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International Researcher IDs

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Education Information

Post Doctorate, University of Michigan, Faculty of Engineering, Chemical and Biengineering, United States Of America
2023 - Continues

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Analitik Kimya , Turkey 2014 - 2020

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 2011 - 2014

Undergraduate, Gazi University, Fen Fakültesi, Kimya Bölümü, Turkey 2007 - 2011

Dissertations

Postgraduate, Grafen oksidin sülfürik ve fosforik asit varlığında indirgenmesi ve elektroanalitik uygulamalarının araştırılması, Gazi University, Kore Dili ve Edebiyatı Anabilim Dalı, Kimya (YI) (Tezli), 2013

Research Areas

Analytical Chemistry

Academic Titles / Tasks

Assistant Professor, Ankara University, Biyoteknoloji Enstitüsü, Biyoteknoloji Anabilim Dalı, 2023 - Continues

Research Assistant, Ankara University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2013 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Design of an electrochemical sensing platform based on MoS₂-PEDOT:PSS nanocomposite for the detection of epirubicin in biological samples**
Er E., Ateş A. K.
Microchemical Journal, vol.189, 2023 (SCI-Expanded)
- II. **Recent advances in two dimensional nanomaterial-based electrochemical (bio)sensing platforms for trace-level detection of amino acids and pharmaceuticals**
Uçar A., Aydoğdu Tığ G., Er E.
TRAC-TRENDS IN ANALYTICAL CHEMISTRY, vol.162, 2023 (SCI-Expanded)
- III. **A portable electrochemical platform based on graphene nanosheets by metal intercalation**

engineering for anticancer drug pemetrexed sensing

ER E.

FLATCHEM, vol.33, 2022 (SCI-Expanded)

- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **High-Yield Preparation of Exfoliated 1T-MoS₂ with SERS Activity**
Er E., Hou H., Criado A., Langer J., Moller M., ERK N., Liz-Marzan L. M., Prato M.
CHEMISTRY OF MATERIALS, vol.31, no.15, pp.5725-5734, 2019 (SCI-Expanded)
- IX. **The fabrication of a highly sensitive electrochemical sensor based on AuNPs@graphene nanocomposite: Application to the determination of antidepressant vortioxetine**
Ates A. K., ER E., ÇELİKKAN H., ERK N.
MICROCHEMICAL JOURNAL, vol.148, pp.306-312, 2019 (SCI-Expanded)
- X. **Reduced graphene oxide/platinum nanoparticles/nafion nanocomposite as a novel 2D electrochemical sensor for voltammetric determination of aliskiren**
Ates A. K., ER E., ÇELİKKAN H., ERK N.
NEW JOURNAL OF CHEMISTRY, vol.41, no.24, pp.15320-15326, 2017 (SCI-Expanded)
- XI. **Room-temperature ammonia gas sensor based on reduced graphene oxide nanocomposites decorated by Ag, Au and Pt nanoparticles**
Karaduman I., Er E., Çelikkan H., Erk N., Acar S.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.722, pp.569-578, 2017 (SCI-Expanded)
- XII. **An ultra-sensitive 2D electrochemical sensor based on a PtNPs@graphene/Nafion nanocomposite for determination of alpha(1)-AR antagonist silodosin in human plasma**
ER E., ÇELİKKAN H., ERK N.
ANALYTICAL METHODS, vol.9, no.25, pp.3782-3789, 2017 (SCI-Expanded)
- XIII. **A novel electrochemical nano-platform based on graphene/platinum nanoparticles/nafion composites for the electrochemical sensing of metoprolol**
ER E., ÇELİKKAN H., ERK N.
SENSORS AND ACTUATORS B-CHEMICAL, vol.238, pp.779-787, 2017 (SCI-Expanded)
- XIV. **Cellulosic tent fabric coated with boron nitride nanosheets**
YARAŞ A., ER E., ÇELİKKAN H., DİŞLİ A., Alicilar A.
JOURNAL OF INDUSTRIAL TEXTILES, vol.45, no.6, pp.1689-1700, 2016 (SCI-Expanded)
- XV. **Highly sensitive and selective electrochemical sensor based on high-quality graphene/nafion nanocomposite for voltammetric determination of nebivolol**
ER E., ÇELİKKAN H., ERK N.
SENSORS AND ACTUATORS B-CHEMICAL, vol.224, pp.170-177, 2016 (SCI-Expanded)
- XVI. **An effective and sensitive stability-indicating chromatographic approach based on HPLC for silodosin assay**

ER E., ERK N.

