasks

Lecturer PhD, Erzincan Binali Yildirim University, Çayırlı Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2021 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Advancements in reusable SERS substrates for trace analysis applications**
YAVUZ E., ŞAKİR M., ÖNSES M. S., Salem S., YILMAZ E.
Talanta, vol.279, 2024 (SCI-Expanded)

II. **Removal of manganese (Mn2+) from water samples using a biocomposite sorbent**
Çalışır A., ÇAĞLAR YAVUZ S., YAVUZ E., ARAR Ö., Arda M.
Environmental Research, vol.257, 2024 (SCI-Expanded)

III. **AuNPs with Cynara scolymus leaf extracts rescue arsenic-induced neurobehavioral deficits and hippocampal tissue toxicity in Balb/c mice through D1R and D2R activation**
ÇİÇEK B., HACIMÜFTÜOĞLU A., Yeni Y., KUZUCU M., GENÇ S., Cetin A., YAVUZ E., Danısman B., LEVENT A., ÖZDOKUR

K. V., et al.
Environmental Toxicology and Pharmacology, vol.107, 2024 (SCI-Expanded)

IV. **Use of transition metal dichalcogenides (TMDs) in analytical sample preparation applications**
YILMAZ E., YAVUZ E.
Talanta, vol.266, 2024 (SCI-Expanded)

V. **Superior photocatalytic performance of ZnMoO4/Ag2WO4 for degradation of trimethoprim and methylene blue**
ÇAĞLAR YAVUZ S., YAVUZ E., ÖZDOKUR K. V.
International Journal of Environmental Analytical Chemistry, 2024 (SCI-Expanded)

VI. **Gold-Nanoparticles-Decorated ZrO2-CuO Nanocomposites: Synthesis, Characterization and A Novel Platform for Electrocatalytic Formaldehyde Oxidation**
Özdokur K. V., Koçak Ç. C., Eden Ç., Demir Z., Çırak Ç., Yavuz E., Çağlar B.
ChemistrySelect, vol.7, no.28, 2022 (SCI-Expanded)

VII. **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.
JOURNAL OF MOLECULAR STRUCTURE, vol.1223, 2021 (SCI-Expanded)

VIII. **Low bandgap microsphere-like magnetic nanocomposite: An enhanced photocatalyst for degradation of organic contaminants and fabrication of SERS-active surfaces**
Salem S., ŞAKİR M., Sahin K., Korkmaz I., Yavuz E., SARP G., ÖNSES M. S., YILMAZ E.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.589, 2020 (SCI-Expanded)

IX. **Dispersive solid-phase extraction with tannic acid functionalized graphene adsorbent for the preconcentration of trace beryllium from water and street dust samples**
Yavuz E., TOKALIOĞLU Ş., PATAT Ş.
TALANTA, vol.190, pp.397-402, 2018 (SCI-Expanded)

X. **Magnetic dispersive solid phase extraction with graphene/ZnFe2O4 nanocomposite adsorbent for the sensitive determination of mercury in water and fish samples by cold vapor atomic absorption spectrometry**
Yavuz E., TOKALIOĞLU Ş., PATAT Ş.
MICROCHEMICAL JOURNAL, vol.142, pp.85-93, 2018 (SCI-Expanded)

XI. **Core-shell Fe3O4 polydopamine nanoparticles as sorbent for magnetic dispersive solid-phase extraction of copper from food samples**
Yavuz E., TOKALIOĞLU Ş., PATAT Ş.
FOOD CHEMISTRY, vol.263, pp.232-239, 2018 (SCI-Expanded)

XII. **Treatment of geothermal waters for industrial and agricultural purposes**
KABAY N., Sozal P. Y., Yavuz E., Yuksel M., Yuksel U.
GEOTHERMAL WATER MANAGEMENT, pp.113-133, 2018 (SCI-Expanded)

XIII. **Zirconium-based highly porous metal-organic framework (MOF-545) as an efficient adsorbent for vortex assisted-solid phase extraction of lead from cereal, beverage and water samples**
TOKALIOĞLU Ş., Yavuz E., DEMİR S., PATAT Ş.
FOOD CHEMISTRY, vol.237, pp.707-715, 2017 (SCI-Expanded)

XIV. **Dispersive Solid-Phase Extraction of Rhodium from Water, Street Dust, and Catalytic Converters Using a Cellulose-Graphite Oxide Composite**
Yavuz E., TOKALIOĞLU Ş., Sahan H., Kacer M., PATAT Ş.
ANALYTICAL LETTERS, vol.50, no.1, pp.63-79, 2017 (SCI-Expanded)

XV. **Vortexing/shaking-free solid phase extraction of lead(II) by using an urchin-like NiCo2O4 hollow microsphere adsorbent**
Yavuz E., TOKALIOĞLU Ş., Sahan H., Berberoglu A., PATAT Ş.
MICROCHIMICA ACTA, vol.184, no.4, pp.1191-1198, 2017 (SCI-Expanded)

XVI. **Novel Chelating Resin for Solid-Phase Extraction of Metals in Certified Reference Materials and Waters**

Yavuz E., TOKALIOĞLU Ş., Erkilic H., Soykan C.
ANALYTICAL LETTERS, vol.50, no.2, pp.364-378, 2017 (SCI-Expanded)

