

Prof. MEHMET YILMAZ

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Education Information

Doctorate, Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, Turkey 1999 - 2005

Post Graduate, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 1996 - 1999

Under Graduate, Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, Turkey 1990 - 1994

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Trifluor β-dikarbonil bileşiklerinin mangan (III) asetat aracılığıyla alkenlere radikalik katılma reaksiyonları, Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2005

Post Graduate, Halkalı (Beta) B-dikarbonil bileşiklerinin mangan (III) asetat ortamında alkenlerle radikalik halkalaşma reaksiyonları, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1999

Research Areas

Chemistry, Organic Chemistry, Chemistry of Heterocyclic Compounds, Organic Reaction Mechanisms, Organic Spectroscopy, Free Radicals, Natural Sciences

Academic Titles / Tasks

Professor, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2019 - Continues

Associate Professor, Kocaeli University, Kimya Bölümü, 2012 - 2019

Assistant Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2007 - 2012

Research Assistant, Ankara Üniversitesi, Fen Fakültesi, 1997 - 2005

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- Formation of cyclopropa[c]indole system in the Mn-mediated radical addition of cyclohexane-1,3-diones to N-substituted acrylamides**
Yılmaz M., Birincioğlu S., Ustalar Inal A.
Mendeleev Communications, vol.30, pp.785-787, 2020 (Journal Indexed in SCI)
- Synthesis, characterization, acetylcholinesterase inhibition, and molecular docking studies of new**

piperazine substituted dihydrofuran compounds

SARI S., YILMAZ M.

MEDICINAL CHEMISTRY RESEARCH, vol.29, no.10, pp.1804-1818, 2020 (Journal Indexed in SCI)

- III. **Synthesis and characterization of piperazine-substituted dihydrofuran derivatives via Mn(OAc)₃ mediated radical cyclizations**
SARI S., YILMAZ M.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.5, pp.1303-1332, 2020 (Journal Indexed in SCI)
- IV. **Regioselective radical addition of 3-oxopropanenitriles with terminal dienes promoted by cerium(IV) ammonium nitrate and manganese(III) acetate**
Hocaoglu B., YILMAZ M.
SYNTHETIC COMMUNICATIONS, vol.49, no.15, pp.1938-1946, 2019 (Journal Indexed in SCI)
- V. **Efficient syntheses and antimicrobial activities of new thiophene containing pyranone and quinolinone derivatives using manganese(III) acetate: the effect of thiophene on ring closure-opening reactions**
Ozgur M., YILMAZ M., Nishino H., Avar E. C., Dal H., Pekel A. T., HÖKELEK T.
NEW JOURNAL OF CHEMISTRY, vol.43, no.15, pp.5737-5751, 2019 (Journal Indexed in SCI)
- VI. **Synthesis and characterization of unsaturated diacyl and alkyl-acyl piperazine derivatives**
SARI S., Unalan S., YILMAZ M.
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.6, pp.1656-1710, 2019 (Journal Indexed in SCI)
- VII. **Synthesis, Characterization, and Fluorescence Studies of Novel Heterocyclic Azo Dyes Derived from Benzothiazole**
Sener N., Eriskin S., Sahin C., YILMAZ M., Sener I.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.54, no.6, pp.3510-3518, 2017 (Journal Indexed in SCI)
- VIII. **Microwave assisted synthesis of 2,3-dihydro-4H-benzo[4,5]thiazolo[3,2-a]furo[2,3-d]pyrimidin-4-ones and 6,7-dihydro-5H-furo[2,3-d]thiazolo [3,2-a]pyrimidin-5-ones using Mn(OAc)₃**
Ustalar A., YILMAZ M.
TETRAHEDRON LETTERS, vol.58, no.6, pp.516-519, 2017 (Journal Indexed in SCI)
- IX. **Synthesis and antifungal activity of new dihydrofurocoumarins and dihydrofuroquinolines**
USTALAR A., YILMAZ M., OSMANİ A., KEÇELİ S. A.
TURKISH JOURNAL OF CHEMISTRY, vol.41, no.1, pp.80-88, 2017 (Journal Indexed in SCI)
- X. **Regio- and diastereoselective synthesis of trans-dihydrofuran-3-carboxamides by radical addition of 1,3-dicarbonyl compounds to acrylamides using manganese(III) acetate and determination of exact configuration by X-ray crystallography**
YILMAZ M., Ustalar A., Uçan B., Pekel A. T.
Arkivoc, vol.2016, no.6, pp.79-91, 2016 (Journal Indexed in SCI Expanded)
- XI. **Synthesis of new 2,5-di(thiophen-2-yl)furan-3-carbonitrile derivatives and investigation of the electrochromic properties of homopolymers and co-polymers with EDOT**
Abaci U., USTALAR A., YILMAZ M., GÜNEY H. Y.
RSC ADVANCES, vol.6, no.33, pp.27836-27845, 2016 (Journal Indexed in SCI)
- XII. **Synthesis of 2-(2-phenylethenyl) substituted 4,5-dihydrofurans by regioselective addition of 1,3-dicarbonyl compounds to dienes promoted by cerium(IV) ammonium nitrate**
YILMAZ M., USTALAR A.
ARKIVOC, pp.202-213, 2016 (Journal Indexed in SCI)
- XIII. **Synthesis of 4,5-Dihydrofuran-3-carbonitrile Derivatives with Electron-Rich Alkenes in the Presence of Manganese(III) Acetate**
Yilmaz M., Burgaz E. V., Yakut M., BİÇER E.
JOURNAL OF THE CHINESE CHEMICAL SOCIETY, vol.61, pp.1101-1107, 2014 (Journal Indexed in SCI)
- XIV. **Synthesis of furan-substituted dihydrofuran compounds by radical-cyclization reactions mediated by manganese(III) acetate**
YILMAZ M., Biçer E., USTALAR A., Pekel A. T.
Arkivoc, vol.2014, no.5, pp.225-236, 2014 (Journal Indexed in SCI)

