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Research Interests: Chiral Chemistry, Synthesis and Chiral Separations, Heterocyclic Chemistry

### 1. EDUCATION

- 1984                      Ph.D. in Chemistry  
Middle East Technical University, Ankara, Turkey
- 1980                      M.Sc. in Chemistry  
Middle East Technical University, Ankara, Turkey
- 1979                      B.S. in Chemistry  
Middle East Technical University, Ankara, Turkey

### 2. PROFESSIONAL POSITIONS

- 1999 – present        Professor, Department of Chemistry, Boğaziçi University, İstanbul, Turkey
- 1992 – 1999           Associate professor, Department of Chemistry, Boğaziçi University, İstanbul, Turkey
- 1987 – 1992           Assistant professor, Boğaziçi University, İstanbul, Turkey
- 1986 – 1987           Instructor, Boğaziçi University, Institute of Environmental Sciences, İstanbul, Turkey
- 1985 – 1986           Instructor, Middle East Technical University, Ankara, Turkey
- 1979 – 1984           Research assistant, Middle East Technical University, Ankara, Turkey.

### 3. RECENT PUBLICATIONS

Solvent dependent hindered rotation versus epimerization in axially chiral thiohydantoin derivatives: an experimental and a computational study Gunal, S.E., Azizoglu, I., Arica, O., Haslak, Z.P., Aviyente, V., **Dogan, I.**, *Organic & Bioorganic Chemistry*, 20, 7622-7631, **2022**.

Aldol Reactions of Conformationally Stable Axially Chiral Thiohydantoin Derivatives Ozbek Sari, S., Erdik Bacak, M., **Dogan, I.**, *ACS Omega*, 6, 27823-27832, **2021**.

An Acyclic Diaminocarbene Complex of Platinum Formed by Desulfurization of 1,3-Bis(3-methylpyridin-2-yl)thiourea, Bulak, E., **Dogan, I.**, Varnali, T., Schwederski, B., Gunal Erol, S., Lonneck, P., Bubrin, M., Kaim, W., *European Journal of Inorganic Chemistry*, 2425-2432, **2021**.

Axially chiral hemiaminals from nonracemic  $\alpha$ - amino acid derivatives (thiohydantoins): Synthesis and isomer identification, Sarigul Ozbek, S., **Dogan, I.**, *Chirality*, 32, 1299-1310, **2020**.

Enantiodiscrimination of carboxylic acids using single enantiomer thioureas as chiral solvating agents Gunal Erol, S., Tuncel Teke, S., **Dogan, I.**, *Tetrahedron*, 76, 131141, **2020**.

Elucidation of the Atroposelectivity in the Synthesis of Axially Chiral Thiohydantoin Derivatives Haslak, ZP., Cinar Agopcan, S., Ozbek Sarigul, S., Monard, G., **Dogan, I.**, Aviyente, V., *Organic & Biomolecular Chemistry*, 18, 2233-2241, **2020**.

Synthesis of thiazol- 2- imines from the reduction of single enantiomer 2- imino- thiazolidin- 4- ones followed by a spontaneous water elimination Teke Tuncel, S., **Dogan, I.**, *Chirality*, 32, 866-875, **2020**.

#### 4. RECENT PROJECTS

- 2020-2023 Boğaziçi University Research Fund (BAP-ongoing). Title: Conversion of thiourea derivatives to 2-imino-thiazolidine-4-ones and computational determination of their acetylcholinesterase (AChE) inhibition potentials
- 2020-2022 TÜBİTAK (Scientific and Technological Research Council of Turkey) Research Grant (1001). Title: Design, synthesis and inhibitory activities of novel multi-targeted amide/carbamate derivatives as potential therapeutics for Alzheimer's disease.
- 2019-2021 Boğaziçi University Research Fund. Title: Asymmetric synthesis studies on axially chiral o-trifluoromethyl phenyl thiohydantoin derivatives.
- 2019-2020 Boğaziçi University Research Fund. Title: Elucidation of Atroposelective Synthesis and Stereoconversion of Axially Chiral Thiohydantoin Derivatives

## **5. TEACHING EXPERIENCE**

### **Graduate-level**

- Chem 547: The Chemistry of Heterocyclic Compounds.

### **Undergraduate-level**

- Chem 201: Organic Chemistry I
- Chem 202: Organic Chemistry II
- Chem 363: Organic Chemistry III
- Chem 442: Qualitative Analysis
- Chem 104: General Chemistry II
- Chem 103: General Chemistry I