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Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), Turkey 1988 - 1993

Postgraduate, Ankara University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (YI) (Tezli), Turkey 1986 - 1988

Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 1981 - 1985

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Analjin (Novaljin) içeren farmasötik preparatlardaki etken maddelerin spektrofotometrik yöntemlerle miktar tayinleri, Ankara University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), 1993

Postgraduate, Efedrin hidroklorür için uygulanan spektrofotometrik tayin yöntemlerinin karşılaştırılması ve Türkiye'xxdeki farmasötik preparatlara uygulanması, Ankara University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (YI) (Tezli), 1988

Research Areas

Health Sciences

Academic Titles / Tasks

Professor, Ankara University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2002 - Continues

Associate Professor, Ankara University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 1996 - 2002

Research Assistant, Ankara University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 1987 - 1996

Academic and Administrative Experience

Head of Department, Ankara University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2021 - Continues

Ankara University, 2008 - 2011

Advising Theses

- ERK N., Amlodipin içeren farmasötik preparatlarda etken maddelerin yeni spektrofotometrik yöntemlerle analizi, Doctorate, G.TIRIS(Student), 2021
- ERK N., Bazı antidiyabetik ilaç etken maddelerinin tayini için MOS2 temelli elektrokimyasal sensörlerin geliştirilmesi, Doctorate, A.KEMAL(Student), 2021
- Erk N., Bazı antineoplastik ilaçların miktar tayinine yönelik iki boyutlu nanomateryal temelli elektrokimyasal sensörlerin tasarımı, Doctorate, E.ER(Student), 2020
- ERK N., Rasajilin ve pramipeksol içeren farmasötik dozaj formlarında etken maddelerin spektrofotometrik ve YPSK metodları ile miktar tayini, Doctorate, S.SEVİM(Student), 2019
- Erk N., Ebastin' in Spektrofotometrik Yöntemle Miktar Tayini, Postgraduate, N.DEMİRKOL(Student), 2016
- ERK N., Vortiksetin içeren farmasötik preparatlarda spektrofotometrik ve kromatografik yöntemlerle miktar tayinleri, Postgraduate, C.ALVER(Student), 2016
- ERK N., Olopatadin HCl içeren farmasötik preparatlarda analiz yöntemleri, Postgraduate, B.TOKER(Student), 2014
