

## Assoc. Prof. AYŞEGÜL DOĞAN

### Personal Information

Office Phone: [+90 312 305 1499](tel:+903123051499)

Fax Phone: [+90 312 311 4777](tel:+903123114777)

Email: [ayseguld@hacettepe.edu.tr](mailto:ayseguld@hacettepe.edu.tr)

Web: <https://avesis.hacettepe.edu.tr/ayseguld>

Address: Hacettepe Üniversitesi Eczacılık Fakültesi Analitik Kimya ABD Sıhhiye/Ankara



### International Researcher IDs

ORCID: 0000-0002-5828-4697

Publons / Web Of Science ResearcherID: Q-5308-2019

ScopusID: 23099990100

Yoksis Researcher ID: 166763

### Education Information

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

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

Undergraduate, Ankara University, Fen Fakültesi, Kimya Bölümü, 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

Associate Professor, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2023 - Continues

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

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

- I. **Miniaturized solid phase extraction techniques for different kind of pollutants analysis: State of the art and future perspectives – PART 2**  
Płotka-Wasyłka J., Jatkowska N., Paszkiewicz M., Caban M., Fares M. Y., DOĞAN A., Garrigues S., Manousi N., Kalogiouri N., Nowak P. M., et al.  
TrAC - Trends in Analytical Chemistry, vol.162, 2023 (SCI-Expanded)
- II. **Miniaturized Solid Phase Extraction techniques for different kind of pollutants analysis: State of the art and future perspectives – PART 1**  
Płotka-Wasyłka J., Jatkowska N., Paszkiewicz M., Caban M., Fares M. Y., DOĞAN A., Garrigues S., Manousi N., Kalogiouri N., Nowak P. M., et al.  
TrAC - Trends in Analytical Chemistry, vol.162, 2023 (SCI-Expanded)
- III. **Recent Trends in Pharmaceuticals and Natural Products Research - Part I**  
DOĞAN A., KURBANOĞLU S., Erdem S. A.  
Combinatorial Chemistry and High Throughput Screening, vol.26, no.15, pp.2575-2576, 2023 (SCI-Expanded)
- IV. **Green Alternatives in Pharmaceutical and Bioanalytical Analysis of TDM Required Drugs: Procainamide**  
Ülgen M., EYLEM C. C., DOĞAN A., Akduman N. E. B.  
Combinatorial Chemistry and High Throughput Screening, vol.26, no.15, pp.2656-2667, 2023 (SCI-Expanded)
- V. **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., Gezeran Y., Altintas S., Okten A. I., BAŞCI AKDUMAN N. E.  
MICROCHEMICAL JOURNAL, vol.179, 2022 (SCI-Expanded)
- VI. **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., Arlı G.  
TURKISH JOURNAL OF CHEMISTRY, 2022 (SCI-Expanded)
- VII. **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 (SCI-Expanded)
- VIII. **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 (SCI-Expanded)
- IX. **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 (SCI-Expanded)
- X. **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 (SCI-Expanded)
- XI. **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 (SCI-Expanded)
- XII. **Optimization of liquid chromatographic separation of pharmaceuticals within green analytical chemistry framework**  
Dogan A., Tobiszewski M.  
MICROCHEMICAL JOURNAL, vol.152, 2020 (SCI-Expanded)
- XIII. **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 (SCI-Expanded)

