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Education Information

Doctorate, Yildiz Technical University, Fen Edebiyat /Fen Bilimleri, Kimya, Turkey 1990 - 1995

Postgraduate, Yildiz Technical University, Fen Edebiyat, Kimya, Turkey 1987 - 1989

Undergraduate, Istanbul University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 1982 - 1986

Research Areas

Chemistry, Analytical Chemistry, Separation Methods, Sample preparation, Spectroscopical Methods, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 1999 - 2007

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 1987 - 1995

Courses

Modern Analiz Teknikleri, Postgraduate, 2019 - 2020

Mesleki Terminoloji, Undergraduate, 2019 - 2020

Analytical Chemistry 1, Undergraduate, 2019 - 2020

İleri Analitik Kimya 2, Postgraduate, 2018 - 2019

Analytical Chemistry2, Undergraduate, 2018 - 2019

İyonik Dengeler, Postgraduate, 2019 - 2020

Çevre Kimyası, Postgraduate, 2017 - 2018

Tekstil Kimyası, Undergraduate, 2017 - 2018

PESTİSİTLER VE PESTİSİT KALITILARININ ANALİZİ, Postgraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- Determination of copper and cobalt in different tea samples at trace levels by FAAS after preconcentration with a novel iron PAMAM-OH-encapsulated magnetic nanoparticle as SPE sorbent**

YILMAZ Ö., KOYUNCU İ.

Analytical Sciences, vol.40, no.4, pp.633-641, 2024 (SCI-Expanded)

- II. **Development of an analytical method for the determination of pesticides in tropical fruits by LC-QTOF-MS/MS after QuEChERS extraction sample cleanup and DLLME preconcentration**
Sel S., Er E. Ö., KOYUNCU İ.
Methods and applications in fluorescence, vol.12, no.1, 2023 (SCI-Expanded)
- III. **Validation of Stability-Indicating RP-HPLC Method and Determination of Impurities by LC-QTOF-MS for Adenosine in Eye Drops**
Caliskan C., KOYUNCU İ.
JOURNAL OF AOAC INTERNATIONAL, vol.105, pp.950-956, 2022 (SCI-Expanded)
- IV. **Metal adsorption properties of multi-functional PAMAM dendrimer based gels**
BASKIN D., YILMAZ Ö., Islam M. N., TÜLÜ M., KOYUNCU İ., EREN T.
JOURNAL OF POLYMER SCIENCE, vol.59, no.14, pp.1540-1555, 2021 (SCI-Expanded)
- V. **Accurate and Sensitive Analytical Strategy for the Determination of Antimony: Hydrogen Assisted T-Shaped Slotted Quartz Tube-Atom Trap-Flame Atomic Absorption Spectrometry**
UNUTKAN T., KOYUNCU İ., Diker C., Fırat M., Büyükpınar Ç., BAKIRDERE S.
Bulletin of Environmental Contamination and Toxicology, vol.102, no.1, pp.122-127, 2019 (SCI-Expanded)
- VI. **Fabrication of TiO₂ Cathodes by Anodic Oxidation for Hydrogen Generation from Electrolysis of Water**
Koyuncu İ., Kahraman E.
Journal of Chemistry, vol.4, no.3, pp.1-7, 2014 (SCI-Expanded)
- VII. **An efficient GC-IDMS method for determination of PBDEs and PBB in plastic materials**
BİNİCİ B., Bilsel M., KARAKAS M., KOYUNCU İ., GÖREN A. C.
TALANTA, vol.116, pp.417-426, 2013 (SCI-Expanded)
- VIII. **Determination of zinc, nickel and cadmium in natural water samples by flame atomic absorption spectrometry after preconcentration with ion exchange and flotation techniques**
Akcın N., KOYUNCU İ., Akcın G.
REVIEWS IN ANALYTICAL CHEMISTRY, vol.30, no.2, pp.65-71, 2011 (SCI-Expanded)
- IX. **COMPARATIVE STUDY OF ION-EXCHANGE AND FLOTATION PROCESSES FOR THE REMOVAL OF Cu²⁺ AND Pb²⁺ IONS FROM NATURAL WATERS**
KOYUNCU İ., Akcın N., AKÇİN G., Mutlu K. F.
REVIEWS IN ANALYTICAL CHEMISTRY, vol.29, no.2, pp.93-106, 2010 (SCI-Expanded)
- X. **MODELLING OF ELECTRODEPOSITION BATH USING THE FLOW ANALYSIS TECHNIQUE**
BUDAK T., KOYUNCU İ., Akcın G., Afsar H.
REVIEWS IN ANALYTICAL CHEMISTRY, vol.28, no.1, pp.1-9, 2009 (SCI-Expanded)
- XI. **Characterization of activated carbon and application of copper removal from drinking water**
Kalpaklı Y., KOYUNCU İ.
ANNALI DI CHIMICA, vol.97, pp.1291-1302, 2007 (SCI-Expanded)
- XII. **ZERO-CROSSING DERIVATIVE SPECTROPHOTOMETRIC DETERMINATION OF MIXTURES OF SUNSET YELLOW AND ERYTHROSINE IN PURE FORM AND IN TABLETS**
Özgür M., Alpdoğan G., Koyuncu İ.
Analytical Letters, vol.4, no.35, pp.721-732, 2007 (SCI-Expanded)
- XIII. **The resolution of ternary mixtures of dyes by partial least-squares multivariate spectrophotometric calibration and derivative spectrophotometry**
Ozgur M., Koyuncu I., Bozdogan A. E.
CHEMIA ANALITYCZNA, vol.50, no.3, pp.605-614, 2005 (SCI-Expanded)
- XIV. **Separation of Tl(I) and Tl(III) from environmental water samples by flotation method coupled with Zeeman ETAAS determination**
Bundalevska J., Koyuncu İ., Ay U., Cundeva K., Akcın G., Stafilov T.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.40, no.5, pp.1045-1054, 2005 (SCI-Expanded)

