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### Education Information

Doctorate, Yildiz Technical University, Fen-Edebiyat Fak., Kimya/Analitik Kimya, Turkey 1991 - 1995

Postgraduate, Yildiz Technical University, Fen-Edebiyat Fak., Kimya/Analitik Kimya, Turkey 1987 - 1990

Undergraduate, Yildiz Technical University, Fen-Edebiyat Fak., Kimya, Turkey 1983 - 1987

### Research Areas

Chemistry, Natural Sciences

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

- I. **Multivariate optimization of a new LC-MS/MS method for the determination of 156 pesticide residues in milk and dairy products**  
Gorel-Manav O., Dinc-Zor S., Akyildiz E., Alpdoğan G.  
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.100, pp.4808-4817, 2020 (Journal Indexed in SCI)
- II. **Solid phase extraction of beta-sitosterol and alpha-tocopherol from sunflower oil deodorizer distillate using desilicated zeolite**  
Karaoglu O., Alpdogan G., Ozdemir I. S., Ertas E.  
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- III. **Efficient solid phase extraction of  $\alpha$ -tocopherol and  $\beta$ -sitosterol from sunflower oil waste by improving the mesoporosity of the zeolitic adsorbent**  
Karaoglu O., Alpdoğan G., Zor Ş., Bildirir H., Ertas E.  
Food Chemistry, vol.311, 2020 (Journal Indexed in SCI)
- IV. **Optimization of a modified QuEChERS method by means of experimental design for multiresidue determination of pesticides in milk and dairy products by GC-MS**  
Manav O. G., Dinc-Zor S., ALPDOĞAN G.  
MICROCHEMICAL JOURNAL, vol.144, pp.124-129, 2019 (Peer-Reviewed Journal)
- V. **Solid Phase Extraction of Trace Al(III), Fe(II), Co(II), Cu(II), Cd(II) and Pb(II) Ions in Beverages on Functionalized Polymer Microspheres Prior to Flame Atomic Absorption Spectrometric Determinations**  
BERBER H., ALPDOĞAN G.  
ANALYTICAL SCIENCES, vol.33, no.12, pp.1427-1433, 2017 (Peer-Reviewed Journal)
- VI. **A New Dispersive Liquid-Liquid Microextraction Method for Preconcentration and Determination of Aluminum, Iron, Copper, and Lead in Real Water Samples by HPLC**

ALPDOĞAN G., ZOR S. D.

JOURNAL OF AOAC INTERNATIONAL, vol.100, no.5, pp.1524-1530, 2017 (Peer-Reviewed Journal)