- Erk N., Farmasötik Preparatlarda Metformin' in Spektrofotometrik Yöntemlerle Miktar Tayini, Postgraduate, T.İNCE(Student), 2012
- Erk N., Farmasötik Preparatlarda Gabapentin'in Spektrofotometrik Yöntemlerle Miktar Tayini, Postgraduate, C.Cem(Student), 2012
- Erk N., Eprosartan ve Hidroklorotiazit'in Tabletlerde Türev Spektrofotometri ile Miktar Tayini, Postgraduate, N.UYGUNER(Student), 2010
- Erk N., Bisoprolol fumarat ve hidroklorotiazit'in aynı anda spektrofotometrik yöntemler kullanılarak miktar tayini, Postgraduate, G.ÖZCAN(Student), 2010
- Erk N., Atorvastatin ve Amlodipin İçeren Farmasötik Preparatlarda Etken Madde Miktar Tayinleri için Spektrofotometrik Yöntemler, Postgraduate, E.DAŞTAN(Student), 2008
- ERK N., Risperidon içeren preparatlarda kantitatif analiz yöntemleri, Postgraduate, E.ÇİLOĞLU(Student), 2008
- Erk N., Telmisartan İçeren Preparatlarda Spektrofotometrik Analizler, Postgraduate, E.Kivanç(Student), 2006
- ERK N., Moeksipril hidroklorür içeren farmasötik preparatlarda etkin madde miktar tayini için spektrofotometrik yöntemler, Postgraduate, T.AVŞAR(Student), 2006
- ERK N., Rizatriptan ve zolmitriptan içeren preparatlardaki etkin madde miktar tayinleri, Postgraduate, E.ÇİÇEK(Student), 2006
- Erk N., İlaç Analizi İçin Gereken Bilgilerin Temininde Web Sitelerinden Yararlanılması, Postgraduate, N.Yavuz(Student), 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of a green high-performance liquid chromatography method for tofacitinib quantification in pharmaceutical formulations and degradation studies**
TIRIS G., Genc A. A., ERK N.
BIOMEDICAL CHROMATOGRAPHY, vol.38, no.7, 2024 (SCI-Expanded)
- II. **Synthesis of cobalt selenide composite material: A novel platform of the electrochemical sensor for sensitive determination of Upadacitinib**
Genc A. A., Bouali W., Buğday N., YAŞAR S., ERK N.
Electrochimica Acta, vol.487, 2024 (SCI-Expanded)
- III. **Electrochemical Detection of Melphalan in Biological Fluids Using a g-C₃N₄@ND-COOH@MoSe₂ Modified Electrode Complemented by Molecular Docking Studies with Cellular Tumor Antigen P53**
ERK N., KURTAY G., Bouali W., Sakal Z. G., Genç A. A., Erbaş Z., SOYLAK M.
ACS Omega, vol.9, no.19, pp.21058-21070, 2024 (SCI-Expanded)
- IV. **Maximizing detection sensitivity of levofloxacin and tryptophan in dairy products: a carbon-based electrochemical sensor incorporating Ti₃AlC₂ MAX phase and activated nanodiamonds**
Kholafazadehastamal G., Khan M., SOYLAK M., ERK N.

