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Eğitim Bilgileri

Doktora, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Analitik Kimya, Türkiye 1988 - 1992

Yüksek Lisans, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Analitik Kimya, Türkiye 1983 - 1985

Lisans, Ankara Üniversitesi, Fen Fakültesi, Kimya, Türkiye 1972 - 1977

Yabancı Diller

Almanca, B1 Orta

Sertifika, Kurs ve Eğitimler

Eğitim Yönetimi ve Planlama, -, -, 1977

Yaptığı Tezler

Yüksek Lisans, Formik asid metodu ile ditiyonit üretimi, İstanbul Üniversitesi, Fen Bilimleri, Kimya, 1995

Doktora, Alümina Çözeltilerinden Galyum İyonunun Ekstraktif Metodla Elde edilmesi, İstanbul Üniversitesi, Fen Bilimleri, Kimya, 1993

Araştırma Alanları

Kimya, Analitik Kimya, Adsorpsiyon Spektroskopisi, Ayırma Teknikleri, Elektroanalitik Yöntemler, Farmasötik Analizler, Sensörler, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., İstanbul Üniversitesi, Mühendislik Fak., Kimya, 2004 - Devam Ediyor

Verdiği Dersler

Analitik Kimya, Lisans, 2014 - 2015

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Individual and Simultaneous Electrochemical Detection of Bisphenol A and Bisphenol S in Food Samples Using Triethylenetetramine Functionalized Multi-Walled Carbon Nanotubes**
Cakici M., AVAN A. A., Filik H., KÖK YETİMOĞLU E.
FOOD ANALYTICAL METHODS, cilt.16, sa.1, ss.225-237, 2023 (SCI-Expanded)
- II. **Electrochemical immunosensor for individual and simultaneous determination of Cytokeratin fragment antigen 21-1 and Neuron-specific enolase using carbon dots-decorated multiwalled carbon nanotube electrode**
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- III. **Nanotechnology-based Colorimetric Approaches for Pathogenic Virus Sensing: A Review**
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- IV. **Ethylenediamine grafted carbon nanotube aerogels modified screen-printed electrode for simultaneous electrochemical immunoassay of multiple tumor markers**
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- V. **Simultaneous Determination of Fat-Soluble Vitamins by Using Modified Glassy Carbon Electrode**
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RUSSIAN JOURNAL OF ELECTROCHEMISTRY, cilt.57, sa.8, ss.858-871, 2021 (SCI-Expanded)
- VI. **Investigation of electrochemical oxidation mechanism, rapid and low-level determination for whitening cosmetic: arbutin in aqueous solution by nano sepiolite clay**
Aydar Barutcu S., Eskikey Bayraktepe D., Yazan Z., POLAT K., Filik H.
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- VII. **Solid-phase extraction of Cr(VI) with magnetic melamine-formaldehyde resins, followed by its colorimetric sensing using gold nanoparticles modified with p-amino hippuric acid**
AVAN A. A., Filik H., Demirata B.
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- VIII. **Multi-Walled Carbon Nanotubes Magnetic Composite as an Adsorbent for Preconcentration and Determination of Trace Level Vanadium in Water Samples**
Filik H., AVAN A. A.
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- IX. **A Review on Colorimetric Sensing of Tumor Markers Based on Enzyme-Mimicking Nanomaterials**
Filik H., AVAN A. A., Tokatli Z. F.
CURRENT MEDICINAL CHEMISTRY, cilt.28, sa.30, ss.6123-6145, 2021 (SCI-Expanded)
- X. **New Trends in the Pharmacological Intervention of PPARs in Obesity: Role of Natural and Synthetic Compounds**
Filik H., AVAN A. A., ÖZYÜREK M.
CURRENT MEDICINAL CHEMISTRY, cilt.28, sa.20, ss.4023-4048, 2021 (SCI-Expanded)
- XI. **Electrochemical and Electrochemiluminescence Dendrimer-based Nanostructured Immunosensors for Tumor Marker Detection: A Review**
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CURRENT MEDICINAL CHEMISTRY, cilt.28, sa.18, ss.3490-3513, 2021 (SCI-Expanded)
- XII. **Neutral red interlinked gold nanoparticles/multiwalled carbon nanotubes modified electrochemical sensor for simultaneous speciation and detection of chromium (VI) and vanadium (V) in water samples**
Filik H., AVAN A. A.
MICROCHEMICAL JOURNAL, cilt.158, 2020 (SCI-Expanded)
- XIII. **Review on applications of carbon nanomaterials for simultaneous electrochemical sensing of environmental contaminant dihydroxybenzene isomers**

