

## Prof. Dr. Zühal TURGUT

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: 7556

### Eğitim Bilgileri

Doktora, Yıldız Teknik Üniversitesi, Kimya, Türkiye 1989 - 1994

### Araştırma Alanları

Kimya, Organik Kimya, Aromatik Bileşikler Kimyası, Doğal Ürünler Kimyası, Heterosiklik Bileşikler Kimyası, Temel Bilimler

### Verdiği Dersler

Organik Kimya 2, Lisans, 2018 - 2019

İleri Organik Kimya, Yüksek Lisans, 2018 - 2019

Heterohalkalı Bileşikler Kimyası, Yüksek Lisans, 2018 - 2019

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### Yönetilen Tezler

Turgut Z., BİYOLOJİK AKTİVİTE İÇEREBİLECEK HETEROHALKALI BİLEŞİKLERİN TEK KAP YÖNTEMİ İLE SENTEZLERİ, Yüksek Lisans, B.PEKTAŞ(Öğrenci), 2019

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### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. Design, Synthesis, Biological Evaluation and Molecular Docking Studies of a New Series of Maleimide

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- II. **Evaluation of the protective properties and genotoxic potential of pyrazolo pyridine derivatives against neutron and gamma radiation using the Ames/Salmonella test system**  
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- III. **Investigation of radiation protective features of azadispiro derivatives and their genotoxic potential with Ames/Salmonella test system**  
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- IV. **Synthesis, molecular modeling, and biological evaluation of novel imatinib derivatives as anticancer agents**  
Gunay F., Balta S., Ng Y. Y., Ulucan O., TURGUT Z., GÜNKARA Ö. T.  
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- V. **Characterization of gamma-ray and neutron radiation absorption properties of synthesized quinoline derivatives and their genotoxic potential**  
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- VII. **2H-Indazolo[2,1-b]phthalazine-trione derivatives: Inhibition on some metabolic enzymes and molecular docking studies**  
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- VIII. **Novel benzo[b]xanthene derivatives: Bismuth(III) triflate-catalyzed one-pot synthesis, characterization, and acetylcholinesterase, glutathione S-transferase, and butyrylcholinesterase inhibitory properties**  
Turhan K., Pektaş B., Türkan F., Tuğcu F. T., Turgut Z., Taslimi P., Karaman H. S., Gülçin İ.  
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- IX. **Cholinesterases, alpha-glycosidase, and carbonic anhydrase inhibition properties of 1H-pyrazolo[1,2-b]phthalazine-5,10-dione derivatives: Synthetic analogues for the treatment of Alzheimer's disease and diabetes mellitus**  
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- XI. **Synthesis of enantiopure aminonaphthol derivatives under conventional/ultrasonic technique and their ring-closure reaction**  
Pelit E., TURGUT Z.  
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- XII. **(+)-CSA Catalyzed Multicomponent Synthesis of 1-[(1,3-Thiazol-2-ylamino)methyl]-2-naphthols and Their Ring-Closure Reaction under Ultrasonic Irradiation**  
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- XIII. **Ultrasonic synthesis, characterization of  $\alpha$ -aminoketones by bismuth(III) triflate and determination of antigenotoxic properties**  
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- XIV. **Inhibition of the mutagenic effects of N-methyl-N'-nitro-N-nitrosoguanidine and 9-Aminoacridine by indenopyridines in the Salmonella typhimurium tester strain 1537 and E. coli**  
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- XVI. **Genotoxic and antigenotoxic assessment of four newly synthesized dihydropyridine derivatives**  
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- XVII. **One-pot Synthesis of Indenonaphthopyrans Catalyzed by Copper(II) Triflate: A Comparative Study of Reflux and Ultrasound Methods**  
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- XVIII. **Protective properties of five newly synthesized cyclic compounds against sodium azide and N-methyl-N'-nitro-N-nitrosoguanidine genotoxicity**  
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- XIX. **Antigenotoxic properties of two newly synthesized beta-aminoketones against N-methyl-N'-nitro-N-nitrosoguanidine and 9-aminoacridine-induced mutagenesis**  
ÖZTÜRKCAN S. A., TURHAN K., TURGUT Z., KARADAYI M., GÜLLÜCE M.  
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- XX. **Decolorization of textile basic dye in aqueous solution by ozone**  
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- XXI. **Triflates promoted one-pot synthesis of functionalized unsymmetrical new dihydro-1H-indeno[1,2-B]pyridines through Hantzsch reaction under ultrasonic irradiation**  
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- XXIII. **Synthesis and Characterizations of New 1,3-Oxazine Derivatives**  
ÖZTÜRKCAN S. A., TURHAN K., TURGUT Z.  
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- XXIV. **Treatment and degradability of direct dyes in textile wastewater by ozonation: A laboratory investigation**  
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- XXVI. **Aza-Diels-Alder Reactions with Lanthanide Triflates: Syntheses of Quinoline and Phenanthridine Derivatives**