Carbon Letters, vol.34, no.3, pp.929-940, 2024 (SCI-Expanded)

- V. **Pioneering electrochemical detection unveils erdafitinib: a breakthrough in anticancer agent determination**
Yildir M. H., Genc A. A., ERK N., Bouali W., Bugday N., YAŞAR S., Duygulu O.
MICROCHIMICA ACTA, vol.191, no.4, 2024 (SCI-Expanded)
- VI. **Simultaneous analysis of sacubitril and valsartan by novel analytical methods with green approach**
TIRIS G., Ayse Genc A., ERK N.
Microchemical Journal, vol.199, 2024 (SCI-Expanded)
- VII. **Development of a Cr₂AlC MAX phase/g-C₃N₄ composite-based electrochemical sensor for accurate cabotegravir determination in pharmaceutical and biological samples**
Bouali W., Genc A. A., ERK N., Kaya G., Sert B., Ocakoglu K.
Microchimica Acta, vol.191, no.3, 2024 (SCI-Expanded)
- VIII. **A low-cost voltammetric sensor based on multi-walled carbon nanotubes for highly sensitive and accurate determination of nanomolar levels of the anticancer drug Ribociclib in bulk and biological fluids**
Bouali W., ERK N., Genc A. A.
ANALYTICAL METHODS, vol.16, no.11, pp.1623-1630, 2024 (SCI-Expanded)
- IX. **Fabrication of ZnO-doped reduce graphene oxide-based electrochemical sensor for the determination of 2,4,6-trichlorophenol from aqueous environment**
Nawaz M., Shaikh H., Buledi J. A. A., Solangi A. R. R., KARAMAN C., ERK N., Darabi R., Camarada M. B. B.
CARBON LETTERS, vol.34, no.1, pp.201-214, 2024 (SCI-Expanded)
- X. **An Ultrasensitive Electrochemical Sensor Using Banana Peel Activated Carbon/NiFe₂O₄/MnCoFe-LDH Nanocomposites for Anticancer Drug Determination**
ERK N., Bouali W., Genc A. A., SALAMAT Q., SOYLAK M.
ACS Omega, 2024 (SCI-Expanded)
- XI. **Redefining precision in cancer Treatment: A novel electrochemical approach using bimetal oxide composites for Niraparib quantification**
Yildir M. H., KURTAY G., Bouali W., Genc A. A., ERK N.
MICROCHEMICAL JOURNAL, vol.196, 2024 (SCI-Expanded)
- XII. **A DNA biosensor strategy in monitoring of Vinorelbine breast cancer drug using catalytic effect of Pt-Pd-ZnO/SWCNTs**
Karimi-Maleh H., ERK N.
Environmental Research, vol.239, 2023 (SCI-Expanded)
- XIII. **Smart and sensitive nanomaterial-based electrochemical sensor for the determination of a poly (ADP-ribose) polymerase (PARP) inhibitor anticancer agent**
ERK N., Vural O., Bouali W., Genc A. A., Gnanasekaran L., Karimi-Maleh H.
ENVIRONMENTAL RESEARCH, vol.238, 2023 (SCI-Expanded)
- XIV. **Nanodiamond (ND)-Based ND@CuAl₂O₄@Fe₃O₄ electrochemical sensor for Tofacitinib detection: A unified approach to integrate experimental data with DFT and molecular docking**
Bouali W., KURTAY G., Genc A. A., Ahmed H. E. H., Soylak M., ERK N., Karimi-Maleh H.
ENVIRONMENTAL RESEARCH, vol.238, 2023 (SCI-Expanded)
- XV. **Development of an electrochemical biosensor for the detection of mammary gland carcinoma using molybdenum enhanced poly taurine nano-biofilms confirmed pathological findings**
Nasrollahpour H., Khalilzadeh B., Rahbarghazi R., ERK N., Rashidi M., Naseri A.
CANCER NANOTECHNOLOGY, vol.14, no.1, 2023 (SCI-Expanded)
- XVI. **A new and powerful electrochemical sensing platform based on MWCNTs@Fe₃O₄@CuAl₂O₄ for the determination of the anticancer agent Alpelisib in bulk and biological fluids**
Bouali W., ERK N., Genc A. A., AHMED H. E. H., SOYLAK M.
Microchemical Journal, vol.195, 2023 (SCI-Expanded)
- XVII. **Application of advanced environmentally benign assessment tools in determining ternary cardiovascular drug combination by RP-HPLC with analytical quality by design: Application to**

