

## **Prof.Dr. Zühal TURGUT**

### **Kişisel Bilgiler**

**E-posta:** zturgut@yildiz.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/zturgut>

**Posta Adresi:** Yıldız Teknik Üniversitesi Fen Edebiyat Fak. Kimya Bölümü Davutpaşa Kampüsü Esenler İstanbul

### **Uluslararası Araştırmacı ID'leri**

ScholarID: 8Js4yv4AAAAJ

ORCID: 0000-0002-9843-3415

Publons / Web Of Science ResearcherID: AAZ-8698-2020

ScopusID: 6701462526

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

Genel Kimya, Lisans, 2018 - 2019

### **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**

- I. Investigation of radiation protective features of azadispiro derivatives and their genotoxic potential

- with Ames/Salmonella test system**
- Alaylar B., Aygün B., Turhan K., Karadayı M., Cinan E., Turgut Z., Karadayı G., Abu Al-Sayyed M. I., Güllüce M., Karabulut A.
- INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, cilt.99, sa.2, ss.245-258, 2022 (SCI-Expanded)
- II. 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.
- TURKISH JOURNAL OF CHEMISTRY, cilt.46, sa.1, ss.86-144, 2021 (SCI-Expanded)
- III. Characterization of gamma-ray and neutron radiation absorption properties of synthesized quinoline derivatives and their genotoxic potential**
- Alaylar B., Aygün B., Turhan K., Karadayı G., Şakar E., Singh V., Sayyed M., Pelit E., Karabulut A., Güllüce M., et al. Radiation Physics And Chemistry, cilt.184, ss.1-12, 2021 (SCI-Expanded)
- IV. Investigation of neutron and gamma radiation protective characteristics of synthesized quinoline derivatives**
- Aygün B., Alaylar B., Turhan K., Şakar E., Karadayı M., İbrahim A. S. M., Pelit E., Güllüce M., Karabulut A., Turgut Z., et al.
- International Journal Of Radiation Biology, cilt.97, ss.1-12, 2020 (SCI-Expanded)
- V. 2H-Indazolo[2,1-b]phthalazine-trione derivatives: Inhibition on some metabolic enzymes and molecular docking studies**
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- Journal Of Heterocyclic Chemistry, cilt.57, sa.5, ss.3116-3125, 2020 (SCI-Expanded)
- VI. 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.
- Archiv Der Pharmazie, cilt.353, sa.5, ss.1-12, 2020 (SCI-Expanded)
- VII. 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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- VIII. Efficient One-Pot Synthesis of 2H-indazolo[2,1-b]phthalazine-1,6,11-trione Derivatives Catalyzed by Y(OTf)(3)**
- Turhan K., Turgut Z.
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- IX. Synthesis of enantiopure aminonaphthol derivatives under conventional/ultrasonic technique and their ring-closure reaction**
- Pelit E., TURGUT Z.
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- X. (+)-CSA Catalyzed Multicomponent Synthesis of 1-[(1,3-Thiazol-2-ylamino)methyl]-2-naphthols and Their Ring-Closure Reaction under Ultrasonic Irradiation**
- Pelit E., TURGUT Z.
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- XI. Ultrasonic synthesis, characterization of -aminoketones by bismuth(III) triflate and determination of antigenotoxic properties**
- Ozturkcan S. A., TURHAN K., TURGUT Z., KARADAYI M., GÜLLÜCE M.
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- XII. 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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- DRUG AND CHEMICAL TOXICOLOGY, cilt.37, sa.4, ss.365-369, 2014 (SCI-Expanded)

