

## Prof. HASAN KÜÇÜKBAY

### Personal Information

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### International Researcher IDs

ScholarID: kshfjNAAAAAJ

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Publons / Web Of Science ResearcherID: A-5050-2019

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

### Undergraduate

Organik KimyaII, Undergraduate, 2013-2014  
Bitirme Çalışması, Undergraduate, 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  
General Chemistry Laboratory, Undergraduate, 2012-2013  
Bitirme Çalışması, Undergraduate, 2012-2013  
Heterosiklik Kimya, Undergraduate, 2012-2013  
İlaç Kimyası, Undergraduate, 2012-2013  
Mesleki İngilizce, Undergraduate, 2012-2013  
Organik KimyaII, Undergraduate, 2012-2013  
İlaç Kimyası, Undergraduate, 2011-2012  
Genel Kimya Laboratuvarı, Undergraduate, 2011-2012  
Organik Kimya Laboratuvarı, Undergraduate, 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  
İlaç Kimyası, Undergraduate, 2010-2011  
Heterosiklik Kimya, Undergraduate, 2010-2011  
Organik KimyaII, Undergraduate, 2010-2011  
İlaç Kimyası, Undergraduate, 2009-2010  
Genel Kimya Laboratuvarı, Undergraduate, 2009-2010  
Organik Kimya Laboratuvarı, Undergraduate, 2009-2010  
Heterosiklik Kimya, Undergraduate, 2009-2010  
Bitirme Çalışması, Undergraduate, 2009-2010  
Organik Kimya I, Undergraduate, 2009-2010

Genel Kimya II, Undergraduate, 2009-2010  
Organik KimyaII, Undergraduate, 2009-2010  
Genel Kimya I, Undergraduate, 2009-2010  
Organik KimyaII, Undergraduate, 2008-2009  
Heterosiklik Kimya, Undergraduate, 2008-2009  
Organik Kimya III, Undergraduate, 2008-2009  
Bitirme Çalışması, Undergraduate, 2008-2009  
Organik Kimya I, Undergraduate, 2008-2009  
İlaç Kimyası, Undergraduate, 2008-2009  
Genel Kimya Laboratuvarı, Undergraduate, 2007-2008  
Genel Kimya II, Undergraduate, 2007-2008  
Organik Kimya III, Undergraduate, 2007-2008  
Heterosiklik Kimya, Undergraduate, 2007-2008  
Organik Kimya Laboratuvarı, Undergraduate, 2007-2008  
Organik KimyaII, Undergraduate, 2007-2008  
İlaç Kimyası, Undergraduate, 2007-2008  
Bitirme Çalışması, Undergraduate, 2007-2008  
Heterosiklik Kimya, Undergraduate, 2006-2007  
Bitirme Çalışması, Undergraduate, 2006-2007  
Genel Kimya I, Undergraduate, 2006-2007  
Organik Kimya I, Undergraduate, 2006-2007  
İlaç Kimyası, Undergraduate, 2006-2007  
İlaç Kimyası, Undergraduate, 2005-2006  
Organik Kimya III, Undergraduate, 2005-2006  
Heterosiklik Kimya, Undergraduate, 2005-2006  
Genel Kimya I, Undergraduate, 2005-2006  
Genel Kimya Laboratuvarı, Undergraduate, 2005-2006  
Organik Kimya Laboratuvarı, Undergraduate, 2005-2006  
Bitirme Çalışması, Undergraduate, 2005-2006  
Genel Kimya II, Undergraduate, 2005-2006  
İlaç Kimyası, Undergraduate, 2004-2005  
Organik Kimya Laboratuvarı, Undergraduate, 2004-2005  
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Heterosiklik Kimya, Undergraduate, 2004-2005  
Genel Kimya II, Undergraduate, 2004-2005  
Organik Kimya III, Undergraduate, 2004-2005  
Bitirme Çalışması, Undergraduate, 2004-2005  
Organik Kimya I, Undergraduate, 2004-2005  
Genel Kimya II, Undergraduate, 2003-2004  
Bitirme Çalışması, Undergraduate, 2003-2004  
Genel Kimya Laboratuvarı, Undergraduate, 2003-2004  
Heterosiklik Kimya, Undergraduate, 2003-2004  
İlaç Kimyası, Undergraduate, 2003-2004  
Organik Kimya III, Undergraduate, 2003-2004  
Genel Kimya I, Undergraduate, 2003-2004  
Genel Kimya Laboratuvarı, Undergraduate, 2002-2003  
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Genel Kimya II, Undergraduate, 2001-2002

