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Education Information

Doctorate, Yildiz Technical University, Kimya, Turkey 1989 - 1994

Research Areas

Chemistry, Organic Chemistry, Chemistry of Aromatic Compounds, Chemistry of Natural Products, Chemistry of Heterocyclic Compounds, Natural Sciences

Courses

Organik Kimya 2, Undergraduate, 2018 - 2019

İleri Organik Kimya, Postgraduate, 2018 - 2019

Heterohalkalı Bileşikler Kimyası, Postgraduate, 2018 - 2019

Genel Kimya, Undergraduate, 2018 - 2019

Advising Theses

Turgut Z., BİYOLOJİK AKTİVİTE İÇEREBİLECEK HETEROHALKALI BİLEŞİKLERİN TEK KAP YÖNTEMİ İLE SENTEZLERİ, Postgraduate, B.PEKTAŞ(Student), 2019

Turgut Z., AZOT İÇEREN HETEROHALKALI BİLEŞİKLERİN TEK-KAP METODU İLE SENTEZLERİ, Postgraduate, D.SAĞLAM(Student), 2018

Turgut Z., ASİMETRİK VİNİL TÜREVLERİNİN SENTEZİ, KARAKTERİZASYONU VE ÇEŞİTLİ UYGULAMALARI, Postgraduate, Z.DEMİR(Student), 2017

TURGUT Z., Değişik Substitue Heteroatom içeren bileşiklerin triflat katalizörlü ve ultrasound destekli sentezleri, Postgraduate, Ö.ELMAS(Student), 2015

TURGUT Z., Farklı Ortamlarda çok bileşenli tek kap Yöntemi ile mannich reaksiyonu, Doctorate, S.Arda(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.99, no.2, pp.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, vol.46, no.1, pp.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, vol.184, pp.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, vol.97, pp.1-12, 2020 (SCI-Expanded)
- V. **2H-Indazolo[2,1-b]phthalazine-trione derivatives: Inhibition on some metabolic enzymes and molecular docking studies**
Taslimi P., Türkan F., Karaman H. S., Turhan K., Turgut Z., Gülçin İ.
Journal Of Heterocyclic Chemistry, vol.57, no.5, pp.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, vol.353, no.5, pp.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**
Taslimi P., TURHAN K., Turkan F., Karaman H. S., TURGUT Z., GÜLÇİN İ.
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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.
RUSSIAN JOURNAL OF ORGANIC CHEMISTRY, vol.55, pp.250-253, 2019 (SCI-Expanded)
- IX. **Synthesis of enantiopure aminonaphthol derivatives under conventional/ultrasonic technique and their ring-closure reaction**
Pelit E., TURGUT Z.
ARABIAN JOURNAL OF CHEMISTRY, vol.9, no.3, pp.421-429, 2016 (SCI-Expanded)
- 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.
JOURNAL OF CHEMISTRY, 2016 (SCI-Expanded)
- 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.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.31, no.10, pp.911-919, 2015 (SCI-Expanded)
- 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**
TURHAN K., Ozturkcan S. A., TURGUT Z., KARADAYI M., GÜLLÜCE M.

DRUG AND CHEMICAL TOXICOLOGY, vol.37, no.4, pp.365-369, 2014 (SCI-Expanded)

- XIII. **Three-component aza-Diels-Alder reactions using Yb(OTf)₃ catalyst under conventional/ultrasonic techniques**
Pelit E., TURGUT Z.
ULTRASONICS SONOCHEMISTRY, vol.21, no.4, pp.1600-1607, 2014 (SCI-Expanded)
- 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, vol.30, no.3, pp.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.
ACTA CHIMICA SLOVENICA, vol.61, no.3, pp.623-628, 2014 (SCI-Expanded)
- 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.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.28, no.7, pp.605-613, 2012 (SCI-Expanded)
- 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.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.26, no.7, pp.258-263, 2012 (SCI-Expanded)
- XVIII. **Decolorization of textile basic dye in aqueous solution by ozone**
TURHAN K., Durukan I., Ozturkcan S. A., TURGUT Z.
DYES AND PIGMENTS, vol.92, no.3, pp.897-901, 2012 (SCI-Expanded)
- 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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Journal of the Chemical Society of Pakistan, vol.34, no.1, pp.94-101, 2012 (SCI-Expanded)
- XX. **Ultrasound-assisted rapid synthesis of beta-aminoketones with direct-type catalytic Mannich reaction using bismuth(III) triflate in aqueous media at room temperature**
ÖZTÜRKCAN S. A., TURHAN K., TURGUT Z.
CHEMICAL PAPERS, vol.66, no.1, pp.61-66, 2012 (SCI-Expanded)
- XXI. **Synthesis and Characterizations of New 1,3-Oxazine Derivatives**
ÖZTÜRKCAN S. A., TURHAN K., TURGUT Z.
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- XXII. **Treatment and degradability of direct dyes in textile wastewater by ozonation: A laboratory investigation**
TURHAN K., TURGUT Z.
DESALINATION AND WATER TREATMENT, vol.11, pp.184-191, 2009 (SCI-Expanded)
- XXIII. **Decolorization of direct dye in textile wastewater by ozonation in a semi-batch bubble column reactor**
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DESALINATION, vol.242, pp.256-263, 2009 (SCI-Expanded)
- XXIV. **Aza-Diels-Alder Reactions with Lanthanide Triflates: Syntheses of Quinoline and Phenanthridine Derivatives**
TURHAN K., PELIT E., TURGUT Z.
SYNTHETIC COMMUNICATIONS, vol.39, no.10, pp.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, vol.199, pp.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, vol.64, 2008 (SCI-Expanded)