- XIII. **Three-component aza-Diels-Alder reactions using Yb(OTf)<sub>3</sub> catalyst under conventional/ultrasonic techniques**  
Pelit E., TURGUT Z.  
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- XIV. **Genotoxic and antigenotoxic assessment of four newly synthesized dihydropyridine derivatives**  
TURHAN K., Ozturkcan S. A., TURGUT Z., KARADAYI M., Aslan A., GÜLLÜCE M.  
TOXICOLOGY AND INDUSTRIAL HEALTH, cilt.30, sa.3, ss.275-283, 2014 (SCI-Expanded)
- XV. **One-pot Synthesis of Indenonaphthopyrans Catalyzed by Copper(II) Triflate: A Comparative Study of Reflux and Ultrasound Methods**  
TURHAN K., OZTURKCAN S. A., ULUER M., TURGUT Z.  
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- XVI. **Protective properties of five newly synthesized cyclic compounds against sodium azide and N-methyl-N'-nitro-N-nitrosoguanidine genotoxicity**  
TURHAN K., ÖZTÜRKCAN S. A., TURGUT Z., KARADAYI M., GÜLLÜCE M.  
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- XVII. **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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- XVIII. **Decolorization of textile basic dye in aqueous solution by ozone**  
TURHAN K., Durukan I., Ozturkcan S. A., TURGUT Z.  
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- XIX. **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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- XXI. **Synthesis and Characterizations of New 1,3-Oxazine Derivatives**  
ÖZTÜRKCAN S. A., TURHAN K., TURGUT Z.  
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- XXIV. **Aza-Diels-Alder Reactions with Lanthanide Triflates: Syntheses of Quinoline and Phenanthridine Derivatives**  
TURHAN K., PELIT E., TURGUT Z.  
SYNTHETIC COMMUNICATIONS, cilt.39, sa.10, ss.1729-1741, 2009 (SCI-Expanded)
- XXV. **An annelated thioxanthone as a new Type II initiator**  
Balta D., CETINER N., TEMEL G., TURGUT Z., ARSU N.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, cilt.199, ss.316-321, 2008 (SCI-Expanded)
- XXVI. **1,3-Di-3-pyridyl-2,3-dihydro-1H-naphth[1,2-e] [1,3]oxazine**  
Sen B., TURGUT Z., Pelit E., Aygun M.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, cilt.64, 2008 (SCI-Expanded)

- XXVII. **Synthesis of new pyrazolothiazole derivatives from 4-thiazolidinones**  
Turgut Z., Yolacan C., Aydogan F., Bagdatli E., Ocal N.  
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- XXVIII. **Reducing chemical oxygen demand and decolorization of direct dye from synthetic textile wastewater by ozonization in a batch bubble column reactor**  
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- XXIX. **Synthesis of new 1,3-disubstituted-2,3-dihydro-1H-naphth-[1,2e][1,3]oxazines**  
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- XXX. **Synthesis of some furo-thiazolidine derivatives starting from aldimines**  
Ocal N., AYDOĞAN F., Yolaçan Ç., Turgut Z.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, cilt.40, sa.4, ss.721-724, 2003 (SCI-Expanded)
- XXXI. **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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- XXXII. **Synthesis and electronic structure of new aryl- and alkyl-substituted 1,3,4-oxadiazole-2-thione derivatives**  
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- XXXIII. **Transformations of aldimines derived from pyrrole-2-carbaldehyde. Synthesis of thiazolidino-fused compounds**  
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- XXXIV. **4-Ethoxy-N-(6-methylquinolin-2-ylmethylene)aniline**  
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- XXXV. **Reactions of the dianion obtained by reductive metallation of 3,4-diphenylcinnoline**  
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- XXXVII. **Allylation and heterocycloaddition reactions of aldimines: Furan- and quinolinecarboxaldehydes**  
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- XXXVIII. **SYNTHESIS OF SCHIFF-BASES BY CONDENSATION OF HETARYLCARBOXALDEHYDES WITH PARA-PHENETIDINE**  
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## Düger Dergilerde Yayınlanan Makaleler