Organik KimyaII, Undergraduate, 2001-2002

İlaç Kimyası, Undergraduate, 2001-2002

Genel Kimya Laboratuvarı, Undergraduate, 2001-2002

Organik Kimya Laboratuvarı, Undergraduate, 2001-2002

Organik Kimya III, Undergraduate, 2001-2002

Bitirme Çalışması, Undergraduate, 2001-2002

Organik Kimya I, Undergraduate, 2001-2002

Heterosiklik Kimya, Undergraduate, 2001-2002

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Organik KimyaII, Undergraduate, 2000-2001

İlaç Kimyası, Undergraduate, 2000-2001

Heterosiklik Kimya, Undergraduate, 2000-2001

Bitirme Çalışması, Undergraduate, 2000-2001

Organik Kimya I, Undergraduate, 2000-2001

Organik Kimya I, Undergraduate, 2000-2001

#### **Undergraduate Minor**

Heterosiklik Bileşikler, Undergraduate Minor, 2013-2014

Aromatik Bileşikler, Undergraduate Minor, 2012-2013

Heterosiklik Bileşikler, Undergraduate Minor, 2012-2013

Sterokimya, Undergraduate Minor, 2012-2013

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

NMR II, Undergraduate Minor, 2011-2012

NMR I, Undergraduate Minor, 2011-2012

Heterosiklik Bileşikler, Undergraduate Minor, 2011-2012

Organik Kimyada Yapı ve Reaktivite, Undergraduate Minor, 2010-2011

NMR II, Undergraduate Minor, 2010-2011

Sterokimya, Undergraduate Minor, 2009-2010

Aromatik Bileşikler, Undergraduate Minor, 2009-2010

Heterosiklik Bileşikler, Undergraduate Minor, 2009-2010

NMR II, Undergraduate Minor, 2008-2009

NMR I, Undergraduate Minor, 2008-2009

Aromatik Bileşikler, Undergraduate Minor, 2007-2008

Organik Kimyada Yapı ve Reaktivite, Undergraduate Minor, 2007-2008

NMR II, Undergraduate Minor, 2006-2007

Sterokimya, Undergraduate Minor, 2006-2007

Organik Kimyada Yapı ve Reaktivite, Undergraduate Minor, 2005-2006

Aromatik Bileşikler, Undergraduate Minor, 2005-2006

Heterosiklik Bileşikler, Undergraduate Minor, 2005-2006

Sterokimya, Undergraduate Minor, 2004-2005

Organik Kimyada Yapı ve Reaktivite, Undergraduate Minor, 2003-2004

Aromatik Bileşikler, Undergraduate Minor, 2003-2004

Heterosiklik Bileşikler, Undergraduate Minor, 2003-2004

Sterokimya, Undergraduate Minor, 2001-2002

#### **Undergraduate Double Major**

Organik tepkime mekanizmaları, Undergraduate Double Major, 2013-2014

Organik sentezlerde organometaller, Undergraduate Double Major, 2013-2014

Organik sentez mekanizmaları, Undergraduate Double Major, 2012-2013

Organik Spektroskopi, Undergraduate Double Major, 2012-2013

Organik tepkime mekanizmaları, Undergraduate Double Major, 2011-2012

Organik Kimyada Kondenzasyon, Undergraduate Double Major, 2011-2012  
Organik sentez mekanizmaları, Undergraduate Double Major, 2010-2011  
Organik Spektroskopi, Undergraduate Double Major, 2010-2011  
Asetilen Kimyası, Undergraduate Double Major, 2009-2010  
Organik Kimyada Kondenzasyon, Undergraduate Double Major, 2009-2010  
Organik sentezlerde organometaller, Undergraduate Double Major, 2009-2010  
Asetilen Kimyası, Undergraduate Double Major, 2008-2009  
Organik sentez mekanizmaları, Undergraduate Double Major, 2007-2008  
Organik tepkime mekanizmaları, Undergraduate Double Major, 2007-2008  
Organik Spektroskopi, Undergraduate Double Major, 2007-2008  
Organik sentezlerde organometaller, Undergraduate Double Major, 2006-2007  
Organik Spektroskopi, Undergraduate Double Major, 2006-2007  
Asetilen Kimyası, Undergraduate Double Major, 2005-2006  
Organik tepkime mekanizmaları, Undergraduate Double Major, 2005-2006  
