

CURRICULUM VITAE

Name and Surname : ERDAL DİNÇ
Date of Birth : June 3, 1963
Place of Birth : Iğın
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I) EDUCATION :

University	Department	Years	Degree
Gazi University, Ankara	Chemistry	1982-1986	B.Sc.
Ankara University, Ankara	Analytical Chemistry	1986-1989	M.Sc.
Ankara University, Ankara	Analytical Chemistry	1989-1996	Ph.D.

II) EMPLOYMENT :

Professor of Analytical Chemistry, Ankara University, Faculty of Pharmacy,
Department of Analytical Chemistry, Tandoğan 06100, Ankara, Turkey

III) WORK EXPERIENCE :

University	Department	Position	Years
Ankara University	Analytical Chemistry	Res. Assist.	1988-1996
Ankara University	Analytical Chemistry	Dr. Res. Assist.	1996-2000
Ankara University	Analytical Chemistry	Assist. Prof.	2000-2004
Ankara University	Analytical Chemistry	Assoc. Prof.	2004-2009
Ankara University	Analytical Chemistry	Prof.	2009-

IV) TEACHING EXPERIENCE:

- General Chemistry
- Analytical Chemistry
- Analytical Chemistry Laboratory
- Physical Chemistry
- Chemometrics
- Instrumental Analysis
- Thermodynamics
- Experimental Design and Optimization
- Instrumental Analysis

V) **TOTAL CITATIONS: 12166**

VI) **H-index = 26**

VII) **AWARDS :**

- Ankara University Scientific Award, (2010).
- The best paper award (2010), “Wavelet Transforms and Artificial Neural Network For The Quantitative
- Resolution of Ternary Mixtures”, *Revista de Chimie*, 57 (6), 626-631 (2006).

VIII) **GRADUATE STUDENTS (Supervising):**

14 M.Sc. students (2 in progress)

7 Ph.D. students (5 in progress)

IX) **MAIN RESEARCH INTERESTS:**

- Drug analysis
- Food analysis
- Plant analysis
- HPLC, UPLC
- UV-VIS Spectrophotometry and IR Spectrophotometry
- Chemometrics

X) **SECTIONS IN A SCIENTIFIC BOOK:**

1. Murat Kanbur, Ibrahim Narin, Esra Ozdemir, **Erdal Dinç**, (2010) “Fractional Wavelet Transform for the Quantitative Spectral Analysis of Two-Component System” *New Trends in Nanotechnology and Fractional Calculus*,321-331,**Springer**
2. Mustafa Çelebier, Sacide Altınöz, **Erdal Dinç**, (2010) “Fractional wavelet transform and chemometric calibrations for the simultaneous determination of amlodipine and valsartan in their complex mixture” *New Trends in Nanotechnology and Fractional Calculus*,333-340,**Springer**
3. **Erdal Dinç** and Dumitru Baleanu, (2007) “A review on the wavelet transform applications in analytical chemistry” *Mathematical Methods in Engineering*, 265-285, **Springer**
4. A.Hakan Aktaş, **Erdal Dinç**, Güzide Pekcan, Özgür Üstündağ, Ayşegül Taş, (2007) Applications of Wavelets: Wavelet transform for the simultaneous predictions of the colorants in food products, *Mathematical Methods in Engineering*, 257-284. **Springer**
5. İncilay Süslü, **Erdal Dinç** and Sacide Altınöz, (2007)“An application of continuous wavelet transform to electrochemical signals for the quantitative analysis” *Mathematical Methods in Engineering*, 303-315, **Springer**
6. **Erdal Dinç**, Dumitru Baleanu, Kenan Taş, (2007) “Continuous wavelet analysis for the ratio signals of the absorption spectra of binary mixtures, *Mathematical Methods in Engineering*, 285-293, **Springer**
7. **Erdal Dinç**, Dumitru Baleanu, Kenan Taş, (2007) “Continuous wavelet analysis for the ratio signals of the absorption spectra of binary mixtures, *Mathematical Methods in Engineering*, 285-293, **Springer**

XI) LIST OF PUBLICATIONS

- 1.** Erdal Dinç, Zehra Ceren Ertekin, Eda Bükler. Multiway analysis methods applied to the fluorescence excitation-emission dataset for the simultaneous quantification of valsartan and amlodipine in tablets, *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 184, pp. 255-261, (2017).
- 2.** Ghazal Rouhani, Zehra Ceren Ertekin, **Erdal Dinç**. A New UPLC Approach for the Quantitation of Ephedrine and Guaifenesin in a Syrup Formulation Using Multivariate Optimization Strategy, *Journal of Liquid Chromatography & Related Technologies*, 40 (7), pp. 333-339 (2017).
- 3.** **Erdal Dinç**, Ebru Saygeçitli, Zehra Ceren Ertekin, Simultaneous determination of atenolol and chlorthalidone in tablets by wavelet transform methods, *Fabad Journal of Pharmaceutical Sciences*, 42 (2), pp. 103-109, (2017).
- 4.** Fatma Turak, Remziye Güzel, **Erdal Dinç**. Simultaneous determination of ascorbic acid and caffeine in commercial soft drinks drinks using reversed-phase ultraperformance liquid chromatography, *Journal of Food and Drug Analysis*, 25 (2), pp. 285-292 (2017).
- 5.** **Erdal Dinç**, Özgür Üstündağ, Günseli Yüksel Tilkan, Berna Türkmen, Nurten Özdemir, Continuous wavelet transform methods for the simultaneous determinations and dissolution profiles of valsartan and hydrochlorothiazide in tablets, *Brazilian Journal of Pharmaceutical Sciences*, 53 (1), e16050, (2017).
- 6.** Eda Bükler, **Erdal Dinç**. A New UPLC Method with Chemometric Design-Optimization Approach for the Simultaneous Quantitation of Brimonidine Tartrate and Timolol Maleate in an Eye Drop Preparation, *Journal of Chromatographic Science*, 55(2): 154-161 (2017).
- 7.** **Erdal Dinç**, Zehra Ceren Ertekin, Eda Bükler. Two-way and three-way approaches to ultra high performance liquid chromatography–photodiode array dataset for the quantitative resolution of a two-component mixture containing ciprofloxacin and ornidazole, *Journal of Separation Science*, 39(18):3488-3497, (2016).
- 8.** Elif Varhan Oral, Berrin Ziyadanoğulları, Fırat Aydın, **Erdal Dinç**, Recep Ziyadanoğulları. ICP-OES method for the determination of Fe, Co, Mn, Cu, Pb, and Zn in ore samples from the Keban Region using experimental design and optimization methodology. *Atomic Spectroscopy* 37(4):142-149, (2016).
- 9.** Şevket Ata, Mehmet Akyüz, **Erdal Dinç**. Chemometric approach to the optimisation of LC-FL and GC-MS methods for the determination of nitrite and nitrate in some biological, food and environmental samples. *International Journal of Environmental Analytical Chemistry* 96 (7), 636-652, (2016).
- 10.** **Erdal Dinç** and Eda Bükler. Parallel factor analysis and trilinear partial least squares applied to the UPLC-PDA data array for the quantification of brimonidine tartrate and timolol maleate in an eye drop formulation. *Journal of Liquid Chromatography & Related Technologies* 39 (7) 374-383, (2016).

11. **Erdal Dinç** and Zehra Ceren Ertekin, Three-way analysis of the UPLC–PDA dataset for the multicomponent quantitation of hydrochlorothiazide and olmesartan medoxomil in tablets by parallel factor analysis and three-way partial least squares, *Talanta* 148, 144-152, (2016).
12. Gülsen Kendir, **Erdal Dinç**, Ayşegül Köroğlu, Quantitative Analysis of *Melissa officinalis* L. Samples by Chromatographic Multivariate Calibration Methods, *Chromatographia* 79 (3-4), 189-198, (2016).
13. Mehmet Akyüz, Şevket Ata, **Erdal Dinç**. A chemometric optimization of method for determination of nitrosamines in gastric juices by GC–MS. *Journal of Pharmaceutical and Biomedical Analysis* 117 (2016): 26-36.
14. Sevcen Erden, Dilek Bayraktepe, Zehra Yazan, **Erdal Dinç**. TiO₂ modified carbon paste sensor for voltammetric analysis and chemometric optimization approach of amlodipine in commercial formulation. *Ionics* 22(7): 1231–1240 (2016).
15. Fatma Turak, Remziye Güzel, **Erdal Dinç**. A New UPLC Approach for the Simultaneous Quantitative Estimation of Four Compounds in a Cough Syrup Formulation. *Journal of Chromatographic Science* 54(1):28-35 (2016).
16. Saadet Dermis, Eda Büker, Zehra Ceren Ertekin, **Erdal Dinç**, A New Fast Reversed-Phase Ultra-Performance Liquid Chromatographic Approach for Quantitative Analysis of Pantoprazole in Tablets, *Asian Journal of Chemistry* 27 (12), (2015).
17. Saadet Dermis, Zehra Ceren Ertekin, Eda Büker, **Erdal Dinç**, A New Ultra Performance Liquid Chromatographic Method for Determination of Omeprazole in Capsule Dosage Form, *Asian Journal of Chemistry* 27(12), (2015).
18. Bilal Cem Liman, Murat Kanbur, Gökhan Eraslan, Emine Baydan, **Erdal Dinç**, Mürsel Karabacak, Effects of various freezing and cooking processes on the residues of sulfamethazine in broiler tissues, *Ankara Üniversitesi Veteriner Fakültesi Dergisi*, 62(1): 13-16, (2015).
19. Özgür Üstündağ, **Erdal Dinç**, Nurten Özdemir and M. Günseli Tilkan, Comparative application of pls and pcr methods to simultaneous quantitative estimation and simultaneous dissolution test of zidovudine - lamivudine tablets, *Acta Chimica Slovenica*, 62(2):437-444, (2015).
20. Gülsen Kendir, **Erdal Dinç**, and Ayşegül Köroğlu, Ultra-Performance Liquid Chromatography for the Simultaneous Quantification of Rutin and Chlorogenic Acid in Leaves of *Ribes* L. Species by Conventional and Chemometric Calibration Approaches, *Journal of Chromatographic Science*, 53(9):1577-1587, (2015).
21. Dilek Şura Özden, Zehra Durmuş, **Erdal Dinç**, Electrochemical oxidation behavior of ezetimibe and its adsorptive stripping determination in pharmaceutical dosage forms and biological fluids. *Research on Chemical Intermediates*, 41(3): 1803–1818, (2015).
22. **Erdal Dinç**, Fernando B. Duarte, JA Tenreiro Machado, and Dumitru Baleanu, Application of continuous wavelet transform to the analysis of the modulus of the fractional Fourier transform bands for resolving two component mixture. *Signal, Image and Video Processing*, 9 (4) 801-807, (2015).