- XXVII. **Synthesis of new pyrazolothiazole derivatives from 4-thiazolidinones**
Turgut Z., Yolacan C., Aydogan F., Bagdatli E., Ocal N.
MOLECULES, vol.12, no.9, pp.2151-2159, 2007 (SCI-Expanded)
- XXVIII. **Reducing chemical oxygen demand and decolorization of direct dye from synthetic textile wastewater by ozonization in a batch bubble column reactor**
TURHAN K., TURGUT Z.
Fresenius Environmental Bulletin, vol.16, pp.821-825, 2007 (SCI-Expanded)
- XXIX. **Synthesis of new 1,3-disubstituted-2,3-dihydro-1H-naphth-[1,2e][1,3]oxazines**
Turgut Z., Pelit E., Koycu A.
MOLECULES, vol.12, no.3, pp.345-352, 2007 (SCI-Expanded)
- XXX. **Synthesis of some furo-thiazolidine derivatives starting from aldimines**
Ocal N., AYDOĞAN F., Yolaçan Ç., Turgut Z.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.40, no.4, pp.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**
Turgut Z., Ocal N.
RUSSIAN JOURNAL OF ORGANIC CHEMISTRY, vol.38, no.4, pp.602-605, 2002 (SCI-Expanded)
- XXXII. **Synthesis and electronic structure of new aryl- and alkyl-substituted 1,3,4-oxadiazole-2-thione derivatives**
AYDOĞAN F., Turgut Z., Öcal N., Erdem S.
TURKISH JOURNAL OF CHEMISTRY, vol.26, no.2, pp.159-169, 2002 (SCI-Expanded)
- XXXIII. **Transformations of aldimines derived from pyrrole-2-carbaldehyde. Synthesis of thiazolidino-fused compounds**
AYDOĞAN F., Öcal N., Turgut Z., Yolaçan Ç.
BULLETIN OF THE KOREAN CHEMICAL SOCIETY, vol.22, no.5, pp.476-480, 2001 (SCI-Expanded)
- XXXIV. **4-Ethoxy-N-(6-methylquinolin-2-ylmethylene)aniline**
Aygun M., Isik S., Turgut Z., Ozbey S., Kendi E.
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- XXXV. **Reactions of the dianion obtained by reductive metallation of 3,4-diphenylcinnoline**
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MONATSHFTE FUR CHEMIE, vol.130, no.7, pp.915-920, 1999 (SCI-Expanded)
- XXXVI. **Reductive metallation of 6-methyl-2,3-diphenylquinoxaline. Synthesis of 1,4-dihydro-1,4-diazine derivatives**
Ocal N., Turgut Z., Kaban S.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.35, no.6, pp.1349-1351, 1998 (SCI-Expanded)
- XXXVII. **Allylation and heterocycloaddition reactions of aldimines: Furan- and quinolinecarboxaldehydes**
Kouznetsov V., Ocal N., Turgut Z., Zubkov F., Kaban S., Varlamov A.
MONATSHFTE FUR CHEMIE, vol.129, pp.671-677, 1998 (SCI-Expanded)
- XXXVIII. **SYNTHESIS OF SCHIFF-BASES BY CONDENSATION OF HETARYLCARBOXALDEHYDES WITH PARAPHENETIDINE**
KABAN S., FIDANER Z.
MONATSHFTE FUR CHEMIE, vol.121, pp.525-528, 1990 (SCI-Expanded)

Articles Published in Other Journals

- One-Pot Synthesis of Pyrido[2,3-*l*]pyrimidines Catalyzed by Bismuth(III)Triflate**
Saglam D., Turgut Z.

International Journal of Organic Chemistry, vol.12, no.01, pp.11-27, 2022 (Peer-Reviewed Journal)

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.

