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Personal Information

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International Researcher IDs

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ScopusID: 6701563510

Yoksis Researcher ID: 6295

Education Information

Post Doctorate, Università Degli Studi di Firenze, Faculty Of Pharmacy , Chemistry, Italy 2018 - 2018

Post Doctorate, Università Degli Studi di Firenze, Chemistry, Medicinal Chemistry, Italy 2015 - 2015

Post Doctorate, University of Florida, Center Of Heterocyclic Chemistry, Heterocyclic Chemistry, United States Of America 2012 - 2012

Post Doctorate, Université Rennes I, Organometallics, Chemistry, France 1995 - 1995

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Organik Kimya, Turkey 1988 - 1993

Doctorate, University of Sussex, School Of Chemistry And Molecular Sciences, Chemistry, United Kingdom 1991 - 1992

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Organik Kimya, Turkey 1985 - 1988

Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Kimya Mühendisliği, Turkey 1981 - 1985

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Tetraaminoalkenler (Elektronca-Zengin Olefinler), Inonu University, Fen-Bilimleri Enstitüsü, Kimya/Organik Kimya, 1993

Postgraduate, Elektronca zengin olefinler ve tepkimeleri, Inonu University, Fen-Bilimleri Enstitüsü, Kimya/Organik Kimya, 1988

Research Areas

Chemistry, Organic Chemistry, Chemistry of Heterocyclic Compounds, Organometallics, Natural Sciences

Academic Titles / Tasks

Professor, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 2003 - Continues

Associate Professor, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 1997 - 2003

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 1995 - 1997

Academic and Administrative Experience

Head of Department, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 2019 - 2024

