

Prof. İkbal KOYUNCU

Personal Information

Email: ikoyuncu@yildiz.edu.tr

Other Email: ikbalkoyuncu15@gmail.com

Web: <https://ikoyuncu@yildiz.edu.tr>

Address: YTÜ FenEdebiyat Fakültesi Kimya Bölümü 34220 Davutpaşa Esenler

International Researcher IDs

ORCID: 0000-0003-3189-998X

ScopusID: 7004275115

Yoksis Researcher ID: 189737

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

Dissertations

Doctorate, Tekstil Atık Sularının Ozonla Arıtılması, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 1995

Postgraduate, Mangandioksit Üretiminde Etkin Kriterlerin İncelenmesi, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 1989

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 KALİTİLERİNİN ANALİZİ, Postgraduate, 2016 - 2017

Advising Theses

Koyuncu İ., Magnetik özellik kazandırılan dendrimerik yapıların (PAMAM G2 ve PAMAM-OH) yeni bir dağıtıcı katı faz özütleme sorbenti olarak metal iyonlarının tayininde kullanımı, Doctorate, Ö.YILMAZ(Student), 2024

Koyuncu İ., Gıda numunelerindeki inorganik ve organik arsenik türlerinin eş zamanlı tayin edilmesine yönelik yöntem geliştirilmesi, Postgraduate, B.AYDOĞAN(Student), 2024

Koyuncu İ., Gıda örneklerinde inorganik ve organik analitlerin ICP-MS ve LC-MS/QTOF ile eser seviyelerde eşzamanlı tayinleri, Doctorate, S.SEL(Student), 2023

Koyuncu İ., Farklı kombine ilaç farmasötik formlarında, adenozinin safsızlık profili için stabilite göstergeli, yeşil ters faz HPLC yöntemi geliştirilmesi, regresyon analizi ve validasyonu, Doctorate, C.ÇALIŞKAN(Student), 2022

Koyuncu İ., Eren T., Metal iyonu adsorpsiyonu için dendrimerik yapıların sentezi, karakterizasyonu ve uygulaması, Doctorate, D.BASKIN(Student), 2022

Koyuncu İ., Yeni modifiye poli(amidoamin) dendrimerin sentezi, karakterizasyonu ve atık sulardan Cu(II) ve Cr(III)'ün giderilmesi, Doctorate, D.ARSLAN(Student), 2017

Koyuncu İ., Plastik maddeler içerisinde PBDE ve PBB bileşiklerinin GC-IDMS yöntemiyle tayini, Doctorate, B.BİNİCİ(Student), 2014

Koyuncu İ., L-tirozin'in magnezyum ve alüminyum komplekslerinin sentezi, karakterizasyonu ve potansiyometrik oluşum sabitlerinin tayini, Postgraduate, H.GÜRSU(Student), 2013

Koyuncu İ., Suyun elektrolizinden hidrojen gazı üretimi için yeni bir yöntem geliştirilmesi, Postgraduate, E.KÖSEOĞLU(Student), 2013

Koyuncu İ., Sulu Ortamda Eser Miktarındaki Gümüş, Nikel İyonlarının Zenginleştirilmesi ve Atomik Absorpsiyon Spektroskopisi ile Tayini, Postgraduate, G.SADYKOVA(Student), 2008

Koyuncu İ., Alüminyumun ve kurşunun birlikte spektrofotometrik tayinleri, Postgraduate, Ö.ERDOĞAN(Student), 2006

Koyuncu İ., Sulu ortamlarda bakır ve kurşun metallerinin iyon değiştirici ve flotasyonla zenginleştirilmesi ve atomik absorpsiyon spektrofotometresi ile tayini, Postgraduate, K.FATİH(Student), 2004

Koyuncu İ., Su matrislerinde ağır metal zenginleştirilmesinde yeni bir metod geliştirilmesi, Postgraduate, N.AKÇİN(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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. **Microwave-Assisted Sample Preparation for Simultaneous Determination of Trace Elements in Vegan Foods with Inductively Coupled Plasma Mass Spectrometry**
Sel S., KOYUNCU İ.
Food Analytical Methods, 2024 (SCI-Expanded)
- III. **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)
- IV. **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)