Organik Spektroskopi, Undergraduate Double Major, 2004-2005  
Asetilen Kimyası, Undergraduate Double Major, 2002-2003  
Organik Spektroskopi, Undergraduate Double Major, 2002-2003  
Asetilen Kimyası, Undergraduate Double Major, 2000-2001

## Supervised 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

- Synthesis of imidazole-fused pentacyclic pyrrolo[3,4-c]coumarins via base-promoted rearrangement of coumarin-substituted N-heterocyclic carbene precursors**  
Karataş M. O., Özdemir N., Küçükbay H.  
NEW JOURNAL OF CHEMISTRY, vol.48, no.38, pp.16676-16682, 2024 (SCI-Expanded)
- 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)

- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **Evaluation, synthesis and structural properties of stable bisbenzimidazolium tetrafluoroborates derived from unstable benzotetraazafulvalene**  
Yılmaz Ü., Küçükbay H.  
ARKIVOC, no.iX, pp.176-185, 2022 (SCI-Expanded)
- X. **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)
- XI. **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)
- 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. **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., Akrouit A.  
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.51, no.10, pp.1018-1025, 2021 (SCI-Expanded)
- XIV. **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)
- XV. **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)

- XVI. **Effects of new NHC derivatives as ligands in the Suzuki-Miyaura reaction**  
Yilmaz U., KÜÇÜKBAY H.  
SYNTHETIC COMMUNICATIONS, vol.51, no.8, pp.1184-1196, 2021 (SCI-Expanded)
- XVII. **Synthesis and spectral characterization of new benzimidazolium compounds containing sulfur**  
Yilmaz U., KÜÇÜKBAY H.  
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.195, no.7, pp.580-585, 2020 (SCI-Expanded)
- XVIII. **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)
- 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 U., TEKİN S., Bugday N., Yavuz K., KÜÇÜKBAY H., Sandal S.  
INORGANICA CHIMICA ACTA, vol.495, 2019 (SCI-Expanded)
- XX. **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., Buğday N., Yavuz K., KÜÇÜKBAY H., SANDAL S.  
INORGANICA CHIMICA ACTA, vol.495, no.118977, pp.1-7, 2019 (SCI-Expanded)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- 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. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- 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. **Concentration effects of some new benzimidazole derivatives on Human Breast Cancer Cell Viability**  
TEKİN S., MUMCU A., KÜÇÜKBAY H., SANDAL S.  
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## Supported Projects

KÜÇÜKBAY H., ÇABUK M. A., Project Supported by Higher Education Institutions, Silisyum İçeren Bir NHeterosiklik Karben Ligandının Gümüş Rutenyum ve Paladyum Komplekslerinin Sentezi ve Karakterizasyonu, 2022 - 2023

KÜÇÜKBAY H., AKKAR Ş., Project Supported by Higher Education Institutions, İndol peptit Türevleri Sentezi, 2021 - 2023

APOHAN E., KATRANCIOĞLU Ö., BARAN Y., PARLAKPINAR H., YEŞİLADA Ö., KÜÇÜKBAY H., YILMAZ Ü., GÜL M., Project Supported by Higher Education Institutions, Ortotopik Ksenograft Yöntemiyle Akciğer Kanseri Oluşturulmuş Nude Farelerde Yeni Benzimidazol Çinko Kompleks Bileşiklerinin Sitotoksik Etkisinin Araştırılması, 2021 - 2022

KÜÇÜKBAY H., YILDIRIM N., Project Supported by Higher Education Institutions, Amino asit içeren yeni indol türevleri sentezi, 2019 - 2021