23. J.A. Machado, **Erdal DİNÇ** and Dumitru Baleanu, Analysis of UV spectral bands using multidimensional scaling, *Signal, Image and Video Processing*, 9(3): 573–580, (2015).
24. **Erdal DİNÇ**, Zehra Ceren Ertekin, Ghazal Rouhani, A new RP-UPLC method for simultaneous quantitative estimation of bisoprolol hemifumarate and hydrochlorothiazide in tablets using experimental design and optimization, *Journal of Liquid Chromatography & Related Technologies*, 38(9):970-976 (2015).
25. Burcu Devrim, **Erdal DİNÇ**, Asuman Bozkır, Fast determination of diphenhydramine hydrochloride in reconstitutable syrups by CWT, PLS and PCR methods, *Acta Poloniae Pharmaceutica*, 71(5): 721-729, (2014).
26. Murat Kanbur, Bilal Cem Liman, Gökhan Eraslan, Emine Baydan, **Erdal DİNÇ**, Mürsel Karabacak, Effects of various cooking and freezing processes on the residues of sulfachlorpyridazine-trimethoprim combination in broiler tissues, *Kafkas Üniversitesi Veteriner Fakültesi Dergisi*, 20(4): 487-492, (2014).
27. Remziye Güzel, Haslet Ekşi, **Erdal DİNÇ**, Ali Osman Solak, New voltammetric approach to the quantitative estimation of sildenafil citrate in tablets using disposable pencil graphite electrode. *Sensor Letters*, 12(11): 1675-1681, (2014).
28. **Erdal DİNÇ** and Ali Osman Solak, A new approach to the characterization of the nano-film structure on modified electrode systems by factor analysis model. *Journal of Computational and Theoretical Nanoscience* 11(1): 25-31, (2014).
29. **Erdal DİNÇ**, Nurten Özdemir, Özgür Üstündağ, M. Günseli Tilkan, Continuous wavelet transforms for the simultaneous quantitative analysis and dissolution testing of lamivudine–zidovudine tablets. *Chemical and Pharmaceutical Bulletin*, 61(12): 1220-1227, (2013).
30. Nedim Gürler, Dilek Eskiköy Bayraktepe, Zehra Yazan Durmuş, **Erdal DİNÇ**, Electrochemical characterization and voltammetric anodic stripping methods for the determination of valsartan. *Revista de Chimie*, 64(11): 1211-1217, (2013).
31. **Erdal DİNÇ** and Dumitru Baleanu, Simultaneous spectrophotometric determination of levamisole and oxytocin in bolus by the bivariate and multivariate linear regression calibration methods. *Revista de Chimie*, 64(3): 233-237, (2013).
32. **Erdal DİNÇ**, Fatih Kaş, Dumitru Baleanu, A signal processing tool based on the continuous wavelet for the simultaneous determination of estradiol valerate and cyproterone acetate in their mixtures, *Revista de Chimie*, 64(2): 124-126, (2013).
33. Remziye Güzel, Haslet Ekşi, **Erdal DİNÇ**, Ali Osman Solak, Determination of acetaminophen in commercial formulations using silver nanostructured aniline modified pencil graphite electrode, *Journal of the Electrochemical Society*, 160(8): B119-B124, (2013).
34. **Erdal DİNÇ**, Gaetano Ragno, Dumitru Baleanu, Michele De Luca, Giuseppina Ioele, Fractional wavelet transform-continuous wavelet transform for the quantification of melatonin and its photodegradation product, *Spectroscopy Letters*, 45(5): 337-343, (2012).
35. **Erdal DİNÇ**, Eda Büker, Dumitru Baleanu, Simultaneous Determination of Hydrochlorothiazide and Olmesartan Modoxomil in a Binary Mixture by the Calibrations of the Spectral Linear Regression Equations, *Revista de Chimie*, 63(7): 656-659, 2012.

36. **Erdal Dinç**, Special Issue 12th National Spectroscopy Congress, Turkey, with International Participation, *Spectroscopy Letters*, 45(5): 313-314, (2012).
37. **Erdal Dinç** and Eda Bükler, A new application of continuous wavelet transform to overlapping chromatograms for the quantitative analysis of amiloride hydrochloride and hydrochlorothiazide in tablets by ultra-performance liquid chromatography, *Journal of AOAC International* 95(3): 751-756, (2012).
38. **Erdal Dinç**, Dumitru Baleanu, Emre Küçükbağrıçık, Ultra Performance Liquid Chromatography for the Quantitative Analysis of Ampicillin Sodium and Sulbactam Sodium in a Pharmaceutical Preparation, *Revista de Chimie*, 63(5): 451-454, (2012).
39. **Erdal Dinç**, Dumitru Baleanu, Ozan Halisçelik, Yavuz, Yunus Emre, Linear regression functions-multivariate calibration methods for the determination of two-component mixture, *Revista de Chimie*, 63(4): 353-357, (2012).
40. **Erdal Dinç**, Dumitru Baleanu, Ali Osman Solak, Haslet Ekşi, Remziye Güzel, Factor analysis for the characterization of the nano-surface of the nitroazobenzene-modified glassy carbon electrode, *Journal of Computational and Theoretical Nanoscience*, 9(3): 319-326, (2012).
41. **Erdal Dinç**, Dumitru Baleanu, Ali Osman Solak, Haslet Ekşi, Remziye Güzel, A new approach to the characterization of the nano-surface structure by using factor analysis, *Communications in Nonlinear Science and Numerical Simulation*, 17(2): 1012-1020, (2012).
42. **Erdal Dinç**, Eda Bükler and Dumitru Baleanu, Fractional and continuous wavelet transforms for the simultaneous spectral analysis of a binary mixture system, *Communications in Nonlinear Science and Numerical Simulation* 16(12):4602-4609, (2011).
43. **Erdal Dinç**, Dumitru Baleanu, Fractional-continuous wavelet transforms and ultra-performance liquid chromatography for the multicomponent analysis of a ternary mixture containing thiamine, pyridoxine, and lidocaine in ampules, *Journal of AOAC International*, 95(3): 903-912, (2011).
44. Raoul R. Nigmatullin, Ivan I. Popov, Dumitru Baleanu, **Erdal Dinç**, Ali Osman Solak, Haslet Ekşi, Remziye Güzel, Application of the linear principle for the strongly-correlated variables: Calculations of differences between spectra, *Communications in Nonlinear Science and Numerical Simulation*, 16(10): 4028-4036, (2011).
45. J.A. Machado, Dumitru Baleanu, **Erdal Dinç**, Ali Osman Solak, Haslet Ekşi, Remziye Güzel, Analysis of the Nano-Surface of a Modified Glassy Carbon Electrode by Pseudo Phase Plane Method, *Journal of Computational and Theoretical Nanoscience*, 8(10): 1986-1992, (2011).
46. Murat Kambur, İbrahim Narin, **Erdal Dinç**, Seçil Candir, Dumitru Baleanu, Fractional wavelet transform for the quantitative spectral resolution of the commercial veterinary preparations. *Revista de Chimie*, 62(6): 618-621, (2011).
47. **Erdal Dinç**, Dumitru Baleanu, Spectrophotometric determination of ramipril and hydrochlorothiazide in a mixture. *Asian Journal of Chemistry*, 23(6): 2377-2380, (2011).
48. **Erdal Dinç**, Eda Bükler and Dumitru Baleanu, Ultra Performance Liquid Chromatography for the Rapid Determination of Allura Red in a Commercial Liquid Drink, *Revista de Chimie*, 62(4):459-461, (2011).

49. J.A. Machado, Dumitru Baleanu, **Erdal Dinç**, Ali Osman Solak, Haslet Ekşi and Remziye Güzel, Characterization Approach to Modified Glassy Carbon Electrode-Nanofilm System Within Multidimensional Scaling, *Journal of Computational and Theoretical Nanoscience*, 8(2): 268-273, (2011).
50. Giuseppina Ioele, Michele De Luca, **Erdal Dinç**, Filomena Oliverio, Gaetano Ragno, Artificial neural network combined with principal component analysis for resolution of complex pharmaceutical formulations, *Chemical and Pharmaceutical Bulletin*, 59 (1): 35-40, (2011).
51. **Erdal Dinç**, Yücel Kadioğlu, Fatma Demirkaya, Dumitru Baleanu, Continuous wavelet transforms for simultaneous spectral determination of trimethoprim and sulphamethoxazole in tablets, *Journal of the Iranian Chemical Society*, 8(1): 90-99, (2011).
52. **Erdal Dinç**, Dumitru Baleanu, Nigar Şen Köktaş, New spectral approaches to the simultaneous quantitative resolution of a combined veterinary formulation by ANN and PCA-ANN methods, *Reviews in Analytical Chemistry*, 30(1): 11-15, (2011).
53. **Erdal Dinç**, Dumitru Baleanu, Özgür Üstündağ, Simultaneous chemometric determination of pyridoxine hydrochloride and isoniazid in tablets by multivariate regression methods, *Drug Testing and Analysis*, 2(8), 383-387, (2010).
54. Nurgün Küçükboyacı, Ayşegül Güvenç, **Erdal Dinç**, Nezaket Adıgüzel, Barış Bani, New HPLC-chemometric approaches to the analysis of isoflavones in *Trifolium lucanicum* Gasp, *Journal of Separation Science*, 33(17-18):2558-2567, (2010).
55. Şahver Ege Hişmioğulları, Ender Yarsan, **Erdal Dinç**, Spectral classical least square calibration approach for the simultaneous determination and stability test of sulphadiazine and trimethoprim in Bolus, *Journal of Animal and Veterinary Advances*, 9(4): 857-861, (2010).
56. Mehmet Paşa Demirbilek, **Erdal Dinç**, Dumitru Baleanu, Spectrophotometric Simultaneous Determination of Atorvastatin-Amlodipin and Telmisartan-Hydrochlorothiazide Mixtures by Bivariate and Multivariate Calibrations, *Revista de Chimie*, 61(6): 532-540, (2010).
57. Raoul R. Nigmatulin, Alexander P. Alekhin, Dumitru Baleanu, **Erdal Dinç**, Zafer Üstündağ, Haslet Ekşi, Ali Osman Solak, Analysis of the effect of potential cycles on the reflective infrared signals of nitro groups in nanofilms: application of the fractional moments statistics, *Electroanalysis*, 22(4): 419-426, (2010).
58. Raoul R. Nigmatulin, Alexander P. Alekhin, Dumitru Baleanu, **Erdal Dinç**, Zafer Üstündağ, Ali Osman Solak, Roman V. Kargin, Analysis of a nanofilm of the mercaptophenyl diazonium modified gold electrode within new statistical parameters, *Journal of Computational and Theoretical Nanoscience*, 7(3): 562-570, (2010).
59. **Erdal Dinç**, Dumitru Baleanu, Fractional wavelet transform for the quantitative spectral resolution of the composite signals of the active compounds in a two-component mixture, *Computers & Mathematics with Applications*, 59(5): 1701-1708, (2010).
60. **Erdal Dinç**, Özgür Üstündağ, Quantitative Analysis of Hydrochlorothiazide and Losartan Potassium in A Binary Mixture by Artificial Neural Network, *FABAD J. Pharm. Sci.*, 35, 133-141, (2010).