- XV. **Atomic absorption spectrometry determination of Cd, Cu, Fe, Ni, Pb, Zn, and T1 traces in seawater following flotation separation**
Kojuncu Ý., Bundalevska J. M., Ay Ü., Cundeva K., Stafilov T., AKÇİN G.
Separation Science and Technology, vol.39, no.11, pp.2751-2765, 2004 (SCI-Expanded)
- XVI. **Zero-crossing derivative spectrophotometric determination of mixtures of sunset yellow and erythrosine in pure form and in tablets**
OZGUR M., Alpdogan G., KOYUNCU İ.
ANALYTICAL LETTERS, vol.35, no.4, pp.721-732, 2002 (SCI-Expanded)
- XVII. **The simultaneous determination of Quinoline Yellow (E-104) and Sunset Yellow (E-110) in syrups and tablets by second derivative spectrophotometry**
ÖZGÜR M., KOYUNCU İ.
TURKISH JOURNAL OF CHEMISTRY, vol.26, no.4, pp.501-508, 2002 (SCI-Expanded)
- XVIII. **Determination of Ternary Mixtures of Vitamins B1 B6 B12 by Zero Crossing Derivative Spectrophotometry**
KOYUNCU İ., ÖZGÜR M.
Turkish Journal of Chemistry,, vol.26, no.3, pp.385-391, 2002 (SCI-Expanded)
- XIX. **Simultaneous determination of anthocyanin and ponceau 4R in drink powders by derivative spectrophotometry and partial least-squares multivariate spectrophotometric calibration**
Ozgur M., Bozdogan A. E., ERCAG A., Koyuncu I.
MONATSHEFTE FÜR CHEMIE, vol.132, no.6, pp.669-673, 2001 (SCI-Expanded)
- XX. **Simultaneous determination of sunset yellow and Ponceau 4R in gelatin powder by derivative spectrophotometry and partial least-squares multivariate spectrophotometric calibration**
Bozdogan A. E., Ozgur M., Koyuncu I.
ANALYTICAL LETTERS, vol.33, no.14, pp.2975-2982, 2000 (SCI-Expanded)
- XXI. **Decomposition of Dyes in the Textile Waste Water with Ozone**
Koyuncu İ., Afşar H.
Journal Of Environmental Science And Health Part A-Toxic/Hazardous Substances Engineering, vol.5, no.31, pp.1035-1041, 1996 (SCI-Expanded)