- V. **Metal adsorption properties of multi-functional PAMAM dendrimer based gels**
BASKIN D., YILMAZ Ö., İslam M. N., TÜLÜ M., KOYUNCU İ., EREN T.
JOURNAL OF POLYMER SCIENCE, vol.59, no.14, pp.1540-1555, 2021 (SCI-Expanded)
- VI. **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., Firat M., Büyükpınar Ç., BAKIRDERE S.
Bulletin of Environmental Contamination and Toxicology, vol.102, no.1, pp.122-127, 2019 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **Determination of zinc, nickel and cadmium in natural water samples by flame atomic absorption spectrometry after preconcentration with ion exchange and flotation techniques**
Akcin N., KOYUNCU İ., Akcin G.
REVIEWS IN ANALYTICAL CHEMISTRY, vol.30, no.2, pp.65-71, 2011 (SCI-Expanded)
- X. **Comparative study of ion-exchange and flotation processes for the removal of Cu²⁺ and Pb²⁺ ions from natural waters**
KOYUNCU İ., Akcin N., AKÇİN G., Mutlu K. F.
Reviews in Analytical Chemistry, vol.29, no.2, pp.93-106, 2010 (SCI-Expanded)
- XI. **COMPARATIVE STUDY OF ION-EXCHANGE AND FLOTATION PROCESSES FOR THE REMOVAL OF Cu²⁺ AND Pb²⁺ IONS FROM NATURAL WATERS**
KOYUNCU İ., Akcin N., AKÇİN G., Mutlu K. F.
REVIEWS IN ANALYTICAL CHEMISTRY, vol.29, no.2, pp.93-106, 2010 (SCI-Expanded)
- XII. **MODELLING OF ELECTRODEPOSITION BATH USING THE FLOW ANALYSIS TECHNIQUE**
BUDAK T., KOYUNCU İ., Akcin G., Afsar H.
REVIEWS IN ANALYTICAL CHEMISTRY, vol.28, no.1, pp.1-9, 2009 (SCI-Expanded)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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., Cundeve K., Akcin 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)
- XVII. **Atomic absorption spectrometry determination of Cd, Cu, Fe, Ni, Pb, Zn, and Tl traces in seawater following flotation separation**
Koyuncu İ., Bundalevska J. M., Ay Ü., Cundeve K., Stafilov T., AKÇİN G.
Separation Science and Technology, vol.39, no.11, pp.2751-2765, 2004 (SCI-Expanded)
- XVIII. **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)

- XIX. **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)
- XX. **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)
- XXI. **Determination of Ternary Mixtures of Vitamins (B1, B6, B12) by Zero- Crossing Derivative Spectrophotometry**
Özgür M., Koyuncu İ.
TURKISH JOURNAL OF CHEMISTRY, vol.26, pp.385-391, 2002 (SCI-Expanded)
- XXII. **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 İ.
MONATSHEFTE FÜR CHEMIE, vol.132, no.6, pp.669-673, 2001 (SCI-Expanded)
- XXIII. **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 İ.
ANALYTICAL LETTERS, vol.33, no.14, pp.2975-2982, 2000 (SCI-Expanded)
- XXIV. **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.
CHIMICA 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 Sudy For The Determination of Chlorine in Water With Ferroin Complex by Spectrophotometric Method**
Koyuncu İ., Karşilayan H., Afşar H.
Marmara Türkiyat Araştırmaları Dergisi, vol.4, no.518, pp.321-325, 1992 (Peer-Reviewed Journal)

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 Yarıkılı 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 I.
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 -benzoylglycinate 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.
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- XVI. **TRACE ELEMENT SPECIATION IN FRESH WATER USING IRON OXIDE GEL TECHNIQUE**
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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 Spectrofotometry**
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 Spectrofotometry**
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**
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- 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.
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- XXVI. **Flotation Method for Simultaneously Separation of Heavy Metals from Water Matrices and their AAS Determination**
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- XXVII. **The Iron Speciation of Pistachio Vera**
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- XXVIII. **Improvement of constant ion concentration in on-line process and FIA**
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- 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**
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- XXXIII. **Profiling electroplating bath**
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- XXXIV. **In Situ Speciation Measurements of Trace Metals Aqueous Solution Using Thin Film Gel**
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- XXXV. **Application of On-Line Systems for Plating Baths**
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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**
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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**
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- XXXVIII. **Oxidation of Nitrite in Mineral Water**
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- XXXIX. **Simultaneous Determination of Tartrazine, Sunset Yellow and Ponceau in Powder Drinks by Derivative Spectrophotometry**
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- XL. **Determination of Sunset Yellow FCF and Ponceau 4R Mixtures Using Derivative Spectrophotometry**

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XLI. Decomposition of Azo Dyes was Investigated by Ozone

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Supported Projects

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