61. **Erdal Dinç**, Fatma Demirkaya, Dumitru Baleanu, Yücel Kadioğlu, Ekrem Kadioğlu, New approach for simultaneous spectral analysis of a complex mixture using the fractional wavelet transform, *Communications in Nonlinear Science and Numerical Simulation*, 15(4): 812-818, (2010).
62. **Erdal Dinç**, Dumitru Baleanu, Continuous wavelet transform applied to the simultaneous spectrophotometric determination of valsartan and amlodipine in tablets, *Revista de Chimie*, 61(3): 290-294, (2010).
63. Raoul R. Nigmatullin, Dumitru Baleanu, **Erdal Dinç**, Ali Osman Solak, Characterization of a benzoic acid modified glassy carbon electrode expressed quantitatively by new statistical parameters , *Physica E (Low-Dimensional Systems and Nanostructures)*, 41(4): 609-616, (2009).
64. Gözde Pektaş, **Erdal Dinç**, Dumitru Baleanu, Combined application of continuous wavelet transform-zero crossing technique in the simultaneous spectrophotometric determination of perindopril and indapamid in tablets, : *Quimica Nova*, 32(6): 1416-1421, (2009).
65. **Erdal Dinç**, Fahrettin Arslan, Dumitru Baleanu, Alternative approaches to the spectral quantitative resolution of two-component mixture by wavelet families, *Journal of the Chilean Chemical Society*, 54(1): 28-35, (2009).
66. **Erdal Dinç**, Dumitru Baleanu, Spectral continuous wavelet transform for the simultaneous spectrophotometric analysis of a combined pharmaceutical formulation, *Revista de Chimie*, 60(8): 741-744, (2009).
67. **Erdal Dinç**, Nigar Şen Köktaş, Dumitru Baleanu, An application of principal component analysis-artificial neural network for the simultaneous quantitative analysis of a binary mixture system, *Revista de Chimie*, 60(7): 662-665, (2009).
68. **Erdal Dinç**, Gözde Pektaş, Dumitru Baleanu, Continuous wavelet transform and derivative spectrophotometry for the quantitative spectral resolution of a mixture containing levamisole and triclozadazole in veterinary tablets, *Reviews in Analytical Chemistry*, 28(2): 79-92, (2009).
69. İncilay Süslü, **Erdal Dinç**, Şeyda Demircan, Sacide Altınöz, Dumitru Baleanu, Continuous wavelet transform for the resolution of the overlapping voltammetric signals and simultaneous determination of levodopa and benserazide, *Reviews in Analytical Chemistry*, 28(2): 137-149, (2009).
70. Kaya Beliz, **Erdal Dinç**, Dumitru Baleanu, Chemometric methods for the simultaneous spectrophotometric determination of telmisartan and hydrochlorotiazide in the commercial pharmaceuticals, *Revista de Chimie*, 60(6): 544-550, (2009).
71. **Erdal Dinç**, Dumitru Baleanu, Continuous wavelet transform applied to the quantitative analysis of a binary mixture, *Revista de Chimie*, 60(3): 216-221, (2009).
72. **Erdal Dinç**, Dumitru Baleanu, Chemometric Simultaneous Determination of Atorvastatin and Amlodipine in Tablets by PCR and PLS Calibrations” *Revista de Chimie*, 60 (2) 127-131, (2009).

- 73.** Erdal Dinç, Dumitru Baleanu, Giuseppiana Loele, Michele De Luca, Gaetano Ragno, “Multivariate analysis of paracetamol, propiphenazone, caffeine and thiamine in quaternary mixtures by PCR, PLS and ANN calibrations applied on wavelet transform data”, *Journal of Pharmaceutical and Biomedical Analysis*, 48(5), 1471-1475, (2008).
- 74.** Gamze Uğurlu, Nuran Özaltın, Erdal Dinç, Spectrophotometric determination of risedronate sodium in pharmaceutical preparations by derivative and continuous wavelet transforms, *Reviews in Analytical Chemistry*, 27(4), 215-233, (2008).
- 75.** Erdal Dinç, Fahrettin Arslan, Dumitru Baleanu, Spectral bivariate and multivariate calibrations for the simultaneous determination of paracetamol and chlorzoxazone in their mixture by using the linear regression functions, *Revue Roumaine de Chimie*, 53(8): 607-615, (2008).
- 76.** Erdal Dinç, Dumitru Baleanu, Ferdi Tokar, Simple mathematical resolution for binary mixture of oxfendazole and oxcyclozanide in bolus by bivariate and multivariate calibrations based on the linear regression functions, *Revue Roumaine de Chimie*, 53(4): 303-305, (2008).
- 77.** Özgür Üstündağ, Erdal Dinç, Dumitru Baleanu, Applications of Mexican hat wavelet function to binary mixture analysis, *Revista de Chimie*, 59(12): 1387-1391, (2008).
- 78.** Erdal Dinç, Dumitru Baleanu, Ratio spectra-continuous wavelet transform and ratio spectra-derivative spectrophotometry for the quantitative analysis of effervescent tablets of vitamin C and aspirin, *Revista de Chimie*, 59(5): 499-504, (2008).
- 79.** Erdal Dinç, Dumitru Baleanu, Application of Haar and Mexican Hat Wavelets to double divisor-ratio Spectra for the multicomponent determination of ascorbic acid, acetylsalicylic acid and paracetamol in effervescent tablets, *Journal of the Brazilian Chemical Society*, 19(3): 434-444, (2008).
- 80.** Gözde Pektaş, Erdal Dinç, Dumitru Baleanu, Spectrophotometric simultaneous determination of levamisole and triclozandazole in tablets by principal component regression and partial least squares chemometric methods, *Revista de Chimie*, 59(2): 154-158, (2008).
- 81.** Erdal Dinç, Ali Bilgili, Başak Hanedan, Simultaneous determination of trimethoprim and sulphamethoxazole in veterinary formulations by chromatographic multivariate methods, *Pharmazie*, 62(3): 179-184, (2007).
- 82.** Erdal Dinç, Sacide Altınöz, Dumitru Baleanu, Simultaneous determination of quinapril and hydrochlorothiazide in tablets by ratio spectra derivative spectrophotometry and chemometric methods, *Revista de Chimie*, 58(12): 1263-1267, (2007).
- 83.** Erdal Dinç, Süha Kaya, Tanver Doganay, Dumitru Baleanu, Continuous wavelet and derivative transforms for the simultaneous quantitative analysis and dissolution test of levodopa-benserazide tablets, *Journal of Pharmaceutical and Biomedical Analysis*, 44, 991-995, (2007).
- 84.** Erdal Dinç, Dumitru Baleanu, Continuous wavelet transform applied to the overlapping absorption signals and their ratio signals for the quantitative resolution of mixture of oxfendazole and oxcyclozanide in bolus, *Journal of Food and Drug Analysis*, 15(2): 109-117, (2007).

85. **Erdal Dinç**, Dumitru Baleanu, Continuous wavelet transform and chemometric methods for quantitative resolution of a binary mixture of quinapril and hydrochlorothiazide in tablets, *Journal of the Brazilian Chemical Society*, 18(2): 962-968, (2007).
86. **Erdal Dinç**, Dumitru Baleanu, Numerical and graphical approaches for the simultaneous quantitative analysis of levamisole and oxyclozanide in veterinary formulation, *Revista de Chimie*, 58(8): 816-821, (2007).
87. **Erdal Dinç**, Murat Kanbur, Dumitru Baleanu, Comparative spectral analysis of veterinary powder product by continuous wavelet and derivative transforms, *Spectrochimica Acta Part A*, 68(2), 225-230, (2007).
88. **Erdal Dinç**, Dumitru Baleanu, Quantitative analysis of a mixture containing ampicillin sodium and sulbactam sodium by ratio spectra-first and ratio spectra-second derivative methods, *Revista de Chimie*, 58 (3) 261-265 (2007).
89. Alev Tosun, Özlem Bahadır, **Erdal Dinç**, Determination of anomalin and deltoin in *Seseli resinosum* by liquid chromatography-chemometric methods, *Chromatographia*, 66 (9-10) 677-683 (2007).
90. **Erdal Dinç**, Dumitru Baleanu, Kenan Taş, Fractional wavelet analysis for the composite signals of two-component mixture by multivariate spectral calibration, *Journal of Vibration and Control*, 13 (9–10), 1283-1290 (2007).
91. **Erdal Dinç**, Murat Kanbur, Dumitru Baleanu, Simultaneous determination of chlorotetracycline and benzocaine in bolus by chemometric methods *Revista de Chimie*, 58 (2): 195-198 (2007).
92. Ayşegül Güvenç, Okan Arıhan, M. Levent Altun, **Erdal Dinç**, Dumitru Baleanu, Determination of salicin content of some *Salix L.* species by HPLC method”, *Revista de Chimie*, 58 (1),8-12 (2007).
93. **Erdal Dinç**, Fahrettin Arslan, Dumitru Baleanu, Experimental design and optimization for the spectral analysis of two-component mixture *Revista de Chimie*, 58 (10), 964-968 (2007).
94. **Erdal Dinç**, Chemometrics: Multivariate Calibration Methods, Hacettepe University, *Journal of the Faculty of Pharmacy*, 27 (1), 61-92 (2007).
95. **Erdal Dinç**, Dumitru Baleanu, Özgür Üstündağ, Hassan Y. Abaul-Enein, “Discrete and continuous wavelet transforms for the multicomponent determination of sunset Yellow and tartrazine in their soft drink powders, *Revista de Chimie*, 57 (1), 29-35 (2006).
96. **Erdal Dinç**, Aydan Özdemir, Hüseyin Aksoy, Özgür Üstündağ, Dumitru Baleanu, Chemometric Determination of Naproxen Sodium and Pseudoephedrine Hydrochloride in Tablets by HPLC, *Chemical & Pharmaceutical Bulletin*, 54(4), 415-421 (2006).
97. **Erdal Dinç**, Saadet Dermiş, Dumitru Baleanu, Simultaneous spectrophotometric determination of chlordiazepoxide and clidinium bromide in sugar coated tablets by partial least squares, principal component regression and artificial neural network, *Revista de Chimie* , 57 (3), 29-35 (2006).

