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Education Information

Doctorate, Istanbul University, Faculty Of Pharmacy , Analitik Kimya, Turkey 1997 - 2003

Postgraduate, Istanbul University, Faculty Of Pharmacy , Analitik Kimya A.D, Turkey 1995 - 1997

Undergraduate, Istanbul University, Faculty Of Pharmacy , Turkey 1990 - 1994

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bazı Amin Grubu taşıyan ilaçların Analizleri dayanan , Istanbul University, Faculty of Pharmacy , Analitik Kimya, 2003

Postgraduate, Maprotilin Hidroklorürün Bromtimol Mavisi kullanılarak spektrofotometrik Analizi, Istanbul University, Faculty of Pharmacy , Analitik Kimya , 1997

Academic Titles / Tasks

Professor, Istanbul University, Faculty of Pharmacy , Temel Eczacılık, 2013 - Continues

Advising Theses

ÖNAL A., İbuprofen, Psödoefedrin ve vitamin C nin ve ilgili bileşiklerinin yüksek performanslı sıvı kromatografisi yöntemi ile farmasötik preparatlarda yanyana analizi, Doctorate, F.Hacıoğlu(Student), Continues

ÖNAL A., Difenhidramin ve Lidokainin gaz kromatografisi-kütle spektroskopisi yöntemi ile farmasötik preparatlarda yanyana analizi, Postgraduate, S.Demirci(Student), 2016

ÖNAL A., Eprosartan ve Hidroklorotiazidin yüksek performanslı sıvı kromatografisi ile Analizi, Postgraduate, F.Hacıoğlu(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A novel HPLC method for selexipag in human plasma and application to a prototype pharmacokinetic study**
Ceylan B., Tlrıs G., Kepekci Tekkeli S. E., Önal C., ÖNAL A.
Acta Chromatographica, vol.36, no.3, pp.273-278, 2024 (SCI-Expanded)
- II. **Chromatographic Methods and Sample Pretreatment Techniques for Aldehydes, Biogenic Amine, and Carboxylic Acids in Food Samples**
Albarri R., Vardara H. F., Al S., ÖNAL A.
Critical Reviews in Analytical Chemistry, 2024 (SCI-Expanded)
- III. **A review of the currently developed analytical methods for the determination of biogenic amines in food products**
TIRIS G., Sare Yanıkođlu R., Ceylan B., EGELİ D., Kepekci Tekkeli E., ÖNAL A.
Food Chemistry, vol.398, 2023 (SCI-Expanded)
- IV. **Ultra fast liquid chromatographic analysis of nonsteroidal anti-inflammatory drugs with fluorimetric detection in tap water, urine, and pharmaceutical samples**