- VII. **Pre-Column Chelation Liquid Chromatographic Determination of Trace Cu, Zn, Ni, Co, Fe, Cd and Hg in Fish Samples**  
ALPDOĞAN G., ZOR S. D., SAN N.  
CURRENT ANALYTICAL CHEMISTRY, vol.13, no.4, pp.291-298, 2017 (Journal Indexed in SCI)
- VIII. **Solid phase extraction of Cu (II), Ni (II), Co (II), and Fe (III) ions in water samples using salicylaldehyde benzoylhydrazone on Amberlite XAD-4 and their determinations by flame atomic absorption spectrometry**  
ALPDOĞAN G.  
TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY, vol.98, no.2, pp.179-188, 2016 (Journal Indexed in SCI)
- IX. **Preconcentration and Determination of Iron, Nickel, Lead and Zinc after Solid Phase Extraction using 5-Aphen Functionalized poly(GMA-MMA-DVB) Microspheres**  
ALPDOĞAN G., YAMAK H., ZOR S. D., ELMALI F.  
CURRENT ANALYTICAL CHEMISTRY, vol.12, no.5, pp.500-509, 2016 (Journal Indexed in SCI)
- X. **SOLID PHASE EXTRACTION METHOD FOR THE DETERMINATION OF TRACE METAL IONS BY ATOMIC ABSORPTION SPECTROMETRY USING AMBERLITE XAD-16 LOADED WITH BTAMB**  
ALPDOĞAN G.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.25, no.8, pp.2900-2908, 2016 (Journal Indexed in SCI)
- XI. **Analysis of Some Trace Metals in Fish Species after Preconcentration with Congo Red on Amberlite XAD 7 Resin by Flame Atomic Absorption Spectrometry**  
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- XII. **Analysis of Some Trace Metals in Milk Samples by FAAS After Preconcentration by Aspergillus niger Loaded on TiO<sub>2</sub> Nanoparticles**  
ALPDOĞAN G., ZOR S. D., PEKSEL A.  
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- XIII. **preparation and metal sorption properties of GMA-MMA-DVB Microspheres Functionalized with 2-aminothiazole**  
BERBER H., ALPDOĞAN G., AŞÇI B., YILDIRIM H., SUNGUR S.  
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- XIV. **Liquid chromatographic determination of Co ( II ), Cu ( II ), Ni(II ) and Fe( II ) using di-2-pyridylketon(DPKT) as derivatizing reagent**  
AŞÇI B., ALPDOĞAN G., SUNGUR S.  
Journal Of Liquid Chromatography & Related Technologies, vol.31, no.9, pp.1299-1305, 2008 (Journal Indexed in SCI Expanded)
- XV. **High pressure liquid chromatographic investigation of the pH and temperature effect on the solution stability of lisinopril**  
AYTAN F., ALPDOĞAN G., SUNGUR S.  
REVIEWS IN ANALYTICAL CHEMISTRY, vol.26, no.1, pp.55-64, 2007 (Journal Indexed in SCI)
- XVI. **Preconcentration of some trace metal ions from drinking and tap water samples by sorption on amberlite XAD-4 after complexation with di-2-pyridyl ketone thiosemicarbazone**  
AŞÇI B., ALPDOĞAN G., SUNGUR S.  
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- XVII. **Determination of ternary mixtures of food dyes by zero-crossing derivative spectrophotometry**  
ALPDOĞAN G., ÖZGÜR M.  
CHEMIA ANALITYCZNA, vol.50, no.3, pp.593-603, 2005 (Journal Indexed in SCI)
- XVIII. **Differential pulse polarographic determination of enalapril maleate**  
ELMALI F., ALPDOĞAN G., AYCAN S., SUNGUR S.  
TURKISH JOURNAL OF CHEMISTRY, vol.27, no.1, pp.65-69, 2003 (Journal Indexed in SCI)
- XIX. **A rapid spectrophotometric method to resolve ternary mixtures of propyphenazone, caffeine, and**

#### **acetaminophen in tablets**

OZGUR M., Alpdogan G., ASCI B.

MONATSHEFTE FUR CHEMIE, vol.133, no.2, pp.219-223, 2002 (Journal Indexed in SCI)

- XX. **Zero-crossing derivative spectrophotometric determination of mixtures of sunset yellow and erythrosine in pure form and in tablets**  
OZGUR M., Alpdogan G., KOYUNCU I.  
ANALYTICAL LETTERS, vol.35, no.4, pp.721-732, 2002 (Journal Indexed in SCI)
- XXI. **Derivative spectrophotometric determination of caffeine in some beverages**  
Alpdogan G., KARABINA K., SUNGUR S.  
TURKISH JOURNAL OF CHEMISTRY, vol.26, no.2, pp.295-302, 2002 (Journal Indexed in SCI)
- XXII. **Determination of homocystine as dabsyl derivative by HPLC using precolumn derivatization**  
Alpdogan G., SUNGUR S.  
ANALYTICAL LETTERS, vol.33, no.13, pp.2645-2651, 2000 (Journal Indexed in SCI)
- XXIII. **Polarographic determination of fluvoxamine maleate in tablets**  
ELMALI F., Alpdogan G., SUNGUR S., AYCAN S.  
TURKISH JOURNAL OF CHEMISTRY, vol.24, no.3, pp.299-302, 2000 (Journal Indexed in SCI)
- XXIV. **AAS and spectrophotometric methods for the determination metoprolol tartrate in tablets**  
Alpdogan G., SUNGUR S.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.55, no.13, pp.2705-2709, 1999 (Journal Indexed in SCI)
- XXV. **Indirect determination of some analgesic-inflammatory drugs by AAS**  
Alpdogan G., SUNGUR S.  
ANALYTICAL LETTERS, vol.32, no.14, pp.2799-2808, 1999 (Journal Indexed in SCI)
- XXVI. **Analysis of acetaminophen and phenobarbital in suppositories by first derivative spectrophotometry**  
**Analyse von acetaminophen und phenobarbital in suppositorien mittels spektralphotometrie**  
ALPDOĞAN G., SUNGUR S.  
Scientia Pharmaceutica, vol.65, no.4, pp.247-251, 1997 (Journal Indexed in SCI Expanded)
- XXVII. **Determination of metoprolol tartrate as Cu(II)dithiocarbamate complex**  
Alpdogan G., SUNGUR S.  
ANALYTICAL LETTERS, vol.30, no.7, pp.1359-1368, 1997 (Journal Indexed in SCI)
- XXVIII. **Spectrophotometric Determination of Acebutolol Hydrochloride in tablet form by ion-pair extraction with bromthymol blue(BTB)**  
ALPDOĞAN G., SUNGUR S.  
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- XXIX. **Comparison of HPLC and Derivative Spectrophotometric Methods for the Determination of Paracetamol and Caffeine in Tablets**  
ALPDOĞAN G., Ersoy L., SUNGUR S.  
PHARMAZIE, vol.46, no.12, pp.885, 1991 (Journal Indexed in SCI Expanded)