Articles Published in Other Journals

- I. **Comparison of partial least-squares multivariate spectrophotometric and derivative spectrophotometric method for the determination of food dyes sunset yellow (E-110) and tartrazine (E-102) in powder drinks**
Koyuncu İ., Özgür M., Bozdoğan A. E.
, Institute of Science & Technology, India, vol.13, no.1, pp.19-23, 2003 (Peer-Reviewed Journal)
- II. **Toz İçeceklerde Tartrazine ve Sunset Yellow Boyar Maddelerinin Birarada Türev Spektrofotometresi ile Tayini**
Koyuncu İ., Özgür M.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.3, pp.1301-2423, 1998 (Peer-Reviewed Journal)
- III. **Utilization of Tris (1, 10- Phenanthroline) Iron (III) for the Direct Spectrophotometric Determination of Free Chlorine in Water**
Koyuncu İ., Karşilayan H., Afşar H.
CHEMICA ACTA TURCICA, vol.23, no.3, pp.45-47, 1995 (Peer-Reviewed Journal)
- IV. **The Formation of Tris (1,10- Phenanthroline) Iron (III) Complex in Different Buffer Solutions**
Koyuncu İ., Karşilayan H., Afşar H.
CHIMICA ACTA TURCICA, vol.23, no.1, pp.163-166, 1995 (Peer-Reviewed Journal)
- V. **A Study For The Determination of Chlorine in Water With Ferriin Complex by Spectrophotometric Method**
Koyuncu İ., Karşilayan H., Afşar H.

Books & Book Chapters

- I. **Tekstil Kimyası Laboratuvar**
KOYUNCU İ.
YTÜ, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **DENDRİMERİK YAPILARIN NANOPARTİKÜLLER İLE MAGNETİK ÖZELLİK KAZANDIRILMASI VE ÇEŞİTLİ SU ÖRNEKLERİNDE AĞIR METAL TAYİNİ**
Koyuncu İ., Yılmaz Ö.
5 th INTERNATIONAL YOUNG RESEARCHERS STUDENT CONGRESS, Antalya, Turkey, 1 - 03 June 2023, vol.05, no.1, pp.205-206
- II. **Çeşitli Vegan Gıda Numulerindeki İnorganik Analitlerin Mikrodalga Çözündürme sonrası ICP-MS Sisteminde Eser seviyelerde Eşzamanlı Tayin Edilmesi**
Koyuncu İ., Sel S.
33. Ulusal Kimya Kongresi, Tekirdağ, Turkey, 7 - 09 October 2021, pp.150
- III. **Accurate and sensitive analytical strategy for the determination of trace antimony: Hydrogen assisted T-shaped slotted quartz tube-atom trap-flame atomic absorption spectrometry**
UNUTKAN T., KOYUNCU İ., Diker C., Fırat M., BÜYÜKPINAR Ç., BAKIRDERE S.
11th Aegean Analytical Chemistry Days (AACD2018), Girit, Greece, 25 September 2018
- IV. **İYON DEĞİŞİMİ YÖNTEMİ İLE SULU ÇÖZELTİDEN Cr (III) İYONLARININ GİDERİLMESİNİN İNCELENMESİ**
KOYUNCU İ., ARSLAN BURAK D.
8. Ulusal Öğrenci Kongresi, Turkey, 16 - 18 May 2017
- V. **Antimonun Yarıkli Kuartz Tüp-Alevli Atomik Absorpsiyon Sistemi ile Düşük Seviyelerde Tayini**
KOYUNCU İ., BAKIRDERE S., BÜYÜKPINAR Ç.
8. Öğrenci Kongresi, 16 - 18 May 2017
- VI. **The effect of different anions using electrocoagulation technique in waste water treatment**
Budak T., Koyuncu İ.
2th All in One Conference, International Conference on New Trends in Chemistry, Dubai, United Arab Emirates, 23 March 2015, pp.90
- VII. **The Effect of Different Anions Using Electrocoagulation Technique in Waste Water Treatment**
Budak T., Koyuncu İ.
INTERNATIONAL SYMPOSIUM ON MOLECULAR CHEMISTRY , İstanbul, Turkey, 18 - 19 December 2014, pp.28
- VIII. **L-Tirozin'in Magnezyum Kompleksinin Fotofiziksel Özellikleri**
GÜRSU H., CANLICA M., KOYUNCU İ., AYTAN KILIÇARSLAN F.
YTÜ II. Ulusal Nanoteknoloji Kongresi, İstanbul, Turkey, 27 September 2012, pp.1
- IX. **Hippürük Asidin Silisyum Kompleksinin Sentezi, Fotofiziksel Özellikleri ve Kararlılık Sabitinin Tayini**
CANLICA M., Aslan D., AYTAN KILIÇARSLAN F., KOYUNCU İ.
II. Eser Analiz Çalıştayı, Trabzon, Turkey, 27 June 2012, pp.99
- X. **The Synthesis and Characterization of Zn(II) Ion with N -benzoilglycinate Complex: Its Photophysical Properties and Stability Constants by Potentiometric Method**
Canlıca M., Arslan D., Koyuncu İ.
European Biotechnology Congress, İstanbul, Turkey, 28 September 2011, pp.225
- XI. **Removal of Al(III) by Adsorption onto Activated Carbon Cloths and Characterization of Activated Carbon**