stability indicating method evaluation

Kannaiah K. P., Chanduluru H. K., Obaydo R. H., Lotfy H. M., ERK N., Krishnan M., El Hamd M. A.
Sustainable Chemistry and Pharmacy, vol.35, 2023 (SCI-Expanded)

- XVIII. **A green approach for the analysis of emtricitabine bictegravir and tenofovir in a pharmaceutical preparation using novel HPLC and spectrophotometric methods**
TIRIS G., Genc A. A., Oven E., ERK N.
Biomedical Chromatography, vol.37, no.10, 2023 (SCI-Expanded)
- XIX. **A novel and reusable sensing platform for electrochemical detection of norepinephrine based on nitrogen-doped porous carbon anchored CoFe₂O₄@NiO nanocomposite**
Mostafazadeh R., Hamidian Y., ERK N., Dragoi E. N.
Carbon Letters, vol.33, no.6, pp.1827-1837, 2023 (SCI-Expanded)
- XX. **Green and accurate analytical method for monitoring atropine in foodstuffs as a contaminant and in pharmaceutical samples**
Hamidian Y., Mostafazadeh R., ERK N., KARAMAN C., Camarada M. B., Dragoi E.
Journal of Food Measurement and Characterization, vol.17, no.5, pp.4870-4880, 2023 (SCI-Expanded)
- XXI. **Lamellar alpha-Zirconium Phosphate Nanoparticles Supported on N-Doped Graphene Nanosheets as Electrocatalysts for the Detection of Levofloxacin**
Li G., Wan X., Xia Y., Tuo D., Qi X., Wang T., Mehmandoust M., ERK N., He Q., Li Q.
ACS APPLIED NANO MATERIALS, vol.6, no.18, pp.17040-17052, 2023 (SCI-Expanded)
- XXII. **Gemcitabine drug intercalation with ds-DNA at surface of ds-DNA/Pt-ZnO/SWCNTs/GCE biosensor: A DNA-biosensor for gemcitabine monitoring confirmed by molecular docking study**
Karimi-Maleh H., ERK N.
Chemosphere, vol.336, 2023 (SCI-Expanded)
- XXIII. **Construction of a novel sensor based on activated nanodiamonds, zinc oxide, and silver nanoparticles for the determination of a selective inhibitor of cyclic guanosine monophosphate in real biological and food samples**
Bouali W., ERK N., ÖZALP Ö., SOYLAK M.
Diamond and Related Materials, vol.137, 2023 (SCI-Expanded)
- XXIV. **Modeling of adsorptive removal of azithromycin from aquatic media by CoFe₂O₄/NiO anchored microalgae-derived nitrogen-doped porous activated carbon adsorbent and colorimetric quantifying of azithromycin in pharmaceutical products**
Ameen F., Mostafazadeh R., Hamidian Y., ERK N., Sanati A. L., KARAMAN C., Ayati A.
Chemosphere, vol.329, 2023 (SCI-Expanded)
- XXV. **Green synthesis of Au@g-C₃N₄ nanocomposite using Hyssopus officinalis extract and its sensing application for vortioxetine determination**
Khoshnavaz Y., Erk E. E., Li G., Mehmandoust M., ERK N.
Environmental Science and Pollution Research, vol.30, no.33, pp.80085-80093, 2023 (SCI-Expanded)
- XXVI. **A novel atropine electrochemical sensor based on silver nano particle-coated Spirulina platensis multicellular blue-green microalga**
Ameen F., Hamidian Y., Mostafazadeh R., Darabi R., ERK N., Islam M. A., Orfali R.
Chemosphere, vol.324, 2023 (SCI-Expanded)
- XXVII. **Biomass-Derived Carbon Materials as an Emerging Platform for Advanced Electrochemical Sensors: Recent Advances and Future Perspectives**
Mehmandoust M., Li G., ERK N.
Industrial and Engineering Chemistry Research, vol.62, no.11, pp.4628-4635, 2023 (SCI-Expanded)
- XXVIII. **An electrochemical sensing platform with a molecularly imprinted polymer based on chitosan-stabilized metal@metal-organic frameworks for topotecan detection**
Mehmandoust M., TIRIS G., Pourhakkak P., ERK N., SOYLAK M., Kanberoğlu G., Zahmakiran M.
Mikrochimica acta, vol.190, no.4, pp.142, 2023 (SCI-Expanded)
- XXIX. **Algae extract delamination of molybdenum disulfide and surface modification with glycidyl methacrylate and polyaniline for the elimination of metal ions from wastewater**

