

Prof. Yunus KARA

Personal Information

Fax Phone: [+90 442 231 4109](tel:+904422314109)

Web: <https://avesis.atauni.edu.tr/yukara>

Address: Atatürk Üniversitesi Fen Fakültesi Kimya Bölümü 25240 Yakutiye Erzurum

International Researcher IDs

ScholarID: s1v1dVQAAAAJ

ORCID: 0000-0001-7552-9425

Yoksis Researcher ID: 6192

Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Organik Kimya, Turkey 1987 - 1993

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Organik Kimya, Turkey 1985 - 1987

Undergraduate, Ataturk University, Fen Fakültesi, Turkey 1981 - 1985

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Bis- Homo-Conduritollerin Sentezi, Atatürk Üniversitesi, Fen Fakültesi, Kimya Organik Kimya, 1993

Postgraduate, 1,6-Methano[10]annulen-2,5-dikinonun Diels-Alder katılma reaksiyonları , Atatürk Üniversitesi, Fen Fakültesi, Kimya Organik Kimya, 1987

Research Areas

Chemistry, Organic Chemistry, Chemistry of Asymmetric Synthesis, Chemistry of Natural Products, Chemistry of Heterocyclic Compounds, Chemistry of Hydrocarbons, Organometallics, Natural Sciences

Academic Titles / Tasks

Professor, Ataturk University, Fen Fakültesi, Kimya, 1986 - Continues

Academic and Administrative Experience

Atatürk Üniversitesi, Eczacılık Fakültesi, 2003 - 2009

Director Of Junior College, Ataturk University, 2001 - 2003

Courses

İleri Organik Kimya, Postgraduate, 2006 - 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Reduction of 2-phenyl-3a,4,7,7a-tetrahydro-1H-isoindole-1,3(2H)-dione with NaBH₄: Investigation of *exo*-selectivity and reaction mechanism via theoretical computations**
GÜNDOĞDU Ö., Atalay A., Turhan P., ANIL B., ŞAHİN E., BOZKAYA U., HORASAN N., KARA Y.
JOURNAL OF MOLECULAR STRUCTURE, vol.1319, 2025 (SCI-Expanded)
- II. **One-pot synthesis of 4,5,6-triacetoxyisoindole-1,3-dione derivatives by hydride transferring agent in Ac₂O: Explanation of the regioselectivity in the molecule by theoretical calculations**
Gündoğdu O., Atalay A., ŞAHİN E., KARA Y.
Journal of Molecular Structure, vol.1314, 2024 (SCI-Expanded)
- III. **Unusual Rearrangements in Cyclohex-3-ene-1-carboxamide Derivatives: Pathway to Bicyclic Lactones**
GÜNDOĞDU Ö., AYTAÇ S., ŞAHİN E., KARA Y.
ACS OMEGA, vol.9, no.21, pp.22970-22978, 2024 (SCI-Expanded)
- IV. **A unique synthesis of N-(Z)-5-bromo-6-hydroxyhexahydro isobenzofuran-1(3H)-ylidene)methanaminium bromide**
Gündoğdu Ö., ŞAHİN E., KARA Y.
Chemical Papers, vol.78, no.2, pp.1347-1352, 2024 (SCI-Expanded)
- V. **Synthesis, cytotoxicity, and antibacterial studies of 2,4,5,6-substituted hexahydro-1H-isoindole-1,3(2H)-dione**
Yetişkin E., Gündoğdu Ö., Mete D., Çelebioğlu N., KARA Y., Şanlı-Mohamed G.
Chemical Biology and Drug Design, vol.102, no.6, pp.1448-1457, 2023 (SCI-Expanded)
- VI. **Investigation of cytotoxic properties of some isoindole-related compounds bearing silyl and azide groups with in vitro and in silico studies**
Tan A., Köse A., Mete D., Şanlı-Mohamed G., KİSHALI N., KARA Y.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.198, no.11, pp.933-942, 2023 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **THE REACTION OF CHLOROSULFONYL ISOCYANATE WITH 2-PHENYL3a,4,7,7a-TETRAHYDRO-1H-ISOINDOLE-1,3(2H)-DIONE AND N-PHENYLMALEIMIDE UNDER SOLVENT FREE CONDITION**
KÖSE A., KARA Y.
2. INTERNATIONAL BAKU SCIENTIFIC RESEARCHES CONFERENCE, Baku, Azerbaijan, 28 - 30 April 2021
- II. **2,3-EPOKSİ ALKOL BİLEŞİKLERİNİN ANTI-KANSER AKTİVİTELERİNİNDEĞERLENDİRİLMESİ**
Yetişkin E., Gündoğdu Ö., Mete D., Çelebioğlu N., Şanlı Mohamed G., Kara Y.
9. International Drug Chemistry Conference, Antalya, Turkey, 8 - 11 April 2021
- III. **A Novel Synthesis of (2S)-3-(2,4,5-trifluorophenyl)propane-1,2-diol by Sharpless Asymmetric Epoxidation Method**
ANIL D., KARA Y., ALTUNDAŞ R.
7. ilaç kimyası kongresi, 14 - 17 March 2019
- IV. **Bazı İsoindol-1,3-Dion Türevlerinin Ksantin Oksidaz Enzim İnhibisyonu,**
Gündoğdu Ö., KİSHALI N., KARA Y., SAMİR ABBAS ALİ N., ATEŞ B.
Uluslararası Katılımlı 6. İlaç Kongresi, 22 - 25 March 2018
- V. **γ-Lactone Synthesis-Fused N-Substituted Norcantharimide**