#### **Articles Published in Other Journals**

- I. **Optimization of Ultrasound-Assisted Extraction of Antioxidants from Apium graveolens L. Seeds using Response Surface Methodology**  
Dinç Zor Ş., Bat M., Peksel A., Alpdogan G.  
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.4, pp.915-930, 2017 (Other Refereed National Journals)
- II. **Optimization of Ultrasound-Assisted Extraction of Antioxidants from Apium graveolens L. Seeds using Response Surface Methodology**  
DİNÇ ZOR Ş., Bat M., Peksel A., ALPDOĞAN G.  
Journal of the Turkish Chemical Society, Section A: Turkish Journal of Chemistry, vol.4, no.3, pp.915-930, 2017

(Other Refereed National Journals)

- III. **Al(III), Cu(II), Co(II), Pb(II), Mn(II), and Fe(III) DETERMINATIONS IN VARIOUS SAMPLES by FAAS AFTER SOLID PHASE EXTRACTION**  
Dinç Zor Ş., Alpdoğan G.  
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.3, pp.145-166, 2016 (Other Refereed National Journals)
- IV. **Extractive-spectrophotometric determination of tertatolol hydrochloride**  
ALPDOĞAN G.  
Chimica Acta Turcica, vol.25, pp.31, 1997 (International Refereed University Journal)
- V. **Spectrophotometric Determination of Acebutolol Hydrochloride with Iron(III) Thiocyanate**  
ALPDOĞAN G., SUNGUR S.  
YTÜ Dergisi, pp.65, 1997 (National Refreed University Journal)
- VI. **Spectrophotometric Determination of Nadolol in Tablets**  
ALPDOĞAN G., SUNGUR S.  
YTÜ Dergisi, vol.4, pp.70, 1994 (National Refreed University Journal)
- VII. **Spectrophotometric Determination of Atenonol by ion pair extraction Technique**  
SUNGUR S., ALPDOĞAN G.  
Marmara Eczacılık Dergisi, vol.7, pp.63, 1991 (National Refreed University Journal)

## Books & Book Chapters

- I. **Factorial design in the optimization of preconcentration procedure for Aluminum determination by AAS**  
DİNÇ ZOR Ş., BOZDOĞAN A. E., ALPDOĞAN G., ASCI B., SUNGUR S.  
in: Innovations in Chemical Biology, Sener,B, Editor, Springer,Po Box 17,3300Aa, Dordrecht,Netherlands, Dordrecht, pp.313-317, 2009