Onal C., Tırıs G., Tekkeli E. K., Onal A.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 2022 (SCI-Expanded)
- V. **AN UPLC METHOD FOR THE DETERMINATION OF SORAFENIB IN HUMAN PLASMA BY FLUORIMETRIC DETECTION WITH PRE-COLUMN DERIVATIZATION AND APPLICATION TO A PHARMACOKINETIC STUDY**
Tırıs G., Tekkeli E. K., Onal C., Ceylan B., Onal A.
REVUE ROUMAINE DE CHIMIE, vol.67, no.3, pp.217-224, 2022 (SCI-Expanded)
- VI. **A novel GC-MS assay method for the therapeutic drug monitoring of the atomoxetine**
Kul A., Ozdemir M., Önal A., Sađırlı A. O.
Microchemical Journal, vol.164, 2021 (SCI-Expanded)
- VII. **ANALYTICAL METHODS FOR THE DETERMINATION OF POLYBROMINATED DIPHENYL ETHERS IN HUMAN MILK**
Sagiroglu A. A., Tekkeli S. E. K., Onal C., DİNCEL D., ÖNAL A.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.65, no.1, pp.4726-4736, 2020 (SCI-Expanded)
- VIII. **DEVELOPMENT AND VALIDATION OF A STABILITY-INDICATING ULTRA-FAST LIQUID CHROMATOGRAPHIC ANALYSIS FOR THE SIMULTANEOUS DETERMINATION OF FENTICONAZOLE AND ITS RELATED SUBSTANCES IN PHARMACEUTICAL FORMULATIONS**
Onal C., Binay E., Onal A.
REVUE ROUMAINE DE CHIMIE, vol.65, no.2, pp.201-209, 2020 (SCI-Expanded)
- IX. **Two-dimensional liquid chromatographic analysis of ramelteon in human serum**
Sagırlı O., Onal A., Toker S., TEKKELİ Ş. E.
ARABIAN JOURNAL OF CHEMISTRY, vol.12, no.8, pp.2817-2822, 2019 (SCI-Expanded)
- X. **LIQUID CHROMATOGRAPHIC ANALYSIS OF CAROTENOIDS IN FOODS**
DİNCEL D., Tekkeli S. E. K., Onal C., Onal A., Sagırlı O.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.64, no.2, pp.4492-4495, 2019 (SCI-Expanded)
- XI. **MAGNETIC SOLID PHASE EXTRACTION FOR A NEW HPLC METHOD FOR THE DETERMINATION OF GEMIFLOXACIN IN HUMAN PLASMA AND BREAST MILK**
Durmus Z., TEKKELİ Ş. E., Kizılıtas M. V., Onal A.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.62, no.2, pp.3483-3489, 2017 (SCI-Expanded)
- XII. **Determination of atorvastatin in human plasma by magnetic solid-phase extraction combined with HPLC and application to a pharmacokinetic study**
TEKKELİ Ş. E., Durmus Z., Onal A.
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.39, pp.852-860, 2016 (SCI-Expanded)
- XIII. **Spectrofluorimetric determination of tobramycin in human serum and pharmaceutical preparations by derivatization with fluorescamine**
Tekkeli S. E. K., Onal A., Sagırlı O.