XVII. **Ionic liquid coated carbon nanospheres as a new adsorbent for fast solid phase extraction of trace copper and lead from sea water, wastewater, street dust and spice samples**
TOKALIOĞLU Ş., Yavuz E., Sahan H., Colak S. G., Ocakoglu K., Kacer M., PATAT Ş.
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XVIII. **Nanosized spongelike Mn3O4 as an adsorbent for preconcentration by vortex assisted solid phase extraction of copper and lead in various food and herb samples**
Yavuz E., TOKALIOĞLU Ş., Sahan H., PATAT Ş.
FOOD CHEMISTRY, vol.194, pp.463-469, 2016 (SCI-Expanded)

XIX. **Graphite Oxide Solid-Phase Extraction of Copper(II) and Lead(II) from Water, Food, Tobacco, and Hair**
Yavuz E., TOKALIOĞLU Ş., Sahan H., Yilmaz B., PATAT Ş.
ANALYTICAL LETTERS, vol.49, no.14, pp.2193-2206, 2016 (SCI-Expanded)

XX. **Spectrophotometric determination of basic fuchsin from various water samples after vortex assisted solid phase extraction using reduced graphene oxide as an adsorbent**
Tokahoglu S., Yavuz E., Aslantas A., Sahan H., Taskin F., PATAT Ş.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.149, pp.378-384, 2015 (SCI-Expanded)

XXI. **Nano sponge Mn2O3 as a new adsorbent for the preconcentration of Pd(II) and Rh(III) ions in sea water, wastewater, rock, street sediment and catalytic converter samples prior to FAAS determinations**
Yavuz E., TOKALIOĞLU Ş., Sahan H., PATAT Ş.
TALANTA, vol.128, pp.31-37, 2014 (SCI-Expanded)

XXII. **Ultralayered Co3O4 as a new adsorbent for preconcentration of Pb(II) from water, food, sediment and tobacco samples**
Yavuz E., TOKALIOĞLU Ş., Sahan H., PATAT Ş.
TALANTA, vol.115, pp.724-729, 2013 (SCI-Expanded)

XXIII. **FAAS Determination of Ag(I) in Water, Anode Slime, Rock and Cream Samples by Solid Phase Extraction Method based on Sepabeads SP207/5-(p-Dimethylaminobenzylidene) Rhodanine Combination**
Yavuz E., TOKALIOĞLU Ş., ŞAHAN S.
JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY, vol.24, no.5, pp.736-744, 2013 (SCI-Expanded)

XXIV. **An innovative integrated system for boron removal from geothermal water using RO process and ion exchange-ultrafiltration hybrid method**
KABAY N., Koseoglu P., Yavuz E., Yuksel U., Yuksel M.
DESALINATION, vol.316, pp.1-7, 2013 (SCI-Expanded)

XXV. **Removal of boron from geothermal water by RO system-II-effect of pH**
Yavuz E., ARAR Ö., Yuksel M., Yuksel U., KABAY N.
DESALINATION, vol.310, pp.135-139, 2013 (SCI-Expanded)

XXVI. **Removal of boron from geothermal water by RO system-I-Effect of membrane configuration and applied pressure**
Yavuz E., Guler E., Sert G., ARAR Ö., Yuksel M., Yuksel U., KİTİŞ M., KABAY N.
DESALINATION, vol.310, pp.130-134, 2013 (SCI-Expanded)

XXVII. **Removal of boron from geothermal water by RO System-III-Utilization of SWRO system**
Yavuz E., ARAR Ö., Yuksel U., Yuksel M., KABAY N.
DESALINATION, vol.310, pp.140-144, 2013 (SCI-Expanded)

XXVIII. **A graphene/Co3O4 nanocomposite as a new adsorbent for solid phase extraction of Pb(II), Cu(II) and Fe(III) ions in various samples**
Yavuz E., TOKALIOĞLU Ş., Sahan H., PATAT Ş.
RSC ADVANCES, vol.3, no.46, pp.24650-24657, 2013 (SCI-Expanded)

XXIX. **A comparative study for boron removal from seawater by two types of polyamide thin film composite SWRO membranes**
Guler E., KABAY N., Yuksel M., Yavuz E., Yuksel U.
DESALINATION, vol.273, no.1, pp.81-84, 2011 (SCI-Expanded)

XXX. **Separation of Low Concentration of Fluoride from Water by Electrodialysis (ED) in the Presence of Chloride and Sulfate Ions**
ARAR Ö., Yavuz E., Yuksel U., KABAY N.
SEPARATION SCIENCE AND TECHNOLOGY, vol.44, no.7, pp.1562-1573, 2009 (SCI-Expanded)

Articles Published in Other Journals

I. **Time-dependent desalination tests for small-scale swro pilot plant installed at urla bay, Turkey**
Guler E., Yavuz E., Yuksel M., Yuksel U., KABAY N.
Journal of Membrane Science and Research, vol.4, no.3, pp.167-173, 2018 (Scopus)

II. **Editors' foreword**
Bundschuh J., Tomaszewska B.
Geothermal Water Management, 2018 (Scopus)

Metrics

Publication: 32
Citation (WoS): 491
Citation (Scopus): 874
H-Index (WoS): 14
H-Index (Scopus): 17