## Refereed Congress / Symposium Publications in Proceedings

- I. **OPTIMIZATION BY BOX- BEHNKEN DESIGN AND VALIDATION OF A MULTIRESIDUE METHOD FOR PESTICIDE DETERMINATION IN DAIRY PRODUCTS USING LC-MS/MS (ORAL PRESENTATION)**  
Görel Manav Ö., DİNÇ ZOR Ş., ALPDOĞAN G.  
5th International Congress on Fundamental and Applied Sciences 2018 (ICFAS2018), Üsküp, Macedonia, 18 June 2018, pp.2
- II. **Optimization Of Solid Phase Extraction By Experimental Design Methodology For Seperation of Sterol And Tocopherol In Sunflower Oil Deodorizer Distillate Using Zeolite As A Novel Sorbent (Sözlü Sunum)**  
Karaoğlu O., ALPDOĞAN G., Ertaş E., DİNÇ ZOR Ş.  
8th Black Sea Basin Conference on Analytical Chemistry, İstanbul, Turkey, 09 May 2018, pp.1
- III. **Optimization Of Solid-Phase Extraction By Experimental Design Methodology For Seperation of Sterol And Tocopherol In Sunflower Oil Deodorizer Distillate Using Zeolite As A Novel Sorbent**  
Karaoğlu Ö., Alpdoğan G., Ertaş E., Dinç Zor Ş.  
8th Black Sea Basin Conference on Analytical Chemistry, İstanbul, Turkey, 9 - 11 May 2018
- IV. **Synthesis,Characterisation and Application of New Zeolite-Based Sorbents for solid phase Extraction**  
Karaoğlu Ö., Ertaş E., ALPDOĞAN G.  
3rd International Porous and Powder Materials Symposium and Exhibition PPM 2017, İzmir, Turkey, 12 September 2017, pp.6
- V. **BAZI AĞIR METALLERİN ASPERGILLUS NIGER İLE MODİFİYE EDİLMİŞ TiO<sub>2</sub> NANOPARÇALARI İÇEREN KARBON PASTE ELEKTROD İLE VOLTAMETRİK BELİRLENMESİ**

Akdoğan D., CANKURTARAN H., Peksel A., Alpdoğan G.

8. Ulusal Kimya Öğrenci Kongresi, İstanbul, Turkey, 16 May 2017

- VI. **Optimization Of Ultrasound-Assisted Extraction Of Antioxidants From Fenugreek Seeds And Comparison With Conventional Method**  
Bat M., Peksel A., DİNÇ ZOR Ş., Alpdoğan G.  
rd International Conference on New Trends in Chemistry, Helsinki, Finland, 28 April 2017, pp.57-58
- VII. **Voltammetric Determination of some Heavy metals using a carbon paste electrode modified with aspergillus niger loaded on TiO<sub>2</sub> nanoparticles**  
Akdoğan D., CANKURTARAN H., PEKSEL A., ALPDOĞAN G.  
3rd International Conference on New Trends in Chemistry, Helsinki, Finland, 28 - 30 April 2017
- VIII. **Chemometric approach to the optimization of extraction and clean-up parameters for the analysis of multiclass pesticide in Milk**  
Görel Manav Ö., ALPDOĞAN G.  
II.International Turkic World Conference on Chemical Sciences and Technologies(ITWCCST 2016 ), Skopje, Macedonia, 26 October 2016, pp.10
- IX. **A New Method for Simultaneous Determination of Al(III), Fe(III), Cu(II) and Pb(II) as Metal-Hematoxylin Chelates by DLLME-HPLC-VWD System (Oral Presentation)**  
DİNÇ ZOR Ş., Alpdoğan G.  
10. AEGEAN ANALYTICAL CHEMISTRY DAYS, Çanakkale, Turkey, 29 September 2016, pp.1
- X. **A New Method for Simultaneous Determination of Al III Fe III Cu II and Pb II as Metal Hematoxylin Chelates by DLLME HPLC VWD System**  
DİNÇ ZOR Ş., ALPDOĞAN G.  
10th AEGEAN ANALYTICAL CHEMISTRY DAYS, Çanakkale, Turkey, 29 September - 02 October 2016
- XI. **Effect of Solvents ,salts and sorbents used to analysis of pesticide residues in milk by dispersive solid phase extraction and LC-MS-MS Method**  
Görel Manav Ö., ALPDOĞAN G.  
10thAegean Analytical Chemistry Days International Conference, Çanakkale, Turkey, 29 September 2016, pp.78
- XII. **A new method for simultaneous determination of Al(III),Fe(III),Cu(II)and Pb(II)as metal-hematoxylin chelates by DLLME-HPLC-VWD system**  
DİNÇ ZOR Ş., ALPDOĞAN G.  
10thAegean Analytical Chemistry Days International Conference, Çanakkale, Turkey, 29 September 2016, pp.55
- XIII. **Al (III), Cu (II), Co (II), Pb (II), Mn (II), and Fe (III) determinations in various samples by FAAS after solid phase extraction**  
DİNÇ ZOR Ş., Alpdoğan G.  
28. Ulusal Kimya Kongresi, Mersin, Turkey, 28 August 2016, pp.1
- XIV. **Al(III) Cu(II) Co(II) Pb(II) Mn(II) and Fe(III) determinations in various samples by FAAS after solid phase extraction**  
DİNÇ ZOR Ş., ALPDOĞAN G.  
28. Ulusal Kimya Kongresi, Mersin, Turkey, 15 - 21 August 2016
- XV. **Determination of trace metals in milk samples by atomic absorption spectrophotometry after preconcentration by aspergillus niger**  
ALPDOĞAN G., SAN N., Kaya D.  
12th International Conference on the Fundamentals of adsorption ( FOA 2016 ), Freidrichshafen, Germany, 29 May 2016, pp.267
- XVI. **Determination of Trace Metals in Milk Samples by Atomic Absorption Spectrophotometry after Preconcentration by Aspergillus Niger Immobilized on TiO<sub>2</sub> Nanoparticles**  
Alpdoğan G., SAN N., Kaya D.  
12th International Conference on The Fundamentals of Adsorption (FOA12), Friedrichshafen/Lake Constance, Germany,P.234, Germany, 29 May 2016, pp.267
- XVII. **Pre-column chelation liquid chromatographic determination of trace copper, zinc, nickel, cobalt, iron and mercury in fish samples**