- Raza S., Hameed M. U., Ghasali E., Hayat A., Orooji Y., Lin H., KARAMAN C., Karimi F., ERK N.
Environmental Research, vol.221, 2023 (SCI-Expanded)
- XXX. **Advances in technology and utilization of natural resources for achieving carbon neutrality and a sustainable solution to neutral environment**
Raza S., Ghasali E., Raza M., Chen C., Li B., Orooji Y., Lin H., KARAMAN C., Karimi Maleh H., ERK N.
Environmental Research, vol.220, 2023 (SCI-Expanded)
- XXXI. **Metal-Organic Framework Based Electrochemical Immunosensor for Label-Free Detection of Glial Fibrillary Acidic Protein as a Biomarker**
Mehmandoust M., Erk E. E., Soylak M., ERK N., Karimi F.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.62, no.11, pp.4532-4539, 2023 (SCI-Expanded)
- XXXII. **Molecularly imprinted polymer film loaded on the metal-organic framework with improved performance using stabilized gold-doped graphite carbon nitride nanosheets for the single-step detection of Fenamiphos**
Mehmandoust M., ERK N., Naser M., Soylak M.
FOOD CHEMISTRY, vol.404, 2023 (SCI-Expanded)
- XXXIII. **Mechanism of methanol decomposition on the Cu-Embedded graphene: A DFT study**
Akça A., KARAMAN O., Karimi-Maleh H., Karimi F., KARAMAN C., Atar N., Yola M. L., ERK N.
International Journal of Hydrogen Energy, vol.48, no.17, pp.6624-6637, 2023 (SCI-Expanded)
- XXXIV. **Two dimensional (2D) materials and biomaterials for water desalination; structure, properties, and recent advances**
Raza S., Ghasali E., Orooji Y., Lin H., KARAMAN C., Dragoi E. N., ERK N.
Environmental Research, vol.219, 2023 (SCI-Expanded)
- XXXV. **Innovative molecularly imprinted electrochemical sensor for the nanomolar detection of Tenofovir as an anti-HIV drug**
Mehmandoust M., Soylak M., ERK N.
TALANTA, vol.253, 2023 (SCI-Expanded)
- XXXVI. **Electrochemical Biosensors as a Novel Platform in the Identification of Listeriosis Infection**
Mehrannia L., Khalilzadeh B., Rahbarghazi R., Milani M., Saydan Kanberoglu G., Yousefi H., ERK N.
Biosensors, vol.13, no.2, 2023 (SCI-Expanded)
- XXXVII. **Low-cost voltammetric sensor based on reduced graphene oxide anchored on platinum nanoparticles for robust determination of Favipiravir in real samples**
Bouali W., ERK N., Kholafazadehastamal G., Naser M., TIRIS G.
Diamond and Related Materials, vol.131, 2023 (SCI-Expanded)
- XXXVIII. **Carbon-based photocatalysts for hydrogen production: A review**
Li Z., Li K., Du P., Mehmandoust M., Karimi F., ERK N.
CHEMOSPHERE, vol.308, 2022 (SCI-Expanded)
- XXXIX. **An Electrochemical Sensor for Molnupiravir Based on a Metal-Organic Framework Compositd with Poly(3,4-ethylene dioxythiophene): Poly(styrene sulfonate)**
ERK N., Bouali W., Mehmandoust M., Soylak M.
CHEMISTRYSELECT, vol.7, no.46, 2022 (SCI-Expanded)
- XL. **Electrochemical biosensors for stem cell analysis; applications in diagnostics, differentiation and follow-up**
Nasrollahpour H., Khalilzadeh B., Naseri A., Youse H., ERK N., Rahbarghazi R.
TRAC-TRENDS IN ANALYTICAL CHEMISTRY, vol.156, 2022 (SCI-Expanded)
- XLI. **A novel 2-dimensional nanocomposite as a mediator for the determination of doxorubicin in biological samples**
Mehmandoust M., Khoshnavaz Y., Karimi F., ÇAKAR S., ÖZACAR M., ERK N.
ENVIRONMENTAL RESEARCH, vol.213, 2022 (SCI-Expanded)
- XLII. **Determination of active ingredients in antihypertensive drugs using a novel green HPLC method approach**
TIRIS G., Mehmandoust A., Karimi F., ERK N.

