

Prof. Dr. MUSTAFA TAVASLI

Kişisel Bilgiler

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ScopusID: 6506308760

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Eğitim Bilgileri

Doktora, University of Durham-The Graduate Society, Kimya Anabilim Dalı, Birleşik Krallık 1996 - 1999

Yüksek Lisans, Selçuk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Türkiye 1991 - 1993

Lisans, Selçuk Üniversitesi, Eğitim Fakültesi, Kimya Öğretmenliği Pr., Türkiye 1987 - 1991

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Synthesis of a New Class of Homochiral Amines and Novel Bio-active Tropanes, University of Durham, Graduate School, Chemistry, 1999

Yüksek Lisans, Bazı kaliks(n)arenlerin faz transfer özelliklerinin incelenmesi, Selçuk Üniversitesi, Fen Bilimleri Enstitüsü, 1993

Araştırma Alanları

Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2011 - Devam Ediyor

Doç. Dr., Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2006 - Devam Ediyor

Araştırma Görevlisi, University of Durham, 2003 - 2008

Araştırma Görevlisi, University of Newcastle Upon Tyne, 2002 - 2003

Araştırma Görevlisi, University of St. Andrews, 2001 - 2002

Öğretim Görevlisi, Afyon Kocatepe Üniversitesi, 2000 - 2001

Araştırma Görevlisi, Afyon Kocatepe Üniversitesi, 1993 - 2000

Akademik İdari Deneyim

Sürekli Eğitim Merkezi Müdürü, Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2019 - 2020
Anabilim/Bilim Dalı Başkanı, Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2016 - 2019
Bölüm Başkan Yardımcısı, Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2013 - 2016

Verdiği Dersler

Lisans

Bitirme Çalışması II, Lisans, 2021 - 2022
Organik Kimya II, Lisans, 2021 - 2022
Reaction Mechanism in Organic Chemistry, Lisans, 2021 - 2022
Industrial Organic Molecules, Lisans, 2021 - 2022
Bitirme Çalışması I, Lisans, 2021 - 2022
Biyoorganik Kimya, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020
Organik Kimya I, Lisans, 2021 - 2022
Infrared Spectroscopy in Organic Chemistry, Lisans, 2021 - 2022

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A reaction-based carbazole-dicyanovinyl conjugated colorimetric and ratiometric fluorescent probe for selective detection of cyanide ions**
Battal A., Kassa S. B., ALTINÖLÇEK GÜLTEKİN N., TAVASLI M., ONGANER Y.
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- II. **A Carbazole-based Fluorescent Turn-off Chemosensor for Iron (II/III) Detection in a Dimethyl Sulfoxide**
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- III. **A red-orange carbazole-based iridium(III) complex: Synthesis, thermal, optical and electrochemical properties and OLED application**
Altinolcek N., Battal A., TAVASLI M., Cameron J., Peveler W. J., Yu H. A., Skabara P. J., Fairbairn N. J., Hedley G. J.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.951, 2021 (SCI-Expanded)
- IV. **Carbazole-based D-pi-A molecules: Determining the photophysical properties and comparing ICT effects of pi-spacer and acceptor groups**
Altinolcek N., Battal A., Vardalli C. N., TAVASLI M., Yu H. A., Peveler W. J., Skabara P. J.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1239, 2021 (SCI-Expanded)
- V. **Yellowish-orange and red emitting quinoline-based iridium(III) complexes: Synthesis, thermal, optical and electrochemical properties and OLED application**
Altinolcek N., Battal A., TAVASLI M., Cameron J., Peveler W. J., Yu H. A., Skabara P. J.
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- VI. **Synthesis of novel multifunctional carbazole-based molecules and their thermal, electrochemical and optical properties**
Altinolcek N., Battal A., TAVASLI M., Peveler W. J., Yu H. A., Skabara P. J.
BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY, cilt.16, ss.1066-1074, 2020 (SCI-Expanded)
- VII. **Synthesis and optical characterization of novel carbazole Schiff bases**
ÇİÇEK B., Calisir U., TAVASLI M., TÜLEK R., TEKE A.
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- VIII. **Synthesis of biscyclometalated iridium(III) acetylacetonate complexes via a 15 min bridge-splitting reaction, their characterisations and photophysical properties**
Altinolcek N., Aydemir M., TAVASLI M., Dos Santos P. L., Monkman A. P.