TAN A., KİSHALI N., KARA Y.

The International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE), 11 - 15 October 2017

- VI. **Synthesis of Bromosubstituted Isoindole-1,3-dione Derivatives: Bromination of (3aS,5S,7aR)-5-hydroxy-2-alkyl/aryl-3a,4,5,7a-tetrahydro-1H-isoindole-1,3(2H)-dione**
TAN A., KARA Y.
The International Conference on Applications in Chemistry and Chemical Engineering (ICACCHE), 11 - 15 October 2017
- VII. **Synthesis of Sensiline and its Aromatic Derivatives**
KİSHALI N., GÜNDOĞDU Ö., KARA Y.
3 rd International Multidisciplinary Symposium on Drug Research and Development - DRD 2017, Turkey, 5 - 07 October 2017
- VIII. **Unusual Reaction of (3aR,7aS)-2-ethyl-3a,4,7,7a-tetrahydro-1H-isoindole-1,3(2H)-Dione and Chlorosulfonylisocyanate (CSI)**
KÖSE A., BOZKAYA U., ŞAHİN E., KARA Y.
2nd International Conference on Advances in Natural and Applied Sciences, 18 - 21 April 2017
- IX. **Synthesis of Isoindole-1,3-dione Derivatives and Investigation of Their Activities on Tyrosine Kinase Enzyme**
ŞANLI MOHAMED G., KÖSE A., KARA Y., KİSHALI N., KAYA M.
5. Congress of Drug Chemistry, 30 March - 02 April 2017
- X. **Florosubstitüe Benzoil Propiyonik Asit Türevlerinin Sentezi**
GÜNDOĞDU Ö., AYDIN P., KÖSE A., ALTUNDAŞ R., KARA Y.
Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, 30 March - 02 April 2017
- XI. **5-Karboksilik Asit-İsoindole-1,3-Dion Birimi İçeren Sessiline Türevlerinin Sentezi**
GÜNDOĞDU Ö., KİSHALI N., KARA Y.
Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Turkey, 30 March - 02 April 2017
- XII. **İsoindol-1,3-dion Türevlerinin Sentezi ve Tirozin Kinaz Enzimi Üzerine Aktivitelerinin İncelenmesi**
KÖSE A., KAYA M., KİSHALI N., ŞANLI MOHAMED G., KARA Y.
Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Turkey, 30 March - 02 April 2017
- XIII. **Bazı İsoindol-1,3-Dion Türevlerinin Anti-Kanser Aktivitelerinin İncelenmesi**
KİSHALI N., TAN A., YAĞLIOĞLU A. Ş., DEMİRTAŞ İ., KARA Y.
Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Turkey, 30 March - 02 April 2017
- XIV. **Investigation of Anticancer Properties of the Novel Synthesized Pyrrole Derivatives as Potential Tyrosine Kinase Inhibitors**
ŞANLI MOHAMED G., KAYA M., KÖSE A., KARA Y.
II. Congress of Life Sciences, 2 - 03 February 2017
- XV. **Investigation Photophysical Properties of 5 Aminophthalimide Derivatives in a Nonpolar Solvent**
TAN A., BOZKURT E., KİSHALI N., KARA Y.
International turkic eorld conferance on chemical sciences and technologies, 26 October 2015 - 30 October 2016
- XVI. **Investigation Photophysical Properties of 5 Aminophthalimide Derivatives in a Nonpolar Solvent**
TAN A., BOZKURT E., KİSHALI N., KARA Y.
2nd INTERNATIONAL TURKIC WORLD CONFERENCE ON CHEMICAL SCIENCES AND TECHNOLOGIES, 26 - 30 October 2016
- XVII. **Synthesis of New Aminofthalimide Derivatives and Investigation of Solvent Effects on Photophysical Properties**
BOZKURT E., TAN A., KARA Y.
2st International Turkic World Conference on Chemical Sciences and Technologies, Üsküp, Macedonia, 26 - 30