- XV. **Synthesis of dihydrofuro- and C-alkenylated naphthoquinones catalyzed by manganese(III) acetate**
Alagoz O., YILMAZ M., Pekel A. T. , GRAIFF C., MAGGI R.
RSC ADVANCES, vol.4, no.28, pp.14644-14654, 2014 (Journal Indexed in SCI)
- XVI. **Synthesis of trifluoromethylated dihydrofurans by addition of 1,3-dicarbonyl compounds to alkenes promoted by manganese(III) acetate**
BİÇER E., YILMAZ M.
Arkivoc, vol.2013, no.3, pp.304-316, 2013 (Journal Indexed in SCI)
- XVII. **Synthesis of Thienyl-Substituted Dihydrofuran Compounds Promoted by Manganese(III) Acetate**
BİÇER E., YILMAZ M., Burgaz E. V. , Pekel A. T.
HELVETICA CHIMICA ACTA, vol.96, no.1, pp.135-141, 2013 (Journal Indexed in SCI)
- XVIII. **Radical Cyclization Reactions via Manganese(III) Acetate Leading to 2-Thienyl-Substituted Dihydrofuran Compounds**
Bicer E., YILMAZ M., Karatas M., Pekel A. T.
HELVETICA CHIMICA ACTA, vol.95, no.5, pp.795-804, 2012 (Journal Indexed in SCI)
- XIX. **Radical Cyclization of Fluorinated 1,3-Dicarbonyl Compounds with Dienes Using Manganese(III) Acetate and Synthesis of Fluoroacylated 4,5-Dihydrofurans**
YILMAZ M., Yilmaz E. V. B. , Pekel A. T.
HELVETICA CHIMICA ACTA, vol.94, no.11, pp.2027-2038, 2011 (Journal Indexed in SCI)
- XX. **Synthesis of dihydrofurans containing trifluoromethyl ketone and heterocycles by radical cyclization of fluorinated 1,3-dicarbonyl compounds with 2-thienyl and 2-furyl substituted alkenes**
Yilmaz M.
TETRAHEDRON, vol.67, pp.8255-8263, 2011 (Journal Indexed in SCI)
- XXI. **Synthesis of fluoroacylated 4,5-dihydrofurans and fluoroalkylated tetrahydrofurans by the radical cyclization using manganese(III) acetate. Part II**
YILMAZ M., Pekel A. T.
JOURNAL OF FLUORINE CHEMISTRY, vol.132, no.9, pp.628-635, 2011 (Journal Indexed in SCI)
- XXII. **Studies on the radical cyclization of 3-oxopropanenitriles and alkenes with cerium(IV) ammonium nitrate in ether solvents**
YILMAZ M.
Helvetica Chimica Acta, vol.94, no.7, pp.1335-1342, 2011 (Journal Indexed in SCI)
- XXIII. **Radical cyclizations of conjugated esters and amides with 3-oxopropanenitriles mediated by manganese(III) acetate**
Yilmaz E. V. B. , YILMAZ M., Öktemer A.
Arkivoc, vol.2011, no.2, pp.363-376, 2011 (Journal Indexed in SCI)
- XXIV. **Synthesis and biological activity studies of furan derivatives**
Logoglu E., YILMAZ M., Katircioglu H., Yakut M., Mercan S.
MEDICINAL CHEMISTRY RESEARCH, vol.19, no.5, pp.490-497, 2010 (Journal Indexed in SCI)
- XXV. **Synthesis, Characterization and Theoretical Calculations of 5-Methoxyisatin-3-thiosemicarbazone Derivatives**
Kandemirli F., ARSLAN T., Koksoy B., YILMAZ M.
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.31, no.3, pp.498-504, 2009 (Journal Indexed in SCI)
- XXVI. **Oxidative cyclisation of 3-oxopropanenitriles mediated manganese(III) acetate with 2-thienyl substituted Alkenes**
YILMAZ M., UZUNALIOGLU N., YAKUT M., PEKEL A. T.
TURKISH JOURNAL OF CHEMISTRY, vol.32, no.4, pp.411-422, 2008 (Journal Indexed in SCI)
- XXVII. **Synthesis of 2,3-Dihydro-4H-furo[3,2-c] chromen-4-ones and 2,3-dihydronaphtho[2,3-b]furan-4,9-diones by the radical cyclizations of hydroxyenones with electron-rich alkenes using manganese(III) acetate**
YILMAZ M., Yakut M., Pekel A. T.
SYNTHETIC COMMUNICATIONS, vol.38, no.6, pp.914-927, 2008 (Journal Indexed in SCI)
- XXVIII. **Oxidative cyclization of 3-oxopropanenitriles with alpha,beta-unsaturated amides by manganese(III)**

