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Publons / Web Of Science ResearcherID: A-3227-2016

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Eğitim Bilgileri

Post Doktora, Universiteit Gent, Fen, Kimya, Belçika 2021 - 2022

Doktora, Abdullah Gül Üniversitesi, Fen Bilimleri Enstitüsü, -, Türkiye 2017 - 2021

Yüksek Lisans, Abdullah Gül Üniversitesi, Fen Bilimleri Enstitüsü, -, Türkiye 2014 - 2016

Lisans, Ankara Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 2004 - 2008

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, YENİ [1]BENZOTHIENO[3,2-B][1]BENZOTHIOPHENE (BTBT)-TEMELLİ MOLEKÜLER YARIİLETKENLER VE ORGANİK ALAN ETKİLİ TRANSİSTÖR UYGULAMALARI, Abdullah Gül Üniversitesi, Fen Bilimleri Enstitüsü, -, 2022

Yüksek Lisans, Ofet'ler için havada kararlı ve çözücüde işlenebilen n-tipi ve ambipolar küçük moleküllerin dizaynı, sentezi ve karakterizasyonu, Abdullah Gül Üniversitesi, Fen Bilimleri Enstitüsü, -, 2016

Araştırma Alanları

Yarıiletken ve Süperiletken Malzemeler, Polimerik Malzemeler, Nanomalzemeler, Aromatik Bileşikler Kimyası

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Eskişehir Osmangazi Üniversitesi, ESKİŞEHİR MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON BÖLÜMÜ, 2022 - Devam Ediyor

Araştırma Görevlisi, Abdullah Gül Üniversitesi, Fen Bilimleri Enstitüsü, -, 2015 - 2021

Akademik İdari Deneyim

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Multifunctional Anionic Zn(II)-MOF for Selective CO₂ Adsorption, Cationic Dye Removal, and Luminescence-Based pH Sensing**
Kavak E., Şevik M., Değirmenci G., Alp Arici T., ÖZDEMİR R., ARICI M.
Crystal Growth and Design, cilt.24, sa.6, ss.2415-2424, 2024 (SCI-Expanded)
- II. **Quantum Dot Patterning and Encapsulation by Maskless Lithography for Display Technologies**
Ozdemir R., Van Avermaet H., Erdem O., Schiettecatte P., Hens Z., Aubert T.
ACS APPLIED MATERIALS & INTERFACES, cilt.15, sa.7, ss.9629-9637, 2023 (SCI-Expanded)
- III. **A dopant-free 2,7-dioctyl[1]benzothieno[3,2-b][1]benzothiophene (C8-BTBT)-based hole transporting layer for highly stable perovskite solar cells with efficiency over 22%**
Kaya I. C., ÖZDEMİR R., USTA H., Sonmezoglu S.
JOURNAL OF MATERIALS CHEMISTRY A, cilt.10, sa.23, ss.12464-12472, 2022 (SCI-Expanded)
- IV. **Organic Light-Emitting Physically Unclonable Functions**
Kayaci N., ÖZDEMİR R., Kalay M., KİREMİTLER N. B., USTA H., ÖNSES M. S.
ADVANCED FUNCTIONAL MATERIALS, cilt.32, sa.14, 2022 (SCI-Expanded)
- V. **Meso-pi-Extended/Deficient BODIPYs and Low-Band-Gap Donor-Acceptor Copolymers for Organic Optoelectronics**
Can A., Choi G., ÖZDEMİR R., Park S., Park J. S., Lee Y., DENEME İ., MUTLUGÜN E., Kim C., Kim B. J., et al.
ACS APPLIED POLYMER MATERIALS, cilt.4, sa.3, ss.1991-2005, 2022 (SCI-Expanded)
- VI. **Interplay between Charge Injection, Electron Transport, and Quantum Efficiency in Ambipolar Trilayer Organic Light-Emitting Transistors**
Moschetto S., Benvenuti E., USTA H., ÖZDEMİR R., Facchetti A., Muccini M., Prosa M., Toffanin S.
ADVANCED MATERIALS INTERFACES, cilt.9, sa.5, 2022 (SCI-Expanded)
- VII. **Engineering functionalized low LUMO [1]benzothieno[3,2-b][1]benzothiophenes (BTBTs): unusual molecular and charge transport properties**
ÖZDEMİR R., Ahn K., DENEME İ., Zorlu Y., Kim D., Kim M., USTA H.
JOURNAL OF MATERIALS CHEMISTRY C, cilt.8, sa.43, ss.15253-15267, 2020 (SCI-Expanded)
- VIII. **A hybridized local and charge transfer excited state for solution-processed non-doped green electroluminescence based on oligo(p-phenyleneethynylene)**
USTA H., Alimli D., ÖZDEMİR R., Tekin E., ALKAN F., Kacar R., Altas A. G., Dabak S., Gurek A. G., MUTLUGÜN E., et al.
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- IX. **Molecular engineering of organic semiconductors enables noble metal-comparable SERS enhancement and sensitivity**
DEMİREL G., Giesecking R. L. M., ÖZDEMİR R., Kahmann S., Loi M. A., Schatz G. C., Facchetti A., USTA H.
NATURE COMMUNICATIONS, cilt.10, 2019 (SCI-Expanded)
- X. **Highly Efficient Deep-Blue Electroluminescence Based on a Solution-Processable A-pi-D-pi-A Oligo(p-phenyleneethynylene) Small Molecule**
USTA H., Alimli D., ÖZDEMİR R., Dabak S., Zorlu Y., ALKAN F., Tekin E., Can A.
ACS APPLIED MATERIALS & INTERFACES, cilt.11, sa.47, ss.44474-44486, 2019 (SCI-Expanded)
- XI. **A Solution-Processable meso-Phenyl-BODIPY-Based n-Channel Semiconductor with Enhanced Fluorescence Emission**
Ozcan E., Ozdemir M., Ho D., Zorlu Y., ÖZDEMİR R., Kim C., USTA H., Cosut B.
CHEMPLUSCHEM, cilt.84, sa.9, ss.1423-1431, 2019 (SCI-Expanded)
- XII. **High Electron Mobility in [1]Benzothieno[3,2-b][1]benzothiophene-Based Field-Effect Transistors: Toward n-Type BTBTs**
USTA H., Kim D., ÖZDEMİR R., Zorlu Y., Kim S., Ruiz Delgado M. C., Harbuzaru A., Kim S., DEMİREL G., Hong J., et al.

