

Prof. ÖZDEMİR DOĞAN

Personal Information

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Education Information

Doctorate, Case Western Reserve University, Kimya, United States Of America 1991 - 1995

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

Under Graduate, 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

Professional Experience

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

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

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

Advising Theses

DOĞAN Ö., Development and implementation of high temperature resistant resin systems that can be used with fiber/fabric reinforcement for use in missile/rocket applications, Doctorate, T.KAYA(Student), 2017

DOĞAN Ö., Studies on new synthetic methodologies for synthesis of phthalazinone derivatives via cyclization of 2-ethynylbenzohydrazides, Post Graduate, T.YAMAN(Student), 2017

DOĞAN Ö., Synthesis of chiral aziridinyl phosphonates, their biological activities and organocatalytic effect of their

phosphonic acid derivatives, Post Graduate, N.BEKSULTANOVA(Student), 2017

TOPPARE L. K. , DOĞAN Ö., Syntheses of new multifunctional donor acceptor type polymers for electrochromic and organic solar cell applications, Doctorate, Ş.ÖZDEMİR(Student), 2016

DOĞAN Ö., AKDAĞ A., Studies towards synthesis of urea containing helical polymers, Post Graduate, G.ÇALIŞGAN(Student), 2016

DOĞAN Ö., Synthesis and characterization of toluene diisocyanate, Post Graduate, A.HİSAR(Student), 2014

DOĞAN Ö., Silicon tetrachloride mediated asymmetric aldol addition reaction, Post Graduate, D.TAN(Student), 2013

DOĞAN Ö., Asymmetric diethylzinc addition to n-sulphonyl and n-phosphinoyl arylaldimines, Post Graduate, E.ÇAĞLI(Student), 2013

DOĞAN Ö., Catalytic asymmetric one-pot synthesis of pyrrolidines via 1,3-dipolar cycloaddition reaction of azomethine ylides, Post Graduate, S.AYAN(Student), 2013

DOĞAN Ö., Synthesis and use of new phosphineoxy aziridinyl phosphonates (POAP) as organocatalysts in asymmetric phosphorylation of aldehydes, Post Graduate, M.İŞÇİ(Student), 2012

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

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

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

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 FAM-titanium catalyzed enantioselective alkynylation of aldehydes, Doctorate, H.KOYUNCU(Student), 2007

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

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

DOĞAN Ö., BF₃ catalyzed additions of nucleophiles to ENDO/ EXO-2-substituted norbornene derivatives, Post Graduate, A.İŞLEYEN(Student), 2001

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

DOĞAN Ö., Synthesis of 3-azabicyclo(3.3.0)octane framework, Post Graduate, H.ÜMİT(Student), 2001

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Synthesis, Characterization and Evaluation of Cytotoxic Activities of Novel Aziridinyl Phosphonic Acid Derivatives**
Khan R., ULUSAN S., BANERJEE S., DOĞAN Ö.
CHEMISTRY & BIODIVERSITY, vol.16, 2019 (Journal Indexed in SCI)
- **Experimental investigation on chloroprene and acrylonitrile butadiene rubber types reinforced with nano-materials**
Dogan O., Esat V., Bal B.
MATERIALS RESEARCH EXPRESS, vol.6, 2019 (Journal Indexed in SCI)
- **Effect of sucrose concentration on monomer distribution of alginate**
Moral C. K. , Doğan Ö., Sanin F. D.
NEW BIOTECHNOLOGY, vol.29, 2012 (Journal Indexed in SCI)

Articles Published in Other Journals

● N-Substituted aziridine-2-phosphonic acids and their antibacterial activities

Khan R., DOĞAN Ö., Guven K.

ORGANIC COMMUNICATIONS, vol.13, pp.51-56, 2020 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

● New chiral aziridinylphosphonic acids; synthesis and evaluation of their organocatalytic and biological activity

DOĞAN Ö.

256th National Meeting and Exposition of the American-Chemical-Society (ACS) - Nanoscience, Nanotechnology and Beyond, Massachusetts, United States Of America, 19 - 23 August 2018, vol.256

● Catalytic asymmetric 1,3-dipolar cycloadditions of azomethine ylides using chiral ferrocenyl substituted aziridinylmethanol (Fam)-zinc complexes

Dogan O., Garner P., Koyuncu H., Bulut A.

230th National Meeting of the American-Chemical-Society, Washington, Kiribati, 28 August - 01 September 2005, vol.230

● One-step synthesis of chlorohydrins via boron trifluoride-mediated reaction of styrene derivatives with tetrabutylammonium acetate in dichloromethane

Isleyen A., Dogan O.

230th National Meeting of the American-Chemical-Society, Washington, Kiribati, 28 August - 01 September 2005, vol.230

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 PİRİDİNİL PİROLİDİN TÜRVLERİNİN ENANTİOSEÇİCİ SENTEZİ VE BİYOLOJİK AKTİVİTELERİNİN ARAŞTIRILMASI, 2018 - 2020

DOĞAN Ö., ARAZ M., Project Supported by Higher Education Institutions, ÇİNKO KATALİZÖRLÜĞÜNDE FÜRİL 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 TEPKİMELEİRİ, 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

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

Invited 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

Citations

Total Citations (WOS):667
h-index (WOS):15