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- IX. **High efficiency OLEDs based on anthracene derivatives: The impact of electron donating and withdrawing group on the performance of OLED**
Aydemir M., Haykir G., Battal A., Jankus V., Sugunan S. K., Dias F. B., Al-Attar H., Turksoy F., TAVASLI M., Monkman A. P.
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- X. **Synthesis, thermal and optical properties of a novel bis(2-(4-dicyanovinylphenyl) pyridinato-N, C2) iridium(acetylacetonate)**
Altinolcek N., TAVASLI M., Aydemir M., Abay B., Monkman A. P.
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- XI. **Synthesis of Quaternary, Long-Chain N-Alkyl Amides and Their Corrosion Inhibition in Acidic Media**
ÖZTÜRK S., YILDIRIM A., Cetin M., TAVASLI M.
JOURNAL OF SURFACTANTS AND DETERGENTS, cilt.17, sa.3, ss.471-481, 2014 (SCI-Expanded)
- XII. **Colour tuning from green to red by substituent effects in phosphorescent tris-cyclometalated iridium(III) complexes of carbazole-based ligands: synthetic, photophysical, computational and high efficiency OLED studies**
TAVASLI M., Moore T. N., Zheng Y., Bryce M. R., Fox M. A., Griffiths G. C., Jankus V., Al-Attar H. A., Monkman A. P.
JOURNAL OF MATERIALS CHEMISTRY, cilt.22, sa.13, ss.6419-6428, 2012 (SCI-Expanded)
- XIII. **Highly Efficient, Solution-Processed, Single-Layer, Electrophosphorescent Diodes and the Effect of Molecular Dipole Moment**
Al-Attar H. A., Griffiths G. C., Moore T. N., TAVASLI M., Fox M. A., Bryce M. R., Monkman A. P.
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- XIV. **Syntheses of two diamine substituted 1,3-distal calix[4]arene-based magnetite nanoparticles for extraction of dichromate, arsenate and uranyl ions**
Sayin S., YILMAZ M., TAVASLI M.
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- XV. **Molecular Bridging of Silicon Nanogaps**
Ashwell G. J., Phillips L. J., Robinson B. J., Urasinska-Wojcik B., Lambert C. J., Grace I. M., Bryce M. R., Jitchati R., TAVASLI M., Cox T. I., et al.
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- XVI. **Cationic bis-cyclometalated iridium(III) phenanthroline complexes with pendant fluorenyl substituents: Synthesis, redox, photophysical properties and light-emitting cells**
Zeng X., TAVASLI M., Perepichka I. F., Batsanov A. S., Bryce M. R., Chiang C., Rothe C., Monkman A. P.
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- XVII. **A tris-cyclometalated iridium(III) complex of 2-(5,5-dioxido-dibenzothiophen-3-yl)pyridine: Synthesis, structural, redox and photophysical properties**
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- XVIII. **Tris-cyclometalated iridium(III) complexes of carbazole(fluorenyl)pyridine ligands: Synthesis, redox and photophysical properties, and electrophosphorescent light-emitting diodes**
Bettington S., TAVASLI M., Bryce M. R., Beeby A., Al-Attar H., Monkman A. P.
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- XIX. **Intramolecular charge transfer assisted by conformational changes in the excited state of fluorene-dibenzothiophene-S,S-dioxide co-oligomers**
Dias F. B., Pollock S., Hedley G., Palsson L., Monkman A., Perepichka I. I., Perepichka I. F., TAVASLI M., Bryce M. R.
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- XX. **Bridged diiridium complexes for electrophosphorescent OLEDs: synthesis, X-ray crystal structures, photophysics, and devices**
Bettington S., TAVASLI M., Bryce M., Batsanov A., Thompson A., Al Attar H., Dias F., Monkman A.
JOURNAL OF MATERIALS CHEMISTRY, cilt.16, sa.11, ss.1046-1052, 2006 (SCI-Expanded)
- XXI. **Practical syntheses of N-hexylcarbazol-2-yl- and -3-yl-boronic acids, their cross-coupled products**

