

## Assoc. Prof. AYŞEGÜL DOĞAN

### Personal Information

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### Education Information

Doctorate, Hacettepe University, Eczacılık Fakültesi, Analitik Kimya Abd, Turkey 2009 - 2015

Postgraduate, Hacettepe University, Eczacılık Fakültesi, Analitik Kimya, Turkey 2005 - 2009

Undergraduate, Anadolu University, Faculty Of Science, Department Of Chemistry, Turkey  
1998 - 2003

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Yüksek Performanslı Sıvı Kromatografisi İle İlaç Analizlerinde Yeşilleştirme, Hacettepe Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2015

### Research Areas

Chemistry, Analytical Chemistry, Bioanalytical Methods, Chromatographic Analysis, Micro and Semimicro Methods, Sample preparation, Spectroscopical Methods, Volumetry, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2017 - Continues

Research Assistant, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2005 - Continues

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

- I. **High-Throughput Single-Step plasma sample extraction optimization strategies with experimental design for LC-MS and GC-MS integrated metabolomics and lipidomics analysis**  
Eylem C. C. , NEMUTLU E., DOĞAN A., Acik V., Matyar S., Gezercan Y., Altintas S., Okten A. I. , BAŞCI AKDUMAN N. E.  
MICROCHEMICAL JOURNAL, vol.179, 2022 (Journal Indexed in SCI)
- II. **Ultrafiltration-based sample preparation and HPLC-UV determination of diclofenac in human plasma samples**

NENİ M., DOĞAN A., ÇELEBİER M., Soyseven M., Kaynak M. S. , Aboul-Enein H. Y. , Arli G.

TURKISH JOURNAL OF CHEMISTRY, 2022 (Journal Indexed in SCI)

- III. **Simultaneous Quantification of Paclitaxel and Vinorelbine Encapsulated in Theranostic Nanosized Liposomes**  
KARPUZ M., DOĞAN A., NEMUTLU E., SİLİNDİR GÜNAY M., Ozer A. Y.  
JOURNAL OF ANALYTICAL CHEMISTRY, vol.76, no.6, pp.742-748, 2021 (Journal Indexed in SCI)
- IV. **Electrochemical Behavior and Square-Wave Stripping Voltammetric Determination of Roflumilast in Pharmaceutical Dosage Forms**  
ÇELEBİER M., DOĞAN A., SÜSLÜ İ., ALTINÖZ S.  
COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING, vol.24, no.3, pp.400-408, 2021 (Journal Indexed in SCI)
- V. **An Overview of Green Chromatographic Analysis from Pharmaceutical Preparations**  
DOĞAN A., Eylem C. C. , BAŞCI AKDUMAN N. E.  
CURRENT ANALYTICAL CHEMISTRY, vol.17, no.9, pp.1260-1277, 2021 (Journal Indexed in SCI)
- VI. **Application of green methodology to pharmaceutical analysis using eco-friendly ethanol-water mobile phases**  
DOĞAN A., Eylem C. C. , BAŞCI AKDUMAN N. E.  
MICROCHEMICAL JOURNAL, vol.157, 2020 (Journal Indexed in SCI)
- VII. **Design and in vitro evaluation of folate-targeted, co-drug encapsulated theranostic liposomes for non-small cell lung cancer**  
KARPUZ M., Silindir-Gunay M., Kursunel M. A. , ESENDAĞLI G., DOĞAN A., ÖZER A. Y.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.57, 2020 (Journal Indexed in SCI)
- VIII. **Detection, identification and determination of chiral pharmaceutical residues in wastewater: Problems and challenges**  
DOĞAN A., Plotka-Wasyłka J., Kempinska-Kupczyk D., Namiesnik J., Kot-Wasik A.  
TRAC-TRENDS IN ANALYTICAL CHEMISTRY, vol.122, 2020 (Journal Indexed in SCI)
- IX. **Optimization of liquid chromatographic separation of pharmaceuticals within green analytical chemistry framework**  
Dogan A., Tobiszewski M.  
MICROCHEMICAL JOURNAL, vol.152, 2020 (Journal Indexed in SCI)
- X. **Green Bioanalytical and Pharmaceutical Analysis of Voriconazole and Tadalafil by HPLC**  
DOĞAN A., Basci N. E.  
CURRENT PHARMACEUTICAL ANALYSIS, vol.13, no.6, pp.495-504, 2017 (Journal Indexed in SCI)
- XI. **Process and formulation variables of pregabalin microspheres prepared by w/o/o double emulsion solvent diffusion method and their clinical application by animal modeling studies**  
Aydogan E., Comoglu T., PEHLİVANOĞLU B., Dogan M., COMOGLU S., DOĞAN A., Basci N. E.  
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, vol.41, no.8, pp.1311-1320, 2015 (Journal Indexed in SCI)
- XII. **The pharmacokinetic profiles of pre-operative prophylactic cefepime application in pregnant and non-pregnant women undergoing surgical interventions using a fully validated liquid chromatographic method**  
DOĞAN A., NEMUTLU E., Özek M. A. , EROĞLU H., KIR S., BEKSAÇ M. S.  
Chromatographia, vol.76, pp.1513-1519, 2013 (Journal Indexed in SCI)
- XIII. **Development and Validation of RP-HPLC and Ultraviolet Spectrophotometric Methods of Analysis for the Quantitative Determination of Chlorhexidine Gluconate and Benzylamine Hydrochloride in Pharmaceutical Dosage Forms**  
DOĞAN A., Basci N. E.  
CURRENT PHARMACEUTICAL ANALYSIS, vol.7, no.3, pp.167-175, 2011 (Journal Indexed in SCI)
- XIV. **Formulation and evaluation of diclofenac potassium fast-disintegrating tablets and their clinical application in migraine patients**  
Comoglu T., DOĞAN A., Comoglu S., Basci N. E.  
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, vol.37, no.3, pp.260-267, 2011 (Journal Indexed in SCI)