- I. **One-Pot Synthesis of Pyrido[2,3-&lt;i&gt;d&lt;/i&gt;]pyrimidines Catalyzed by Bismuth(III) Triflate**  
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- 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  
Turgut Z., Pelit E., Turhan K.  
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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 Çalışmalar  
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  
Turgut Z., Öztürkcan S. A.  
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- VI. Biyolojik aktivite içerebilecek heterohalkalı bileşiklerin tek kap yöntemi kullanarak triflat katalizörlü sentezleri  
Turgut Z., Pektaş B.  
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- VII. Triflat Catalyzed One-pot Synthesis of Benzo[b]xanthenes Derivatives  
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- VIII. Deniz Sağlam , Zuhal Turgut, Triflat Catalyzed Synthesis of Pyrido[2,3-d]pyrimidines via One-pot Reaction  
SAĞLAM D., TURGUT Z.  
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  
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- 3rd International Turkic World Conference on Chemical Sciences Technologies, ITWCCST – 2017, 10-13 September 2017, Baku / Azerbaijan, 10 - 13 Eylül 2017
- XI. **Triflat Catalyzed Synthesis of Pyrido[2,3-d]pyrimidines via One-potReaction**  
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- XII. **Triflat Catalyzed Synthesis of Pyrido[2,3-d]pyrimidines via One-pot Reaction**  
TURGUT Z., SAGLAM D., TURHAN K.  
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- XIII. **Petrol rafinasyonu, akaryakıt kalite kontrol analizleri ve değerlendirilmesi.**  
UZUNHASANOĞLU E., TURHAN K., TURGUT Z.  
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**  
TURHAN K., TURGUT Z.  
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)3 Catalyst Under Ultrasonic Technique**  
TURHAN K., TURGUT Z.  
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- XVIII. **Removal of Disperse Yellow 163 Dye in Textile Wastewaters by Ozone**  
TURHAN K., TURGUT Z.  
18th JCF Frühjahrssymposium, Kiel, Almanya, 16 Mart 2016, ss.108
- XIX. **One Pot Synthesis of Indeno 1 2 b Quinoline 7 one Derivatives by Triflate**  
TURGUT Z., ELMAS Ö., TURHAN K.  
1st International Turkic World Conference on Chemical Sciences and Technologies, 27 Ekim - 01 Kasım 2015
- XX. **Removal of Disperse Dyes in Textile Wastewaters**  
TURHAN K., TURGUT Z.  
17th JCF Frühjahrssymposium, Münster, Almanya, 25 Mart 2015, ss.82
- XXI. **Spectroscopic Investigations of Aromatic 2H-indazolo[2,1b]phtalazine-triones**  
TURHAN K., SENCER Y., TURGUT Z.  
6th Black Sea Basin Conference on Analytical Chemistry, Trabzon, Türkiye, 10 Eylül 2014, ss.249
- XXII. **Spectroscopic Investigations of Ethyl 4-(4-cyanophenyl)-2,7,7-trimethyl-5-oxo-1,4,5,6,7,8-hexahydroquinoline-3-carboxylate**  
TURHAN K., PELİT E., ÇETİN İ., TURGUT Z.  
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- XXIII. **Triflate Catalyzed Multicomponent Reactions for Synthesis of Functionalized Tetrahydropyridines**  
TURHAN K., TURGUT Z., DÜRÜST O. R.  
16th JCF-Frühjahrssymposium, Jena, Almanya, 26 Mart 2014, ss.71
- 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**  
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IUPAC 44th World Chemistry Congress, 11 - 16 Ağustos 2013
- XXVII. **Ultrasound Promoted One-pot Three- Component Synthesis of Aminonaphthols and Aminoalkyl Naphthols**  
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IUPAC, 01 Ağustos 2013
- XXVIII. **One-pot Synthesis of Aromatic 2H-indazolo[2,1-b]phthalazine-triones catalyzed by triflates under solvent-free conditios**  
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ESOC2013 European Symposium on Organic Chemistry, Marsilya, Fransa, 07 Temmuz 2013, ss.118
- XXIX. **Decolourization of Textile Dye with Ozonation in Aqueous Solution**  
TURHAN K., ÖZTÜRKCAN S. A., TURGUT Z.  
International Paint and Coating Industry, Raw Materials, Auxiliary Products Exhibition and Congress, İstanbul, Türkiye, 13 Eylül 2012, ss.85
- XXX. **"Decolourization of Textile Dye with Ozonation in Aqueous Solution", International Paint and Coating Industry, Raw Materials, Auxiliary Products Exhibition and Congress,**  
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 Atıksalarının Ozon ile Renginin Giderilmesinin Spektroskopik Yöntemle Belirlenmesi**  
TURHAN K., ÖZTÜRKCAN S. A., TURGUT Z.  
III. Fiziksel Kimya Günleri, Türkiye, 12 - 15 Temmuz 2012
- XXXII. **Henry Reaction by Ultrasound-Assisted, International Conference on Materials and Technologies for Green Chemistry**  
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- XXXIII. **Ultrasound-Assisted Rapid synthesis of  $\alpha$ -Amino Ketones with Direct Type Catalytic Mannich Reaction Using Bismuth Triflate in Aqueous Media at Room Temperature**  
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