- TURHAN K., PELIT E., TURGUT Z.  
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- XXVII. **An annelated thioxanthone as a new Type II initiator**  
Balta D., CETINER N., TEMEL G., TURGUT Z., ARSU N.  
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- XXVIII. **1,3-Di-3-pyridyl-2,3-dihydro-1H-naphth[1,2-e] [1,3]oxazine**  
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- XXIX. **Synthesis of new pyrazolothiazole derivatives from 4-thiazolidinones**  
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- XXX. **Reducing chemical oxygen demand and decolorization of direct dye from synthetic textile wastewater by ozonation in a batch bubble column reactor**  
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- XXXI. **Synthesis of new 1,3-disubstituted-2,3-dihydro-1H-naphth-[1,2e][1,3]oxazines**  
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- XXXII. **Synthesis of some furo-thiazolidine derivatives starting from aldimines**  
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- XXXIII. **Reactions of 1,4-dianion of methyl 2-thienyl ketone N-ethoxycarbonylhydrazone with derivatives of carboxylic acids, and the synthesis of pyrazolotriazin-7-ones**  
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- XXXV. **Transformations of aldimines derived from pyrrole-2-carbaldehyde. Synthesis of thiazolidino-fused compounds**  
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- XXXVI. **4-Ethoxy-N-(6-methylquinolin-2-ylmethylene)aniline**  
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- XXXVII. **Reactions of the dianion obtained by reductive metallation of 3,4-diphenylcinnoline**  
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- XXXVIII. **Reductive metallation of 6-methyl-2,3-diphenylquinoxaline. Synthesis of 1,4-dihydro-1,4-diazine derivatives**  
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- XXXIX. **Allylation and heterocycloaddition reactions of aldimines: Furan- and quinolinecarboxaldehydes**  
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- XL. **SYNTHESIS OF SCHIFF-BASES BY CONDENSATION OF HETARYLCARBOXALDEHYDES WITH PARAPHENETIDINE**  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **One-Pot Synthesis of Pyrido[2,3-*b*]pyrimidines Catalyzed by Bismuth(III)Triflate**  
Saglam D., Turgut Z.  
International Journal of Organic Chemistry, cilt.12, sa.01, ss.11-27, 2022 (Hakemli Dergi)
- II. **One pot Synthesis of 1H benzo f chromen 2 yl phenyl methanone Derivatives in the Presence of Copper Triflate as Catalyst Using Ultrasonic**  
ZELEKE T. Y., TURHAN K., TURGUT Z.  
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## **Kitap & Kitap Bölümleri**

- I. **Synthesis of 2,4-Disubstituted-3,4-Dihydro-2H-Naphth[2,1-*e*][1,3]Oxazines**  
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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Synthesis of pyrazolo[3,4-*b*]pyridine and pyrido[2,3-*d*]pyrimidine derivatives**  
SEZER T., TURHAN K., TURGUT Z.  
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- II. **A green multicomponent synthesis of pyrimido[4,5-*b*]quinoline derivatives**  
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- III. **SYNTHESIS OF ASYMMETRIC VINYL DERIVATIVES, CHARACTERIZATION AND VARIOUS APPLICATIONS**  
Yörür Göreci Ç., Demir Z., Turgut Z.  
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- IV. **Yeni İmatinib Türevlerinin Sentezi ve Biyolojik Aktivite Çalışmaları**  
GÜNAY F., GÜNKARA Ö. T., Balta S., Turgut Z., NG Y. Y.  
31. Ulusal Kimya Kongresi, İstanbul, Türkiye, 10 - 13 Eylül 2019, sa.1
- V. **Anti-Genotoxic Potential and Ultrasound-assisted Synthesis of Various  $\beta$ -Amino Ketones**  
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- VI. **Biyolojik aktivite içerebilecek heterohalkalı bileşiklerin tek kap yöntemi kullanarak triflat katalizörlü sentezleri**  
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2. ULUSAL MARMARA ECZACILIK KONGRESİ (UMEK-2018), İstanbul, Türkiye, 14 - 16 Kasım 2018, ss.151
- VII. **Triflat Catalyzed One-pot Synthesis of Benzo[*b*]xanthenes Derivatives**  
Turgut Z., Pektaş B.  
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- VIII. **Deniz Sağlam , Zuhul Turgut, Triflat Catalyzed Synthesis of Pyrido[2,3-*d*]pyrimidines via One-pot Reaction**  
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Uluslararası Katılımlı 6. İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Türkiye, 22 Mart 2018, ss.54
- IX. **Bismuth Triflate Catalyzed One-pot Multicomponent Synthesis of Hexahydropyrimidines and Their**