CHEMISTRY OF MATERIALS, cilt.31, sa.14, ss.5254-5263, 2019 (SCI-Expanded)

- XIII. **BODIPY-Based Semiconducting Materials for Organic Bulk Heterojunction Photovoltaics and Thin-Film Transistors**
Ho D., ÖZDEMİR R., Kim H., Earmme T., USTA H., Kim C.
CHEMPLUSCHEM, cilt.84, sa.1, ss.18-37, 2019 (SCI-Expanded)
- XIV. **Triisopropylsilylethynyl-substituted indenofluorenes: carbonyl versus dicyanovinylene functionalization in one-dimensional molecular crystals and solution-processed n-channel OFETs**
ÖZDEMİR R., Park S., DENEME İ., Park Y., Zorlu Y., Alidagi H. A., Harmandar K., Kim C., USTA H.
ORGANIC CHEMISTRY FRONTIERS, cilt.5, sa.20, 2018 (SCI-Expanded)
- XV. **Frequency and electric field controllable photodevice: FYTRONIX device**
TATAROĞLU A., Al-Sehemi A. G., Ozdemir M., ÖZDEMİR R., USTA H., Al-Ghamdi A. A., Farooq W. A., Yakuphanoglu F.
PHYSICA B-CONDENSED MATTER, cilt.519, ss.53-58, 2017 (SCI-Expanded)
- XVI. **A Solution-Processable Liquid-Crystalline Semiconductor for Low-Temperature-Annealed Air-Stable N-Channel Field-Effect Transistors**
ÖZDEMİR R., Choi D., Ozdemir M., Kim H., Kostakoglu S. T., ERKARTAL M., Kim H., Kim C., USTA H.
CHEMPHYSCHEM, cilt.18, sa.7, ss.850-861, 2017 (SCI-Expanded)
- XVII. **Ultralow bandgap molecular semiconductors for ambient-stable and solution-processable ambipolar organic field-effect transistors and inverters**
ÖZDEMİR R., Choi D., Ozdemir M., Kwon G., Kim H., Sen U., Kim C., USTA H.
JOURNAL OF MATERIALS CHEMISTRY C, cilt.5, sa.9, ss.2368-2379, 2017 (SCI-Expanded)
- XVIII. **Ambipolar small molecular semiconductor-based heterojunction diode**
Ocaya R. O., Ozdemir M., ÖZDEMİR R., Al-Ghamdi A., USTA H., Farooq W. A., Yakuphanoglu F.
SYNTHETIC METALS, cilt.221, ss.48-54, 2016 (SCI-Expanded)
- XIX. **Trans-cis isomerization assisted synthesis of solution-processable yellow fluorescent maleic anhydrides for white-light generation**
Ozdemir M., GENÇ S., ÖZDEMİR R., ALTINTAS Y., Citir M., Sen U., MUTLUGÜN E., USTA H.
SYNTHETIC METALS, cilt.210, ss.192-200, 2015 (SCI-Expanded)
- XX. **Synthesis, Characterization, and Antimicrobial Activities of New N-(2-hydroxy-1-naphthalidene)-amino Acid (L-Tyrosine, L-Arginine, and L-Lysine) Schiff Bases and Their Manganese(III) Complexes**
Sakiyan I., ÖZDEMİR R., Ogutcu H.
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, cilt.44, sa.3, ss.417-423, 2014 (SCI-Expanded)

Kongre ve Sempozyum Katılımı Faaliyetleri

15th International Conference for Organic Electronics in Hasselt, Katılımcı, Hasselt, Belçika, 2019