- XV. **Spectrophotometric Analysis of Cabergoline in Pharmaceutical Preparations**  
Salman D., DOĞAN A., Basci N. E.  
LATIN AMERICAN JOURNAL OF PHARMACY, vol.30, no.2, pp.304-310, 2011 (Journal Indexed in SCI)
- XVI. **Method Development and Validation for the Determination of Cabergoline in Tablets by Capillary Zone Electrophoresis**  
DOĞAN A., Pehlivan I., Basci N. E.  
LATIN AMERICAN JOURNAL OF PHARMACY, vol.30, no.1, pp.132-138, 2011 (Journal Indexed in SCI)
- XVII. **Development and in vitro evaluation of pantoprazole-loaded microspheres**  
Comoglu T., Gonul N., DOĞAN A., Basci N. E.  
DRUG DELIVERY, vol.15, no.5, pp.295-302, 2008 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Naphthoquinone-thiazole hybrids bearing adamantane: Synthesis, antimicrobial, DNA cleavage, antioxidant activity, acid dissociation constant, and drug-likeness**  
DOĞAN A., ÖZDEMİR S., Yalçın M. S., SARI H., NURAL Y.  
JOURNAL OF RESEARCH IN PHARMACY, vol.25, no.3, pp.292-304, 2021 (Journal Indexed in ESCI)
- II. **Spectrophotometry, potentiometry and HPLC in determination of acidity constant for cabergoline and tadalafil**  
Polat M. B., DOĞAN A., BAŞCI N. E.  
JOURNAL OF RESEARCH IN PHARMACY, vol.23, no.2, pp.177-186, 2019 (Journal Indexed in ESCI)
- III. **Investigating the physicochemical properties of phenazopyridine hydrochloride using high-performance liquid chromatography and UV-visible spectrophotometry**  
ÇELEBİER M., KOÇAK E., DOĞAN A., Altinoz S., Basci N. E.  
JOURNAL OF RESEARCH IN PHARMACY, vol.22, no.4, pp.528-535, 2018 (Journal Indexed in ESCI)
- IV. **Effect of internal standard on HPLC analysis of tablet dosage forms An experimental study with statistical comparison**  
ÇELEBİER M., NENİ M., DOĞAN A., SÜSLÜ İ., ALTINÖZ S.  
Der Pharma Chemica, vol.7, no.6, pp.168-174, 2015 (Refereed Journals of Other Institutions)
- V. **A Fully Validated Chromatographic Determination of Voriconazole from Infusion Solution and Tablet**  
DOĞAN A., BAŞCI N. E.  
Hacettepe Üniversitesi Eczacılık Fakültesi Dergisi, 2013 (Other Refereed National Journals)

## Supported Projects

BAŞCI AKDUMAN N. E., ÖKTEN A. İ., DOĞAN A., Eylem C. C., GEZERCAN Y., NEMUTLU E., YET İ., ALTINTAŞ S., AÇIK V., Project Supported by Higher Education Institutions, Glioblastoma multiforme, menenjiyom (birincil) ve metastaz (ikincil) beyin tümörlerine ait fenotiplerin belirlenmesinde kullanılacak bütünlük omiks analizler için analitik yöntem geliştirilmesi ve uygulanması, 2020 - Continues

BAŞCI AKDUMAN N. E., DOĞAN A., Eylem C. C., Halıcı E., Project Supported by Higher Education Institutions, Yeşil HPLCde Kemometrik Optimizasyon ve H2 repesör antagonistlerinin Farmasötik Analizi, 2020 - 2022

DOĞAN A., Eylem C. C., Project Supported by Higher Education Institutions, Çevre dostu etanol veya etil laktat içeren hareketli faz sistemlerinin HPLC ile ilaç analizlerine etkisinin araştırılması ve valide edilmiş yöntem geliştirilmesi, 2018 - 2020

DOĞAN A., BAŞCI N. E., Project Supported by Higher Education Institutions, Vorikonazol ve Tadalafin HPLC Yöntemiyle Yeşil Biyoanalitik Analizi, 2017 - 2018

ÇELEBİER M., REÇBER T., DOĞAN A., Project Supported by Higher Education Institutions, Biyolojik Materyallerde ve Bitkisel Kaynaklı Ürünlerde GC-MS ile Metabolomik Çalışmalar, 2014 - 2018

ŞAHİN S., DOĞAN A., GÜRBAY A., Project Supported by Higher Education Institutions, Hacettepe University Journal of The

Faculty of Pharmacy Bilimsel Dergisinin Elektronik Ortamda Yayınlanması, 2017 - 2017

BAŞCI AKDUMAN N. E. , DOĞAN A., Koç M. B. , Project Supported by Higher Education Institutions, Tadalafil ilaç etken maddesine ait asidik dissosiyasyon sabitinin spektrofotometrik potansiyometrik ve kromatografik yöntemler ile tayini, 2016 - 2017

BAŞCI AKDUMAN N. E. , DOĞAN A., Project Supported by Higher Education Institutions, Vorikonazol ve Tadalafil'in Plazmadan Yeşil Kromatografik Analizi, 2015 - 2016

## **Citations**

Total Citations (WOS):72

h-index (WOS):6