- LUMINESCENCE, vol.29, no.1, pp.87-91, 2014 (SCI-Expanded)
- XIV. **New spectrophotometric and spectrofluorimetric methods for the determination of angiotensin II receptor antagonists in tablets and plasma**
TEKKELİ Ş. E., Onal A.
JOURNAL OF ANALYTICAL CHEMISTRY, vol.68, no.6, pp.501-509, 2013 (SCI-Expanded)
- XV. **Spectrophotometric determination of 3-hydroxy-3-methylglutaryl coenzyme-A reductase inhibitors in pharmaceutical preparations**
Ergin Kızılcay G., Çağlar Andaç S., Önal A., Toker S.
TURKISH JOURNAL OF CHEMISTRY, vol.37, pp.171-181, 2013 (SCI-Expanded)
- XVI. **A review of the liquid chromatographic methods for the determination of biogenic amines in foods**
Onal A., Tekkeli S. E. K., Onal C.
FOOD CHEMISTRY, vol.138, no.1, pp.509-515, 2013 (SCI-Expanded)
- XVII. **Spectrophotometric determination of 3-hydroxy-3-methylglutaryl coenzyme-A reductase inhibitors in pharmaceutical preparations**
Ergin Kızılcay G., Çağlar Andaç S., Önal A., Toker S.
Turkish Journal of Chemistry, vol.37, pp.171-181, 2013 (SCI-Expanded)
- XVIII. **Development and Validation of Spectrophotometric Methods for the Determination of Rasagiline in Pharmaceutical Preparations**
TEKKELİ Ş. E., Onal A., BAHADORI F.
JOURNAL OF SPECTROSCOPY, 2013 (SCI-Expanded)
- XIX. **Determination of Eprosartan Mesylate and Hydrochlorothiazide in Tablets by Derivative Spectrophotometric and High-Performance Liquid Chromatographic Methods**
Hacioglu F., Onal A.
JOURNAL OF CHROMATOGRAPHIC SCIENCE, vol.50, no.8, pp.688-693, 2012 (SCI-Expanded)
- XX. **A Review of Current Methods for the Determination of Acrylamide in Food Products**
Tekkeli S. E. K., Onal C., Onal A.
FOOD ANALYTICAL METHODS, vol.5, no.1, pp.29-39, 2012 (SCI-Expanded)
- XXI. **A rapid and simple RP-HPLC method for quantification of desipramine in human plasma**
Onal A., Oztunc A.
REVIEWS IN ANALYTICAL CHEMISTRY, vol.30, pp.165-169, 2011 (SCI-Expanded)
- XXII. **Overview on liquid chromatographic analysis of tetracycline residues in food matrices**
Onal A.
FOOD CHEMISTRY, vol.127, no.1, pp.197-203, 2011 (SCI-Expanded)
- XXIII. **Spectrofluorimetric Methods for the Determination of Gemifloxacin in Tablets and Spiked Plasma Samples**
Tekkeli S. E. K., Onal A.
JOURNAL OF FLUORESCENCE, vol.21, no.3, pp.1001-1007, 2011 (SCI-Expanded)
- XXIV. **A new HPLC method with fluorescence detection for the determination of memantine in human plasma ,**
TOKER S., SAĞIRLI A. O., ÇETİN S. M., ÖNAL A.
JOURNAL OF SEPARATION SCIENCE, vol.34, pp.2645-2649, 2011 (SCI-Expanded)
- XXV. **SPECTROPHOTOMETRIC AND SPECTROFLUORIMETRIC DETERMINATION OF SOME DRUGS CONTAINING SECONDARY AMINO GROUP IN BULK DRUG AND DOSAGE FORMS VIA DERIVATIZATION WITH 7-CHLORO-4-NITROBENZOFURAZON**
Onal A.
QUIMICA NOVA, vol.34, no.4, pp.677-683, 2011 (SCI-Expanded)
- XXVI. **Detection of Methamphetamine, Methylenedioxyamphetamine, and 3,4-Methylenedioxy-N-ethylamphetamine in Spiked Plasma by HPLC and TLC**
Oztunc A., Onal A., Toker S. E.
JOURNAL OF AOAC INTERNATIONAL, vol.93, no.2, pp.556-561, 2010 (SCI-Expanded)
- XXVII. **Two Simple and Rapid Spectrophotometric Methods for the Determination of a New**