Inonu University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2007 - 2010

Inonu University, Sürgü Su Ürünleri Meslek Yüksekokulu, 2004 - 2008

Inonu University, Bilimsel Ve Teknolojik Araştırma Merkezi , 2004 - 2008

Inonu University, 2003 - 2008

Inonu University, 2003 - 2008

Inonu University, Fen-Edebiyat Fakültesi, 2001 - 2003

Inonu University, Fen-Edebiyat Fakültesi, 2000 - 2003

Courses

Organik KimyaII, Undergraduate, 2013-2014

Heterosiklik Bileşikler, Undergraduate Minor, 2013-2014

Bitirme Çalışması, Undergraduate, 2013-2014

Organik tepkime mekanizmaları, Undergraduate Double Major, 2013-2014

Organik sentezlerde organometaller, Undergraduate Double Major, 2013-2014

Heterosiklik Kimya, Undergraduate, 2013-2014

Organic Chemistry I, Undergraduate, 2013-2014

Organik Kimya I, Undergraduate, 2013-2014

Organic Chemistry II, Undergraduate, 2013-2014

İlaç Kimyası, Undergraduate, 2013-2014

Organik sentez mekanizmaları, Undergraduate Double Major, 2012-2013

General Chemistry Laboratory, Undergraduate, 2012-2013

Bitirme Çalışması, Undergraduate, 2012-2013

Heterosiklik Kimya, Undergraduate, 2012-2013

İlaç Kimyası, Undergraduate, 2012-2013

Aromatik Bileşikler, Undergraduate Minor, 2012-2013

Mesleki İngilizce, Undergraduate, 2012-2013

Heterosiklik Bileşikler, Undergraduate Minor, 2012-2013

Sterokimya, Undergraduate Minor, 2012-2013

Organik Kimyada Yapı ve Reaktivite, Undergraduate Minor, 2012-2013

Organik Spektroskopisi, Undergraduate Double Major, 2012-2013

Organik KimyaII, Undergraduate, 2012-2013

İlaç Kimyası, Undergraduate, 2011-2012

Genel Kimya Laboratuvarı, Undergraduate, 2011-2012

Organik tepkime mekanizmaları, Undergraduate Double Major, 2011-2012

NMR II, Undergraduate Minor, 2011-2012

Organik Kimya Laboratuvarı, Undergraduate, 2011-2012

NMR I, Undergraduate Minor, 2011-2012

Organik Kimyada Kondenzasyon, Undergraduate Double Major, 2011-2012

Heterosiklik Bileşikler, Undergraduate Minor, 2011-2012

Heterosiklik Kimya, Undergraduate, 2011-2012

Organik Kimya III, Undergraduate, 2011-2012

Organik Kimya I, Undergraduate, 2011-2012

Bitirme Çalışması, Undergraduate, 2011-2012
Organik KimyaII, Undergraduate, 2011-2012
Bitirme Çalışması, Undergraduate, 2010-2011
Organik sentez mekanizmaları, Undergraduate Double Major, 2010-2011
Organik Spektroskopi, Undergraduate Double Major, 2010-2011
İlaç Kimyası, Undergraduate, 2010-2011
Heterosiklik Kimya, Undergraduate, 2010-2011
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Asetilen Kimyası, Undergraduate Double Major, 2009-2010
Genel Kimya II, Undergraduate, 2009-2010
Sterokimya, Undergraduate Minor, 2009-2010
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Bitirme Çalışması, Undergraduate, 2008-2009
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Asetilen Kimyası, Undergraduate Double Major, 2008-2009
Genel Kimya Laboratuvarı, Undergraduate, 2007-2008
Organik sentez mekanizmaları, Undergraduate Double Major, 2007-2008
Genel Kimya II, Undergraduate, 2007-2008
Organik tepkime mekanizmaları, Undergraduate Double Major, 2007-2008
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Organik Kimya I, Undergraduate, 2000-2001

Advising Theses

KÜÇÜKBAY H., Benzimidazol İskeletli, Pd-NHC İçeren Kataliz Sisteminin Sonogashira Tepkimelerindeki Katalitik Özelliklerinin İncelenmesi, Doctorate, K.Yavuz(Student), 2015
KÜÇÜKBAY H., Amino Asit Grupları Taşıyan Bazı Benzimidazol Türevlerinin Sentezi, Postgraduate, N.Buğday(Student), 2015
KÜÇÜKBAY H., Bazı Benzimidazol Türevlerinin pKa Değerlerinin Belirlenmesi, Doctorate, A.Mumcu(Student), 2014
KÜÇÜKBAY H., Bazı Bis-benzimidazollerin Katalitik Özelliklerinin Araştırılması, Postgraduate, H.Hamamcı(Student), 2011
KÜÇÜKBAY H., Bazı Benzimidazol Türevlerinin Katalitik Özelliklerinin İncelenmesi, Doctorate, S.Deniz(Student), 2009
KÜÇÜKBAY H., Benzimidazollerden yeni elektronca zengin olefinlerin sentezi ve özelliklerinin incelenmesi, Doctorate, Ü.Yılmaz(Student), 2008
KÜÇÜKBAY H., Bazı Benzimidazol ve İlgili Bileşiklerin Metal Komplekslerinin Sentezi ve Katalitik Özelliklerinin İncelenmesi, Postgraduate, D.İşık(Student), 2004
KÜÇÜKBAY H., Bazı Ftalosiyanın Türevlerinin Sentezi ve Özelliklerinin İncelenmesi, Postgraduate, Ü.Yılmaz(Student), 2003
KÜÇÜKBAY H., Bazı Bisbenzimidazol Türevlerinin Sentezi ve Özelliklerinin İncelenmesi, Postgraduate, N.Okuyucu(Student), 2002
KÜÇÜKBAY H., Benzimidazolidin Çekirdeği İçeren Elektronca Zengin Olefinlerin Sentez ve Özellikleri, Postgraduate, E.Orhan(Student), 2001
KÜÇÜKBAY H., Benzimidazol Türevlerinin Sentezi ve Özelliklerinin İncelenmesi, Postgraduate, M.Güven(Student), 2000

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis, Cytotoxicity, Antioxidant Activity, DFT Calculations, and Docking Studies of New Pyridine-Malonate Derivatives as Potential Anticancer Agents**
Kadi I., Şekerci G., Boulebd H., Zebbiche Z., Tekin S., Küçükbay F., Gönül Z., Küçükbay H., Boumoud T.
POLYCYCLIC AROMATIC COMPOUNDS, vol.1010801040663820232281468, pp.1-15, 2023 (SCI-Expanded)
- II. **Ruthenium, rhodium and iridium complexes of a silyl-substituted N-heterocyclic carbene ligand and their catalytic performance in hydrosilylation of terminal alkynes**
Mumcu A., Karataş M. O., Özdemir N., Erdoğan A., Küçükbay H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.997, pp.122791, 2023 (SCI-Expanded)
- III. **Cytotoxic potential of silver, palladium, rhodium, ruthenium, and iridium complexes of a cycloheptyl-substituted lipophilic N-heterocyclic carbene ligand**
Karataş M. O., Şekerci G., Tekin S., Sandal S., Küçükbay H.