- Alpdoğan G.  
XVI Latin-American Congress on Chromatography (XVICOLACRO), Lisbon, Portugal, 05 January 2016, pp.425
- XVIII. **Pre column chelation liquid chromatographic determination of trace copper zinc nickel cobalt iron and mercury in fish samples**  
ALPDOĞAN G., DİNÇ ZOR Ş.  
XVI Latin-American Congress on Chromatography (XVICOLACRO), Lisbon, Portugal, 5 - 09 January 2016, pp.425
- XIX. **Solid phase extraction of trace metals in environmental samples using BTAMB-loaded amberlite XAD-16 and determination by AAS**  
ALPDOĞAN G.  
International Symposium on Molecular Chemistry, İstanbul, Turkey, 18 December 2014, pp.57
- XX. **Preparation of Alginate-Gelatine-Metoprolol Tartrate Composite Microbeads**  
ALPDOĞAN G., Yazıcılar P., DİNÇ Ş.  
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- XXI. **Preparation of alginate-gelatine-metoprolol composite microbeads**  
ALPDOĞAN G., Yazıcılar P., DİNÇ ZOR Ş.  
2nd International BAU-Drug Design Symposium Novel methods and emerging targets in drug discovery and patented drug developed, İstanbul, Turkey, 17 April 2014, pp.165
- XXII. **Formulation and Evaluation of Metoprolol Tartrate for Controlled Release System**  
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- XXIII. **Preparation of Alginate-Eudragit-Etodolac Composite Microspheres For Controlled Drug Release**  
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- XXIV. **Amberlite XAD-16 Üzerinde Kompleksleri Halinde Mn(II), Fe(III) ve Co(II) nin Özenleştirilmesi ve AAS ile Tayini**  
DİNÇ Ş., ALPDOĞAN G.  
XII. Ulusal Spektroskopi Kongresi, Antalya, Turkey, 18 - 22 May 2011
- XXV. **Use of GMA-MMA-DVB Microspheres Functionalized with 5-Amino-1,10-Phenanthroline for Preconcentration and Determination of Fe (II) by AAS**  
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- XXVI. **AAS and Spectrophotometric Determination of Labetalol in Tablet**  
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7th Aegean Analytical Chemistry Days, Lesvos, Greece, 29 September - 03 October 2010, pp.186
- XXVII. **Fe(II) ve Cu(II)'nin Katı Faz Ekstraksiyonu ile Zenginleştirilmesi ve AAS ile Tayini**  
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5. Ulusal Analitik Kimya Kongresi, Erzurum, Turkey, 21 - 25 June 2010
- XXVIII. **Factorial Design in the Optimization of Preconcentration Procedure for Aluminum Determination by AAS**  
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- XXIX. **High Pressure Liquid Chromatographic Investigation Of The pH Effect On The Solution Stability Of Lisinopril**  
AYTAN KILIÇARSLAN F., ALPDOĞAN G., SUNGUR S.  
2nd Black Sea Basin Conference on Analytical Chemistry, İstanbul, Turkey, 14 September 2003, pp.76
- XXX. **A rapid derivative spectrophotometric method of Co(II),Cu(II),Zn(II) mixtures using di-2-pyridyl ketone thiosemicarbazone (DPKT) as reagent**  
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- XXXI. **Liquid Chromatographic separation of Co(II),Cu(II),Ni(II),Fe(II) using Di-2-pyridyl ketonethiosemicarbazone(DPKT)as derivatizing reagent**