- acetate. Regio- and stereoselective synthesis of 4-cyano-2,3-dihydrofuran-3-carboxamides**
Burgaz E. V., YILMAZ M., Pekel A. T., Oektemer A.
TETRAHEDRON, vol.63, no.30, pp.7229-7239, 2007 (Journal Indexed in SCI)
- XXIX. **Free radical cyclization of 1,3-dicarbonyl compounds mediated by manganese(III) acetate with alkynes and synthesis of tetrahydrobenzofurans, naphthalene, and trifluoroacetyl substituted aromatic compounds**
ALAGÖZ O., Yilmaz M., PEKEL A. T.
SYNTHETIC COMMUNICATIONS, vol.36, no.8, pp.1005-1013, 2006 (Journal Indexed in SCI)
- XXX. **Manganese(III) acetate based oxidative cyclizations of 3-oxopropanenitriles with conjugated alkenes and synthesis of 4,5-dihydrofuran-3-carbonitriles containing heterocycles**
Yilmaz M., UZUNALIOGLU N., PEKEL A. T.
TETRAHEDRON, vol.61, pp.8860-8867, 2005 (Journal Indexed in SCI)
- XXXI. **Manganese(III) acetate mediated synthesis of 3-trifluoroacetyl-4,5-dihydrofurans and 3-(dihydrofuran-2(3H)-ylidene)-1,1,1-trifluoroacetones by free radical cyclization. Part 1**
Yilmaz M., PEKEL A. T.
JOURNAL OF FLUORINE CHEMISTRY, vol.126, pp.401-406, 2005 (Journal Indexed in SCI)
- XXXII. **Manganese(III) acetate mediated free radical cyclization of 1,3-dicarbonyl compounds with sterically hindered olefins**
YILMAZ M., BİÇER E., PEKEL A. T.
TURKISH JOURNAL OF CHEMISTRY, vol.29, pp.579-587, 2005 (Journal Indexed in SCI)
- XXXIII. **Regioselective synthesis of 5-carbamoyl-dihydrofurans mediated manganese (III) acetate in acetic acid**
Yilmaz M., PEKEL A. T.
SYNTHETIC COMMUNICATIONS, vol.31, pp.2189-2194, 2001 (Journal Indexed in SCI)
- XXXIV. **Synthesis of benzofuran derivatives using manganese (III) acetate mediated addition of beta-dicarbonyl compounds to alkyne and alkenes - A comparative study**
Yilmaz M., PEKEL A. T.
SYNTHETIC COMMUNICATIONS, vol.31, pp.3871-3876, 2001 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **MANGANESE(III) ACETATE MEDIATED SYNTHESIS OF NEW ANGULAR AND LINEAR DIHYDROFUROQUINOLINONES**
Özgür M., Yılmaz M., Pekel A. T.
Communications, Series B: Chemistry and Chemical Engineering, vol.59, pp.1-11, 2017 (Journal Indexed in ESCI)
- II. **Synthesis characterization and theoretical calculations of 5 methoxyisatin 3 thiosemicarbazone derivatives Fatma Kandemirli**
KANDEMİRLİ F., ARSLAN T., KOKSOY B., YILMAZ M.
Journal Of The Chemical Society Of Pakistan, vol.31, pp.498-504, 2009 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **N-süstitüe Oksimlerin Sentezi ve Antioksidan Aktivitelerinin İncelenmesi**
KILIÇ N., SARI S., YILMAZ M.
32. ULUSAL KİMYA KONGRESİ, Turkey, 17 - 19 September 2020
- II. **AChE inhibition and molecular docking studies of new piperazine-dihydrofuran compounds**
SARI S., YILMAZ M.
3RD INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, 19 - 20 March 2020
- III. **1. Mn(OAc)₃ mediated synthesis of novel piperazine bearing dihydrofurans and investigation of**