JOURNAL OF COORDINATION CHEMISTRY, vol.76, pp.1-11, 2023 (SCI-Expanded)

- IV. **Synthesis, experimental and theoretical characterization of an unsymmetrical bis-benzimidazolium nitrate salt**
ÖZDEMİR N., KARATAŞ M. O., KÜÇÜKBAY H.
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.758, no.1, pp.25-35, 2023 (SCI-Expanded)
- V. **Antioxidant and cytotoxic properties of some new dipeptide-indole conjugates**
Gonul Z., Ozturk D. A., KÜÇÜKBAY F., TEKİN S., Tekin Z., KÜÇÜKBAY H.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.60, no.1, pp.86-95, 2023 (SCI-Expanded)
- VI. **Synthesis, in vitro, and in silico studies of novel poly-heterocyclic compounds bearing pyridine and furan moieties as potential anticancer agents**
Kadi I., Sekerci G., Boulebd H., Zebbiche Z., TEKİN S., KÜÇÜKBAY H., KÜÇÜKBAY F., Boumoud T.
JOURNAL OF MOLECULAR STRUCTURE, vol.1271, 2023 (SCI-Expanded)
- VII. **Silyl-functionalised silver rhodium and iridium N-heterocyclic carbene complexes with promising cytotoxicity and antimicrobial potential**
KARATAŞ M. O., Keskin T., ÖZDEMİR N., KÜÇÜKBAY H., TEKİN S., Mansur A., GÜNAL S., SANDAL S.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.146, 2022 (SCI-Expanded)
- VIII. **Evaluation, synthesis and structural properties of stable bisbenzimidazolium tetrafluoroborates derived from unstable benzo-tetraazafulvalene**
Yılmaz Ü., Küçükbay H.
ARKIVOC, no.iX, pp.176-185, 2022 (SCI-Expanded)
- IX. **Preparation, DFT calculations, docking studies, antioxidant, and anticancer properties of new pyrazole and pyridine derivatives**
Zebbiche Z., Sekerci G., Boulebd H., KÜÇÜKBAY F., TEKİN S., Tekin Z., KÜÇÜKBAY H., SANDAL S., Boumoud B.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.36, no.9, 2022 (SCI-Expanded)
- X. **Synthesis a group of 5(6)-substituted benzimidazole Zn(II) and Co(II) complexes and investigation their cytotoxic and antimicrobial activities**
Yılmaz U., APOHAN E., KÜÇÜKBAY H., YILMAZ Ö., Tatlici E.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.59, no.7, pp.1241-1246, 2022 (SCI-Expanded)
- XI. **Moringa oleifera leaves: could solvent and extraction method affect phenolic composition and bioactivities?**
Bennour N., Mighri H., Bouhamda T., Mabrouk M., APOHAN E., YEŞİLADA Ö., KÜÇÜKBAY H., Akrouf A.
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.51, no.10, pp.1018-1025, 2021 (SCI-Expanded)
- XII. **Synthesis of new 7-amino-3,4-dihydroquinolin-2(1H)-one-peptide derivatives and their carbonic anhydrase enzyme inhibition, antioxidant, and cytotoxic activities**
KÜÇÜKBAY H., Gonul Z., KÜÇÜKBAY F., Tekin Z., Angeli A., Bartolucci G., Supuran C. T., Tatlici E., APOHAN E., YEŞİLADA Ö.
ARCHIV DER PHARMAZIE, vol.354, no.11, 2021 (SCI-Expanded)
- XIII. **Cytotoxic and antimicrobial potential of benzimidazole derivatives**
KÜÇÜKBAY H., Uckun M., APOHAN E., YEŞİLADA Ö.
ARCHIV DER PHARMAZIE, vol.354, no.8, 2021 (SCI-Expanded)
- XIV. **Synthesis and anticancer properties of novel hydrazone derivatives incorporating pyridine and isatin moieties**
Zebbiche Z., TEKİN S., KÜÇÜKBAY H., Yuksel F., Boumoud B.
ARCHIV DER PHARMAZIE, vol.354, no.5, 2021 (SCI-Expanded)
- XV. **Effects of new NHC derivatives as ligands in the Suzuki-Miyaura reaction**
Yılmaz U., KÜÇÜKBAY H.
SYNTHETIC COMMUNICATIONS, vol.51, no.8, pp.1184-1196, 2021 (SCI-Expanded)
- XVI. **Synthesis and spectral characterization of new benzimidazolium compounds containing sulfur**
Yılmaz U., KÜÇÜKBAY H.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.195, no.7, pp.580-585, 2020 (SCI-Expanded)