- Koyuncu İ., Canlıca M., Arslan D.
7 th Nanoscience and nanotechnology Conference, İstanbul, Turkey, 27 June 2011, pp.224
- XII. **Removal of Al(III) by Adsorption onto Activated Carbon Cloths and Characterization of Activated Carbon**
Koyuncu İ., Balcı S., Kalpaklı Y.
5th Black Sea Basin Conference on Analytical Chemistry, Ordu, Turkey, 23 September 2009, pp.236
- XIII. **Simultaneous Spectrophotometric Determination of Aluminium and Copper Using Complex Agent in Water Samples**
Koyuncu İ.
5 th Aegean Analytical Chemistry Days, Thessaloniki, Greece, 05 October 2006, pp.105
- XIV. **Development of the H-point Standard Additions Method for the Simultaneous Spectrophotometric Determination of Aluminium and Lead in Aqua System**
Koyuncu İ., Erdoğan Ö.
9th Eurasia Conference Chemical Sciences (EuAs C2S-9), Thessaloniki, Greece, 09 October 2006, pp.105
- XV. **Simultaneous Spectrophotometric Determination of Aluminium and Magnesium by H-Point Standard Addition Method and Partial Least Squares Regression**
Koyuncu İ., Erdoğan Ö.
5 th Aegean Analytical Chemistry Days, Thessaloniki, Greece, 08 October 2006, pp.122
- XVI. **TRACE ELEMENT SPECIATION IN FRESH WATER USING IRON OXIDE GEL TECHNIQUE**
Budak T., Koyuncu İ., Zhang H., Akçin G., Güçer Ş.
3rd Black Sea Basin Conference on Analytical Chemistry, Constanta, Romania, 12 - 14 September 2005, pp.33
- XVII. **Preconcentration and Determination of Zinc and Nickel in Water Samples by Chelating Type Ion Exchanger**
Akçin N., Koyuncu İ., Akçin G., Cundeva K., Ay Ü., Stafilo T.
3rd Black Sea Basin Conference on Analytical Chemistry, Constanta, Romania, 12 September 2005, pp.102
- XVIII. **Preconcentration and Determination of Trace Metals in Fresh Water by Flotation with Hexamethylenedithiocarbamate as Complexing Agent**
Koyuncu İ., Akçin G., Ay Ü., Akçin N., Cundeva K., Stafilo T.
3rd BLACK SEA Basin Conference On Analytical Chemistry, Constanta, Romania, 12 September 2005, pp.103
- XIX. **Difüzyon Tekniği Kullanılarak Sulu Ortamda AsIII ve AsIV Türlerinin Tayini**
Akçin G., Koyuncu İ., Budak T., Zhang H., Güçer Ş.
IX. Ulusal Spektroskopi Kongresi, Ankara, Turkey, 9 - 11 June 2005, pp.38
- XX. **Cobalt(III) Dithiocarbamate as Collector for Flotation Preconcentration of Tl(I) and Tl(III) for Water Analysis by ETAAS**
Bundalevska J., Koyuncu İ., Ay Ü., Akçin G., Cundeva K., Stafilo T.
Fourth Aegean Analytical Chemistry Days, Aydın, Turkey, 29 October 2004, pp.206-211
- XXI. **Determination of Copper in Water Sample Using Preconcentration with Commercial Active Carbon by Atomic Absorption Spectrophotometry**
Koyuncu İ., KALPAKLI Y., Akçin n.
4th Aegean Analytical Chemistry Days, Aydın, Turkey, 29 September 2004, pp.298-303
- XXII. **Effect of Process Parameters on Removal of Copper Using Citric Acid Activation of Commercial Active Carbon**
KALPAKLI Y., Koyuncu İ., AKÇİN N.
4 th Aegean Analytical Chemistry Days, Aydın, Turkey, 29 September 2004, pp.293-297
- XXIII. **Determination of Copper for Optimization of Conditions in Wastewater Samples By Atomic Absorption Spectrophotometry**
KALPAKLI Y., Koyuncu İ., Akçin N.
4 th Aegean Analytical Chemistry Days, Aydın, Turkey, 29 September 2004, pp.304-308
- XXIV. **Investigation Trace Amounts of Metals in Fresh Water and Sea Water by Sorption of The Metal Ion on Resins**
Koyuncu İ., Ay Ü., Cundeva K., Stafilo T.