APOHAN E., KATRANCIOĞLU Ö., KÜÇÜKBAY H., PARLAKPINAR H., BARAN Y., YEŞİLADA Ö., GÜL M., YILMAZ Ü., Project Supported by Higher Education Institutions, Yeni Benzimidazol Metal Kompleks Bileşiklerinin Akciğer Kanserinin Peritoneal İmplantasyonu Üzerine Olan Sitotoksik Etkisi İn vivo Deneysel Çalışma, 2018 - 2021

KÜÇÜKBAY H., PARLADI F. M., Project Supported by Higher Education Institutions, Antrakinin Türevlerinin Sentezi ve Özelliklerinin İncelenmesi, 2019 - 2020

KÜÇÜKBAY H., GÖNÜL Z., Project Supported by Higher Education Institutions, Amino Asit İçeren Kinolinon Türevlerinin Sentezi ve Özelliklerinin İncelenmesi, 2018 - 2020

KÜÇÜKBAY H., KÜÇÜKBAY F., BUĞDAY N., Project Supported by Higher Education Institutions, Dipeptit içeren yeni sülfonamid türevleri sentezi ve karbonik anhidraz III IV ve XII enzim inhibisyon ve antioksidan özelliklerinin belirlenmesi, 2018 - 2020

KÜÇÜKBAY H., BUĞDAY N., Project Supported by Higher Education Institutions, Peptit İçeren Yeni Sülfonamid Türevleri Sentezi, 2018 - 2019

KÜÇÜKBAY H., T. SUPURAN C., KÜÇÜKBAY F., BUĞDAY N., Project Supported by Higher Education Institutions, Amino asit içeren yeni sülfonamid türevleri sentezi ve antioksidan özelliklerinin belirlenmesi, 2018 - 2019

KÜÇÜKBAY F., KÜÇÜKBAY H., BUĞDAY N., T. SUPURAN C., Project Supported by Higher Education Institutions, Amino asit içeren bazı yeni sülfonamid türevlerinin karbonik anhidraz I, II, IV ve XII enzim inhibisyon özelliklerinin araştırılması, 2018 - 2018

KÜÇÜKBAY H., İLGEN Ö., Project Supported by Higher Education Institutions, Amino Asit İçeren Kumarin Türevlerinin Sentezi ve Özelliklerinin İncelenmesi, 2017 - 2018

KÜÇÜKBAY H., Project Supported by Higher Education Institutions, BAZI BENZİMİDAZOL TÜREVİ METAL KOMPLEKSLERİ SENTEZİ, 2014 - 2017

KÜÇÜKBAY H., Project Supported by Higher Education Institutions, Benzimidazol İskeletli Pd-NHC İçeren Kataliz Sisteminin Sonogashira Tepkimelerindeki Katalitik Özelliklerinin İncelenmesi, 2012 - 2017

Mumcu A., Küçükbay H., Project Supported by Higher Education Institutions, Bazı Benzimidazol Türevlerinin pKa Değerlerinin Belirlenmesi, 2011 - 2015

KÜÇÜKBAY H., TUBITAK Project, Peptit İçeren Yeni Benzimidazol Bileşiklerinin Sentezi Ve Biyolojik Özellikleri, 2013 - 2014

## Activities in Scientific Journals

Journal of the Turkish Chemical Society, Section A: Chemistry, Baş Editör, First Editor, 2014 - Continues

Journal of the Turkish Chemical Society, Section A: Chemistry, Editor, 2014 - Continues

Journal of Chemistry, Special Issue Editor, 2013 - 2013

## Metrics

Publication: 186

Citation (WoS): 1861

Citation (Scopus): 2003

H-Index (WoS): 24

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-İn-Chief, Journal Of The Turkish Chemical Society Section A: Chemistry, Kimya

Non-profit Organisation, Türkiye Kimya Derneği

University of Florence, Post Doc

Univesrity of Florence, Post Doc

University of Florida, The Center of Heterocyclic Compounds, 3 aylık araştırma bursu

RWTH Aachen, Öğretim Üyesi

State Economic Enterprise SEE, İnönü Üniversitesi Vakfı

University of Crete, Öğretim Üyesi

University of Rennes1, Proje arařtırmacısı

University of Sussex, Doktora Deneylerini Yapma