

## Res. Asst. PhD ZEHRA CEREN ERTEKİN ÖZKAN

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: H-2203-2017

ScopusID: 57220765492

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### Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), Turkey 2014 - 2021

Undergraduate, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey 2008 - 2013

Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 2007 - 2012

### Dissertations

Doctorate, Sülfonamidleri içeren farmasötik preparatlardaki etkin maddelerin cevap yüzey metodolojisine dayanan aşırı performanslı sıvı kromatografisi ile miktar tayinleri, Ankara University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), 2021

### Research Areas

Analytical Chemistry, Analytical Chemistry

### Academic Titles / Tasks

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

### Published journal articles indexed by SCI, SSCI, and AHCI

- Two-way and three-way resolutions of fluorescence excitation-emission dataset for the co-estimation of two pharmaceuticals in a binary mixture**  
DİNÇ E., Ertekin Z. C., BIYIK E.  
CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS, vol.239, 2023 (SCI-Expanded)
- Two- and Three-Dimensional Strategies for Determining Consecutive Acidity Constants of Ciprofloxacin and Enrofloxacin Using Fluorescent Excitation-Emission Measurements**

Dinç E., Yazan Z., Ertekin Z. C., Yıldız C.

CHEMISTRYSELECT, vol.8, no.27, 2023 (SCI-Expanded)

- III. **A Chemometric Strategy in the Development of a RP-UPLC Method for the Quantitative Resolution of a Two-Component Syrup Formulation**  
Rouhani G., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
JOURNAL OF CHROMATOGRAPHIC SCIENCE, vol.60, no.10, pp.937-945, 2022 (SCI-Expanded)
- IV. **Two Different Strategies Based on Three-Way Analysis Models of UV Spectroscopic and Spectrochromatographic Measurements to Quantify the Acidity Constant of Acetylsalicylic Acid**  
DİNÇ E., ERTEKİN ÖZKAN Z. C.  
CHEMISTRYSELECT, vol.7, no.19, 2022 (SCI-Expanded)
- V. **A novel strategy on the spectrochromatographic analysis of a quaternary mixture by parallel factor analysis model**  
DİNÇ E., ERTEKİN ÖZKAN Z. C., BIYIK E.  
BIOMEDICAL CHROMATOGRAPHY, vol.36, no.3, 2022 (SCI-Expanded)
- VI. **Multiway resolution of spectrochromatographic measurements for the quantification of echinuline in marine-derived fungi *Aspergillus chevalieri* using parallel factor analysis**  
ERTEKİN ÖZKAN Z. C., Heydari H., KONUKLUGİL B., DİNÇ E.  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.1193, 2022 (SCI-Expanded)
- VII. **Comparative Study of the Quantitative Resolution of Paracetamol and Methocarbamol Mixture by Spectrophotometry with Wavelet Transform and UPLC Techniques**  
GÜZEL R., ERTEKİN ÖZKAN Z. C., ZİYADANOĞULLARI B., DİNÇ E., ZİYADANOĞULLARI R.  
PHARMACEUTICAL CHEMISTRY JOURNAL, vol.55, no.10, pp.1126-1132, 2022 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Complexometric determination of paracetamol with CuSO<sub>4</sub> in tablets and syrup formulations using parallel factor analysis**  
TEĞİN İ., CANPOLAT G., ERTEKİN ÖZKAN Z. C., Güçlü N., DİNÇ E.  
Fourth International Conference on New Trends in Chemometrics and Applications” (NTCA-2019), 30 April - 01 May 2019
- II. **Simultaneous Estimation of Desloratadine and Its pKa Value by PARAFAC Analysis of pH-Spectra Dataset**  
DİNÇ E., Ünal N., ERTEKİN ÖZKAN Z. C.  
4th International Conference on New Trends in Chemometrics and Applications, 01 May 2019
- III. **Analysis of Three-Dimensional pH-Spectral Data for The Quantitation of an Analyte and Estimation of Its pKa Value in Presence of Interferences**  
Şen B., ÜSTÜNDAĞ Ö., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends on chemometrics and Applications, 1 - 04 May 2019
- IV. **Parallel Factor Analysis of Voltammetric Data Arrays for The Enrofloxacin's pKa Prediction Using Cyclic and Square Wave Voltammetry**  
Şen B., ÜSTÜNDAĞ Ö., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends on chemometrics and Applications, 1 - 04 May 2019
- V. **Spectrophotometric and Liquid Chromatographic pKa Determination of Aspirin by Parallel Factor Analysis**  
GÜZEL R., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends on chemometrics and Applications, 1 - 04 May 2019
- VI. **Concurrent Analysis of Nebivolol and Hydrochlorothiazide in Tablets Using Mexican-Hat Wavelet**  
GÜZEL R., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends on chemometrics and Applications, 1 - 04 May 2019