October 2016, pp.196

- XVIII. Synthesis of New Aminoftalimide Derivatives and Investigation of Solvent Effects on Photophysical Properties**
BOZKURT E., TAN A., KARA Y.
2st International Turkic World Conference on Chemical Sciences and Technologies, Üsküp, Macedonia, 26 - 30 October 2016, pp.196
- XIX. Synthesis of aroil β alanine derivatives from S homoserine lactone**
Gündoğdu Ö., Aydın P., ALTUNDAŞ R., KARA Y.
Anatolian Conference on Synthetic Organic Chemistry, 21 - 24 March 2016
- XX. Synthesis of 2 aryltetrahydrofuran derivatives from Grignard reagents via cross coupling reactions**
Gündoğdu Ö., ALTUNDAŞ R., KARA Y.
Anatolian Conference on Synthetic Organic Chemistry, 21 - 24 March 2016
- XXI. Synthesis of new sessiline derivatives from bicyclic imides**
KİSHALI N., Gündoğdu Ö., KARA Y.
Anatolian Conference on Synthetic Organic Chemistry (ACSOC-II), Aydın, Turkey, 21 - 24 March 2016
- XXII. Asymmetric Synthesis of and Amino acid Derivatives**
Gündoğdu Ö., Aydın P., ALTUNDAŞ R., KARA Y.
Anatolian Conference on Synthetic Organic Chemistry, 16 - 19 March 2015
- XXIII. A Facile and Efficient Synthesis of Lactam fused Cantharimide derivatives**
KÖSE A., KARA Y.
TRAMECH VIII, 3 - 07 November 2015
- XXIV. Synthesis of noval norcantharimide derivatives**
KÖSE A., KİSHALI N., ŞANLI MOHAMED G., KARA Y.
71st SWRM/67th SERMACS, 4 - 07 November 2015
- XXV. Synthesis Of 5 5 Oxo Pyrrolidin 2 yloxymethyl Furan 2 Carbaldehyde Derivatives**
KİSHALI N., Gündoğdu Ö., AYDIN P., KARA Y.
1stInternational Turkic World Conference on Chemical Sciences and Technologies, SARAYBOSNA, Bosnia And Herzegovina, 27 October - 01 November 2015, pp.232
- XXVI. Evaluation of cytotoxicity of New cantharimide derivatives on human colon cancer cell line HT 29**
KILIÇ SÜLOĞLU A., Kanat O. N., GİRGİN G., KARA Y., SELMANOĞLU G., BAYDAR T.
EUROTOX 2015, 13 - 16 September 2015, vol.238
- XXVII. Synthesis of new norcantharimide analogues and their anticancer evaluation**
KÖSE A., Bal Y., Nurhan H K., ŞANLI MOHAMED G., KARA Y.
AnatolianConference on synthetic organic Chemistry, 16 - 19 March 2015
- XXVIII. Sitagliptinin (Januvia™) Yapısını Oluşturan β -Amino Asitin Alternatif BirYöntemle Sentezi**
KÖSE A., GÜNDOĞDU Ö., AKTAŞ D., FİSTİKÇİ EŞSİZ M., SEÇEN H., ALTUNDAŞ R., KARA Y.
2. İlaç Kimyası, Üretimi, Teknolojisi ve Standardizasyonu Kongresi, Turkey, 21 - 23 March 2014
- XXIX. Sitagliptin'in (Januvia®) Asimetrik Sentezi**
GÜNDOĞDU Ö., AKTAŞ D., FİSTİKÇİ EŞSİZ M., SEÇEN H., KARA Y.
Sitagliptin'in (Januvia®) Asimetrik Sentezi, Turkey, 29 - 31 March 2013
- XXX. Sitagliptin in Januvia Ana İskeletini Oluşturan Hidroksi Asit in Asimetrik Sentezi**
AKTAŞ D., GÜNDOĞDU Ö., FİSTİKÇİ EŞSİZ M., SEÇEN H., ALTUNDAŞ R., KARA Y.
1. İlaç Kimyası, Üretimi, Teknolojisi ve Standardizasyonu Kongresi, Antalya, Turkey, 29 - 31 March 2013
- XXXI. Enantioselective synthesis of R and S b hydroxyphenylbutanoic acids Main unit of sitagliptin Januvia**
AKTAŞ D., FİSTİKÇİ EŞSİZ M., KARA Y., ALTUNDAŞ R., SEÇEN H., GÜNDOĞDU Ö.
Conference: 244th National Fall Meeting of the American-Chemical-Society (ACS) Location: Philadelphia, Philadelphia, United States Of America, 19 - 22 August 2012
- XXXII. Enantioselective synthesis of (R)- and (S)-b-hydroxyphenylbutanoic acids: Main unit of sitagliptin (Januvia)**
Altundas R., KARA Y., SEÇEN H., AKTAS D., GUNDOGDU O., FISTIKCI M.
244th National Fall Meeting of the American-Chemical-Society (ACS), Pennsylvania, United States Of America, 19 -