98. **Erdal Dinç**, Gaetano Ragno, Giuseppiana Loele, Dumitru Baleanu, Fractional wavelet analysis for the simultaneous quantitative analysis of lacidipine and its photodegradation product by continuous wavelet transform and multilinear regression calibration, *Journal of AOAC International* , 89 (6), 1538-1546 (2006).
99. **Erdal Dinç**, Aydan Özdemir, Hüseyin Aksoy, Dumitru Baleanu, Chemometric approach to simultaneous chromatographic determination of paracetamol and chlorzoxazone in tablets and spiked human plasma, *Journal of Liquid Chromatography & Related Technologies*, 29, 1803-1822, (2006).
100. Abdil Özdemir, Halil Aksoy, **Erdal Dinç**, Dumitru Baleanu, Saadet Dermiş, “Determination of guaifenesin and dextromethorphan in a cough syrup by HPLC with fluorometric detection”, *Revue Roumaine de chimie*, 51 (2), 117-112 (2006)
101. **Erdal Dinç**, Abdil Özdemir, Dumitru Baleanu, Kenan Taş, Wavelet transform with chemometrics techniques for quantitative multiresolution analysis of a ternary mixture consisting of paracetamol, ascorbic acid and acetylsalicylic acid in effervescent tablets, *Revista de Chimie* , 57 (5), 505-510 (2006).
102. **Erdal Dinç**, A. Hakan Aktaş, Dumitru Baleanu, Özgür Üstündağ, “Simultaneous determination of tartrazine and allura red in commercial preparation by chemometric HPLC methods”, *Journal of Food and Drug Analysis*, 14 (3), 284-291 (2006).
103. Feyyaz Onur, İ. Murat Palabıyık, **Erdal Dinç**, Liquid chromatographic and spectrophotometric determination of triprolidine hydrochloride, acrivastine and pseudoephedrine hydrochloride in pharmaceutical preparations and human plasma, *Analytical Chemistry an Indian Journal*, 2(5-6), 199-211 (2006).
104. **Erdal Dinç**, Abdil Özdemir, Feyyaz Onur, Dumitru Baleanu, Halil Aksoy, Cem Yücesoy, Spectrophotometric determination of acetaminophen and chlorzoxazone in tablets by multivariate calibration techniques, *Revista de Chimie* , 57 (4), 368-373 (2006)
105. **Erdal Dinç**, Dumitru Baleanu, A new fractional wavelet approach for the simultaneous determination of ampicillin sodium and sulbactam sodium in a binary mixture, *Spectrochimica Acta Part A*, 63 (3), 631-638 (2006).
106. **Erdal Dinç**, Dumitru Baleanu, Ayşegül Taş, Wavelet Transforms and Artificial Neural Network For The Quantitative Resolution of Ternary Mixtures, *Revista de Chimie*, 57 (6), 626-631 (2006).
107. **Erdal Dinç**, Özgür Üstündağ, Multivariate Calibrations Based on Linear Regression Functions and Their Analytical Applications, Hacettepe University, *Journal of the faculty of pharmacy*, 26 (2) 87-111, (2006).
108. **Erdal Dinç**, Özgür Üstündağ, Application of multivariate techniques to HPLC data for the quantitative analysis of binary mixture of hydrochlorothiazide and losartan in tablets, *Chromatographia*, 61(5-6), 237-244 (2005).
109. **Erdal Dinç**, Dumitru Baleanu, Özgür Üstündağ, Kenan Taş, Chemometric calibration based on the wavelet transform for the quantitative resolution of two-colorants mixtures, *Romanian Journal of Chemistry*, 50(4), 283-290 (2005).

- 110. Erdal Dinç,** Dumitru Baleanu, Murat Kanbur, A comparative application of wavelet approaches to the absorption and ratio spectra for the simultaneous determination of diminazene aceturate and phenazone in veterinary granules for injection, *Die Pharmazie*, 60(12), 892-896 (2005).
- 111. Erdal Dinç,** A. Hakan Aktaş, Özgür Üstündağ, A new Liquid-chemometric approach for the determination of sunset yellow and tartrazine in their market sample, *Journal of AOAC International*, 88 (6), 1748-1755 (2005).
- 112. Erdal Dinç,** Özgür Üstündağ, Dumitru Baleanu, Abdil Özdemir, A New Application of Chemometric Techniques to HPLC Data for the Simultaneous Analysis of Two Component Mixture, *Journal of Liquid Chromatography & Related Technologies*, 28(14), 2179-2194 (2005).
- 113. Erdal Dinç,** Abdil Özdemir, “Linear regression analysis and its application to multivariate chromatographic calibration for the quantitative analysis of two-component mixtures”, *IL Farmaco*, 60, 591-597 (2005).
- 114. Durmuş Özdemir, Erdal Dinç,** “Determination of Benazepril HCl and Hydrochlorothiazide in Pharmaceutical Preparations Using UV-Visible Spectrophotometry and Genetic Multivariate Calibration Methods”, *Journal of Food and Drug Analysis*, 13 (4) 301-311 (2005).
- 115. Erdal Dinç,** Dumitru Baleanu, “Bivariate and multivariate spectral resolution of a mixture of benazepril hydrochloride and hydrochlorothiazide in tablets by using linear regression lines”, *Revista de Chimie*, 56 (9), 937-942 (2005).
- 116. Erdal Dinç,** Aydan Özdemir, Dumitru Baleanu, “An application of derivative and continuous wavelet transforms to the overlapping ratio spectra for the quantitative multiresolution of a ternary mixture of paracetamol, acetylsalicylic acid and caffeine in tablets”, *Talanta*, 65, 36-47 (2005).
- 117. Erdal Dinç,** Aydan Özdemir, Dumitru Baleanu, “Comparative study of the continuous wavelet transform, derivative and partial least squares methods applied to the overlapping spectra for the simultaneous quantitative resolution of ascorbic acid and acetylsalicylic acid in effervescent tablets”, *Journal of Pharmaceutical and Biomedical Analysis* , 37 (3), 569-575 (2005).
- 118. Erdal Dinç,** Aydan Özdemir, “Mathematical algorithms applied to the multi-linear regression functions for the multicomponent determination of pharmaceutical dosage form containing three-component mixtures”, *Chemical & Pharmaceutical Bulletin*, 53 (8): 899-906 (2005)
- 119. Abdil Özdemir, Erdal Dinç,** Feyyaz Onur, “Utilization of derivative and multivariate methods for the determination of paracetamol, ascorbic acid and caffeine in pharmaceutical samples”, *Turkish Journal of Pharmaceutical Sciences*, 1(3)139-151 (2005).
- 120. Murat Kanbur, Ali Bilgili, Erdal Dinç,** “Bazı insektisit formülasyonlarındaki etkin maddelerin spektroskopik ve kemometrik yöntemlerle karşılaştırmalı miktar tayinleri”, *Erciyes Üniversitesi Veteriner Fakültesi Dergisi*, 2(1), 1-4 (2005).
- 121. İ. Murat Palabıyık, Erdal Dinç,** Feyyaz Onur, “Simultaneous spectrophotometric determination of pseudoephedrine hydrochloride and ibuprofen in a pharmaceutical preparation using ratio

spectra derivative spectrophotometry and multivariate calibration techniques”, *Journal of Pharmaceutical and Biomedical Analysis*, 34 (3), 473-483, (2004)

- 122. Erdal Dinç**, Bengi Uslu, Sibel A. Özkan, “Spectral Resolution of a Binary Mixture Containing Valsartan and Hydrochlorothiazide in Tablets by Ratio Spectra Derivative and Inverse Least Square Techniques”, *Analytical Letters*, 37, 693–707 (2004).
- 123. Erdal Dinç**, Dumitru Baleanu, Hassan Y. Abaul-Enein, “Wavelet analysis for the multicomponent determination in a binary mixture of caffeine and propyphenazone in tablets” *IL Farmaco*, 59, 335-342 (2004).
- 124. Erdal Dinç**, Abdil Özdemir,” Multivariate spectral calibration techniques based on regression analysis for the quantitative multiresolution of a ternary mixture containing paracetamol, ascorbic acid and acetylsalicylic acid in effervescent tablets”, *Die Pharmazie*, 59, 700-705 (2004).
- 125. Erdal Dinç**, Dumitru Baleanu,”Application of the wavelet method for the simultaneous quantitative determination of benazepril and hydrochlorothiazide in their mixtures”, *Journal of AOAC International*, 87 (4), 834-841 (2004).
- 126. Erdal Dinç**, Dumitru Baleanu, Özgür Üstündağ, Hassan Y. Abaul-Enein, “Continuous wavelet transformation applied to the simultaneous quantitative analysis of two–component mixtures” *Die Pharmazie*, 59, 618-623 (2004).
- 127. Erdal Dinç**, Dumitru Baleanu, Murat Kanbur, “Spectrophotometric multicomponent determination of tetramethrin, propoxur and piperonyl butoxide in insecticide formulation by principal component regression and partial least squares techniques with continuous wavelet transform”, *Canadian Journal of Analytical Sciences and Spectroscopy*, 49 (4), 218-225 (2004)
- 128. Erdal Dinç**, Dumitru Baleanu, “One-dimension continuous wavelet resolution for the simultaneous analysis of binary mixture of benazepril and hydrochlorothiazide in tablets using spectrophotometric absorbance data” *Romanian Journal of Chemistry*, 49 (11), 917-925 (2004)
- 129. Durmuş Özdemir, Erdal Dinç**, “Determination of thiamine HCl and pyridoxine HCl in pharmaceutical preparations using UV-visible spectrophotometry and genetic algorithm based multivariate calibration methods”, *Chemical & Pharmaceutical Bulletin*, 52 (7), 810-817 (2004).
- 130. Erdal Dinç**, Dumitru Baleanu, “Multicomponent quantitative resolution of binary mixtures using continuous wavelet transform”, *Journal AOAC International*, 87(2), 360-365 (2004).
- 131. İ. Murat Palabıyık, Özgür Üstündağ, Erdal Dinç, Feyyaz Onur**, “Simultaneous Spectrophotometric Determination of Paracetamol and Methocarbamol in a Pharmaceutical Preparation using chemometric techniques”, *Turkish Journal of Pharmaceutical Sciences*, 30, 1-17 (2004).
- 132. Erdal Dinç**, Filiz Yurtsever, Feyyaz Onur, “Simultaneous determination of active ingredients in binary mixtures containing caffeine using liquid chromatographic and spectrophotometric methods”, *Turkish Journal of Pharmaceutical Sciences*, 1(2), 115-138 (2004).

