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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. **Optimization of ultrasonic-assisted extraction of antioxidants from lemon peel waste using response surface methodology and multi-response desirability function**  
Tan-Erkoç N., Dinç Zor Ş., Alpdoğan G., Peksel A.  
Journal Of The Indian Chemical Society, vol.97, pp.2482-2489, 2020 (SCI-Expanded)
- II. **Multivariate optimization of a new LC-MS/MS method for the determination of 156 pesticide residues in milk and dairy products**  
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- III. **Solid phase extraction of beta-sitosterol and alpha-tocopherol from sunflower oil deodorizer distillate using desilicated zeolite**  
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- V. **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 (SCI-Expanded)
- VI. **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.  
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- VII. **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.  
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- VIII. **Pre-Column Chelation Liquid Chromatographic Determination of Trace Cu, Zn, Ni, Co, Fe, Cd and Hg in Fish Samples**  
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- IX. **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 (SCI-Expanded)
- X. **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.  
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- XI. **SOLID PHASE EXTRACTION METHOD FOR THE DETERMINATION OF TRACE METAL IONS BY ATOMIC ABSORPTION SPECTROMETRY USING AMBERLITE XAD-16 LOADED WITH BTAMB**  
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- XII. **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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- XIII. **Analysis of Some Trace Metals in Milk Samples by FAAS After Preconcentration by Aspergillus niger Loaded on TiO<sub>2</sub> Nanoparticles**  
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- XIV. **preparation and metal sorption properties of GMA-MMA-DVB Microspheres Functionalized with 2-aminothiazole**  
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- XV. **Liquid chromatographic determination of Co ( II ), Cu ( II ), Ni(II ) and Fe( II ) using di-2-pyridylketon(DPKT) as derivatizing reagent**  
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- XVI. **High pressure liquid chromatographic investigation of the pH and temperature effect on the solution stability of lisinopril**  
AYTAN F., ALPDOĞAN G., SUNGUR S.  
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- XVII. **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**  
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- XVIII. **Determination of ternary mixtures of food dyes by zero-crossing derivative spectrophotometry**  
Alpdogan G., Ozgur M.  
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- XIX. **Differential pulse polarographic determination of enalapril maleate**

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- XXI. **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 (SCI-Expanded)
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TURKISH JOURNAL OF CHEMISTRY, vol.26, no.2, pp.295-302, 2002 (SCI-Expanded)
- XXIII. **Determination of homocystine as dabsyl derivative by HPLC using precolumn derivatization**  
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- XXIV. **Polarographic determination of fluvoxamine maleate in tablets**  
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- XXV. **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 (SCI-Expanded)
- XXVI. **Indirect determination of some analgesic-inflammatory drugs by AAS**  
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ANALYTICAL LETTERS, vol.32, no.14, pp.2799-2808, 1999 (SCI-Expanded)
- XXVII. **Analysis of acetaminophen and phenobarbital in suppositories by first derivative spectrophotometry**  
**Analyse von acetaminophen und phenobarbital in suppositorien mittels spektralphotometrie**  
ALPDOĞAN G., SUNGUR S.  
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- XXVIII. **Determination of metoprolol tartrate as Cu(II)dithiocarbamate complex**  
Alpdogan G., SUNGUR S.  
ANALYTICAL LETTERS, vol.30, no.7, pp.1359-1368, 1997 (SCI-Expanded)
- XXIX. **Spectrophotometric Determination of Acebutolol Hydrochloride in tablet form by ion-pair extraction with bromthymol blue(BTB)**  
ALPDOĞAN G., SUNGUR S.  
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- XXX. **Comparison of HPLC and Derivative Spectrophotometric Methods for the Determination of Paracetamol and Caffeine in Tablets**  
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## 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 (Peer-Reviewed Journal)
- II. **Optimization of Ultrasound-Assisted Extraction of Antioxidants from Apium graveolens L. Seeds using Response Surface Methodology**

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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 (Peer-Reviewed Journal)

IV. **Extractive-spectrophotometric determination of tertatolol hydrochloride**

ALPDOĞAN G.

Chimica Acta Turcica, vol.25, pp.31, 1997 (Peer-Reviewed Journal)

V. **Spectrophotometric Determination of Acebutolol Hydrochloride with Iron(III) Thiocyanate**

ALPDOĞAN G., SUNGUR S.

YTÜ Dergisi, pp.65, 1997 (Peer-Reviewed Journal)

VI. **Spectrophotometric Determination of Nadolol in Tablets**

ALPDOĞAN G., SUNGUR S.

YTÜ Dergisi, vol.4, pp.70, 1994 (Peer-Reviewed Journal)

VII. **Spectrophotometric Determination of Atenonol by ion pair extraction Technique**

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## Books

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

## Papers Published in Refereed Scientific Meetings

I. **OPTIMIZATION BY BOX- BEHNKEN DESIGN AND VALIDATION OF A MULTIRESIDUE METHOD FOR PESTICIDE DETERMINATION IN DAIRY PRODUCTS USING LC-MS/MS (ORAL PRESENTATION)**

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II. **Optimization Of Solid Phase Extraction By Experimental Design Methodology For Separation 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 Separation of Sterol And Tocopherol In Sunflower Oil Deodorizer Distillate Using Zeolite As A Novel Sorbent**

Karaoğlu Ö., Alpdoğan G., Ertaş E., Dinç Zor Ş.

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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 Comparision 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**  
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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.

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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.  
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- XX. Preparation of Alginate-Gelatine-Metoprolol Tartrate Composite Microbeads**  
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- XXI. Preparation of alginate-gelatine-metoprolol composite microbeads**  
ALPDOĞAN G., Yazıcılar P., DİNÇ ZOR Ş.  
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- 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 Önzenginleştirilmesi ve AAS ile Tayini**  
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- 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**  
ALPDOĞAN G., AŞÇI B., Sungur S., DİNÇ Ş.  
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- XXVII. Fe(II) ve Cu(II)'nin Katı Faz Ekstraksiyonu ile Zenginleştirilmesi ve AAS ile Tayini**  
DİNÇ Ş., ALPDOĞAN G., AŞÇI B., Sungur S.  
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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9th Eurasia Conference on Chemical Sciences, Antalya, Turkey, 9 - 13 September 2006, pp.313-317
- XXIX. High Pressure Liquid Chromatographic Investigation Of The pH Effect On The Solution Stability Of Lisinopril**  
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- 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**

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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**

AŞCI 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., AŞCI 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**

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XXXVII. **Determination of food dyes in ternary mixtures by derivative spectrophotometry using Zero-crossing**

ÖZGÜR M., ALPDOĞAN G.

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XXXVIII. **Analysis of Acetaminophen,caffeine and prophylphenazonein tablets by fourth derivative spectrophotometry**

ALPDOĞAN G., ÖZGÜR M., AŞCI B.

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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.**

DİNÇ ZOR Ş., ALPDOĞAN G.

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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## Supported Projects

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

## Metrics

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