American Chemical Science Journal, vol.13, pp.1-8, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

I. Synthesis of 2,4-Disubstituted-3,4-Dihydro-2H-Naphth[2,1-e][1,3]Oxazines

Turgut Z., Pelit E., Turhan K.

in: Innovations in Chemical Biology, Bilge ŞENER, Editor, Springer-Verlag , Dordrecht, pp.343-346, 2009

Refereed Congress / Symposium Publications in Proceedings

I. Synthesis of pyrazolo[3,4-b]pyridine and pyrido[2,3-d]pyrimidine derivatives

SEZER T., TURHAN K., TURGUT Z.

23rd JCF-Frühjahrssymposium 2021, Germany, 29 March 2021

II. A green multicomponent synthesis of pyrimido[4,5-b]quinoline derivatives

TURHAN K., TURGUT Z.

2nd International Eurasian Conference on Science, Engineering and Technology, 7 - 09 October 2020

III. SYNTHESIS OF ASYMMETRIC VINYL DERIVATIVES, CHARACTERIZATION AND VARIOUS APPLICATIONS

Yörür Göreci Ç., Demir Z., Turgut Z.

Uluslararası Marmara Fen Bilimleri Kongresi IMASCON 2019 Güz, Kocaeli, Turkey, 1 - 03 November 2019, pp.71

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, Turkey, 10 - 13 September 2019, no.1

V. Anti-Genotoxic Potential and Ultrasound-assisted Synthesis of Various β -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.

2. ULUSAL MARMARA ECZACILIK KONGRESİ (UMEK-2018), İstanbul, Turkey, 14 - 16 November 2018, pp.151

VII. Triflat Catalyzed One-pot Synthesis of Benzo[b]xanthenes Derivatives

Turgut Z., Pektaş B.

4.th Organic Chemistry Congress with International Participation , Antalya, Turkey, 4 - 07 October 2018, pp.89

VIII. Deniz Sağlam , Zuhul 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, Turkey, 22 March 2018, pp.54

IX. Bismuth Triflate Catalyzed One-pot Multicomponent Synthesis of Hexahydropyrimidines and Their Spiro Analogues

TURGUT Z., TURHAN K.

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X. Bismuth Triflate Catalyzed One-pot Multicomponent Synthesis of Hexahydropyrimidines and Their Spiro Analogues

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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.**
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- XIV. **Petrol rafinasyonu, akaryakıt kalite kontrol analizleri ve değerlendirilmesi**
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8. Ulusal Kimya Öğrenci Kongresi, Turkey, 16 - 18 May 2017
- 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, Germany, 29 March 2017, pp.124
- XVI. **Triflat Katalizörlü Değişik Substitue Pirimidin Sentezleri**
TURHAN K., TURGUT Z.
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 05 September 2016, pp.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.
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- XIX. **One Pot Synthesis of Indeno 1 2 b Quinoline 7 one Derivatives by Triflate**
TURGUT Z., ELMAS Ö., TURHAN K.
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- XX. **Removal of Disperse Dyes in Textile Wastewaters**
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- XXI. **Spectroscopic Investigations of Aromatic 2H-indazolo[2,1b]phtalazine-triones**
TURHAN K., SENCER Y., TURGUT Z.
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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, Turkey, 25 - 29 October 2013
- XXV. **Ultrasound-assisted Synthesis of Naphtapyranes Catalyzed by Copper Triflate**
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- XXVI. **Ultrasound Promoted One-pot Three-Component Synthesis of Aminonaphthols and Aminoalkyl Naphthols**
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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]phtalazine-triones catalyzed by triflates under solvent-free conditios**
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- XXIX. **Decolourization of Textile Dye with Ozonization in Aqueous Solution**
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III. Fiziksel Kimya Günleri, Turkey, 12 - 15 July 2012
- XXXII. **Henry Reaction by Ultrasound-Assisted, International Conference on Materials and Technologies for Green Chemistry**
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Jointly with Workshop of Cost Action CM0903 (UBIOCHEM-II), 5 - 09 September 2011
- XXXIII. **Ultrasound-Assisted Rapid synthesis of α -Amino Ketones with Direct Type Catalytic Mannich Reaction Using Bismuth Triflate in Aqueous Media at Room Temperature**
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- XXXIV. **Triton X-100 Sulu Misel Ortamda Bizmut Triflat Katalizörü Kullanarak Mannich Reaksiyonu ile α -Aminoketon Sentezi**
TURGUT Z., ÖZTÜRKCAN S. A., TURHAN K.
Uluslararası Katılımlı XXV. Ulusal Kimya Kongresi, Turkey, 29 June - 02 July 2011
- XXXV. **Tek Kap Yöntemi ile Naftapiran Türevlerinin Sentezi**
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- XXXVI. **UÇAK PİSTLERİNDE ASFALT DAYANIKLILIĞININ ARTTIRILMASI**
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- XXXVII. **Structure Characterizations of New Dihydropyridine Derivatives**
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- XXXIX. **Mutagenic and Antimutagenic Activity of Nitrogen and Oxygen Containing in Various New Substituted Cyclic Compounds**
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