- 133. Erdal Dinç**, Dumitru Baleanu, “A zero-crossing technique for the multidetermination of thiamine HCl and pyridoxine HCl in their mixture by using one-dimensional wavelet transform”, *Journal of Pharmaceutical and Biomedical Analysis*, 31, 969-978 (2003).
- 134. Erdal Dinç**, Dumitru Baleanu, “Multidetermination of thiamine HCl and pyridoxine HCl in their mixture using continuous daubechies and biorthogonal wavelet analysis”, *Talanta*, 59, 707-717 (2003).
- 135. Erdal Dinç**, Cem Yücesoy, İ.Murat Palabıyık, Özgür Üstündağ, Feyyaz Onur, “Simultaneous spectrophotometric determination of cyproterone acetate and estradiol valerate in pharmaceutical preparations by ratio spectra derivative and chemometric methods”, *Journal of Pharmaceutical and Biomedical Analysis*, 32, 539-547 (2003).
- 136. Özgür Üstündağ**, Erdal Dinç, “Simultaneous resolution of a binary mixture of captopril and hydrochlorothiazide in tablets by bivariate and multivariate spectral calibrations”, *Die Pharmazie*, 58, 623-628 (2003).
- 137. Erdal Dinç**, “Linear regression analysis and its application to the multivariate spectral calibrations for the multiresolution of a ternary mixture of caffeine, paracetamol and metamizol in tablets”, *Journal of Pharmaceutical and Biomedical Analysis*, 33, 605-615 (2003).
- 138. Erdal Dinç**, Dumitru Baleanu, Özgür Üstündağ, “An approach to quantitative two-component analysis of a mixture containing hydrochlorothiazide and spironolactone in tablets by one-dimensional continuous daubechies and biorthogonal wavelet analysis of UV-spectra”, *Spectroscopy Letters*, 36, 341-355 (2003).
- 139. Erdal Dinç**, Özgür Üstündağ, “Spectrophotometric quantitative resolution of hydrochlorothiazide and spironolactone in tablets by chemometric analysis methods, *IL Farmaco*, 58, 1151-1161 (2003).
- 140. Erdal Dinç**, C. Serin, Fatmanur Tugcu-Demiröz, Tanver Doğanay, “Dissolution and assaying of multicomponent tablets by chemometric methods using computer-aided spectrophotometer”, *International Journal of Pharmaceuticals*, 250, 339-350 (2003).
- 141. Erdal Dinç** and Dumitru Baleanu, “Two new spectrophotometric approaches to the multicomponent analysis of the acetaminophen and caffeine in tablets by classical least-squares and principal component regression techniques”, *IL Farmaco*, 57, 33-37 (2002).
- 142. Erdal Dinç**, Emine Baydan, Murat Kanbur, Feyyaz Onur, “Spectrophotometric multicomponent determination of sunset yellow, tartrazine and allura red in soft drink powder by double divisor-ratio spectra derivative, inverse least-squares and principal component regression methods”, *Talanta*, 58, 579-594 (2002).
- 143. Erdal Dinç**, “Spectral analysis of benazepril hydrochloride and hydrochlorothiazide in pharmaceutical formulations by three chemometric techniques”, *Analytical Letters*, 35, 1021-1039 (2002).
- 144. Erdal Dinç**, Özgür Üstündağ, “Chemometric resolution of a mixture containing hydrochlorothiazide and amiloride by absorption and derivative spectrophotometry”, *Journal of Pharmaceutical and Biomedical Analysis*, 29, 371-379 (2002).

- 145. Erdal Dinç**, Cem Yücesoy, Feyyaz Onur, “Simultaneous spectrophotometric determination of mefenamic acid and paracetamol in a pharmaceutical preparation using ratio spectra derivative spectrophotometry and chemometric methods”, *Journal of Pharmaceutical and Biomedical Analysis*, 28, 1091-1100 (2002).
- 146. Erdal Dinç**, Dumitru Baleanu, Feyyaz Onur, “Simultaneous spectrophotometric analysis of codeine phosphate, acetylsalicylic acid, and caffeine in tablets by inverse least-squares and principal component regression techniques”, *Analytical Letters*, 35, 545-558 (2002).
- 147. Erdal Dinç**, İ. Murat Palabıyık, Özgür Üstündağ, Filiz Yurtsever, Feyyaz Onur, “Simultaneous spectrophotometric determination of chlorphenoxamine hydrochloride and caffeine in a pharmaceutical preparation using first derivative of the ratio spectra and chemometric methods”, *Journal of Pharmaceutical and Biomedical Analysis*, 28, 591-600 (2002).
- 148. Erdal Dinç**, Murat Kanbur, “Spectrophotometric multicomponent resolution of a veterinary, formulation containing oxfendazole and oxyclozanide by multivariate calibration-prediction techniques”, *Journal of Pharmaceutical and Biomedical Analysis*, 28, 779-788 (2002).
- 149. Erdal Dinç**, Dumitru Baleanu, “Spectrophotometric quantitative determination of cilazapril and hydrochlorothiazide in tablets by chemometric methods, *Journal of Pharmaceutical and Biomedical Analysis*, 30 , 715-723 (2002)
- 150. Erdal Dinç**, Gamze Kökdil, Feyyaz Onur, “Derivative ratio spectra-zero crossing spectrophotometry and LC method applied to the quantitative determination of paracetamol, propyphenazone and caffeine in ternary mixtures”, *Journal of Pharmaceutical and Biomedical Analysis*, 26, 769-778 (2001).
- 151. Erdal Dinç**, Dumitru Baleanu, Feyyaz Onur, “Spectrophotometric multicomponent analysis of a mixture of metamizol, acetaminophen and caffeine in pharmaceutical formulations by two chemometric techniques”, *Journal of Pharmaceutical and Biomedical Analysis*, 26, 949-957 (2001).
- 152. Erdal Dinç**, Dumitru Baleanu, Feyyaz Onur, “Chemometric quantitative analysis of pyridoxine HCl and thiamine HCl in a vitamin combination by principal component analysis, classical least squares, and inverse least squares techniques, *Spectroscopy Letters*, 34, 279-288 (2001).
- 153. Erdal Dinç**, Feyyaz Onur, ”Simultaneous determination of atropine sulfate and morphine hydrochloride in their binary mixture using spectrophotometric methods”, *Ankara University, Journal of the Faculty of Pharmacy*, 30, 1-17 (2001).
- 154. Erdal Dinç**, Gamze Kökdil, Feyyaz Onur, “A comparison of matrix resolution method, ratio spectra derivative spectrophotometry and HPLC method for the determination of thiamine hydrochloride and pyridoxine hydrochloride in pharmaceutical preparation” *Journal of Pharmaceutical and Biomedical Analysis*, 22, 915-923 (2000).
- 155. Erdal Dinç**, “The spectrophotometric multicomponent analysis of a ternary mixture of ascorbic acid, acetylsalicylic acid and paracetamol by the double divisor–ratio spectra derivative and ratio spectra–zero crossing methods” *Talanta*, 48, 1145-1157 (1999).