- and a derived tris-cyclometalated (pyridin-2-yl)carbazole iridium(III) complex**
TAVASLI M., Bettington S., Bryce M., Batsanov A., Monkman A.
SYNTHESIS-STUTTGART, sa.10, ss.1619-1624, 2005 (SCI-Expanded)
- XXII. **White polymeric light-emitting diode based on a fluorene polymer/Ir complex blend system**
Al Attar H., Monkman A., TAVASLI M., Bettington S., Bryce M.
APPLIED PHYSICS LETTERS, cilt.86, sa.12, 2005 (SCI-Expanded)
- XXIII. **Oligo(fluorenyl) pyridine ligands and their tris-cyclometalated iridium(III) complexes: synthesis, photophysical properties and electrophosphorescent devices**
TAVASLI M., Bettington S., Bryce M., Al Attar H., Dias F., King S., Monkman A.
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- XXIV. **The fluorine gauche effect. Langmuir isotherms report the relative conformational stability of (+/-)-erythro- and (+/-)-threo-9,10-difluorostearic acids**
TAVASLI M., O'Hagan D., Pearson C., Petty M.
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- XXV. **Extreme enantiomeric discrimination of fluoroalkanes using deuterium NMR in chiral liquid crystalline media**
TAVASLI M., Courtieu J., Goss R., Meddour A., O'Hagan D.
CHEMICAL COMMUNICATIONS, sa.8, ss.844-845, 2002 (SCI-Expanded)
- XXVI. **1-(1,3-Dithian-2-yl)-2-phenylethanone**
Batsanov A., Howard J., O'Hagan D., TAVASLI M.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, cilt.56, 2000 (SCI-Expanded)
- XXVII. **3 alpha-Tosyloxymethyltropane(N-8-B)-borane**
Batsanov A., Howard J., O'Hagan D., TAVASLI M.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, cilt.56, 2000 (SCI-Expanded)
- XXVIII. **A synthesis of (S)-alpha-(fluorodiphenylmethyl)alkylamines by HF-pyridine treatment of 4-alkyl-5,5-diphenyl-oxazolidinones**
O'Hagan D., Royer F., TAVASLI M.
TETRAHEDRON-ASYMMETRY, cilt.11, sa.9, ss.2033-2036, 2000 (SCI-Expanded)
- XXIX. **A short synthesis of (S)-alpha-(diphenylmethyl)alkyl amines from amino acids**
O'Hagan D., TAVASLI M.
TETRAHEDRON-ASYMMETRY, cilt.10, sa.6, ss.1189-1192, 1999 (SCI-Expanded)
- XXX. **The synthesis, conformation and antimuscarinic properties of ketone analogues of tropane esters**
TAVASLI M., O'Hagan D., Batsanov A., Foxon G., Halliwell R., Howard J.
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- XXXI. **A short synthesis of (S)-2-(diphenylmethyl)pyrrolidine, a chiral solvating agent for NMR analysis**
Bailey D., O'Hagan D., TAVASLI M.
TETRAHEDRON-ASYMMETRY, cilt.8, sa.1, ss.149-153, 1997 (SCI-Expanded)
- XXXII. **SELECTIVE EXTRACTION OF FE³⁺ BY A POLYMERIC CALIX[4]ARENE**
DELIGOZ H., TAVASLI M., YILMAZ M.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, cilt.32, sa.15, ss.2961-2964, 1994 (SCI-Expanded)

Kitaplar

I. Temel Organik Kimya

AKTAN E., ALTUNDAŞ A., AYDOĞAN A., DİNÇER S., DİŞLİ A., KOZ Ö., SARIKAHYA N., SAYIL M. Ç., SEFEROĞLU Z., TAVASLI M., et al.
Bilim Yayınları, 2020

II. Bir Bakışta Heterosiklik Kimya

BARAN A., TAVASLI M., ÖCAL SUNGUROĞLU Z. N., YILDIRIM A., DOĞAN İ. S.
Gazi Kitabevi, Ankara, 2017

Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler

- I. **Bis(2-phenyl-4/5-formylpyridinato-N,C2')iridium(III)acetylacetonate (5a and 5b): their 15 Minute synthesis, characterisations and photophysical properties**
ALTINÖLÇEK N., TAVASLI M., AYDEMİR M., Dos Santos P. L., Monkman A. P.
İstanbul International Organic Electronic Symposium, 2 - 04 Aralık 2019
- II. **Design and Synthesis of Novel Cyclometalating Ligands**
TAVASLI M.
Istanbul International Organic Electronic Symposium, 2 - 04 Aralık 2019
- III. **Synthesis, Thermal and Optical Properties of a Novel Bis(2-(4-dicyanovinylphenyl)pyridinato-N,C2)iridium(acetylacetonate)**
ALTINÖLÇEK N., TAVASLI M., AYDEMİR M., ABAY B., MONKMAN A. P.
The Internatinoal Conference on Materials Science Mechanical and Automotive Engineerings and Technology in CAPPADOCIA/TURKEY (IMSMATEC'19), 21 - 23 Haziran 2019
- IV. **Design, Synthesis and Characterization of Carbazole Based Biothiol Fluorescent Sensors**
VARDALLI C., ALTINÖLÇEK N., TAVASLI M.
The Internatinoal Conference on Materials Science Mechanical and Automotive Engineerings and Technology in CAPPADOCIA/TURKEY (IMSMATEC'19), 21 - 23 Haziran 2019
- V. **White polymeric light-emitting diode based on a fluorens polymer/Ir complex blend system**
Al Attar H. A., Monkman A. P., TAVASLI M., Bettington S., Bryce M. R.
Building European OLED Infrastructure, Cambridge, İngiltere, 6 - 07 Haziran 2005, cilt.5961
- VI. **Oligo(fluorenyl)pyridine ligands and their iridium complexes: Synthesis, photophysical properties and electrophosphorescent devices.**
TAVASLI M., Bettington S., Bryce M., Monkman A., Al Attar H., Dias F., King S.
229th National Meeting of the American-Chemical-Society, California, Amerika Birleşik Devletleri, 13 - 17 Mart 2005, cilt.229

Desteklenen Projeler

- Tavaslı M., ALTINÖLÇEK N., Yükseköğretim Kurumları Destekli Proje, Bis(2-(N-hekzilkarbazol-3-il)-4/5-formilpiridin) (asetilasetonat)iridyum(III) komplekslerinin sentezi, karakterizasyonu ve fotofiziksel özelliklerinin incelenmesi, 2018 - 2020
- TAVASLI M., Yükseköğretim Kurumları Destekli Proje, Asetilasetonatobis(2-fenil-4/5-disiyanovinilpiridinato-N,C2)iridyum(III) komplekslerinin sentezi ve fotofiziksel özelliklerinin incelenmesi., 2016 - 2017
- Hacıismailoğlu M. C., Altınölçek N., Özer M., Ahmetoğlu M., Tavaslı M., Karamangil M. İ., Yükseköğretim Kurumları Destekli Proje, ORGANİK IŞIK YAYAN DİYOT OLED VE ORGANİK GÜNEŞ PİLLERİ ÜRETİMİ VE KARAKTERİZASYONU, 2015 - 2017
- Tavaslı M., TÜBİTAK Projesi, 2-(karbazol-3'-il)piridin Tabanlı Ligand ile Yeni Mavi Işık Yayan Iridyum(III) Komplekslerinin Tasarımı Ve Sentezi; Termal, Elektrokimyasal Ve Fotofiziksel Özelliklerinin İncelenmesi., 2011 - 2013

Metrikler

Yayın: 41

Atıf (WoS): 1187

Atıf (Scopus): 1217

H-İndeks (WoS): 18

H-İndeks (Scopus): 18

Akademi Dışı Deneyim

Uludağ Üniversitesi, Fen-Edebyat Fak., Kimya Bölümü, Profesör

Uludağ Üniversitesi, Fen-Edebyat Fak., Kimya Bölümü, Öğretim Üyesi ? Doçent

Aksaray Yuva Ortaokulu, Stajyer Kimya Öğretmeni

Uşak Üniversitesi, Banaz Meslek Yüksekokulu, , Öğretim Görevlisi

University of Durham, Department of Chemistry, Research Associate

University of Newcastle upon Tyne, School of Clinical & Laboratory Sciences, Research Associate

University of St Andrews, School of Chemistry, Research Fellow

Afyon Kocatepe Univ, Uşak Eğitim Fak., Arastırma Görevlisi

Afyon Kocatepe Univ, Uşak Eğitim Fak., Araştırma Görevlisi

Aksaray Yeşiltepe Lisesi, Stajyer Kimya Öğretmeni