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ARABIAN JOURNAL OF CHEMISTRY, cilt.13, sa.7, ss.6092-6105, 2020 (SCI-Expanded)

- XIV. **Electrochemical immunosensors for the detection of cytokine tumor necrosis factor alpha: A review**
Filik H., AVAN A. A.
TALANTA, cilt.211, 2020 (SCI-Expanded)
- XV. **Dispersive Liquid-Liquid Microextraction Based on Ionic Liquid and Spectrophotometric Determination of Bilirubin in Biological Samples**
AVAN A. A., Filik H.
CURRENT ANALYTICAL CHEMISTRY, cilt.16, sa.5, ss.652-659, 2020 (SCI-Expanded)
- XVI. **Low-level Electrochemical Analysis of Ketoconazole by Sepiolite Nanoparticles Modified Sensor in Shampoo Sample**
Aydar S., Bayraktepe D. E., Filik H., Yazan Z.
ACTA CHIMICA SLOVENICA, cilt.67, sa.3, ss.729-738, 2020 (SCI-Expanded)
- XVII. **Visible Light Detection of Dopamine Enhanced by Cloud Point Extraction**
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- XVIII. **Electrochemical Determination of Rivastigmine Hydrogen Tartrate at beta-Cyclodextrin/Multi-Walled Carbon Nanotubes Modified Electrode**
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- XIX. **Conducting polymer modified screen-printed carbon electrode coupled with magnetic solid phase microextraction for determination of caffeine**
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FOOD CHEMISTRY, cilt.242, ss.301-307, 2018 (SCI-Expanded)
- XX. **Electrochemical Determination of Rivastigmine Hydrogen Tartrate at β -Cyclodextrin/Multi-Walled Carbon Nanotubes Modified Electrode**
Kılıçyardır B., AVAN A. A., GÜÇLÜ K., ÖZYÜREK M., FİLİK H.
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- XXI. **A Nano-Sepiolite Clay Electrochemical Sensor for the Rapid Electro-Catalytic Detection of Hydroquinone in Cosmetic Products**
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- XXII. **Simultaneous Electrochemical Determination of Vitamin K1 and Vitamin D3 by using Poly (Alizarin Red S)/Multi-walled Carbon Nanotubes Modified Glassy Electrode**
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- XXIII. **Electrochemical Determination of Nicotine Poly (Alizarin red S) Modified Graphene Screen-Printed Carbon Electrode**
Filik H., Avan A. A., Aydar S.
CURRENT NANOSCIENCE, cilt.13, sa.1, ss.92-99, 2017 (SCI-Expanded)
- XXIV. **Simultaneous Electrochemical Determination of Caffeine and Vanillin by Using Poly(Alizarin Red S) Modified Glassy Carbon Electrode**
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- XXV. **Electrochemical Determination of Vitamin B-12 in Food Samples by Poly(2,2'-(1,4-phenylenedivinylene) Bis-8 hydroxyquinoline)/Multi-Walled Carbon Nanotube-Modified Glassy Carbon Electrode**
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- XXVI. **Determination of Tocopherol Using Reduced Graphene Oxide-Nafion Hybrid-Modified Electrode in Pharmaceutical Capsules and Vegetable Oil Samples**