- 156. Erdal Dinç**, Feyyaz Onur, “Application of the ratio spectra derivative spectrophotometry and Vierordt’s method to quantitative analysis of paracetamol and metamizol in a pharmaceutical formulation”, *Sci. Pharm.*, 67, 57-68 (1999).
- 157. Erdal Dinç**, “A comparative study of the ratio spectra derivative spectrophotometry, vierordt’s method and high-performance liquid chromatography applied to the simultaneous analysis of caffeine and paracetamol in tablets”, *Journal of Pharmaceutical and Biomedical Analysis*, 21, 723-730 (1999).
- 158. Nilüfer Yüksel, Erdal Dinç**, Feyyaz Onur, Tamer Baykara, “Influence of swelling degree on release of nicardipine hydrochloride from acrylic microspheres prepared by solvent evaporation method”, *Pharmaceutical Development and Thecnology*, 3(1), 115-121 (1998).
- 159. Erdal Dinç**, Feyyaz Onur, “Comparison of the ratio spectra derivative spectrophotometry and Vierordt’s method applied to quantitative analysis of pseudoephedrine hydrochloride and triprolidine hydrochloride in tablets”, *S.T.P Pharma Sciences* 8 (3), 203-208 (1998)
- 160. Erdal Dinç**, Feyyaz Onur, “ Application of a new spectrophotometric method for the analysis of a ternary mixture containing metamizol, paracetamol and caffeine in tablets”, *Analytica Chimica Acta* 359 (1-2), 93-106 (1998).
- 161. Erdal Dinç**, Feyyaz Onur, “Comparative study of the ratio spectra derivative spectrophotometry, derivative spectrophotometry and Vierordt's method applied to the analysis of oxfendazole and oxyclozanide in a veterinary formulation”, *Analisis*, 25, 55-59 (1997).
- 162. Erdal Dinç**, Feyyaz Onur, “Application of derivative and ratio spectra derivative spectrophotometry for the determination of pseudoephedrine hydrochloride and acrivastine in capsules”, *Analytical Letters*, 30, 1179-1191 (1997).
- 163. Feyyaz Onur, Erdal Dinç**, “Four new spectrophotometric methods for simultaneous determination of niclosamide and thiabendazole in tablets”, *Sci. Pharm.*, 64, 151-172 (1996).
- 164. Feyyaz Onur, Erdal Dinç**, “Spectrophotometric determination of active ingredients in tablets containing meclizine hydrochloride”, *Sci.Pharm.*, 63, 113–126 (1995).
- 165. Feyyaz Onur, Erdal Dinç**,”Simultaneous determination of caffeine and meclizine dihydrochloride in sugar–coated tablet”, *Analytical Letters*, 282521–2534, (1995).
- 166. Erdal Dinç**, Feyyaz Onur, ”Simultaneous determination of caffeine and chlorphenoxamine hydrochloride in mixture by first derivative UV spectrophotometry”, *J.Fac. Pharm. Gazi*, 12, 63–72 (1995).
- 167. Feyyaz Onur, Erdal Dinç**, “Simultaneous determination of cetrimide and chlorhexidine gluconate in antiseptic solutions by first derivative UV spectrophotometry”, *J.Fac. Pharm. Gazi*, 11, 135-142 (1994).
- 168. Feyyaz Onur, Erdal Dinç**, “Spectrophotometric determination of meclizine dyhydrochloride in tablets by ion-pair extraction with bromcresol green” *J.Fac. Pharm. Gazi*, 10, 59 – 68 (1993).
- 169. Feyyaz Onur, Erdal Dinç**, “Meklizin dihidroklorür–pidoksin hidroklorür ve meklizin dihidroklorür–nikotinic asit kombinasyonlarını içeren tabletlerde meklizin dihidroklorürün spektrofotometrik miktar tayini”, *FABAD, J. Pharm Sci.*, 16, 61-69 (1991).

- 170.** Feyyaz Onur, **Erdal Dinç**, “Quantitative determination of meclizine dihydrochloride, pyridoxine hydrochloride and nicotinic acid in their binary mixtures”, J. Fac. Pharm. Gazi, 7, 77-90 (1990)

XII) PUBLICATIONS IN CONFERENCE PROCEEDINGS:

- 1.** Z. Ceren Ertekin, **Erdal Dinç**, Ömer Faruk Güzel, Bivariate and Multivariate Calibration Approaches for the Spectrophotometric Multicomponent Analysis of Rosuvastatin and Amlodipine in a Solid Dosage Form, 10th Aegean Analytical Chemistry Days 29 September – 2 October, 2016, Çanakkale, Turkey
- 2.** **Erdal Dinç**, Z. Ceren Ertekin, Özgür Üstündağ, Continuous Wavelet Transforms for Spectral Quantitation of Amlodipine and Rosuvastatin in Marketed Tablets. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016 Antalya, Turkey.
- 3.** Eda Büker, **Erdal Dinç**, Multi Way Analysis of the UPLC PDA Data for the Quantitative Resolution of Brimonidine Tartrate and Timolol Maleate in a Commercial Ophthalmic Solution. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
- 4.** Saadet Dermiş, **Erdal Dinç**, Mehmet Emin Kuşçu, Merve Biliktü, First Order Derivative Spectrophotometric Technique for the Determination of Dexamethasone in Tablets. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
- 5.** Eda Büker, **Erdal Dinç**, The Simultaneous Chromatographic Quantitation Analysis of Two Component Mixture Using Experimental Design and Optimization. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
- 6.** Ghazal Rouhani, Z.Ceren Ertekin, **Erdal Dinç**, Reversed Phase Ultra Performance Liquid Chromatographic Approach for The Simultaneous Quantitative Analysis of Ephedrine and Guaifenesin in A Syrup Formulation Using Chemometric Optimization Technique. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
- 7.** Saadet Dermiş, **Erdal Dinç**, Mehmet Emin Kuşçu, Merve Biliktü, Quantitative Estimation of Allopurinol in a Pharmaceutical Formulation Using First Derivative Spectrophotometry. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
- 8.** **Erdal Dinç**, Eda Büker, Z.Ceren Ertekin, Application of Tucker3 Model to the Spectrofluorimetric Data for the Quantitation of an Antihypertensive Drug Combination. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
- 9.** Remziye Güzel, Z.Ceren Ertekin, **Erdal Dinç**, An Application of Trilinear PARAFAC Method to the UPLC PDA Data Array to the Simultaneous Quantitative Analysis of a Two Component Mixture. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.

10. Eda B ker, **Erdal Din**, Two and Three Way Calibration Methods for The Multicomponent Analysis of a Two Component Mixture in Commercial Eye Drop Preparation. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
11. **Erdal Din**, Z.Ceren Ertekin, Eda B ker, Ferdi Tokar, PARAFAC Approach to Spectrochromatographic Array for the Quantitative Resolution of a Two Component Mixture Containing Isoniazid and Pyridoxine Hydrochloride. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
12. **Erdal Din**, Z.Ceren Ertekin, Yasin Parlak, Simultaneous Determination of Clorsulon and Ivermectin in Veterinary Injectable Preparation by Wavelet Transform Approach. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
13. **Erdal Din**, Z.Ceren Ertekin, Eda B ker, Simultaneous Quantitative Analysis of a Ternary Mixture with PARAFAC Decomposition. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
14. Ferdi Tokar, Eda B ker, Z.Ceren Ertekin, **Erdal Din**, Development of a UPLC Method by Experimental Design and Optimization for Simultaneous Quantification of Isoniazid and Pyridoxine. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
15. Z.Ceren Ertekin, Eda B ker, Elif Varhan Oral, Berrin Ziyadanođulları, Hamdi Temel, Recep Ziyadanođulları, **Erdal Din**, One Dimensional Continuous Wavelet Transform Approaches to the Simultaneous Determination of Domperidone and Lansoprazole in Tablets. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
16.  zg r  st ndađ, Z.Ceren Ertekin, **Erdal Din**, Quantitative Analysis of a Pharmaceutical Preparation Containing Atorvastatin and Ezetibime by Spectral Continuous Wavelet Transform Method. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
17. **Erdal Din**, Eda B ker, Z.Ceren Ertekin, Simultaneous Quantitative Determination of a Two Component Mixture with Trilinear PLS Algorithm. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
18. Gamze Yavuz Uđurlu, Nuran  zaltın, **Erdal Din**, Spectrophotometric Determination of Risedronate Sodium in Pharmaceutical Preparations by Derivative and Continuous Wavelet Transforms. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
19. Sevcan Erden, Zehra Yazan, **Erdal Din**, Multivariate Curve Resolution Alternating Least Squares Method for the Determination of the pKa Value of Ascorbic Acid Using Square Wave Voltammetry. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
20. Remziye G zel, Z. Ceren Ertekin, Berrin Ziyadanođulları, **Erdal Din**, Recep Ziyadanođulları, Application of Three Different Wavelet Families for The Quantitative Resolution of Paracetamol and Methocarbamol in Tablets. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.

21. **Erdal Dinç**, Nurten Özdemir, Özgür Üstündağ, Günseli Tilkan, Eda Büker, One Dimensional Continuous Wavelet Transforms Applied to the Quantitative Resolution and In Vitro Dissolution Testing of TEN EMT Tablets. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
22. Sevcan Erden, Zehra Yazan, **Erdal Dinç**, PARAFAC and Multivariate Curve Resolution Approaches to the Determination of the pKa Value of Vanillin Using Square Wave Voltammetry. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
23. İbrahim Teğin, Z. Ceren Ertekin, **Erdal Dinç**, Multivariate Optimization Approach to the Microextraction Conditions for the Quantitation of Cloiquinol in Ointment. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
24. Eda Büker, **Erdal Dinç**, PLS and PCR approaches to the Spectrophotometric Quantitative Estimation of Dorzolamide Hydrochloride and Timolol Maleate in a Commercial Eye Drop Sample. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
25. Eda Büker, **Erdal Dinç**, Chemometric Optimization and UPLC Analysis of Dorzolamide Hydrochloride and Timolol Maleate in a Commercial Eye Drop Preparation. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
26. Eda Büker, **Erdal Dinç**, PLS and PCR Approaches for the Spectrophotometric Quantitative Estimation of Brimonidine Tartrate and Timolol Maleate in a Commercial Eye Drop Sample. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
27. **Erdal Dinç**, Nagehan Yaşar, Eda Büker, UPLC Method for the Simultaneous Quantitative Analysis of Ivermectin and Praziquantel in a Veterinary Formulation Using Univariate Least Square Calibration Technique. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
28. Mehmet Akyüz, Şevket Ata, **Erdal Dinç**, Berrin Gürler Ata, A Chemometric Optimization Method for Determination of Nitrosamines in Gastric Juices by GC MS, Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
29. Saadet Dermiş, Eda Büker, Z. Ceren Ertekin, **Erdal Dinç**, Univariate Calibration Model for the Chromatographic Analysis of Pantoprazole in Tablets. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
30. Gülsen Kendir, Ayşegül Köroğlu, Z. Ceren Ertekin, **Erdal Dinç**, Chromatographic Least Squares Regression Analysis for Verbascozide in Aloysia citriodora Palau Using UPLC Method. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
31. Ayşegül Köroğlu, **Erdal Dinç**, Z. Ceren Ertekin, Mesud Hürkul, Three Way Resolution of Poor Chromatographic Separation for the Quantification of Caffeic Acid and Chlorogenic Acid in Crithmum maritimum L. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.