- VII. **Chemometric pKa Determination of Ciprofloxacin by PARAFAC Application to Cyclic and Square Wave Voltammetric Data Analysis**  
Şen B., ÜSTÜNDAĞ Ö., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends on chemometrics and Applications, 1 - 04 May 2019
- VIII. **Application of Trilinear Parallel Factor Analysis Technique to the pH Spectra Dataset for Determination of Benzoic Acid's pKa Value**  
SELİMOĞLU F., Ünal N., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends in Chemometrics and Applications, 1 - 04 May 2019
- IX. **Simultaneous Chemometric Determination of Nebivolol and Hydrochlorothiazide in Tablets by PCR and PLS Techniques**  
Şen B., ÜSTÜNDAĞ Ö., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends on chemometrics and Applications, 1 - 04 May 2019
- X. **Spectrofluorimetric Determination of Telmisartan and Amlodipine by Multivariate Curve Resolution**  
Şen B., ÜSTÜNDAĞ Ö., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends on chemometrics and Applications, 1 - 04 May 2019
- XI. **Determination of Chlorogenic Acid in *Melampyrum Arvense* var. *elatius* in Presence of Sample Matrix Interferences Using PARAFAC Resolution Model**  
TEĞİN İ., CANPOLAT G., DİNÇ E., ERTEKİN ÖZKAN Z. C., Güçlü N.  
4th International Conference on New Trends in Chemometrics and Applications, 1 - 04 May 2019
- XII. **Spectrophotometric Quantitation of Nebivolol and Hydrochlorothiazide by Artificial Neural Network**  
Şen B., ÜSTÜNDAĞ Ö., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends on chemometrics and Applications, 1 - 04 May 2019
- XIII. **Spectrofluorimetric Determination of pKa Values of Ciprofloxacin and Enrofloxacin by Analysis of Excitation-Emission Dataset**  
GÜZEL R., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends on chemometrics and Applications, 1 - 04 May 2019
- XIV. **Artificial Neural Network for Simultaneous The Quantitative Spectrophotometric Determination of Amlodipine and Rosuvastatine**  
GÜZEL R., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends on chemometrics and Applications, 1 - 04 May 2019
- XV. **Quantitative Estimation of Active Compounds in a Binary Mixture by Signal Processing Method**  
GÜZEL R., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
4th International Conference on New Trends on chemometrics and Applications, 1 - 04 May 2019
- XVI. **A New Application of Three-Way PARAFAC Model to UPLC-PDA Data for the Quantitative Estimation of Ascorbic Acid, Acetaminophen and Aspirin in Tablets with Second-Order Advantage**  
DİNÇ E., Bükür E., ERTEKİN ÖZKAN Z. C.  
29th International Symposium on Pharmaceutical and Biomedical Analysis (PBA-2018), 9 - 12 September 2018
- XVII. **Simultaneous Spectrophotometric Determination of Dexketoprofen Trometamol and Paracetamol in Tablets by Partial Least Squares and Principal Component Analysis Calibration Methods**  
DİNÇ E., ERTEKİN ÖZKAN Z. C.  
29th International Symposium on Pharmaceutical and Biomedical Analysis (PBA-2018), 9 - 12 September 2018
- XVIII. **Simultaneous Determination of Atenolol and Chlorthalidone in Tablets by PLS and PCR Methods**  
DİNÇ E., ERTEKİN ÖZKAN Z. C.  
12th International Symposium on Pharmaceutical Sciences (ISOPS-12), 26 - 29 June 2018, pp.240
- XIX. **Determination of Ciprofloxacin in an Ophthalmic Solution by Derivative Spectrophotometric Method**  
DERMİŞ S., Kılıç S., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
12th International Symposium on Pharmaceutical Sciences (ISOPS-12), 26 - 29 June 2018, pp.265
- XX. **Multicomponent Analysis of Rosuvastatin and Amlodipin by Partial Least Squares and Principle Component Regression**  
ERTEKİN ÖZKAN Z. C., DİNÇ E.  
12th International Symposium on Pharmaceutical Sciences (ISOPS-12), 26 - 29 June 2018, pp.278