## **Spiro Analogues**

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- X. **Bismuth Triflate Catalyzed One-pot Multicomponent Synthesis of Hexahydropyrimidines and Their Spiro Analogues**  
TURGUT Z., TURHAN K.  
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- XI. **Triflat Catalyzed Synthesis of Pyrido[2,3-d]pyrimidines via One-pot Reaction**  
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- XIII. **Petrol rafinasyonu, akaryakıt kalite kontrol analizleri ve değerlendirilmesi.**  
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8. Ulusal Kimya Öğrenci Kongresi, İstanbul, Türkiye, 16 Mayıs 2017
- XIV. **Petrol rafinasyonu, akaryakıt kalite kontrol analizleri ve değerlendirilmesi**  
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- XV. **SPECTROSCOPIC INVESTIGATIONS OF 7-AMINO-1,3-DIMETHYL-5-(4-NITROPHENYL)-2,4-DIOXO-1,2,3,4-TETRAHYDROPYRIDO[2,3]PYRIMIDINE-6-CARBONITRILE**  
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19. JCF-Frühjahrssymposium, Mainz, Almanya, 29 Mart 2017, ss.124
- XVI. **Triflat Katalizörlü Değişik Substitue Pirimidin Sentezleri**  
TURHAN K., TURGUT Z.  
III. Ulusal Organik Kimya Kongresi, Trabzon, Türkiye, 05 Eylül 2016, ss.91
- XVII. **One-pot Synthesis of Various Pyrimidine Derivatives Using Yb(OTf)<sub>3</sub> Catalyst Under Ultrasonic Technique**  
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- XVIII. **Removal of Disperse Yellow 163 Dye in Textile Wastewaters by Ozone**  
TURHAN K., TURGUT Z.  
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- XIX. **One Pot Synthesis of Indeno 1 2 b Quinoline 7 one Derivatives by Triflate**  
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- XXI. **Spectroscopic Investigations of Aromatic 2H-indazolo[2,1b]phtalazine-triones**  
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- XXII. **Spectroscopic Investigations of Ethyl 4-(4-cyanophenyl)-2,7,7-trimethyl-5-oxo-1,4,5,6,7,8-hexahydroquinoline-3-carboxylate**  
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- XXIII. **Triflate Catalyzed Multicomponent Reactions for Synthesis of Functionalized Tetrahydropyridines**  
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- XXIV. **Triflat Katalizörlü ve Tek kap yöntemi ile Substitue Ftalazin-trion Bileşiklerinin ultrason Destekli Sentezleri**  
TURGUT Z., TURHAN K., PELİT E.  
1. Ulusal Organik Kimya Kongresi, Türkiye, 25 - 29 Ekim 2013
- XXV. **Ultrasound-assisted Synthesis of Naphtapyranes Catalyzed by Copper Triflate**  
TURHAN K., ÖZTÜRKCAN S. A., TURGUT Z.  
15. JCF Frühjahrssymposium, Berlin, Almanya, 06 Eylül 2013, ss.120
- XXVI. **Ultrasound Promoted One-pot Three-Component Synthesis of Aminonaphthols and Aminoalkyl Naphthols**  
PELİT E., TURGUT Z., TURHAN K.  
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- XXVII. **Ultrasound Promoted One-pot Three- Component Synthesis of Aminonaphthols and Aminoalkyl Naphthols**  
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- XXVIII. **One-pot Synthesis of Aromatic 2H-indazolo[2,1-b]phtlazine-triones catalyzed by triflates under solvent-free conditios**  
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- XXIX. **Decolourization of Textile Dye with Ozonization in Aqueous Solution**  
TURHAN K., ÖZTÜRKCAN S. A., TURGUT Z.  
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Öztürkcan S. A., TURGUT Z.  
International Paint and Coating Industry, Raw Materials, Auxiliary Products Exhibition and Congress, p.85 (2012), 01 Eylül 2012
- XXXI. **Tekstil Endüstrisinde Kullanılan Boyarmaddelerin Atıksularının Ozon ile Renginin Giderilmesinin Spektroskopik Yöntemle Belirlenmesi**  
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