

## Assoc. Prof. Barış Yücel

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: O-2046-2013

ScopusID: 6603853666

Yoksis Researcher ID: 152374

### Education Information

Post Doctorate, University of Pennsylvania, Arts and Science, Department of Chemistry, United States Of America 2012 - 2015

Doctorate, Georg-August-Universitaet Göttingen, Organik Kimya, Germany 2002 - 2005

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Kimya (YI) (Tezli), Turkey 1999 - 2002

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 1994 - 1999

### Foreign Languages

English

German, B2 Upper Intermediate

### Dissertations

Doctorate, One-pot Two-step Queuing Cascades Involving a Heck Coupling, Pi Allylpalladium Trapping and Diels-Alder Reaction, Georg-August-Universitaet Göttingen, Organik Kimya, 2005

Postgraduate, The reaction of ferrocenyl chromium carbene complex with cyclobutenediones, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2002

### Research Areas

Basic Sciences, Chemistry

### Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2017 - Continues

Assistant Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2007 - 2017

## Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2009 - Continues

## Courses

Kimyaya Giriş ve Etik, Undergraduate, 2021 - 2022

CYCLIZATION REACTIONS WITH METALS, Doctorate, 2016 - 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Base-Mediated Rearrangement of  $\alpha$ -Dithioacetyl Propargylamines via Expansion of Dithioacetyl Ring: Synthesis of Medium-Sized S,S-Heterocycles**  
Dinc M., Ismailoglu E., Mert Z., Kaya K., Tayanc M., Yücel B.  
Organic Letters, vol.25, no.22, pp.4028-4032, 2023 (SCI-Expanded)
- II. **Ambipolar, multichromic metallopolymers of poly (3,4-ethylenedioxythiophene)**  
Güven N., Yücel B., Sultanova H., ÇAMURLU P.  
DYES AND PIGMENTS, vol.205, 2022 (SCI-Expanded)
- III. **Multichromic metallopolymers of poly(2,5-dithienylpyrrole)s derived through tethering of ruthenium(II) bipyridyl complex**  
Güven N., Yücel B., Sultanova H., ÇAMURLU P.  
ELECTROCHIMICA ACTA, vol.424, 2022 (SCI-Expanded)
- IV. **Synthesis of 3-Amino-4-iodothiophenes through Iodocyclization of 1-(1,3-Dithian-2-yl)propargylamines**  
Ismailoglu E., Mert Z., Dinc M., Kaya K., Yücel B.  
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, vol.2021, no.29, pp.4107-4124, 2021 (SCI-Expanded)
- V. **Tuning of electrochromic properties of electrogenerated polythiophenes through Ru(II) complex tethering and backbone derivatization**  
Güven N., Sultanova H., Ozer B., Yücel B., ÇAMURLU P.  
ELECTROCHIMICA ACTA, vol.329, 2020 (SCI-Expanded)
- VI. **Beryllium ion sensing through the ion pair formation between the electrochemically reduced ferrocenyl naphthoquinone radicals and Be<sup>2+</sup> ions**  
Atasen S. K., Alçay Y., Yavuz Ö., Yücel B., Yılmaz İ.  
JOURNAL OF CHEMICAL SCIENCES, vol.131, no.5, 2019 (SCI-Expanded)
- VII. **Palladium-Catalyzed Allylic Alkylation of 2-Aryl-1,3-Dithianes, an Umpolung Synthesis of beta,gamma-Unsaturated Ketones**  
Trongsirawat N., Li M., Pascual-Escudero A., Yücel B., Walsh P. J.  
ADVANCED SYNTHESIS & CATALYSIS, vol.361, no.3, pp.502-509, 2019 (SCI-Expanded)
- VIII. **Solution processable fluorene-extended Indeno[1,2-b]anthracenes: Synthesis, characterization and photophysical properties**  
Yücel B., Akcebe N., Desde M., Tekin E., Mucur S. P., ÇAMURLU P.  
DYES AND PIGMENTS, vol.156, pp.82-90, 2018 (SCI-Expanded)
- IX. **New ferrocenyl naphthoquinone fused crown ether chemosensors: Highly selective, kinetically and regio controlled colorimetric, beryllium ion recognition**  
Alçay Y., Yavuz Ö., Gelir A., ATASEN S. K., KARAOĞLU K., Yücel B., TUZUN N., Yılmaz İ.  
Journal of Organometallic Chemistry, vol.868, pp.131-143, 2018 (SCI-Expanded)
- X. **Post Polymerization Functionalization of a Soluble Poly(2,5-dithienylpyrrole) Derivative via Click Chemistry**  
Güven N., ÇAMURLU P., Desde M., Yücel B.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.164, no.7, 2017 (SCI-Expanded)
- XI. **Umpolung Synthesis of Diarylmethylamines via Palladium- Catalyzed Arylation of N-Benzyl Aldimines**

