

## Prof. ÖZDEMİR DOĞAN

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-3724-8942

Yoksis Researcher ID: 3094

### Education Information

Postgraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 1988 - 1991

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 1983 - 1988

### Research Areas

Chemistry, Chemistry of Asymmetric Synthesis, Chemistry of Heterocyclic Compounds, Carbon Chemistry, Organic Reaction Mechanisms

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2008 - Continues  
Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2002 - 2008

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1997 - 2002

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1988 - 1991

### Academic and Administrative Experience

Middle East Technical University, Faculty of Arts and Sciences, 2012 - 2015

Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2006 - 2009

Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2000 - 2003

### Advising Theses

DOĞAN Ö., Synthesis of new aziridine derivatives as potential piperazine precursors, Postgraduate, D.BAYAT(Student), 2022

DOĞAN Ö., Synthesis of new squaramide based organocatalyst and its applications for enantioselective synthesis of

organic compounds, Postgraduate, Ö.ÖZDEMİR(Student), 2022

DOĞAN Ö., A new method for the synthesis of aziridine 2-phosphonates and their biological activities, Postgraduate, H.BABİZ(Student), 2010

DOĞAN Ö., A new method for synthesis of aziridine 2-phosphonates and their biological activities, Postgraduate, H.Babiz(Student), 2010

TOPPARE L. K., DOĞAN Ö., Synthesis of new ferrocenyl substituted quinoxaline derivative monomers, their polymerization and electrochemical behaviors, Postgraduate, Ş.ÖZDEMİR(Student), 2010

DOĞAN Ö., A new p-fam-silver catalyst for asymmetric 1,3-dipolar cycloaddition reactions of azomethine ylides, Postgraduate, S.ERÖKSÜZ(Student), 2008

DOĞAN Ö., FAM-zinc catalyzed asymmetric 1,3-dipolar cycloaddition reactions of azomethine ylides and FAM-titanium catalyzed enantioselective alkynylation of aldehydes, Doctorate, H.KOYUNCU(Student), 2007

DOĞAN Ö., One-pot synthesis of chloroalcohols and their lipase mediated kinetic resolution - ferrocenyl aziridinylmethanols as chiral ligands in enantioselective conjugate diethylzinc addition to enones, Doctorate, A.İŞLEYEN(Student), 2007

DOĞAN Ö., Fam-zinc catalyzed asymmetric 1,3-dipolar cycloaddition reactions of azomethine ylides and, Doctorate, H.Koyuncu(Student), 2007

DOĞAN Ö., Synthesis of ferrocenyl substituted aziridines, Postgraduate, S.ZEYTİNCİ(Student), 2006

DOĞAN Ö., Lewis acid mediated asymmetric synthesis of ferrocene substituted pyrrolidine derivatives via the 1,3-dipolar cycloaddition reactions of azomethine ylides, Postgraduate, İ.Öner(Student), 2001

DOĞAN Ö., Lewis acid mediated asymmetric synthesis of ferrocene substituted pyrrolidine derivatives via the 1,3-dipolar cycloaddition reactions of azomethine ylides, Postgraduate, İ.ÖNER(Student), 2001

DOĞAN Ö., Synthesis of 3-azabicyclo[3.3.0]octane framework, Postgraduate, H.ÜMİT(Student), 2001

DOĞAN Ö., BF<sub>3</sub> catalyzed additions of nucleophiles to ENDO/ EXO-2-substituted norbornene derivatives, Postgraduate, A.İŞLEYEN(Student), 2001

DOĞAN Ö., Diethylzinc catalyzed 1,3-dipolar cycloaddition reactions of stabilized azomethine ylides, Postgraduate, H.Koyuncu(Student), 2001

DOĞAN Ö., Diethylzinc catalyzed 1,3-dipolar cycloaddition reactions of stabilized azomethine ylides, Postgraduate, H.KOYUNCU(Student), 2001

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, September, 2021

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, August, 2021

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, August, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, March, 2021

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

- I. A Novel Methodology for the Asymmetric Synthesis of 2,3,5-Trisubstituted Piperazine Derivatives**  
Beksultanova N., ÖZDEMİR YILDIRIM Ö., Çakır S. P., AYGÜN M., DOĞAN Ö.  
Synthesis (Germany), no.15, pp.2432-2444, 2024 (SCI-Expanded)
- II. Asymmetric aza-Henry reaction of BOC-protected imines with zinc-FAM catalyst**  
Beksultanova N., DOĞAN Ö.  
Synthetic Communications, vol.54, no.5, pp.371-378, 2024 (SCI-Expanded)
- III. Asymmetric synthesis of aryl-substituted pyrrolidines by using CFAM ligand–AgOAc chiral system via 1,3-dipolar cycloaddition reaction**  
Beksultanova N., DOĞAN Ö.

Chirality, vol.35, no.7, pp.435-448, 2023 (SCI-Expanded)

#### IV. Effect of sucrose concentration on monomer distribution of alginate

Moral C. K., Doğan Ö., Sanin F. D.

NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)

### Supported Projects

DOĞAN Ö., BEKSULTANOVA N., Project Supported by Higher Education Institutions, SYNTHESIS OF CHIRAL AZIRIDINES, THEIR REGIO AND ENANTIOSELECTIVE RING OPENING REACTIONS, 2018 - 2020

DOĞAN Ö., BULUT M., Project Supported by Higher Education Institutions, SYNTHESIS OF NEW PHOSPHONIC ACID DERIVATIVES AND THEIR USE AS AN ORGANOCATALYSTS FOR ENANTIOSELECTIVE SYNTHESIS OF ORGANIC COMPOUNDS, 2018 - 2020

DOĞAN Ö., GÖZÜKARA Z., Project Supported by Higher Education Institutions, ZN-FAM KATALİZÖRLÜĞÜNDE PRİDİNİL PİROLİDİN TÜRVLERİNİN ENANTİOSEÇİCİ SENTEZİ VE BİYOLOJİK AKTİVİTELERİNİN ARAŞTIRILMASI, 2018 - 2020

DOĞAN Ö., ARAZ M., Project Supported by Higher Education Institutions, ÇİNKO KATALİZÖRLÜĞÜNDE FURİL SÜBSTİTE PİROLİDİN YAPILARININ ASİMETRİK SENTEZİ VE BİYOLOJİK AKTİVİTELERİNİN ARAŞTIRILMASI, 2018 - 2020

ZORA M., DOĞAN Ö., AKDAĞ A., TÜRKYILMAZ S., KANOVA N., KORKMAZ E., YILMAZ E. S., ÖZÇUBUKÇU S., TANYELİ C., GÜNBAŞ E. G., Project Supported by Higher Education Institutions, Bazik koşullarda N-(5-arilpenta-2,4-diinil)-β-enaminon bileşiklerinin halkalaşma tepkimelerinin araştırılması, 2018 - 2019

DOĞAN Ö., Project Supported by Higher Education Institutions, DEVELOPMENT OF NEW AZIRIDINYL SUBSTITUTED PHOSPHONIC ACID ORGANOCATALYSTS FOR THE ENANTIOSELECTIVE ADDITION OF INDOLES TO NITROOLEFINS, 2017 - 2017

GÜNBAŞ E. G., DOĞAN Ö., AKDAĞ A., ÖZÇUBUKÇU S., TANYELİ C., ZORA M., Project Supported by Higher Education Institutions, ORGANİK ELEKTRONİK ALANI İÇİN YENİ BİR YAPITAŞININ TASARIMI VE SENTEZİ, 2017 - 2017

DOĞAN Ö., Project Supported by Higher Education Institutions, SYNTHESIS OF NEW PHOSPHONIC ACID DERIVATIVES AND THEIR USE AS AN ORGANOCATALYSTS FOR ENANTIOSELECTIVE SYNTHESIS OF ORGANIC COMPOUNDS, 2017 - 2017

ESENTÜRK O., ÖNAL A. M., DOĞAN Ö., DANIŞMAN M. F., ASİL ALPTEKİN D., AYTEKİN Y. S., HACALOĞLU J., PERSİL ÇETİNKOL Ö., Project Supported by Higher Education Institutions, ŞARAP KALİTE TAYİNİ İÇİN YÖNTEM GELİŞTİRME ÇALIŞMALARI, 2016 - 2016

DOĞAN Ö., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

TOPPARE L. K., DOĞAN Ö., EREL GÖKTEPE İ., ÇIRPAN A., Project Supported by Higher Education Institutions, Üçlü bağ içeren polimerlerin sentezi, elektrokromik ve güneş gözesi uygulamalarında kullanımı, 2013 - 2014

DOĞAN Ö., AYAN S., Project Supported by Higher Education Institutions, AZOMETİN İLÜRLERİN ASİMETRİK BASAMAK 1,3-DİPOLAR HALKASAL KATILMA TEPKİMELEİ, 2013 - 2013

DOĞAN Ö., HİSAR A., Project Supported by Higher Education Institutions, AZİRİDİNİL FOSFONİK ASİTLERİN SENTEZİ VE BİYOLOJİK AKTİVİTELERİNİN ARAŞTIRILMASI, 2013 - 2013

DOĞAN Ö., Project Supported by Higher Education Institutions, Yeni Fosforlu Bileşiklerin Sentezi Ve Biyolojik Aktivitelerinin Araştırılması, 2010 - 2010

DOĞAN Ö., Project Supported by Higher Education Institutions, Aziridinil Fosfonatların Sentezi İçin Yeni Metod Geliştirilmesi, 2009 - 2009

### Scientific Refereeing

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, December 2021

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, November 2021

TUBITAK Project, 2247 - A National Leading Researchers Program, Middle East Technical University, Turkey, November 2021

TUBITAK Project, 2247 - A National Leading Researchers Program, Middle East Technical University, Turkey, November 2021

TUBITAK Project, 2247 - A National Leading Researchers Program, Middle East Technical University, Turkey, November 2021

ORGANIC COMMUNICATIONS, National Scientific Refreed Journal, August 2021

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, July 2021

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, June 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2021

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TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2021

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, May 2021

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, April 2021

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, March 2021

JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, December 2018

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, December 2018

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, November 2018

TÜBİTAK - AB COST Project, Middle East Technical University, Turkey, November 2018

TUBITAK Project, 3001 - Initial R&D Projects Support Program, Middle East Technical University, Turkey, June 2018

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, February 2018

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, January 2018

## Scientific Consultations

TÜBİTAK, Scientific Consultancy, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey, 2021 - 2021

TÜBİTAK, Scientific Consultancy, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey, 2020 - 2021

## Metrics

Publication: 78  
Citation (WoS): 740  
Citation (Scopus): 804  
H-Index (WoS): 15  
H-Index (Scopus): 16

## Congress and Symposium Activities

4. Organik Kimyası Kongresi, Working Group, Antalya, Turkey, 2018

XXVIII European Colloquium on Heterocyclic Chemistry, Working Group, Lecce, Italy, 2018

256th American Chemical Society Meeting, Working Group, Massachusetts, United States Of America, 2018

6. İlaç Kimyası Kongresi, Working Group, Antalya, Turkey, 2018

## **Non Academic Experience**

METU

METU Chemistry Departmen

METU Chemistry Department

University of Geneva Chemistry Department

Case Western Reserve University Chemistry Department

METU Chemistry Department