Antihypertensive Drug Olmesartan in Tablets

Caglar S., Onal A.

JOURNAL OF ANALYTICAL CHEMISTRY, vol.65, no.3, pp.239-243, 2010 (SCI-Expanded)

- XXVIII. **Two Simple and Rapid Spectrophotometric Methods for the Determination of a New Antihypertensive Drug Olmesartan in Tablets.**
ÇAĞLAR S., ÖNAL A.
JOURNAL OF ANALYTICAL CHEMISTRY, vol.65, pp.239-243, 2010 (SCI-Expanded)
- XXIX. **Önal, A. Current Status of Polyamine and Polyamine Analogs Analysis in Cancer Research. , (**
ÖNAL A.
CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY, vol.40, pp.60-67, 2010 (SCI-Expanded)
- XXX. **Current Status of Polyamine and Polyamine Analogs Analysis in Cancer Research**
Onal A.
CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY, vol.40, no.2, pp.60-67, 2010 (SCI-Expanded)
- XXXI. **Spectrophotometric and HPLC determinations of anti-diabetic drugs, rosiglitazone maleate and metformin hydrochloride, in pure form and in pharmaceutical preparations**
Onal A.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.44, no.12, pp.4998-5005, 2009 (SCI-Expanded)
- XXXII. **Determination of Linezolid in Human Breast Milk by High-Performance Liquid Chromatography with Ultraviolet Detection**
Sagirlı O., Onal A., Toker S., Oztunc A.
JOURNAL OF AOAC INTERNATIONAL, vol.92, no.6, pp.1658-1662, 2009 (SCI-Expanded)
- XXXIII. **Spectro photo metric and spectrofluorimetric methods for the determination of pregabalin in bulk and pharmaceutical preparation**
Onal A., Sagirlı O.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.72, no.1, pp.68-71, 2009 (SCI-Expanded)
- XXXIV. **Spectrophotometric and spectrofluorimetric methods for the determination of pregabalin in bulk and pharmaceutical preparation. Spectrochimica Acta Part A-Molecular And Biomolecular Spectroscopy,**
ÖNAL A., SAĞIRLI A. O.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.72, pp.68-71, 2009 (SCI-Expanded)
- XXXV. **Simultaneous HPLC analysis of olmesartan and hydrochlorothiazide in combined tablets and in vitro dissolution studies.**
ÖNAL A., SAĞIRLI A. O., Şensoy D., TOKER S.
CHROMATOGRAPHIA, vol.66:, pp.3-0, 2007 (SCI-Expanded)
- XXXVI. **Önal, A., Çağlar S., Spectrophotometric Determination of Dopaminergic Drugs Used for Parkinson's Disease, Cabergoline and Ropinirole, in Pharmaceutical Preparations. .**
ÖNAL A., ÇAĞLAR S.
Chem. Pharm. Bull, vol.55, pp.629-631, 2007 (SCI-Expanded)
- XXXVII. **Selective LC determination of cabergoline in the bulk drug and in tablets: In vitro dissolution studies**
Oenal A., Sagirlı O., SENSOY D.
CHROMATOGRAPHIA, vol.65, pp.561-567, 2007 (SCI-Expanded)
- XXXVIII. **Spectrophotometric determination of dopaminergic drugs used for Parkinson's disease, cabergoline and ropinirole, in pharmaceutical preparations**
Onal A., Caglar S.
CHEMICAL & PHARMACEUTICAL BULLETIN, vol.55, no.4, pp.629-631, 2007 (SCI-Expanded)
- XXXIX. **A review: Current analytical methods for the determination of biogenic amines in foods**
Onal A.
FOOD CHEMISTRY, vol.103, no.4, pp.1475-1486, 2007 (SCI-Expanded)
- XL. **A selective LC method for the determination of reboxetine in human plasma with fluorescence**

detection

Oenal A., Sagirli O., Cetin S. M., Toker S.

CHROMATOGRAPHIA, vol.66, 2007 (SCI-Expanded)