- ASCI B., ALPDOĞAN G., SUNGUR S.  
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- XXXII. **Preconcentration of copper on murexide impregnated amberlite XAD-4 resin**  
Çorbacioğlu A., ALPDOĞAN G., SUNGUR S.  
2nd Black sea basin conference on Analytical Chemistry, İstanbul, Turkey, 14 September 2003, pp.70
- XXXIII. **Enrichment of trace amount of Iron(II) on amberlite XAD-4 after complexation with di-2-pyridyl ketone Thiosemicarbazone(DPKT) as derivatizing reagent**  
AŞÇI B., ALPDOĞAN G., SUNGUR S.  
2nd Black sea basin conference on Analytical Chemistry, İstanbul, Turkey, 14 September 2003, pp.94
- XXXIV. **Determination of protonation and stability constant of di-2-pyridyl ketonethiosemicarbazone (DPKT) and its metal complexes**  
ALPDOĞAN G., BOZDOĞAN A. E. , AŞÇI B., SUNGUR S.  
The fifth International conference on chemical physics, İstanbul, Turkey, 31 October 2002
- XXXV. **Simultaneous derivative spectrophotometric determination of Co(II), Fe(II), Cu(II) using di-2-pyridyl keton thiosemicarbazone (DPKT) without extraction**  
Asci B., Alpdoğan G., Sungur S.  
3rd Aegean Analytical Chemistry Days, Mitilini, Greece, 29 September 2002, pp.615-617
- XXXVI. **A rapid spectrophotometric method to resolve ternary mixtures of sunset yellow, tartrazine and beetroot red in powder drinks**  
ALPDOĞAN G., ÖZGÜR M.  
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- XXXVII. **Determination of food dyes in ternary mixtures by derivative spectrophotometry using Zero-crossing**  
ÖZGÜR M., ALPDOĞAN G.  
MBCAC III Mediterranean Basin Conference on Analytical Chemistry, Antalya, Turkey, 03 June 2000, pp.183
- XXXVIII. **Analysis of Acetaminophen, caffeine and propylphenazone in tablets by fourth derivative spectrophotometry**  
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37th IUPAC Congress, Berlin, Germany, 14 August 1999, pp.742
- XXXIX. **Determination of homocysteine as dabsyl derivative by hplc**  
ALPDOĞAN G., SUNGUR S.  
36th IUPAC Congress, Cenevre, Switzerland, 17 August 1997, pp.407
- XL. **Amberlite XAD-16 Üzerinde Kompleksleri Halinde Mn(II), Fe(III) ve Co(II) nin Önzenginleştirilmesi ve AAS ile Tayini.**  
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XII. Ulusal Spektroskopi Kongresi, Erzurum, Turkey, pp.1
- XLI. **Fe(II) ve Cu(II)'nin Katı Faz Ekstraksiyonu ile Zenginleştirilmesi ve AAS ile Tayini.**  
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5. Ulusal Analitik Kimya Kongresi,, Erzurum, Turkey, pp.1

## Supported Projects

ALPDOĞAN G., Project Supported by Higher Education Institutions, SÜT ve SÜT ÜRÜNLERİNDE PESTİSİT ANALİZİ İÇİN DENEYSEL TASARIM UYGULAMALARI, 2014 - 2017

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