- XXI. **PLS and PCR Calibration Models for Spectral Analysis of Atorvastatin and Ezetimibe**  
DİNÇ E., ERTEKİN ÖZKAN Z. C.  
12th International Symposium on Pharmaceutical Sciences (ISOPS-12), 26 - 29 June 2018, pp.239
- XXII. **Use of Daubechies Wavelet Family for the Analysis of Atenolol and Chlorthalidone in Tablets**  
ERTEKİN ÖZKAN Z. C., DİNÇ E., Ardiç A. H.  
12th International Symposium on Pharmaceutical Sciences (ISOPS-12), 26 - 29 June 2018, pp.277
- XXIII. **Chemometric Optimization Approach for a New Voltammetric Quantitation of Cefdinir in Pharmaceutical Formulations**  
DERMİŞ S., DİNÇ E., Akçasoy S., ERTEKİN ÖZKAN Z. C.  
International Congress on Chemistry and Materials Science, 5 - 07 October 2017
- XXIV. **Spectrofluorimetric determination of valsartan and amlodipine in a binary mixture using PARAFAC model**  
DİNÇ E., ERTEKİN ÖZKAN Z. C., Büker E.  
Recent Developments in Pharmaceutical Analysis (RDPA 2017), 20 - 23 September 2017
- XXV. **Simultaneous determination of estradiol valerate and cyproterone acetate in tablets by ultra-performance liquid chromatography**  
DİNÇ E., ERTEKİN ÖZKAN Z. C., Kaş F.  
Recent Developments in Pharmaceutical Analysis (RDPA 2017), 20 - 23 September 2017
- XXVI. **Ultra-performance liquid chromatography for the quantification of guaifenesin and pseudoephedrine hydrochloride in a syrup preparation using experimental design and optimization**  
Rouhani G., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
İVEK 3. Uluslararası İlaç ve Eczacılık Kongresi, 26 - 29 April 2017
- XXVII. **Bivariate and Multivariate Calibration Approaches for the Spectrophotometric Multicomponent Analysis of Rosuvastatin and Amlodipine in a Solid Dosage Form**  
ERTEKİN ÖZKAN Z. C., DİNÇ E., Güzel Ö. F.  
10th Aegean Analytical Chemistry Days, 29 September - 02 October 2016
- XXVIII. **Three Way resolution of poor chromatographic separation for the quantification of caffeic acid and chlorogenic acid in Crithmum maritimum L**  
KÖROĞLU A., DİNÇ E., ERTEKİN ÖZKAN Z. C., HÜRKUL M. M.  
Third international conference on new trends in chemometrics and applications, 25 - 28 May 2016
- XXIX. **Chromatographic least squares regression analysis for verbascoside in Aloysia citriodora Palau using UPLC method**  
KENDİR G., KÖROĞLU A., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XXX. **Simultaneous Quantitative Determination of a Two Component Mixture with Trilinear PLS Algorithm**  
DİNÇ E., Büker E., ERTEKİN ÖZKAN Z. C.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XXXI. **Three Way Analysis of a Binary Mixture with PARAFAC Decomposition Model**  
DİNÇ E., ERTEKİN ÖZKAN Z. C.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XXXII. **Continuous Wavelet Transforms for Spectral Quantitation of Amlodipine and Rosuvastatin in Marketed Tablets**  
DİNÇ E., ERTEKİN ÖZKAN Z. C., ÜSTÜNDAĞ Ö.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XXXIII. **Application of Tucker3 Model to the Spectrofluorimetric Data for the Quantitation of an Antihypertensive Drug Combination**  
DİNÇ E., Büker E., ERTEKİN ÖZKAN Z. C.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XXXIV. **Reversed Phase Ultra Performance Liquid Chromatographic Approach for The Simultaneous Quantitative Analysis of Ephedrine and Guaifenesin in A Syrup Formulation Using Chemometric Optimization Technique**