32. Elif Varhan Oral, Z. Ceren Ertekin, Eda Bükler, **Erdal Dinç**, A Chemometric Optimization Approach for the Chromatographic Quantification of Domperidone and Lansoprazole in a Commercial Formulation Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
33. **Erdal Dinç**, Z. Ceren Ertekin, Sercan Singeç, Spectrophotometric analysis of lipid lowering combination tablet by bivariate and multivariate calibration techniques. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey.
34. **Erdal Dinç**, Z. Ceren Ertekin, Three Way Analysis of a Binary Mixture with PARAFAC Decomposition Model. Third International Conference on New Trends in Chemometrics and Applications, 25-28 May, 2016, Antalya, Turkey
35. **Erdal Dinç**, Z. Ceren Ertekin, Yunus Emre Ören, Simultaneous Determination of Clorsulon and Ivermectin in Veterinary Injectable Preparation by a New UPLC Method, International Eurasia Pharmacy Congress, 3-7 September 2015, Erzincan, Turkey
36. Saadet Dermiş, Z. Ceren Ertekin, Eda Bükler, **Erdal Dinç**, Ultra Performance Liquid Chromatography For The Determination Of Omeprazol In A Capsule Dosage Form, International Symposium on Pharmaceutical Sciences, June 9-12 2015, Ankara, Turkey
37. Z. Ceren Ertekin, **Erdal Dinç**, “Simultaneous Quantitative Determination of Hydrochlorothiazide and Olmesartan Medoxomil in Tablets by a New UPLC Method”, International Symposium on Pharmaceutical Sciences, June 9-12 2015, Ankara, Turkey
38. **Erdal Dinç**, Betül Sarıtaş, “Sülfametoksazol ve Trimetoprim Karışımının Deneysel Merkezi Bileşen Tasarım Metodolojisi Kullanılarak UPLC Yöntemi ile Analizi”, EsAn-2014 III. Eser Analiz Çalıştayı, Gaziosmanpaşa Üniversitesi, page 77, 15-18 May 2014, Tokat, Turkey
39. **Erdal Dinç**, Zehra Ceren Ertekin, Ghazal Rouhani, Deneysel Tasarım ve Optimizasyon Kullanılarak Aşırı Yüksek Basıncılı Sıvı Kromatografisi Yöntemi ile Hidroklorotiyazid ve Bisoprolol İçeren Farmasötik Preparatların Kantitatif Analizi”, EsAn-2014 III. Eser Analiz Çalıştayı, Gaziosmanpaşa Üniversitesi, page 167, 15-18 May 2014, Tokat, Turkey
40. **Erdal Dinç**, Ghazal Rouhani, Zehra Ceren Ertekin, “Hidroklorotiyazid-Bisoprolol Kombinasyonunu İçeren Tabletlerin Sürekli Dalgacık Dönüşüm Yöntemleri ile Miktar Tayinleri”, EsAn-2014 III. Eser Analiz Çalıştayı, Gaziosmanpaşa Üniversitesi, page 94, 15-18 May 2014, Tokat, Turkey
41. **Erdal Dinç**, Nurten Özdemir, Özgür Üstündağ and M. Günseli Tilkan, Spektral Sürekli Dalgacık Dönüşüm Yöntemleriyle Ticari Farmasötik Preparatlardaki Lamivudin ve Zidovudin’in Miktar Tayinleri ve Çözünme Hızı Testleri, XIII. Ulusal Spektroskopi Kongresi, Mehmet Akif Ersoy Üniversitesi, Sayfa 245, 15-18 Mayıs 2013
42. Özgür Üstündağ, **Erdal Dinç**, Simultaneous Quantitative Determination of a Binary Mixture Containing Angiotensin II Receptor Antagonists by Continuous Wavelet Transform, Ratio Spectra-Derivative Spectrophotometry and UPLC Techniques” 10. International Symposium on Pharmaceutical Sciences, Ankara Üniversitesi Eczacılık Fakültesi, Ankara, page 285, 26 - 29 Haziran 2012
43. Özgür Üstündağ, **Erdal Dinç**, Tablet Formülasyonundaki Etkin Maddelerin Sinyal İşleme ve UPLC Yöntemleri ile Spektrofotometrik ve Kromatografik Miktar Tayini, VI. Ulusal Analitik Kimya Kongresine, Mustafa Kemal Üniversitesi, Sayfa. 89, 3-7 Eylül 2012

44. **Erdal Dinç**, Yücel Kadiođlu, Faysal Selimođlu, Parasetamol, asetilsalisilik asit ve Askorbik asit içeren farmasötik preparatın UPLC-PCR ve UPLC-PLS yöntemleriyle kantitatif analizi, VI. Ulusal Analitik Kimya Kongresine, Mustafa Kemal Üniversitesi, Sayfa. 88, 3-7 Eylül 2012
45. Şahver Ege Hişmiođulları, E. Yarsan, **Erdal Dinç**, Boulus içindeki sülfadiazin ve trimetoprimin klasik küçük kareler kalibrasyon metodu ile aynı anda miktar tayinleri ve stabilite çalışmaları, VI. Ulusal Analitik Kimya Kongresine, Mustafa Kemal Üniversitesi, Sayfa. 290, 3-7 Eylül 2012
46. Özgür Üstündađ, **Erdal Dinç**, Chromatographic and spectrofotometric quantitative prediction of active compounds in a binary mixture by UPLC and signal processing methods, ISC 2012, 29th International Symposium on Chromatography, Toruń, Poland, September 9-13, 2012.
47. Özgür Üstündađ, **Erdal Dinç**, Simultaneous Quantitative Determination of a Binary Mixture Containing Angiotensin II Receptor Antagonists by Continuous Wavelet Transform, Ratio Spectra-Derivative Spectrophotometry and UPLC Techniques, First International Conference on New Trends in Chemometrics and Applications, Ankara University, Faculty of Pharmacy, 8-11 October, 2011
48. **Erdal Dinç**, "Contemporary chemistry conference" the 4th Edition of the National Symposium with International Participation, 14 May, 2010.
49. **Erdal Dinç**, "Quantitative resolution of a ternary mixture by using wavelet transforms and double divisor-ratio spectra" 4th Black Sea Basin Conference on Analytical Chemistry, Sunny Beach, Bulgaristan, P85, 2007.
50. **Erdal Dinç**, Özgür Üstündađ, "Artificial neural network for the simultaneous quantitative prediction of hydrochlorothiazide and losartan potassium in tablets", 8th International Symposium on Pharmaceutical Sciences (ISOP-8), June 13-16, 2006, Ankara, Turkey, P181, sayfa 299
51. Sacide Altınöz, **Erdal Dinç**, "Simultaneous determination of quinapril and hydrochlorothiazide in tablets by ratio spectra derivative spectrophotometric and chemometric methods", 8th International Symposium on Pharmaceutical Sciences (ISOP-8), June 13-16, 2006, Ankara, Turkey, P127, sayfa 245
52. Şeyda Demircan, İncilay Süslü, **Erdal Dinç**, Sacide Altınöz, "Continuous wavelet transform for the resolution of the overlapping voltammetric signals and simultaneous determination of levodopa and benserazide" 8th International Symposium on Pharmaceutical Sciences (ISOPS-8), June 13-16, 2006, Ankara, Turkey, P142, sayfa 260
53. Özgür Üstündađ ve **Erdal Dinç**, "Simultaneous quantitative resolution of the binary mixture containing hydrochlorothiazide and losartan potassium in tablets by one dimensional continuous wavelet transform", Drug Analysis 2006, 16-19 Mayıs 2006, PK 42.
54. **Erdal Dinç**, "Mexican hat wavelet function for the simultaneous determination of pyridoxine hydrochloride and isoniazide in tablets", Drug Analysis 2006, 16-19 Mayıs 2006, PK 11
55. Özgür Üstündađ ve **Erdal Dinç**, "Wavelet analysis for the simultaneous determination of angiotensin II receptor antagonists and hydrochlorothiazide in mixtures", MME 2006, 27-29 Nisan, 2006, sayfa 52
56. **Erdal Dinç**, Mihael-Cristina Baleanu, "Quantitative resolution of a binary mixture of quinapril and hydrochlorothiazide by continuous wavelet analysis", MME 2006, 27-29 Nisan, 2006, sayfa 22

57. İncilay Süslü, **Erdal Dinç**, Sacide Altınöz,” An application of continuous wavelet transform to electrochemical signals for the quantitative analysis”, MME 2006, 27-29 Nisan, 2006, sayfa 47
58. Murat Kanbur, **Erdal Dinç**, Halil Aksoy, Yılmaz Akdi, Ayşegül Taş, “Coiflets wavelet transform for the quantitative analysis of commercial veterinary powder product”, MME 2006, 27-29 Nisan, 2006, sayfa 32
59. **Erdal Dinç**, Dumitru Baleanu ve Kenan Taş, “A new fractional wavelet analysis for the composite signals of the components in binary mixtures”, MME 2006, 27-29 Nisan, 2006, sayfa 21
60. **Erdal Dinç**, Dumitru Baleanu ve Kenan Taş,”Continuous wavelet analysis for the ratio signals oh the absorpction spectra of binary mixtures”, MME 2006, 27-29 Nisan, 2006, sayfa 21
61. Hakan A. Aktaş, **Erdal Dinç**, Güzide Pektaş, “Wavelet transform for the simultaneous prediction of the colorants in foof product”, MME 2006, 27-29 Nisan, 2006, sayfa 5
62. **Erdal Dinç** ve Özgür Üstündağ,”Simultaneous determination of pyridoxine hydrochloride and isoniazide (INH) in tablets by chemometric methods, *Recent Developments in Pharmaceutical Analysis*, 25-28 Eylül, 2005, sayfa 34
63. **Erdal Dinç**, Saadet Dermiş ve Dumitru Baleanu, “Simultaneous spectrophotometric determination of chlordiazepoxide and clidinium bromide in capsules by partial least squares and principal component regression methods, *Recent Developments in Pharmaceutical Analysis*, 25-28 Eylül,2005, sayfa 64
64. **Dinç,E.**, Üstündağ, Ö., Spectrophotometric quantitative resolution of hydrochlorothiazide and spironolactone in tablets by chemometric methods of analysis, *7th International Symposium on Pharmaceutical Sciences (ISOP-7)*, June 24-27, 2003, Ankara, Turkey, P-12, sayfa 145.
65. **Dinç**, E., Yücesoy ve C., Onur, F., Spectrophotometric determination of acetaminophen and chlorzoxazone in tablets by multivariate calibration techniques, *Drug Analysis 2002 Symposium*, Bruges, Abstract book s.101, P 117,Belçika, 2002.
66. **Dinç**, E., Yücesoy, C., Palabıyık, I.M., Üstündağ, Ö. ve Onur, F., Simultaneous determination of estradiol valerate and cyproterone acetate by spectrophotometric and chemometric methods, *Drug Analysis 2002 Symposium*, Bruges, Abstract book, s.147, P 232, Belçika, 2002.
67. S., A., Özkan, Uslu, B. ve **Dinç**, E., “A chemometric study for simultaneous determination of losartan potassium and hydrochlorothiazide in tablets by classical least square and inverse least square techniques”, *6thInternational symposium on pharmaceutical sciences (ISOPS-6)*, Ankara, Abstract P10, Turkey, 2000
68. **Dinç**, E., Baleanu, D., “Two new spectrophotometric approach for the multicomponent analysis of the paracetamol and caffeine in in tablets by inverse least square (ILS) and principal component regression (PCR) techniques”, *6thInternational symposium on pharmaceutical sciences (ISOPS- 6)*, Ankara, Abstract P13, Turkey, 2000.
69. **Dinç**, E., Uslu, B., S.A.Özkan, “Spectral resolution of a binary mixture containing valsartan and hydrochlorothiazide in tablets by the ratio spectra derivative and inverse least square” (ILS) techniques, *6thInternational symposium on pharmaceutical sciences (ISOPS-6)*, Ankara, Abstract P9, 2000.