- XVII. **Preparation, carbonic anhydrase enzyme inhibition and antioxidant activity of novel 7-amino-3,4-dihydroquinolin-2(1H)-one derivatives incorporating mono or dipeptide moiety**
KÜÇÜKBAY H., GÖNÜL Z., KÜÇÜKBAY F., Angeli A., Bartolucci G., SUPURAN C. T.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.35, no.1, pp.1021-1026, 2020 (SCI-Expanded)
- XVIII. **Synthesis and evaluation of anticancer properties of novel benzimidazole ligand and their cobalt(II) and zinc(II) complexes against cancer cell lines A-2780 and DU-145**
Yilmaz U., TEKİN S., Bugday N., Yavuz K., KÜÇÜKBAY H., Sandal S.
INORGANICA CHIMICA ACTA, vol.495, 2019 (SCI-Expanded)
- XIX. **Synthesis and evaluation of anticancer properties of novel benzimidazole ligand and their cobalt (II) and Zinc (II) complexes against cancer cell lines A-2780 and DU-145**
YILMAZ Ü., TEKİN S., Bugday N., Yavuz K., KÜÇÜKBAY H., SANDAL S.
INORGANICA CHIMICA ACTA, vol.495, no.118977, pp.1-7, 2019 (SCI-Expanded)
- XX. **Synthesis and carbonic anhydrase inhibitory properties of novel 4-(2-aminoethyl)benzenesulfonamide-dipeptide conjugates**
KÜÇÜKBAY H., Bugday N., Kucukbay F. Z., Berrino E., Bartolucci G., Del Prete S., Capasso C., Supuran C. T.
BIOORGANIC CHEMISTRY, vol.83, pp.414-423, 2019 (SCI-Expanded)
- XXI. **Synthesis carbonic anhydrase enzyme inhibition and antioxidant activity of novel benzothiazole derivatives incorporating glycine, methionine, alanine, and phenylalanine moieties**
Payaz D. U., Kucukbay F. Z., KÜÇÜKBAY H., Angeli A., Supuran C. T.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.34, no.1, pp.343-349, 2019 (SCI-Expanded)
- XXII. **Synthesis of novel dipeptide sulfonamide conjugates with effective carbonic anhydrase I, II, IX, and XII inhibitory properties**
Bugday N., Kucukbay F. Z., KÜÇÜKBAY H., Bua S., Bartolucci G., Leitans J., Kazaks A., Tars K., Supuran C. T.
BIOORGANIC CHEMISTRY, vol.81, pp.311-318, 2018 (SCI-Expanded)
- XXIII. **Efficient and green catalytic system incorporating new benzimidazolium salts for the Sonogashira cross-coupling reaction**
Yavuz K., KÜÇÜKBAY H.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.32, no.1, 2018 (SCI-Expanded)
- XXIV. **The catalytic effects of in situ prepared N-heterocyclic carbenes from benzimidazole salts in Suzuki-Miyaura cross-coupling reaction and uses in catalytic preparation of 1,3,5-triphenyl-1,3,5-triazinane-2,4,6-trione from phenyl isocyanate**
Yilmaz U., KÜÇÜKBAY H.
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.6, pp.1706-1736, 2018 (SCI-Expanded)
- XXV. **Synthesis, cytotoxic and antimicrobial activities of novel cobalt and zinc complexes of benzimidazole derivatives**
APOHAN E., Yilmaz U., Yilmaz O., SERINDAG A., KÜÇÜKBAY H., YEŞİLADA Ö., Baran Y.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.828, pp.52-58, 2017 (SCI-Expanded)
- XXVI. **Synthesis and Evaluation of Novel Benzimidazole Conjugates Incorporating Amino Acids and Dipeptide Moieties**
Bugday N., Kucukbay F., APOHAN E., KÜÇÜKBAY H., Serindag A., YEŞİLADA Ö.
LETTERS IN ORGANIC CHEMISTRY, vol.14, no.3, pp.198-206, 2017 (SCI-Expanded)
- XXVII. **Synthesis and characterization of novel phosphoramidates containing benzimidazole moiety**
Yilmaz U., KÜÇÜKBAY H.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.191, no.1, pp.140-143, 2016 (SCI-Expanded)
- XXVIII. **Synthesis and carbonic anhydrase I, II, IV and XII inhibitory properties of N-protected amino acid - sulfonamide conjugates**
KÜÇÜKBAY F., Kucukbay H., TANC M., SUPURAN C. T.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.6, pp.1476-1483, 2016 (SCI-Expanded)