JOURNAL OF ANALYTICAL SCIENCE AND TECHNOLOGY, vol.7, 2016 (SCI-Expanded)

XVII. A new generation gas sensing material based on high-quality graphene

Karaduman I., ER E., ÇELİKKAN H., ACAR S.

SENSORS AND ACTUATORS B-CHEMICAL, vol.221, pp.1188-1194, 2015 (SCI-Expanded)

XVIII. Stripping voltammetric analysis of dicofol on graphene-modified glassy carbon electrode

Kocak B., ER E., ÇELİKKAN H.

IONICS, vol.21, no.8, pp.2337-2344, 2015 (SCI-Expanded)

XIX. A new generation electrochemical sensor based on Graphene nanosheets/Gold nanoparticles/Nafion nanocomposite for determination of Silodosin

ER E., ÇELİKKAN H., ERK N., Aksu M. L.

ELECTROCHIMICA ACTA, vol.157, pp.252-257, 2015 (SCI-Expanded)

XX. A novel and highly sensitive electrochemical sensor based on a high-quality modified graphene electrode for the determination of hydrochlorothiazide in pharmaceutical formulations and human plasma

ER E., ÇELİKKAN H., Aksu M. L., ERK N.

ANALYTICAL METHODS, vol.7, no.21, pp.9254-9260, 2015 (SCI-Expanded)

XXI. An efficient way to reduce graphene oxide by water elimination using phosphoric acid

ER E., ÇELİKKAN H.

RSC ADVANCES, vol.4, no.55, pp.29173-29179, 2014 (SCI-Expanded)

Articles Published in Other Journals

I. Identification of major phenolic compounds of Aloe vera and its protective effect on ovaries under oxidative stress in diabetic rats

Kurt S., Şeker U., Yazlık M. O., Er E., Hürkul M. M., Söker S.

JOURNAL OF RESEARCH IN PHARMACY, vol.27, no.2, pp.652-664, 2023 (Peer-Reviewed Journal)

II. A sensitive surfactant-mediated spectrofluorimetric determination of chemotherapeutic agent topotecan in human serum and its investigation of DNA binding mechanism

ER E.

JOURNAL OF RESEARCH IN PHARMACY, vol.26, no.3, pp.697-703, 2022 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. Fabrication of graphene-based nanomaterials for the electrochemical drug-sensing applications

ER E., ERK N.

5th INTERNATIONAL TURKIC WORLD CONFERENCE ON CHEMICAL SCIENCES AND TECHNOLOGIES, 25 - 29 October 2019

II. The Fabrication of a New Generation and Sensitive 2D Electrochemical Sensing-platform Based on AuNPs@Graphene Nanocomposite: Application to the Determination of Antidepressant Vortioxetine in Pharmaceutical Sample

ATEŞ A. K., ER E., ÇELİKKAN H., ERK N.

3rd International Turkic World Conference on Chemical Sciences and Technologies, Baku, Azerbaijan, 10 - 13 September 2017

III. Simultaneous analysis of a binary mixture of pharmaceuticals containing lercanidipine and olmesartan medoxomil by novel two spectrophotometric methods

ŞAHİN E., ATEŞ A. K., ER E., ERK N.

17th Hellenic Symposium on Medicinal Chemistry (HSMC-17), 1 - 03 June 2017

IV. SIMULTANEOUS ANALYSIS OF A BINARY MIXTURE OF PHARMACEUTICALS CONTAINING

LERCANIDIPINE AND OLMESARTAN MEDOXOMIL BY NOVEL TW SPECTROPHOTOMETRIC METHODS

Egemen Ş., ATEŞ A. K., ER E., ERK N.

17th Hellenic Symposium on Medicinal Chemistry, Selanik, Greece, 1 - 03 June 2017