- Rouhani G., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XXXV. **Development of a UPLC Method by Experimental Design and Optimization for Simultaneous Quantification of Isoniazid and Pyridoxine**  
Tokar F., Büker E., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XXXVI. **A Chemometric Optimization Approach for the Chromatographic Quantification of Domperidone and Lansoprazole in a Commercial Formulation**  
VARHAN ORAL E., ERTEKİN ÖZKAN Z. C., Büker E., DİNÇ E.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XXXVII. **Chromatographic Least Squares Regression Analysis for Verbascozide in Aloysia citriodora Palau Using UPLC Method**  
Kendir G., KÖROĞLU A., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XXXVIII. **One Dimensional Continuous Wavelet Transform Approaches to the Simultaneous Determination of Domperidone and Lansoprazole in Tablets**  
ERTEKİN ÖZKAN Z. C., Büker E., VARHAN ORAL E., ZİYADANOĞULLARI B., TEMEL H., ZİYADANOĞULLARI R., DİNÇ E.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XXXIX. **Simultaneous Determination of Clorsulon and Ivermectin in Veterinary Injectable Preparation by Wavelet Transform Approach**  
DİNÇ E., ERTEKİN ÖZKAN Z. C., Parlak Y.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XL. **Spectrophotometric analysis of lipid lowering combination tablet by bivariate and multivariate calibration techniques**  
DİNÇ E., ERTEKİN ÖZKAN Z. C., Singeç S.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XLI. **An Application of Trilinear PARAFAC Method to the UPLC PDA Data Array to the Simultaneous Quantitative Analysis of a Two Component Mixture**  
GÜZEL R., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XLII. **Three Way Resolution of Poor Chromatographic Separation for the Quantification of Caffeic Acid and Chlorogenic Acid in Crithmum maritimum L**  
KÖROĞLU A., DİNÇ E., ERTEKİN ÖZKAN Z. C., HÜRKUL M. M.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XLIII. **Multivariate Optimization Approach to the Microextraction Conditions for the Quantitation of Clioquinol in Ointment**  
Teğin İ., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XLIV. **Simultaneous Quantitative Analysis of a Ternary Mixture with PARAFAC Decomposition**  
DİNÇ E., ERTEKİN ÖZKAN Z. C., Büker E.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XLV. **Univariate Calibration Model for the Chromatographic Analysis of Pantoprazole in Tablets**  
DERMİŞ S., Büker E., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XLVI. **Quantitative Analysis of a Pharmaceutical Preparation Containing Atorvastatin and Ezetibime by Spectral Continuous Wavelet Transform Method**  
ÜSTÜNDAĞ Ö., ERTEKİN ÖZKAN Z. C., DİNÇ E.  
Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016
- XLVII. **Application of Three Different Wavelet Families for The Quantitative Resolution of Paracetamol and Methocarbamol in Tablets**

GÜZEL R., ERTEKİN ÖZKAN Z. C., ZİYADANOĞULLARI B., DİNÇ E., ZİYADANOĞULLARI R.

Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016

**XLVIII. PARAFAC Approach to Spectrochromatographic Array for the Quantitative Resolution of a Two Component Mixture Containing Isoniazid and Pyridoxine Hydrochloride**

DİNÇ E., ERTEKİN ÖZKAN Z. C., BÜKER E., TOKAR F.

Third International Conference on New Trends in Chemometrics and Applications (NTCA-2016), 25 - 28 May 2016

**XLIX. Simultaneous Determination of Clorsulon and Ivermectin in Veterinary Injectable Preparation by a New UPLC Method**

DİNÇ E., ERTEKİN ÖZKAN Z. C., ÖREN Y. E.

International Eurasia Pharmacy Congress, 3 - 07 September 2015

**L. Ultra Performance Liquid Chromatography For The Determination Of Omeprazol In A Capsule Dosage Form**

DERMİŞ S., ERTEKİN ÖZKAN Z. C., BÜKER E., DİNÇ E.

International Symposium on Pharmaceutical Sciences, 9 - 12 June 2015

**LI. Simultaneous Quantitative Determination of Hydrochlorothiazide and Olmesartan Medoxomil in Tablets by a New UPLC Method**

ERTEKİN ÖZKAN Z. C., DİNÇ E.

International Symposium on Pharmaceutical Sciences, 9 - 12 June 2015

**LII. Deneysel Tasarım ve Optimizasyon Kullanılarak Aşırı Yüksek Basınçlı Sıvı Kromatografisi Yöntemi ile Hidroklorotiyazid ve Bisoprolol İçeren Farmasötik Preparatın Kantitatif Analizi**

DİNÇ E., ERTEKİN ÖZKAN Z. C., ROUHANI G.

III. Eser Analiz Çalıştayı (EsAn-2014), Turkey, 15 - 18 May 2014

**LIII. Hidroklorotiyazid-Bisoprolol Kombinasyonunu İçeren Tabletlerin Sürekli Dalgacık Dönüşüm Yöntemleri ile Miktar Tayinleri**

DİNÇ E., ROUHANI G., ERTEKİN ÖZKAN Z. C.

III. Eser Analiz Çalıştayı (EsAn-2014), Turkey, 15 - 18 May 2014

**LIV. Stability studies on piroxicam loaded niosomes**

ERTEKİN ÖZKAN Z. C., SEZGİN BAYINDIR Z., YÜKSEL N.

International Symposium on Pharmaceutical Sciences ISOPS 10th, 26 - 29 June 2012

## Metrics

Publication: 78

Citation (WoS): 99

Citation (Scopus): 134

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H-Index (Scopus): 7

## Scholarships

Doktora Sonrası Araştırma Bursu, TÜBİTAK, 2022 - 2023