- Li M., Yucel B., Jimenez J., Rotella M., Fu Y., Walsh P. J.  
ADVANCED SYNTHESIS & CATALYSIS, vol.358, no.12, pp.1910-1915, 2016 (SCI-Expanded)
- XII. **A Novel Ferrocenyl Naphthoquinone Fused Crown Ether as a Multisensor for Water Determination in Acetonitrile and Selective Cation Binding**  
Dagdevren M., Yilmaz İ., YUCEL B., EMIRIK M.  
JOURNAL OF PHYSICAL CHEMISTRY B, vol.119, no.38, pp.12464-12479, 2015 (SCI-Expanded)
- XIII. **Multichromic polymers based on pyrene clicked thienylpyrrole**  
Guven N., ÇAMURLU P., Yücel B.  
POLYMER INTERNATIONAL, vol.64, no.6, pp.758-765, 2015 (SCI-Expanded)
- XIV. **Reversed-Polarity Synthesis of Diaryl Ketones through Palladium-Catalyzed Direct Arylation of 2-Aryl-1,3-dithianes**  
Yücel B., Walsh P. J.  
ADVANCED SYNTHESIS & CATALYSIS, vol.356, no.17, pp.3659-3667, 2014 (SCI-Expanded)
- XV. **Synthesis and characterization of solution processable 6,11-dialkynyl substituted indeno[1,2-b]anthracenes**  
Yücel B., Meral K., EKİNCİ D., UZUNOĞLU G. Y., TUZUN N. S., ÖZBEY S., Kazak C., OZDEMİR Y., SANLI B., KAYIK G., et al.  
DYES AND PIGMENTS, vol.100, pp.104-117, 2014 (SCI-Expanded)
- XVI. **Synthesis of diarylmethylamines via palladium-catalyzed regioselective arylation of 1,1,3-triaryl-2-azaallyl anions**  
Li M., Yucel B., Adrio J., Bellomo A., Walsh P. J.  
CHEMICAL SCIENCE, vol.5, no.6, pp.2383-2391, 2014 (SCI-Expanded)
- XVII. **Multichromic, ferrocene clicked poly(2,5-dithienylpyrrole)s**  
Bicil Z., ÇAMURLU P., Yücel B., Becer B.  
JOURNAL OF POLYMER RESEARCH, vol.20, no.9, 2013 (SCI-Expanded)
- XVIII. **Palladium-catalyzed reaction of 2-iodoferrocenyl alcohols with internal alkynes: Synthesis of functionally 1,2-disubstituted ferrocenes and ferroceno-pyrans**  
Yücel B., SANLI B., SOYLEMEZ H., AKBULUT H.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.704, pp.49-64, 2012 (SCI-Expanded)
- XIX. **Colour-responsive fluorescent oxy radical sensors**  
Yücel B., SANLI B., AKBULUT H., ÖZBEY S., BENNISTON A. C.  
ORGANIC & BIOMOLECULAR CHEMISTRY, vol.10, no.9, pp.1775-1784, 2012 (SCI-Expanded)
- XX. **Synthesis and electro-spectroelectrochemistry of ferrocenyl naphthaquinones**  
Yucel B., SANLI B., SOYLEMEZ H., Yilmaz İ.  
TETRAHEDRON, vol.67, no.7, pp.1406-1421, 2011 (SCI-Expanded)
- XXI. **Domino Heck-Diels-Alder reactions of monosubstituted bicyclopropylidenes**  
Yucel B., NOLTEMEYER M., DE MEIJERE A.  
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, no.6, pp.1072-1078, 2008 (SCI-Expanded)
- XXII. **Cyclopropyl building blocks in organic synthesis, part 143. A two-step, three-component queuing cascade leading to dihydrobenzoxepine and dihydrobenzazepine derivatives**  
Yucel B., VALENTIC N., NOLTEMEYER M., DE MEIJERE A.  
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, no.24, pp.4081-4090, 2007 (SCI-Expanded)
- XXIII. **Diels-Alder reactions of novel (1'-aryllallylidene)cyclopropanes with heterodienophiles**  
Zhao L., Yucel B., SCHEURICH R. P., FRANK D., DE MEIJERE A.  
CHEMISTRY-AN ASIAN JOURNAL, vol.2, no.2, pp.273-283, 2007 (SCI-Expanded)
- XXIV. **A two-step four-component queuing cascade involving a Heck coupling, pi-allylpalladium trapping and Diels-Alder reaction**  
Yucel B., ARVE L., DE MEIJERE A.  
TETRAHEDRON, vol.61, no.48, pp.11355-11373, 2005 (SCI-Expanded)
- XXV. **Palladium-catalyzed cross-coupling reactions and electrocyclizations - efficient combinations for new cascade reactions**

de Meijere A., SCHELPER M., KNOKE M., Yücel B., SUNNEMANN H., SCHEURICH R., ARVE L.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.687, no.2, pp.249-255, 2003 (SCI-Expanded)