- 2 nd Black Sea Basin Conference on Analytical Chemistry, İstanbul, Turkey, 14 September 2003, pp.252
- XXV. **AAS Determination of Heavy Metals in Traces in Sea Waters Using Flotation as a Method for Selection and Preconcentration**
Koyuncu İ., Ay Ü., Bundalevska J., Cundeva K., Akçin G., Stafilov T.
2 nd Black Sea Basin Conference on Analytical Chemistry, İstanbul, Turkey, 14 September 2003, pp.58
- XXVI. **Flotation Method for Simultaneously Separation of Heavy Metals from Water Matrices and their AAS Determination**
Ay Ü., Pavlovska G., Koyuncu İ., Cundeva K., Akçin G., Stafilov T.
2 nd Black Sea Basin Conference on Analytical Chemistry, İstanbul, Turkey, 14 September 2003, pp.24
- XXVII. **The Iron Speciation of Pistachio Vera**
Koyuncu İ., Akçin G., Tunç M.
2 nd Black Sea Basin Conference on Analytical Chemistry, İstanbul, Turkey, 14 September 2003, pp.274
- XXVIII. **Improvement of constant ion concentration in on-line process and FIA**
Akçin G., Koyuncu İ., Budak T., Afşar H.
the sixth international symposium on new trends in chemistry, Al-Jizah, Egypt, 4 - 08 January 2003, pp.3
- XXIX. **Akış Enjeksiyon Sistemi ile Kaplama Banyolarında Metal İyon Konsantrasyonunun Belirlenmesi**
Koyuncu İ., Budak T., Akçin G., Afşar H.
VIII.Ulusal Spektroskopi Kongresi, Bursa, Turkey, 30 October - 01 November 2002, pp.17
- XXX. **Comparison of Anion and Cation Exchange Resins Performances for Removal and Recovery of Arsenic Species**
Koyuncu İ., Akçin G.
3 rd Aegean Analytical Chemistry Days, Polihnitos, Lesvos, Greece, Mitilini, Greece, 29 October 2002, pp.459
- XXXI. **Comparison of Partial Least- Squares Multivariate Spectrophotometric and Derivative Spectrophotometric Method for the Determination of Food Dyes Sunset Yellow (E-110) and Tartrazine (E-102) in Powder Drinks**
Koyuncu İ., Özgür M., Bozdoğan A. E.
3rd Aegean Analytical Chemistry Days, Mitilini, Greece, 29 October 2002, pp.459
- XXXII. **Akışa Enjeksiyonlu ve On-Line Sistemi ile Kaplama Kalitesinin İyileştirilmesi**
Budak T., Koyuncu İ., Akçin G., Afşar H.
XVI. Ulusal Kimya Kongresi, Konya, Turkey, 10 - 13 September 2002, pp.123
- XXXIII. **Profiling electroplating bath**
Koyuncu İ., Budak T., Akçin G., Afşar H.
xvii congress of chemists and technologists of macedonia, Skopje, Macedonia, 18 - 20 April 2002, pp.113
- XXXIV. **In Situ Speciation Measurements of Trace Metals Aqueous Solution Using Thin Film Gel**
Koyuncu İ., Akçin G., Güçer Ş., Zhang H.
XVII. Congress of Chemists and Technologists of Macedonia, Skopje, Macedonia, 18 April 2002, pp.64-66
- XXXV. **Application of On-Line Systems for Plating Baths**
Koyuncu İ., Akçin G., Afşar H.
8 th International Conference on Flow Analysis, Warszawa, Poland, 25 June 2000, pp.290
- XXXVI. **Determination of Synthetic Dyes in Pharmaceutical Product by Derivative Spectrophotometry**
Koyuncu İ., Özgür M.
3rd Mediterranean Basin Conference on Analytical Chemistry, Antalya, Turkey, 04 June 2000, pp.188
- XXXVII. **Simultaneous Determination of Tartrazine, Sunset Yellow and Allura Red in Powder Drinks by Derivative Spectrophotometry**
Koyuncu İ., Özgür M.
37 th IUPAC, Berlin, Germany, 14 August 1999, pp.744
- XXXVIII. **Oxidation of Nitrite in Mineral Water**
Koyuncu İ., Afşar H.
37 TH IUPAC, Berlin, Germany, 14 August 1999, pp.745
- XXXIX. **Simultaneous Determination of Tartrazine, Sunset Yellow and Ponceau in Powder Drinks by Derivative Spectrophotometry**