- XL1. **Determination of gabapentin in human plasma and urine by high-performance liquid chromatography with UV-vis detection**
Sagirli O., Çetin S. M., Onal A.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.42, no.5, pp.618-624, 2006 (SCI-Expanded)
- XL2. **A selective high-performance liquid chromatography method for the determination of reboxetine in bulk drug and tablets**
Onal A., Sagirli O., Cetin S. M., Toker S.
JOURNAL OF AOAC INTERNATIONAL, vol.89, no.6, pp.1552-1556, 2006 (SCI-Expanded)
- XL3. **Method development and validation of a rapid determination of ropinirole in tablets by LC-UV**
Onal A.
CHROMATOGRAPHIA, vol.64, pp.459-461, 2006 (SCI-Expanded)
- XL4. **Spectrophotometric determination of certain antidepressants in pharmaceutical preparations,**
ÖNAL A., Tekkeli E., çetin S. M., TOKER S.
JOURNAL OF AOAC INTERNATIONAL, vol.89, pp.966-971, 2006 (SCI-Expanded)
- XL5. **Development of a selective LC method for the determination of pravastatin sodium**
Onal A., Sagirli O.
CHROMATOGRAPHIA, vol.64, pp.157-162, 2006 (SCI-Expanded)
- XL6. **A highly sensitive spectrofluorometric method for the determination of a new antidepressant drug, reboxetine, in tablets**
Onal A.
JOURNAL OF AOAC INTERNATIONAL, vol.89, no.4, pp.972-975, 2006 (SCI-Expanded)
- XL7. **Spectrophotometric determination of certain antidepressants in pharmaceutical preparations**
Onal A., Kepekci S. E., Cetin S. M., Erturk S.
JOURNAL OF AOAC INTERNATIONAL, vol.89, no.4, pp.966-971, 2006 (SCI-Expanded)
- XL8. **Analysis of antiretroviral drugs in biological matrices for therapeutic drug monitoring**
Onal A.
JOURNAL OF FOOD AND DRUG ANALYSIS, vol.14, no.2, pp.99-119, 2006 (SCI-Expanded)
- XL9. **A Selective HPLC Method for the Determination of Reboxetine in Bulk Drug and Tablets,**
ÖNAL A., SAĞIRLI A. O., çetin S. M., TOKER S.
JOURNAL OF AOAC INTERNATIONAL, vol.89, pp.1552-1556, 2006 (SCI-Expanded)
- L. **Determination of paroxetine in human plasma by high-performance liquid chromatography using 7,7,8,8-tetracyanoquinodimethane as the derivatization reagent**
Onal A., Öztunç A.
THERAPEUTIC DRUG MONITORING, vol.28, no.2, pp.180-184, 2006 (SCI-Expanded)
- LI. **Development and validation of high performance liquid chromatographic method for the determination of esomeprazole in tablets**
Onal A., Öztunç A.
JOURNAL OF FOOD AND DRUG ANALYSIS, vol.14, no.1, pp.12-18, 2006 (SCI-Expanded)
- LII. **Spectrophotometric methods for the determination of the antidepressant drug paroxetine hydrochloride in tablets**
Onal A., Kepekci S., Öztunç A.
JOURNAL OF AOAC INTERNATIONAL, vol.88, no.2, pp.490-495, 2005 (SCI-Expanded)
- LIII. **Analytical methods for the quantitative determination of 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors in biological samples,**
ÖNAL A., TOKER S., çetin S. M.
JOURNAL OF CHROMATOGRAPHY A, vol.793, pp.193-205, 2003 (SCI-Expanded)
- LIV. **Analytical methods for the quantitative determination of 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors in biological samples**

Erturk S., Onal A., Çetin S. M.

JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.793, no.2, pp.193-205, 2003 (SCI-Expanded)

- LIV. **,7,8,8-tetracyanoquinodimethane as a new derivatization reagent for high-performance liquid chromatography and thin-layer chromatography: rapid screening of plasma for some antidepressants,**
ÖNAL A., TOKER S., Öztunç A.
JOURNAL OF CHROMATOGRAPHY A, vol.774, pp.149-155, 2002 (SCI-Expanded)
- LVI. **Determination of maprotiline hydrochloride in tablets by ion-pair extraction using bromthymol blue**
ÖNAL A., Öztunç A.
Die Pharmazie, vol.55:, pp.321-0, 2000 (SCI-Expanded)