- V. **Novel ratio subtraction and first derivative spectrophotometric methods for the assay of lercanidipine in the presence enalapril maleate**
ŞAHİN E., ER E., ERK N.
17th Hellenic Symposium on Medicinal Chemistry (HSMC-17), 1 - 03 June 2017
- VI. **Development of sensitive and reliable spectrophotometric methods for the determination of vortioxetine in pharmaceutical preparations**
ALVER C., ER E., ERK N.
17th Hellenic Symposium on Medicinal Chemistry (HSMC-17), 1 - 03 June 2017
- VII. **DEVELOPMENT OF SENSITIVE FIRST DERIVATIVE SPECTROPHOTOMETRIC METHODS FOR THE QUANTITATIVE DETERMINATION OF ROSUVASTATINE IN PHARMACEUTICALSAMPLES**
KOCABIYIK H., ATEŞ A. K., ER E., ERK N.
17th Hellenic Symposium on Medicinal Chemistry, Selanik, Greece, 1 - 03 June 2017
- VIII. **An effective and sensitive high performance liquid chromatography for determination of H1 antihistaminic ebastine in pharmaceutical sample**
ER E., ATEŞ A. K., ERK N.
17th Hellenic Symposium on Medicinal Chemistry (HSMC-17), 1 - 03 June 2017
- IX. **Development of sensitive derivative spectrophotometric methods for the quantitative determination of rosuvastatine in pharmaceutical samples**
KOCABIYIK H., ATEŞ A. K., ER E., ERK N.
17th Hellenic Symposium on Medicinal Chemistry (HSMC-17), 1 - 03 June 2017
- X. **Development of sensitive analytical approaches based on spectrofluorimetric and high performance liquid chromatographic methods for the determination of tenofovir in pharmaceutical preparations**
ÇİLOĞLU E., ER E., ERK N.
17th Hellenic Symposium on Medicinal Chemistry (HSMC-17), 1 - 03 June 2017
- XI. **Novel Spectrophotometric Methods for Simultaneous Determination of Abacavir and Lamivudine in Binary Mixture and Pharmaceutical Dosage Form**
TIRIS G., ER E., ERK N.
2nd International Turkic World Conference on Chemical Sciences and Technologies, 26 - 30 October 2016
- XII. **Graphene Pt nanoparticles nafion nanocomposite as a novel electrochemical sensor for voltammetric determination of aliskiren**
ATEŞ A. K., ER E., ERK N.
3rd International Congress On Biosensors, 5 - 07 October 2016
- XIII. **An ultra sensitive PtNPs Graphene Nafion electrochemical sensing platform for detection of silodosin in human plasma**
ER E., ÇELİKKAN H., ERK N.
3rd International Congress on Biosensors, 5 - 07 October 2016
- XIV. **A Novel and Sensitive Chromatographic Method Based on HPLC for Simultaneous Determination of Abacavir and Lamivudine in Pharmaceutical Dosage Form**
TIRIS G., ER E., ERK N.
10th Aegean Analytical Chemistry Days, 29 September - 02 October 2016
- XV. **Highly sensitive electrochemical nano platform based on graphene platinum nanoparticles nafion composites for the electrochemical sensing of metoprolol**
ER E., ÇELİKKAN H., ERK N.
11th International Symposium on Electrochemical Micro & Nanosystem Technologies, 17 - 19 August 2016
- XVI. **GRAFENİN ELEKTROKİMYASAL SENSÖR UYGULAMALARINDAKİ ÖNEMİ VE ÇEŞİTLİ İLAÇ UYGULAMALARI**
ER E., ÇELİKKAN H., ERK N.
IV. Eser Analiz Kongresi, Turkey, 19 - 22 May 2016

- XVII. **Analytical methods for quantitative determination of Olopatadine hydrochloride in pharmaceutical preparation**
TOKER B., ER E., ERK N.
7th Black Sea Basin Conference on Analytical Chemistry, 10 - 15 September 2015
- XVIII. **Spectrophotometric methods for the simultaneous estimation of ezetimibe and rosuvastatin in a binary mixture**
ER E., ERK N.
7th Black Sea Basin Conference on Analytical Chemistry, 10 - 15 September 2015
- XIX. **The importance of graphene in electrochemical sensor applications and a novel graphene based nanosensing material for the determination of nebivolol**
ER E., ÇELİKKAN H., ERK N.
Euroanalysis 2015, 6 - 10 September 2015
- XX. **A novel approach based on spectrofluorimetry for the determination of Silodosin in pharmaceutical dosage forms**
ER E., ERK N.
Colloquium Spectroscopicum Internationale XXXIX, 30 August - 03 September 2015
- XXI. **Etkili bir yöntem ile grafen temelli elektrokimyasal nano platformların oluşturulması ve bazı ilaç uygulamaları**
ER E., ÇELİKKAN H., ERK N.
27. Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015
- XXII. **Antidiyabetik etkili metformin in spektrofotometrik yöntemlerle miktar tayini**
ER E., ERK N.
14. Ulusal Spektroskopi Kongresi, Turkey, 29 - 31 May 2015

Metrics

Publication: 45

Citation (WoS): 499

Citation (Scopus): 523

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