- CHEMOSPHERE, vol.303, 2022 (SCI-Expanded)
- XLIII. **Electrochemical Sensing of Favipiravir with an Innovative Water-Dispersible Molecularly Imprinted Polymer Based on the Bimetallic Metal-Organic Framework: Comparison of Morphological Effects**
ERK N., Mehmandoust M., Soylak M.
BIOSENSORS-BASEL, vol.12, no.9, 2022 (SCI-Expanded)
- XLIV. **A reusable and sensitive electrochemical sensor for determination of idarubicin in environmental and biological samples based on NiFe₂O₄ nanospheres anchored N-doped graphene quantum dots composite; an electrochemical and molecular docking investigation**
Mehmandoust M., Pourhakkak P., TIRIS G., Karimi-Maleh H., ERK N.
ENVIRONMENTAL RESEARCH, vol.212, 2022 (SCI-Expanded)
- XLV. **Simultaneous determination of hydrochlorothiazide, amlodipine, and telmisartan with spectrophotometric and HPLC green chemistry applications**
TIRIS G., Mehmandoust M., Lotfy H. M., ERK N., Joo S., Dragoi E., Vasseghian Y.
CHEMOSPHERE, vol.303, 2022 (SCI-Expanded)
- XLVI. **A zinc oxide nanorods/molybdenum disulfide nanosheets hybrid as a sensitive and reusable electrochemical sensor for determination of anti-retroviral agent indinavir**
Mehmandoust M., Karimi F., ERK N.
CHEMOSPHERE, vol.300, 2022 (SCI-Expanded)
- XLVII. **The Determination of Timolol Maleate Using Silver/Tannic Acid/Titanium Oxide Nanocomposite as an Electrochemical Sensor in Real Samples**
Mehmandoust M., ÇAKAR S., ÖZACAR M., ERK N.
ELECTROANALYSIS, vol.34, no.7, pp.1150-1162, 2022 (SCI-Expanded)
- XLVIII. **A reusable and sensitive electrochemical sensor for determination of Allura red in the presence of Tartrazine based on functionalized nanodiamond@SiO₂@TiO₂; an electrochemical and molecular docking investigation**
Mehmandoust M., Pourhakkak P., Hasannia F., ÖZALP Ö., SOYLAK M., ERK N.
FOOD AND CHEMICAL TOXICOLOGY, vol.164, 2022 (SCI-Expanded)
- XLIX. **Cerium functionalized graphene nano-structures and their applications; A review**
Nemati F., Rezaie M., Tabesh H., Eid K., Xu G., Ganjali M. R., Hosseini M., KARAMAN C., ERK N., Show P., et al.
Environmental Research, vol.208, 2022 (SCI-Expanded)
- L. **The power of High Impact Amplitude Manipulation (HIAM) technique for extracting the basic spectra of two Fixed-dose combinations (FDC) - Spectrophotometric purity analysis via spectral contrast angle**
Saleh S. S. S., Lotfy H. M. M., TIRIS G., ERK N., El-Naem O. A. A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.273, 2022 (SCI-Expanded)
- LI. **Electrochemical immunosensor for rapid and highly sensitive detection of SARS-CoV-2 antigen in the nasal sample**
Mehmandoust M., GÜMÜŞ Z. P., SOYLAK M., ERK N.
Talanta, vol.240, 2022 (SCI-Expanded)
- LII. **Electrochemical Sensor for Facile and Highly Selective Determination of Antineoplastic Agent in Real Samples Using Glassy Carbon Electrode Modified by 2D-MoS₂ NFs/TiO₂ NPs**
Mehmandoust M., ÇAKAR S., ÖZACAR M., Salmanpour S., ERK N.
TOPICS IN CATALYSIS, vol.65, no.5-6, pp.564-576, 2022 (SCI-Expanded)
- LIII. **An electrochemical molecularly imprinted sensor based on CuBi₂O₄/rGO@MoS₂ nanocomposite and its utilization for highly selective and sensitive for linagliptin assay**
Mehmandoust M., ERK N., KARAMAN C., KARAMAN O.
Chemosphere, vol.291, 2022 (SCI-Expanded)
- LIV. **Dual-response electrochemical electrode for sensitive monitoring of topotecan and mitomycin as anticancer drugs in real samples**
Mehmandoust M., UZCAN F., SOYLAK M., ERK N.

Chemosphere, vol.291, 2022 (SCI-Expanded)