70. **Dinç, E.**, Baleanu D. ve F.Onur,Spectrophotometric multicomponent analysis for a mixture of metamizol, acetaminophen and caffeine in two pharmaceutical formulations by two chemometric techniques, 6th*International symposium on pharmaceutical sciences (ISOPS-6)*, Ankara, Abstract P11, Turkey, 2000.
71. **Dinç, E.**, Onur, F., Spectrophotometric analysis of a ternary mixture containing dextrometorphan hydrobromide, ephedrine hydrochloride and diphenhydramine hydrochloride in sugar-coated tablets by graphical and multivariate methods, 6th*International symposium on pharmaceutical sciences (ISOPS-6)*, Ankara, Abstract P16, Turkey,2000.
72. **Dinç,E.**,Baleanu,D., ve Onur, F., Chemometric quantitative analysis of pyridoxinehydrochloride and thiamine hydrochloride in a vitamin combination by principal component analysis, classical least square (CLS) and inverse least square (ILS) techniques, 6th*International symposium on pharmaceutical sciences (ISOPS-6)*, Ankara, Abstract P15, Turkey, 2000.
73. **Dinç, E.**, Spectrophotometric determination of cilazapril and hydrochlorothiazide in tablets by classical least square and inverse least square techniques, 6th*International symposium on pharmaceutical sciences (ISOPS-6)*, Ankara, P12, Turkey, 2000.
74. **Dinç, E.**, Two new spectral approach for the chemometric determination of benazeprilhydrochloride and hydrochlorothiazide in pharmaceutical tablets, 6th International symposium on pharmaceutical sciences (ISOPS-6) , Ankara, Abstract P17, Turkey, 2000.
75. **Dinç, E.**, Baleanu, D. ve Onur, F., "Two new chemometric approach for the spectrophotometric analysis of the codeine phosphate, acetylsalicylic acid and caffeine in tablets by inverse least square and principal component regression techniques, 6th *International symposium on pharmaceutical sciences (ISOPS-6)* , Ankara, Abstract P 14,Turkey, 2000.
76. **Dinç, E.** ve Onur, F., " Application of the ratio spectra derivative spectrophotometry and Vierordt's method to quantitative analysis of paracetamol and metamizol in a pharmaceutical formulation ", 5th *International Symposium on Pharmaceutical Sciences*, Ankara, Abstract p.5, Turkey, 1995.
77. **Dinç, E.** ve Onur, F., "Simultaneous determination of atropine sulfate and morphine hydrochloride in their binary mixture by spectra ratio derivative spectrophotometry", 4th *International Symposium on Pharmaceutical Sciences*, Ankara, Turkey, Abstract p.62, 1995.
78. **Dinç, E.** ve Onur, F., "Simultaneous determination of Chlorphenoxamine and caffeine in tablets by using first derivative UV spectrophotometry", 3th *International Symposium on Pharmaceutical Sciences*, Ankara, Abstract p.71, Turkey, 1993.
79. **Dinç, E.** ve Onur, F., "Simultaneous determination of cetrimide and chlorhexidine gluconate in their binary mixture by first derivative UV spectrophotometry", 3th *International Symposium on Pharmaceutical Sciences*, Ankara, Abstract p.70,Turkey, 1993.
80. Onur, F. ve **Dinç, E.**, "Determination of meclizine hydrochloride in tablets by ion-pair extraction with bromocresol green" 50th *International Congress of Pharmaceutical Sciences of F.I.P.*, İstanbul, Abstracts 267, Turkey,1990.
81. Onur, F. ve **Dinç, E.**, "Meklizin hidroklorür içeren tabletlerde etken maddelerin birinci türev UV spektrofotometrisi ile miktar tayinleri" *Uluslararası Katılımlı I.Eczacılık Bilimleri Sempozyumu*, Ankara,Bildiri Özetleri, Abstract P4, Türkiye, 1989.

XIII) ORAL PRESENTATIONS (AND INVITED LECTURES):

1. **Erdal Dinç,**'' Karışımların kantitatif analizde doğrusal regresyon fonksiyonlarına dayalı ''Bivarite'' ve ''Multivarite'' kalibrasyon yöntemleri ve analitik uygulamaları'' 5.Ulusal Analitik Kimya Kongresi, 21-25 Haziran, Atatürk Üniversitesi Eczacılık Fakültesi Analitik Kimya Ana Bilim Dalı, Erzurum (2010).
2. **Erdal Dinç,**''*Spektrofotometrik Analizlerde Sinyal İşleme Yöntemleri ve Uygulamaları*'' XI. Ulusal Spektroskopi Kongresi, 23-26 Haziran 2009, Gazi Üniversitesi Fen Edebiyat Fakültesi Kimya, Ankara.
3. **Erdal Dinç,** Gaetano Ragno, Giuseppina Ioele, M. De Luca, Dumitru Baleanu, ''*Fractional wavelet method for the simultaneous quantitative analysis of lacidipine and its photo-degradation product*'', 8th International Symposium on Pharmaceutical Sciences (ISOP-8), June 13-16, 2006, Ankara, Turkey, O4, P 102.
4. **Erdal Dinç,** ''*Continuous wavelets transform analysis and the mathematical resolution of the overlapping absorption spectra and their ratio signals for the multicomponent determination*'', MME 2006, 27-29 Nisan, 2006, Ankara, Turkey, P: 20
5. **Erdal Dinç,** Dumitru Baleanu, Kenan Taş, ''*Wavelet transform and drug analysis*'', Sampling theory and applications, International workshop (Samp Ta 05) , July, 10-15,2005, Samsun, Turkey P:19
6. **Erdal Dinç,** ''*Continuous wavelet transforms and simultaneous spectrophotometric quantitative analysis*'' *Recent Developments in Pharmaceutical Analysis*, 25-28 Eylül, 2005, Rimini, Italy, P: 42
7. **Erdal Dinç,** Dumitru Baleanu, ''*New method based on wavelets analysis and zero crossing technique for the high-resolution of the binary mixtures*'', 7th International Symposium on Pharmaceutical Sciences (ISOP-7), June 24-27, 2003, Ankara, Turkey, 0-6, sayfa 115.
8. **Erdal Dinç,** ''Sürekli dalgacık dönüşüm yöntemleri ve analitik uygulamaları'', *III. National Congress in Analytical Chemistry*, Çanakkale, 5-7 Temmuz 2006, Sayfa 33
9. **Erdal Dinç,** Kromatografi2008, Süleyman Demirel Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Isparta, 9-11 Haziran 2008, P.6, (Çağrılı Sunum-5)

XIV) REFEREE

1. Die Pharmazie
2. Journal of Pharmaceutical and Biomedical Analysis
3. Spectrochimica Acta Part A
4. Journal of AOAC International
5. Chromatographia
6. IL Farmaco
7. Talanta
8. Journal of Hazardous Materials
9. Journal of Chromatography A
10. Food Chemistry
11. Analytica Chmica Acta
12. Journal of Chromatographic Science

13. European Journal of Medicinal Chemistry
14. Journal of Hazardous Materials
15. Journal of Chemical Information and Computer Sciences
16. Journal of Separation Science
17. Spectroscopy Letters
18. Analytical Methods
19. Arabian Journal Of Chemistry

XV) PROJECTS :

- UPLC Method for the Analysis of Two-Component Pharmaceutical Preparations Containing Pyridoxine Hydrochloride Using Experimental Design and Optimization Techniques supported by the scientific research project number 16L0237004 of Ankara University BAP, (continues)
- Simultaneous quantitative determination of a three-component pharmaceutical preparation with the use of three-way calibration methods based on tensor mathematics, supported by the scientific research project number 16H0237006 of Ankara University BAP, (2016).
- Spektral Sinyal İşleme ve Deneysel Tasarım ve Optimizasyona Dayalı Aşırı Yüksek Basınçlı Sıvı Kromatografisi ve Yöntemleri İle Timolol Maleat İçeren Karışımlardaki Aktif Bileşiklerin Kantitatif Analizi, supported by the scientific research project number 214Z186 of The Scientific and Technological Research Council of Turkey (TÜBİTAK) (2016).
- Establishing Chemometrics Laboratory, supported by the scientific research project number 10A3336001 of Ankara University BAP, (2010).
- Development of the chemometric continuous wavelet transform tools and multivariate calibration methods for the simultaneous spectral determinations and the simultaneous spectral dissolution tests of the active compounds in the combined antiviral preparations and the comparison of the results obtained in the analysis of by the developed chemometric methods and ultra performance liquid chromatography, supported by the scientific research project No. 10A3336001 of Ankara University BAP, (2010).
- Kayseri Yöresinde Temin Edilen Yemlerin Organik Fosforlu ve Karbamatlı İnektilerle Kirlenme Durumlarının Gaz Kromatografisi ile Araştırılması, supported by the scientific research project number VA-05-02 of Erciyes University BAP, (2007).
- Sulfonamid Grubu Bazı Antibakteriyellerin ve Trimetoprimin Kanatlı Dokularındaki Kalıntıları Üzerine Çeşitli Pişirme ve Dondurma İşlemlerinin Etkileri, supported by the scientific research project number VA-06-12 of Erciyes University BAP, (2006).
- Bazı Fabaceae Familyası Bitkilerin İzoflavonoidleri ve Antioksidan Aktiviteleri Açısından İncelenmesi, supported by the scientific research project number 02-02 of Gazi University, BAP (2006).