Articles Published in Other Journals

- I. **Analysis of Racecadotril in Pharmaceutical Formulations Using Ultra Performance Liquid Chromatography (UPLC) Method**
ÖNAL A., Binay E.
BEZMIALEM SCIENCE, no.3, pp.289-294, 2023 (ESCI)
- II. **Ultra Hızlı Sıvı Kromatografisi ile Biber Sosunda Kapsaisinoidlerin Analizi/Analysis of Capsaicinoids in Chilli Sauce with Ultra Fast Liquid Chromatography**
Ceylan B., Önal C., Önal A.
BEZMIALEM SCIENCE, vol.10, no.6, pp.742-748, 2022 (ESCI)
- III. **High-performance Liquid Chromatography Analysis of Nebivolol and Amlodipine and Some Related Compounds in Synthetic Mixture**
Onal C., Aluc K., Aluc C., Onal A.
BEZMIALEM SCIENCE, vol.9, no.3, pp.264-270, 2021 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Online Heart-Cutting Liquid Chromatographic Analysis Of Linezolid In Human Serum**
SAĞIRLI A. O., DEMIRCI S., ÖNAL A.
33rd International Symposium on Microscale Separations and Bioanalysis (MSB 2017), Leiden, Netherlands, 26 - 29 March 2017, vol.13, pp.5-10
- II. **Spectrophotometric determination of 3-hydroxy-3-methylglutaryl coenzyme-A reductase inhibitors in pharmaceutical preparations**
ERGİN KIZILÇAY G., ÇAĞLAR ANDAÇ S., ÖNAL A., TOKER S.
XII.Ulusal Spektroskopik Kongresi, Antalya, Turkey, 18 - 22 May 2011
- III. **A New Spectrophotometric Method for the Determination of Statins in Pharmaceutical Preparations**
Ergin G., ÇAĞLAR S., ÖNAL A., ERTÜRK TOKER S.
XIIth National Spectroscopy Congress, with International Participation, Antalya, Turkey, pp.372-375
- IV. **Rapid Quantification of Levetiracetam in Human Plasma and Tablets by Liquid Chromatography**
ÖNAL A., ÇAĞLAR S.
IMPPS-3 Third International Meeting on Pharmacy and Pharmaceutical Sciences, Turkey, 1 - 04 June 2010, pp.372-375
- V. **Determination of Linezolid in Tablets with UV Spectrophotometric Methods**
ÖNAL A., ÇAĞLAR S.
5th Ulusal Analitik Kimya Kongresi, Erzurum, Turkey, 1 - 04 June 2010, pp.372-375
- VI. **Spectrophotometric Method for the Determination of Ropinirole in Tablets**
ÇAĞLAR S., ÖNAL A.

Supported Projects

SAĞIRLI A. O., DEMİRCİ S., ÖNAL A., Project Supported by Higher Education Institutions, Online HeartCutting Liquid Chromatographic Analysis of Linezolid in Human Serum, 2017 - 2017

ÖNAL A., TOKER S., SAĞIRLI A. O., Project Supported by Higher Education Institutions, Timolol Maleatın 9-Fluorenilmetil kloformat belirteci kullanılarak farmasötik preparatlarda spektrofotometrik olarak analizi, 2016 - 2017

SAĞIRLI A. O., TOKER S., ÖNAL A., Project Supported by Higher Education Institutions, Linezolidin İnsan Serumunda İki Boyutlu Yüksek Performanslı Sıvı Kromatografisi ile Analizi, 2016 - 2017

ÖNAL A., Project Supported by Higher Education Institutions, Vildagliptinin Tabletlerde analizi, 2012 - 2014

ÖNAL A., Project Supported by Higher Education Institutions, Loteprednolun farmasötik preparatlarda spektrofotometrik analizi, 2012 - 2014

ÖNAL A., Project Supported by Other Official Institutions, Plazma ve İdrarda Üremik Toksinlerin Analizi, Bezmialem Vakıf Üniversitesi BAP projesi, Proje No: 6.2012/14, Yardımcı araştırmacı, 2012 - 2014

ÖNAL A., Project Supported by Higher Education Institutions, Bir antidepresan ilaç maddesi olan duloksetinin 2D-HPLC ve UPLC metodları kullanılarak analizleri, 2011 - 2013

ÖNAL A., Project Supported by Higher Education Institutions, Statinlerin tabletlerde spektrofotometrik analizleri, 2010 - 2012

ÖNAL A., Project Supported by Higher Education Institutions, Eprosartan ve hidroklorotiyazidin yüksek performanslı sıvı kromatografisi yöntemi ile tabletlerde yanyana analizi, 2009 - 2012

ÖNAL A., Project Supported by Higher Education Institutions, Spectrophotometric and Spectrofluorimetric Determination of Pramipexole in Bulk Drug and Dosage Forms, 2010 - 2010

Metrics

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