- LV. **Novel enzymatic graphene oxide based biosensor for the detection of glutathione in biological body fluids**
Cheraghi S., Taher M. A., Karimi-Maleh H., Karimi F., Shabani-Nooshabadi M., Alizadeh M., Al-Othman A., ERK N., Raman P. K. Y., KARAMAN C.
CHEMOSPHERE, vol.287, 2022 (SCI-Expanded)
- LVI. **Voltammetric carbon nanotubes based sensor for determination of tryptophan in the milk sample**
Mehmandoust M., ERK N., Alizadeh M., Salmanpour S.
JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION, vol.15, no.6, pp.5288-5295, 2021 (SCI-Expanded)
- LVII. **Voltammetric sensor based on bimetallic nanocomposite for determination of favipiravir as an antiviral drug**
Mehmandoust M., Khoshnavaz Y., Tuzen M., ERK N.
MICROCHIMICA ACTA, vol.188, no.12, 2021 (SCI-Expanded)
- LVIII. **Three-dimensional porous reduced graphene oxide decorated with carbon quantum dots and platinum nanoparticles for highly selective determination of azo dye compound tartrazine**
Mehmandoust M., ERK N., KARAMAN O., Karimi F., Bijad M., KARAMAN C.
FOOD AND CHEMICAL TOXICOLOGY, vol.158, 2021 (SCI-Expanded)
- LIX. **A glassy carbon electrode modified based on molybdenum disulfide for determination of folic acid in the real samples**
Alizadeh M., Mehmandoust M., Nodrat O., Salmanpour S., ERK N.
JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION, vol.15, no.6, pp.5622-5629, 2021 (SCI-Expanded)
- LX. **Sensitive and selective electrochemical detection of epirubicin as anticancer drug based on nickel ferrite decorated with gold nanoparticles**
Mehmandoust M., ERK N., KARAMAN C., Karimi F., Salmanpour S.
Micromachines, vol.12, no.11, 2021 (SCI-Expanded)
- LXI. **Voltammetric determination of linagliptin in bulk and plasma sample using an electrochemical sensor based on L-cysteine modified 1T-MoS₂ nanosheets**
Ates A. K., ÇELİKKAN H., ERK N.
MICROCHEMICAL JOURNAL, vol.167, 2021 (SCI-Expanded)
- LXII. **A novel biosensor based on graphene/platinum nanoparticles/Nafion composites for determination of glucose**
Ozbek M. A., Yaşar A., Çete S., Er E., Erk N.
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.25, no.5, pp.1601-1610, 2021 (SCI-Expanded)
- LXIII. **Trade-off efficacy and data processing strategy in the power of spectral resolution of co-formulated antihypertensive pharmaceuticals**
Rostom Y., Lotfy H. M., Ozturk M., TIRIS G., ERK N., Saleh S. S.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.247, 2021 (SCI-Expanded)
- LXIV. **An Electrochemical Nanosensor Using a Screen-Printed Electrode Modified with 1T-MoS₂/Nafion for Determination of Renin Inhibitor Aliskiren**
ER E., ERK N.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.168, no.1, 2021 (SCI-Expanded)
- LXV. **Analytical tools for greenness assessment of chromatographic approaches: Application to pharmaceutical combinations of Indapamide, Perindopril and Amlodipine**
Saleh S. S., Lotfy H. M., TIRIS G., ERK N., Rostom Y.
MICROCHEMICAL JOURNAL, vol.159, 2020 (SCI-Expanded)
- LXVI. **A novel electrochemical sensing platform based on mono-dispersed gold nanorods modified graphene for the sensitive determination of topotecan**
ER E., ERK N.
SENSORS AND ACTUATORS B-CHEMICAL, vol.320, 2020 (SCI-Expanded)
- LXVII. **Synthesis of Cysteine Modified MoS₂ Nanocomposite: A Biocompatible Electrochemical Sensor**

Material and its Application to the Determination of Antidiabetic Dapagliflozin

Ates A. K., ÇELİKKAN H., ERK N.

ELECTROANALYSIS, vol.32, no.7, pp.1480-1487, 2020 (SCI-Expanded)

- LXVIII. **Novel feature extraction approach for achieving potential spectral resolution: Green analytical application on zofenopril calcium and hydrochlorothiazide in their spectrally overlapping binary mixture**
Lotfy H. M., Monir H. H., ERK N., Rostom Y.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.230, 2020 (SCI-Expanded)
- LXIX. **Construction of a sensitive electrochemical sensor based on 1T-MoS₂ nanosheets decorated with shape-controlled gold nanostructures for the voltammetric determination of doxorubicin**
ER E., ERK N.
MICROCHIMICA ACTA, vol.187, no.4, 2020 (SCI-Expanded)
- LXX. **High-Yield Preparation of Exfoliated 1T-MoS₂ with SERS Activity**
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