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- XXVIII. **Determination of Tetracycline on the Surface of a High-Performance Graphene Modified Screen-Printed Carbon Electrode in Milk and Honey Samples**
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- XXIX. **Voltammetric Sensing of Uremic Toxin Indoxyl Sulfate Using High Performance Disposable Screen-Printed Graphene Electrode**
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- XXX. **Electrochemical Determination of Brucine in Urine with a Poly(Alizarin Red S)-modified Glassy Carbon Electrode**
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- XXXI. **Poly(2,2'-(1,4-phenylenedivinylene) Bis-8-hydroxyquinaldine) Modified Glassy Carbon Electrode for the Simultaneous Determination of Paracetamol and p-Aminophenol**
Filik H., Aydar S., Avan A. A.
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- XXXII. **Poly (Rhodamine B) and MWCNTs Composite Film for the Separation and Simultaneous Voltammetric Quantification of Tryptophan, Paracetamol, Uric Acid, Dopamine and Ascorbic Acid**
Filik H., Avan A. A., Aydar S., Apak R.
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- XXXIII. **Voltammetric Sensing of Bilirubin Based on Nafion/Electrochemically Reduced Graphene Oxide Composite Modified Glassy Carbon Electrode**
Avan A. A., Aydar S., Filik H.
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- XXXIV. **Nafion/Multi-wall Carbon Nanotubes Composite Modified Glassy Carbon Electrode for Sensitive Determination of Bilirubin**
Filik H., Avan A. A., Aydar S.
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- XXXV. **Square-Wave Adsorptive Stripping Voltammetric Determination of Serotonin at Glassy Carbon Electrode Modified with Safranin O**
Filik H., Avan A. A., Aydar S.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, cilt.9, sa.6, ss.2922-2933, 2014 (SCI-Expanded)
- XXXVI. **Simultaneous Electrochemical Preconcentration and Determination of Dopamine and Uric acid by Square-Wave Adsorptive Stripping Voltammetry using a Poly(Safranin O)-Modified Glassy Carbon Electrode**
Filik H., Avan A. A., Aydar S., Arpacı R. B.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, cilt.9, sa.6, ss.2775-2789, 2014 (SCI-Expanded)
- XXXVII. **A fiber optic spectrophotometric determination of urinary indoxyl sulfate (indican) after cloud point extraction**
Filik H., Kilcan D.
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- XXXVIII. **Nafion-Graphene Composite Film Modified Glassy Carbon Electrode for Voltammetric Determination of p-Aminophenol**
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- XXXIX. **Determination of Acetaminophen in the Presence of Ascorbic Acid Using a Glassy Carbon Electrode Modified with Poly(Caffeic acid)**
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- XL. **Square-wave stripping voltammetric determination of caffeic acid on electrochemically reduced graphene oxide-Nafion composite film**
Filik H., Cetintas G., Avan A. A., Aydar S., Koc S. N., Boz I.
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- XLI. **Indirect fibre-optic colorimetric determination of ascorbic acid using 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol and cloud point extraction**
Filik H., Giray D.
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- XLII. **Electrochemical Sensing of Acetaminophen on Electrochemically Reduced Graphene Oxide-Nafion Composite Film Modified Electrode**
Filik H., Cetintas G., Avan A. A., Koc S. N., Boz I.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, cilt.8, sa.4, ss.5724-5737, 2013 (SCI-Expanded)
- XLIII. **CLOUD POINT EXTRACTION FOR THE DETERMINATION OF TRACE COPPER(H) IN ENVIRONMENTAL SAMPLES USING A NEW SYNTHESIZED REAGENT AND FLAME ATOMIC ABSORPTION SPECTROMETRY**
Yurtman-Gunduz Z., Aydin-Urucu O., Kok-Yetimoglu E., Filik H.
MACEDONIAN JOURNAL OF CHEMISTRY AND CHEMICAL ENGINEERING, cilt.32, sa.1, ss.69-78, 2013 (SCI-Expanded)
- XLIV. **Determination of Sulfite in Water and Dried Fruit Samples by Dispersive Liquid-Liquid Microextraction Combined with UV-Vis Fiber Optic Linear Array Spectrophotometry**
Filik H., Cetintas G.
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- XLV. **Colourimetric solid-phase extraction coupled with fibre optic reflectance spectroscopy for determination of ascorbic acid in pharmaceutical formulations**
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- XLVI. **Determination of Vanadium in Food Samples by Cloud Point Extraction and Graphite Furnace Atomic Absorption Spectroscopy**
Filik H., Aksu D.
FOOD ANALYTICAL METHODS, cilt.5, sa.3, ss.359-365, 2012 (SCI-Expanded)
- XLVII. **Selective Determination of Catechin among Phenolic Antioxidants with the Use of a Novel Optical Fiber Reflectance Sensor Based on Indophenol Dye Formation on Nano-sized TiO₂**
Apak R., Cekic S. D., Cetinkaya A., Filik H., Hayvali M., Kilic E.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, cilt.60, sa.11, ss.2769-2777, 2012 (SCI-Expanded)
- XLVIII. **Selective determination of catechin among phenolic antioxidants with the use of a novel optical fibre reflectance sensor based on indophenol dye formation on nano-sized TiO₂**
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- XLIX. **Cloud point extraction for speciation of iron in beer samples by spectrophotometry**
Filik H., Giray D.
FOOD CHEMISTRY, cilt.130, sa.1, ss.209-213, 2012 (SCI-Expanded)
- L. **Speciation analysis of manganese in tea samples using flame atomic absorption spectrometry after cloud point extraction**
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- LI. **Rapid detection of nitroaromatic and nitramine explosives on chromatographic paper and their reflectometric sensing on PVC tablets**