23 August 2012, vol.244

- XXXIII. **Kiral Aminoalkoller ve Diaminlerin Sentezi: Aldehidlerin Asimetrik Alkilasyonu**
KILIÇ H., KARA Y., Şahin E.
XXIII. Ulusal Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009, pp.8
- XXXIV. **Kiral Aminoalkoller ve Diaminlerin Sentezi: Aldehidlerin Asimetrik Alkilasyonu**
KILIÇ H., KARA Y., Şahin E.
XXIII. Ulusal Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009, pp.8
- XXXV. **An Efficient Synthesis of (R)-Gabob from (R)-Ethyl 4-Chloro-3-Hydroxy Butanoate and (±)-Gabob from Methyl-Chloro-3-Oxo-Butyrate**
Şahin E., Kishali N., Kelebekli L., Mete E., Seçen H., Altundaş R., Kara Y.
International Conference on Medicinal Chemistry, Lille, France, 4 - 06 July 2007
- XXXVI. **Epoxidation of α -hydroxy- β -unsaturated enones: Electronic effects in stereoselectivity**
KILIÇ H., KARA Y., Şahin E.
International Conference on Organic Chemistry, Erzurum, Turkey, 5 - 09 June 2007, pp.202
- XXXVII. **Epoxidation of α -hydroxy- β -unsaturated enones: Electronic effects in stereoselectivity**
Kılıç H., Kara Y., Şahin E.
International Conference on Organic Chemistry, Erzurum, Turkey, 5 - 09 June 2007, pp.202
- XXXVIII. **Homo Amino Conduritol Türevlerinin Sentezi**
KELEBEKLİ L., ÇELİK M., KARA Y., Balcı M.
XVIII:Ulusal Kimya Kongresi, Turkey, 5 - 09 July 2004
- XXXIX. **Bisiklik 2 3 Epoksi 1 4 Endoperoksitlerin fotokimyası**
KURBANOĞLU N. İ., AKBULUT N., KARA Y., SEÇEN H.
XI. Ulusal Kimya Kongresi, Turkey, 16 - 20 June 1997, pp.627
- XL. **Bisiklik 2 3 Epoksi 1 4 Endoperoksitlerin Fotokimyasal Düzenlenmesi**
Kurbanoğlu İ., KARA Y., SEÇEN H., AKBULUT N.
1. Organik Kimya Lisansüstü Öğrenci Sempozyumu, Turkey, 6 - 09 June 1996
- XLI. **Endo ve exo-3,6,7-Trioxa-Trisiklo[3.2.2.0^{2,6},5] nonanların farklıçözücüler de yüksek sıcaklıkta termoliz reaksiyonları**
ÇELİK M., KARA Y., AKBULUT N., Balcı M.
VII: Kimya ve Kimya Mühendisliği Sempozyumu KKTC, Turkey, 2 - 05 April 1991