- XXVI. **Synthesis of ferrocenyl quinones**  
Zora M., Yücel B., ACIKALIN S.  
TETRAHEDRON LETTERS, vol.44, no.10, pp.2237-2241, 2003 (SCI-Expanded)
- XXVII. **Coupling of ferrocenyl chromium carbene complex with cyclobutenediones**  
ZORA M., Yücel B., Bekir P.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.656, pp.11-17, 2002 (SCI-Expanded)
- XXVIII. **Reaction of 4 methoxy 4 1 methylethenyl 2 cyclobutenone derivatives with 2 lithiopropene and alpha lithiostyrene synthesis of eight membered ring carbocycles**  
ZORA M., İlkay K., Yücel B.  
TETRAHEDRON LETTERS, vol.41, pp.7111-7114, 2000 (SCI-Expanded)

## Supported Projects

Yücel B., TUBITAK Project, Geçiş Metal Kompleksleri İçeren Elektroaktif Politiyofenlerin Sentezi ve Elektrokromik Özelliklerinin İncelenmesi, 2017 - Continues

Yücel B., Project Supported by Higher Education Institutions, Halkalı 13ditiyoasetal süstitüye propargilamin türevlerinden halka genişlemesi yöntemiyle ditiyepin ve ditiyonin türevlerinin sentezi, 2021 - 2023

Yücel B., Mert Z., Project Supported by Higher Education Institutions, 1-(1,3-DİTİYEN-2-İL)PROPARGİLAMİNLERİN İYODOSİKLİZASYONUyla 3-AMİNO-4-İYODOTİYOFENLERİN SENTEZİ, 2021 - 2022

Yücel B., TUBITAK Project, 1,3-Ditiyen Temelli Metal Katalizli Sentetik Metotların Geliştirilmesi, 2020 - 2022

Yücel B., Project Supported by Higher Education Institutions, Elektrokromik Uygulamalara Yönelik Tiyofen İçeren Rutenyum Komplekslerinin Sentezi, 2018 - 2021

Yücel B., Project Supported by Higher Education Institutions, Asen-Fluoren Hibrit Oligomerler, 2011 - 2021

Yücel B., Project Supported by Higher Education Institutions, Benzosiklobütendion Temelli Yeni Antrasen Türevleri, 2011 - 2021

Yücel B., Project Supported by Higher Education Institutions, Diarilmetilamin ve Diaril Ketonların Deprotanatif-Çapraz-Kenetlenme İşlemiyle Terspolarize Sentezi, 2016 - 2018

Yücel B., Project Supported by Higher Education Institutions, "Elektroaktif Polimerler için İridium Metali İçeren Organometalik Monomer Komplekslerin Sentezi", 2016 - 2018

Yücel B., TUBITAK Project, Benzosiklobütendion Temelli Organik Moleküler Materyaller: Yeni Antrasen Türevleri, 2011 - 2012

Yücel B., Project Supported by Higher Education Institutions, Rasemik O-İodo Ferrosenil Alkollerin İnternal Alkinlerle Paladyum Katalizli Tepkimesi, 2010 - 2012

Yücel B., Project Supported by Higher Education Institutions, Ferrosenil Siklopentenon Türevlerinin Alkinlerin Pd-katalizli Halkalaşma Tepkimesi ile Sentezi, 2008 - 2012

Yücel B., Project Supported by Higher Education Institutions, FERROSENİL NAFTAKİNON TÜREVLERİNİN SENTEZİ, 2009 - 2011

Yücel B., TUBITAK Project, Ferrosenil Piran ve Ferrosenil Dihidropiridin Türevlerinin Alkinlerin Paladyum Katalizli Halkalaşma Tepkimesi ile Sentezi, 2008 - 2011

Yücel B., TUBITAK Project, Ferrosenil Naftakinon Türevlerinin Sentezi, 2009 - 2010

## Metrics

Publication: 31

Citation (WoS): 281

Citation (Scopus): 290

H-Index (WoS): 10

H-Index (Scopus): 10

## **Scholarships**

2219-Yurt Dışı Doktora Sonrası Araştırma Bursu, TUBITAK, 2014 - Continues