- XXIX. **Synthesis and evaluation of novel N, N'-disubstituted benzimidazolium bromides salts as antitumor agents**
KÜÇÜKBAY H., MUMCU A., TEKİN S., SANDAL S.
TURKISH JOURNAL OF CHEMISTRY, vol.40, no.3, pp.393-414, 2016 (SCI-Expanded)
- XXX. **Synthesis and carbonic anhydrase inhibitory properties of amino acid - coumarin/quinolinone conjugates incorporating glycine, alanine and phenylalanine moieties**
KÜÇÜKBAY F., KUCUKBAY H., TANC M., SUPURAN C. T.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.6, pp.1198-1202, 2016 (SCI-Expanded)
- XXXI. **Synthesis, characterization and carbonic anhydrase inhibitory activity of novel benzothiazole derivatives**
KÜÇÜKBAY F., BUGDAY N., KUCUKBAY H., TANC M., SUPURAN C. T.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.6, pp.1221-1225, 2016 (SCI-Expanded)
- XXXII. **Determination of pK(a) values of some novel benzimidazole salts by using a new approach with H-1 NMR spectroscopy**
MUMCU A., KÜÇÜKBAY H.
MAGNETIC RESONANCE IN CHEMISTRY, vol.53, no.12, pp.1024-1030, 2015 (SCI-Expanded)
- XXXIII. **Concentration effects of some new benzimidazole derivatives on Human Breast Cancer Cell Viability**
TEKİN S., MUMCU A., KÜÇÜKBAY H., SANDAL S.
ACTA PHYSIOLOGICA, vol.215, pp.135, 2015 (SCI-Expanded)
- XXXIV. **Benzimidazole based a new therapeutic agent effective on ovarian cancer cells**
TEKİN S., MUMCU A., KÜÇÜKBAY H., SANDAL S.
ACTA PHYSIOLOGICA, vol.215, pp.134, 2015 (SCI-Expanded)
- XXXV. **Synthesis, characterization, and microwave-assisted catalytic activity in Heck, Suzuki, Sonogashira, and Buchwald-Hartwig cross-coupling reactions of novel benzimidazole salts bearing N-phthalimidoethyl and benzyl moieties**
KÜÇÜKBAY H., YILMAZ U., YAVUZ K., BUGDAY N.
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.6, pp.1265-1290, 2015 (SCI-Expanded)
- XXXVI. **Synthesis and characterization of substituted benzimidazole Co(II), Fe(II), and Zn(II) complexes and structural characterization of dichlorobis{1-[2-(1-piperidinyl)ethyl]-1H-benzimidazole-(K) N-3} zinc(II)**
KÜÇÜKBAY H., YILMAZ U., AKKURT M., BUYUKGUNGOR O.
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.1, pp.108-120, 2015 (SCI-Expanded)
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Citation (Scopus): 2003

H-Index (WoS): 23

H-Index (Scopus): 24

Congress and Symposium Activities

Uluslararası Katılımlı VIII. Polimer Bilim ve Teknoloji Kongresi, Invited Speaker, Malatya, Turkey, 2022

ICASMI-the 3rd International Conference on Applied Science, Mathematics and Informatio, Invited Speaker, Bandar Lampung, Indonesia, 2020

EASTWEST Chemistry Confrence, Skopje Mecadonia, 2017, Attendee, Skopje, Macedonia, 2017

2nd International BAU Drug Design Congress, Invited Speaker, İstanbul, Turkey, 2014

I. Ulusal Organik Kimya Kongresi, Invited Speaker, Sakarya, Turkey, 2013

Awards

KÜÇÜKBAY H., 1985 Yılı Kimya Mühendisliği Programı Bölüm Birinciliği, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, June 1985

Non Academic Experience

Non-profit Organisation, Editor-In-Chief, Journal Of The Turkish Chemical Society Section A: Chemistry, Kimya

Non-profit Organisation, Türkiye Kimya Derneği

University of Florence

Univesity of Florence

University of Florida, The Center of Heterocyclic Compounds

RWTH Aachen

State Economic Enterprise SEE, İnönü Üniversitesi Vakfi

University of Crete

University of Rennes1

University of Sussex