their enzyme inhibition capabilities. Part 2.

Sarı S., Yılmaz M.

2nd International Conference on Applied Chemistry, Al-Ghardaqa, Egypt, 25 - 28 November 2017, pp.118-119

- IV. **Synthesis of New Furyl-substituted Dihydrofuran Compounds**
Özgür M., Alagöz O., Yılmaz M.
ANCON 2017, Ankara, Turkey, 5 - 07 October 2017, pp.175
- V. **Mn(OAc)₃ mediated synthesis of novel piperazine bearing dihydrofurans and investigation of their enzyme inhibition capabilities. Part 1.**
SARI S., YILMAZ M.
ANCON 2017, 5 - 07 October 2017
- VI. **Microwave Assisted Synthesis and Acetylcholine Esterase Inhibition of 6,7-Dihydro-5H-furo[2,3-d]thiazolo[3,2-a]pyrimidin-5-ones**
Ustalar A., YILMAZ M.
ANCON 2017, 5 - 07 October 2017
- VII. **Photopolymerization of a novel piperazine derivative**
Yeldir E. K. , ORAL A., YILMAZ M.
The international Joint Science congress of materials and polymers, 25 - 28 August 2017
- VIII. **Synthesis of pyrimido[2,1-b]benzothiazole compounds**
Ustalar A., YILMAZ M.
248th National Meeting of the American-Chemical-Society (ACS), San-Francisco, Costa Rica, 10 - 14 August 2014, vol.248
- IX. **Microwave assisted radical addition of 2-hydroxy-4H-pyrimido[2,1-b][1,3]benzothiazole-4-ones to conjugated alkenes by manganese(III) acetate**
Ustalar A., YILMAZ M.
248th National Meeting of the American-Chemical-Society (ACS), San-Francisco, Costa Rica, 10 - 14 August 2014, vol.248
- X. **Synthesis of 4-Phenyl-2,5-Di-Thiophene-2-Yl-4,5-Dihydrofuran-3-Carbonitrile and Investigation of Its Electrochromic Properties**
ABACI U., YILMAZ M., GÜNEY H. Y.
44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013