- XIV. **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 (SCI-Expanded)
- XV. **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 (SCI-Expanded)
- XVI. **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 (SCI-Expanded)
- XVII. **Development and Validation of RP-HPLC and Ultraviolet Spectrophotometric Methods of Analysis for the Quantitative Determination of Chlorhexidine Gluconate and Benzydamine Hydrochloride in Pharmaceutical Dosage Forms**  
DOĞAN A., Basci N. E.  
CURRENT PHARMACEUTICAL ANALYSIS, vol.7, no.3, pp.167-175, 2011 (SCI-Expanded)
- XVIII. **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 (SCI-Expanded)
- XIX. **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 (SCI-Expanded)
- XX. **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 (SCI-Expanded)
- XXI. **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 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Ultrafiltration-Based extraction of Ibuprofen from human plasma samples and HPLC analysis: developing an innovative bioanalytical analysis method**  
ŞENOL Y., DOĞAN A., ÇELEBİER M.  
CUMHURİYET SCIENCE JOURNAL, vol.42, no.2, pp.276-284, 2021 (Peer-Reviewed Journal)
- II. **Naphthoquinone-thiazole hybrids bearing adamantane: Synthesis, antimicrobial, DNA cleavage, antioxidant activity, acid dissociation constant, and drug-likeness**  
DOĞAN A., ÖZDEMİR S., Yalcin M. S., SARI H., NURAL Y.  
JOURNAL OF RESEARCH IN PHARMACY, vol.25, no.3, pp.292-304, 2021 (ESCI)
- III. **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 (ESCI)
- IV. **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 (ESCI)

- V. **Effect of internal standard on HPLC analysis of tablet dosage forms An experimental study with statistical comparison**  
ÇELEBİER M., NENİNİ M., DOĞAN A., SÜSLÜ İ., ALTINÖZ S.  
Der Pharma Chemica, vol.7, no.6, pp.168-174, 2015 (Scopus)
- VI. **Effect of internal standard on HPLC analysis of tablet dosage forms An experimental study with statistical comparison**  
ÇELEBİER M., NENİNİ M., DOĞAN A., SÜSLÜ İ., ALTINÖZ S.  
Der Pharma Chemica, vol.7, no.6, pp.168-174, 2015 (Scopus)
- VII. **A Fully Validated Chromatographic Determination of Voriconazole from Infusion Solution and Tablet**  
DOĞAN A., BAŞCI N. E.  
Hacettepe Üniversitesi Eczacılık Fakültesi Dergisi, 2013 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Chapter 20 - Analytical perspective on biomarkers research: from untargeted to targeted metabolomics**  
NEMUTLU E., Eylem C. C., REÇBER T., GÖK TOPAK E. D., DOĞAN A., KIR S.  
in: The Detection of Biomarkers, Sibel A. Ozkan, Nurgul K. Bakirhan, Fariba Mollarasouli, Editor, Elsevier, pp.545-586, 2022
- II. **Analytical perspective on biomarkers research: from untargeted to targeted metabolomics**  
NEMUTLU E., Eylem C. C., REÇBER T., GÖK TOPAK E. D., DOĞAN A., KIR S.  
in: The Detection of Biomarkers Past, Present, and the Future Prospects, Ozkan Sibel A.; Bakirhan Nurgul K.; Mollarasouli Fariba, Editor, Academic Press, pp.545-586, 2022
- III. **Kromatografik Ayırma Teknikleri**  
USLU B., SAĞIRLI A. O., SÜSLÜ İ., GÜNDEMEN GÖĞER N., SAĞLIK ASLAN S., ÖZKAN S. A., DOĞAN TOPAL B., KUL D., ARIKSOYSAL D., NEMUTLU E., et al.  
in: Türk Farmakopesi 2017, Yalçın Özkan, Editor, Sağlık Bakanlığı Türkiye İlaç ve Tıbbi Cihaz Kurumu, Ankara, pp.89-96, 2018

## Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of International Standard on HPLC Analysis of Tablet Dosage Forms An Experimental Study with Statistical Comparison**  
ÇELEBİER M., NENİNİ M., DOĞAN A., SÜSLÜ İ., ALTINÖZ S.  
ISOPS, 11th International Symposium On Pharmaceutical Sciences, 9 - 12 June 2015

## Supported Projects

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

BAŞCI AKDUMAN N. E., 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

## **Metrics**

Publication: 56

Citation (WoS): 70

Citation (Scopus): 89

H-Index (WoS): 6

H-Index (Scopus): 6