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- LII. **A novel fiber optic spectrophotometric determination of nitrite using Safranin O and cloud point extraction**

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- LIII. **Selective Determination of Copper in Water Samples by Atomic Absorption Spectrometry after Cloud Point Extraction**

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- LV. **A sensitive method for determining total vanadium in water samples using colorimetric-solid-phase extraction-fiber optic reflectance spectroscopy**

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- LVI. **Selective cloud point extraction and graphite furnace atomic absorption spectrometric determination of molybdenum (VI) ion in seawater samples**

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- LVII. **Rapid sensing of molybdenum by combined colorimetric solid-phase extraction-Reflectance spectroscopy**

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- LVIII. **Application of a ternary complex of chromium(VI) with phenylfluorone for cloud point extraction-spectrophotometric speciation of Cr(VI) and Cr(III) in aqueous solutions**

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- LX. **An optical fibre reflectance sensor for p-aminophenol determination based on tetrahydroxycalix[4]arene as sensing reagent**

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- LXIII. **Micelle mediated extraction of cadmium from water and tobacco samples with glyoxal-bis(2-hydroxyanil) and determination by electrothermal atomic absorption spectrometry**

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- LXV. **Spectrophotometric determination of 4,6-dinitro-o-cresol (DNOC) in soil and lemon juice**
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- LXVI. **Synthesis and characterization of polymeric Pd(II), Pt(IV), and Au(III) complexes of 2,2'-(1,4-phenylenedivinylene)-bis-8-hydroxyquinoline**
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- LXVII. **Spectrophotometric determination of paracetamol in urine with tetrahydroxycalix[4]arene as a coupling reagent and preconcentration with triton X-114 using cloud point extraction**
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- LXVIII. **Spectrophotometric determination of paracetamol in urine with tetrahydroxycalix[4]arene as a coupling reagent and preconcentration with Triton X-114 using cloud point extraction**
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- LXIX. **Simultaneous spectrophotometric determination of paracetamol and p-aminophenol in pharmaceutical products with Tiron using dissolved oxygen as oxidant**
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- LXXI. **Simultaneous preconcentration of vanadium(V/IV) species with palmitoyl quinolin-8-ol bonded to amberlite XAD 2 and their separate spectrophotometric determination with 4-(2-pyridylazo)-resorcinol using CDTA as masking agent**
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- LXXII. **Use of the molybdenum-thiocyanate-rhodamine 6G ternary complex for spectrophotometric molybdenum determination without extraction**
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- LXXIII. **Use of an o-aminobenzoic acid-functionalized XAD-4 copolymer resin for the separation and preconcentration of heavy metal(II) ions**
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- LXXIV. **Speciation analysis of chromium by separation on a 5-palmitoyl oxine-functionalized XAD-2 resin and spectrophotometric determination with diphenylcarbazide**
Filik H., Dogutan M., Apak R.
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- LXXVIII. **Metal ion preconcentration with amberlite XAD-2 functionalized with 5-palmitoyl-8-hydroxyquinoline and its analytical applications**
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