Supported Projects

YILMAZ M., Project Supported by Higher Education Institutions, DOYMAMIŞ C=C BAĞI İÇEREN DİAÇİL PİPERAZİN TÜREVLERİNİN SENTEZİ, KARAKTERİZASYONU VE ANTİOKSİDAN ÖZELLİKLERİNİN İNCELENMESİ, 2018 - 2019

YILMAZ M., Project Supported by Higher Education Institutions, ETİL 2, 4-DİOKSO-4-FENİL BÜTONOAT BİLEŞİKLERİNİN SENTEZİ VE YAPILARININ AYDINLATILMASI, 2018 - 2019

Dündar D., Yılmaz M., TUBİTAK Project, TÜBİTAK-116Z455 Doymamış Grup İçeren Yeni Piperazin Türevlerinin Sentezi, Mn(Oac)₃ Aracılığıyla 1,3-Dikarbonil Bileşikleriyle Halkalaşma Tepkimeleri Ve Elde Edilen Bileşiklerin Antibakteriyal Aktivitelerinin Araştırılması, 2017 - 2019

YILMAZ M., Project Supported by Higher Education Institutions, BAZI 1,3 -DİKARBONİL BİLEŞİKLERİNİN MANGAN (III) ASETAT ARACILIĞIYLA 1,1-DİFENİL ETİLEN VE TÜREVLERİYLE RADİKAL HALKALAŞMA REAKSİYONLARININ İNCELENMESİ, 2017 - 2018

YILMAZ M., Project Supported by Higher Education Institutions, 4-HİDROKSİ-PİRAN-2-ON BİLEŞİKLERİNİN MANGAN(III) ASETAT ARACILIĞIYLA -DOYMAMIŞ AMİT VE ESTERLERLE OKSİDATİF HALKALAŞMA REAKSİYONLARI, VE DİHİDROFURANLARIN ENZİM İNHİBİSYONLARININ İNCELENMESİ, 2016 - 2018

YILMAZ M., Project Supported by Higher Education Institutions, DİHİDROFURO-PİRİMİDO-BENZOTİYAZOL VE DİHİDROFURO-TİYAZOLO-PİRİMİDİN BİLEŞİKLERİNİN SENTEZİ VE ENZİM İNHİBİSYONLARININ İNCELENMESİ, 2016 - 2017

YILMAZ M., Project Supported by Higher Education Institutions, DİHİDROFURAN-KARBOKSİAMİTLERİN SENTEZİ VE

KARETERİZASYONLARININ YAPILMASI, 2015 - 2016

YILMAZ M., Project Supported by Higher Education Institutions, 1,3-Dikarbonil Bileşiklerinin Seryum(IV)amonyum Nitrat Aracılığıyla Konjuge Doymamış Sistemlere Radikalik Katılma Tepkimelerinin İncelenmesi, 2014 - 2016

YILMAZ M., Project Supported by Higher Education Institutions, ETİL TRİFLUORASETOASETATIN MANGAN (III) ASETAT ARACILIĞIYLA 1,1-DİFENİL ETİLEN VE TÜREVLERİYLE RADİKAL HALKALAŞMA REAKSİYONLERİNİN İNCELENMESİ, 2014 - 2015

YILMAZ M., TUBITAK Project, Dihidrofuro pirimido benzotiyazol ve Dihidrofuro tiyazolo pirimidin Bileşiklerinin Sentezi ve Antibakteriyal Aktivitelerinin İncelenmesi, 2013 - 2015

YILMAZ M., Project Supported by Higher Education Institutions, ?-Konjuge 3-Siyano-furan Bileşiklerinin Sentezi ve Elektrokromik Özelliklerinin İncelenmesi, 2012 - 2014

YILMAZ M., Project Supported by Higher Education Institutions, Oksopropannitrillerin Seryum (IV) Amonyum Nitrat Aracılığıyla Konjuge Dienlerle Radikalik Halkalaşma Tepkimeleri, 2010 - 2012

Citations

Total Citations (WOS):501

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