Other Publications

- I. **"Cyclitols:Conduritols Aminoconduritols and Quercitol**
BALCI M., ÇELİK M., DEMİR E., ERTAŞ M., GÜLTEKİN M. S., ÖZTÜRK N., KARA Y., HORASAN-KİSHALI N.
Presentation, pp.169-175, 2005
- II. **"Cyclitols:Conduritols Aminoconduritols and Quercitol**
BALCI M., ÇELİK M., DEMİR E., ERTAŞ M., GÜLTEKİN M. S., ÖZTÜRK N., KARA Y., HORASAN-KİSHALI N.
Presentation, pp.169-175, 2005

Supported Projects

KARA Y., KOSE A., KAYA M., KİSHALI N., ŞANLI MOHAMED G., Project Supported by Higher Education Institutions, Potansiyel Anti Kanser Ajan Olan 5klor2AlkilAri13diokso233a457ahekhahidro1Hisoindol4il asetat ve 3aR4R7R7aS2AlkilAri13diokso233a477ahekhahidro1Hisoindol47diil diasetat türevlerinin sentezi II, 2021 - 2024
AKBULUT N., MENZEK A., DAŞTAN A., EKİNCİ D., KILIÇ H., ÖZDEMİR H., KAZAZ C., SARAÇOĞLU N., ONGANER Y., ŞAHİN E., et al., Project Supported by Higher Education Institutions, Kimya Bölümünün Akademik Araştırma Potansiyelinin Geliştirilmesi, 2019 - 2021
KARA Y., ŞANLI MOHAMED G., KİSHALI N., KAYA M., KÖSE A., Project Supported by Higher Education Institutions,

Potansiyel Antikanser Etkili İsoindol-1,3-dion Türevi Yeni Bileşikler ve Bu Bileşiklerin Sentez Yöntemi, 2017 - 2021
KARA Y., KİSHALI N., KÖSE A., ŞANLI MOHAMED G., Project Supported by Higher Education Institutions, Potansiyel ilaç etken maddesi olabilecek isoindol13dion türevlerinin enzim inhibisyonununun araştırılması ve antikanser etkilerinin deney hayvanlarında incelenmesi, 2018 - 2020
HORASAN N., AKBULUT N., KARA Y., SARAÇOĞLU N., MARAŞ A., ÇAKICI M., Project Supported by Higher Education Institutions, Uluslararası Katılımlı 4. Organik Kimya Kongresi (OrgChemTR-4), 2018 - 2018
ÇAKICI M., DAŞTAN A., MENZEK A., GÖKSU S., MARAŞ A., ANIL B., KILIÇ H., KİSHALI N., BOZDEMİR Ö. A., KARA Y., et al, Project Supported by Higher Education Institutions, Nükleer Manyetik Rezonans (NMR) Cihazının Bakım ve Onarımı, 2018 - 2018
KARA Y., TÜBİTAK Project, Kinürenin ve Bazı β -Amino asit türevlerinin Asimetrik Sentezi, 2015 - 2016
KARA Y., Project Supported by Higher Education Institutions, YENİ NORKANTARİMİT VE İZOİNDOLİN-1,3-DİON TÜREVLERİNİN SENTEZİ, 2013 - 2014
KARA Y., KİSHALI N., Project Supported by Higher Education Institutions, ORGANİK KİMYA ARAŞTIRMA LABARATUARININ MODERNİZASYONU VE NORKANTARİMİT BENZERİ BİLEŞİKLERİN SENTEZİ., 2010 - 2011

Patent

KİSHALI N., KARA Y., Potansiyel Antikanser Etkili İsoindol-1,3-dion Türevi Yeni Bileşikler ve Bu Bileşiklerin Sentez Yöntemi, Patent, CHAPTER C Chemistry; Metallurgy, 2018

Scientific Refereeing

Project Supported by Other Official Institutions, Ataturk University, Turkey, November 2021
Project Supported by Other Official Institutions, Ataturk University, Turkey, November 2021
Project Supported by Other Official Institutions, Ataturk University, Turkey, November 2021
TÜBİTAK Project, 1002 - Quick Support Program, Ataturk University, Turkey, March 2021

Metrics

Publication: 93
Citation (WoS): 231
Citation (Scopus): 244
H-Index (WoS): 10
H-Index (Scopus): 10

Non Academic Experience

Atatürk Üniversitesi