Koyuncu İ., Özgür M.

37. th IUPAC, Berlin, Germany, 14 August 1999, pp.743

XL. Determination of Sunset Yellow FCF and Ponceau 4R Mixtures Using Derivative Spectrophotometry

Koyuncu İ., Özgür M.

36 th IUPAC, Geneve, Switzerland, 17 August 1997, pp.514

XLI. Decomposition of Azo Dyes was Investigated by Ozone

Koyuncu İ., Afşar H.

35 th IUPAC, İstanbul, Turkey, 14 August 1995, pp.644

Supported Projects

KOYUNCU İ., Project Supported by Higher Education Institutions, YENİ MODİFİYE POLİ (AMİDOAMİN) DENDRİMERİN SENTEZİ, KARAKTERİZASYONU VE ATIK SULARDAN Cu(II) VE Cr (III)'ÜN GİDERİLMESİ, 2014 - 2018

KOYUNCU İ., Project Supported by Higher Education Institutions, Metal-Hippürük Asit Kompleklerinin Sentezi, Karakterizasyonu, Floresan Özellikleri İle Kararlılık Sabiti, Koşullu Oluşum Sabiti Ve Ph Aralığının Potansiyometrik Tayini, 2011 - 2018

KOYUNCU İ., Project Supported by Higher Education Institutions, Suyun Elektrolizinden Hidrojen Gazı Üretimi İçin Yeni Bir Yöntem Geliştirilmesi, 2011 - 2014

KOYUNCU İ., TUBITAK Project, Plastik Madde İçerisinde PBDE ve PBB Tayini, 2010 - 2012

Koyuncu İ., Stafilov ., Cundeva ., Akçin G., Ay ., TÜBİTAK - AB COST Project, Development of New Methods for Heavy Metals Enrichment in Water Analysis, 2002 - 2004

Budak T., Akçin G., Koyuncu İ., Güçer Ş., Zhang H., Davison B., Other International Funding Programs, Development of a Simple Speciation Tool for Arsenic in Fresh Water, 2000 - 2003

Metrics

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