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Kişisel Bilgiler

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Biyografi

Assoc. Prof. Evren Mutlugün received the B.Sc degree in Physics from Middle East Technical University in 2005. He got his M.Sc. and Ph.D. degrees, both from Bilkent University Physics Department in 2007 and 2012 respectively. Prior to joining Abdullah Gül University as a faculty of Electrical-Electronics Engineering in 2014, he worked as a National Research Foundation Competitive Research Programme (NRF-CRP) research fellow at Nanyang Technological University, between 2012 and 2014. Since 2015, he is acting as the vice dean of School of Engineering at Abdullah Gul University. His research focuses on the colloidal quantum dot-based exciton harvesting systems for novel optoelectronic applications. He is the recipient of the 2014 BAGEP Science Academy Young Scientist Award, 2017 Turkish Academy of Sciences Outstanding Young Scientist Award, 2019 Young Scientist Award of the Science Heroes Association, and has co-authored numerous conference papers and more than 60 SCI journals in high rank journals in the field.

Eğitim Bilgileri

Doktora, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Fizik, Türkiye 2007 - 2011

Yüksek Lisans, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Fizik, Türkiye 2005 - 2007

Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik, Türkiye 2002 - 2005

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Exciton Harvesting Systems of Nanocrystals, İhsan Doğramacı Bilkent Üniversitesi, Fizik, Fizik, 2012

Yüksek Lisans, Novel Ultraviolet Scintillators based on Semiconductor Quantum Dot Emitters for Significantly Enhanced Photodetection and Photovoltaics , İhsan Doğramacı Bilkent Üniversitesi, Fizik, Fen Fakültesi/Fizik, 2007

Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Elektronik, Nanoteknoloji, Optik ve Fotonik, Metalurji ve Malzeme Mühendisliği, Malzeme Bilimi ve Mühendisliği, Optik Özellikler, Nanomalzemeler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Doç.Dr., Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2017 - Devam Ediyor
Yrd.Doç.Dr., Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2013 - Devam Ediyor

Akademik İdari Deneyim

Dekan Yardımcısı, Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2015 - Devam Ediyor

BAP Bilimsel Komisyon Üyesi, Abdullah Gül Üniversitesi, 2014 - 2020

Enstitü Müdür Yardımcısı, Abdullah Gül Üniversitesi, 2014 - 2015

Verdiği Dersler

Yüksek Lisans

SPECIAL TOPICS IN EEE, Yüksek Lisans, 2020 - 2021

Lisans

PHYSICS II FOR ELECTRICAL ELECTRONICS ENGINEERING, Lisans, 2020 - 2021

PHYSICS II, Lisans, 2020 - 2021

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Electrochemical and Optical Multi-Detection of Escherichia coli Through Magneto-Optic Nanoparticles: A Pencil-on-Paper Biosensor**
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- II. **Tailoring Quantum Dot Shell Thickness and Polyethylenimine Interlayers for Optimization of Inverted Quantum Dot Light-Emitting Diodes**
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- III. **Tattoo-Like Multi-Color Physically Unclonable Functions**
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- IV. **Photoluminescent and superhydrophobic nanocomposites of perovskite nanocrystals**
Karabel Ocal S., ÇELİK N., ÖNSES M. S., Mutlugun E.
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- V. **Spectrally Tunable White Light-Emitting Diodes Based on Carbon Quantum Dot-Doped Poly(N-vinylcarbazole) Composites**
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- VII. **Magnetically controlled anisotropic light emission of DNA-functionalized supraparticles**
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- VIII. **Nanowire-Shaped MoS₂@MoO₃ Nanocomposites as a Hole Injection Layer for Quantum Dot Light-Emitting Diodes**
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- IX. **Color Enrichment Solids of Spectrally Pure Colloidal Quantum Wells for Wide Color Span in Displays**
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- X. **Superior CdSe/ZnS@Fe₂O₃ Yolk-Shell Nanoparticles as Optically Active MRI Contrast Agents**
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- XI. **Natural Wax-Stabilized Perovskite Nanocrystals as Pen-on-Paper Inks and Doughs**
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- XII. **Meso- π -Extended/Deficient BODIPYs and Low-Band-Gap Donor-Acceptor Copolymers for Organic Optoelectronics**
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- XIII. **Highly luminescent ZnCdTeS nanocrystals with wide spectral tunability for efficient color-conversion white-light-emitting-diodes**
Soheylı E., Zargoush S., YAZICI A. F., Sahraei R., MUTLUGÜN E.
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- XIV. **Rational design of chemical bath deposition technique for successful preparation of Mn-doped CdS nanostructured thin films with controlled optical properties**
Kharabaneh F. K., Ghavidel E., Soheylı E., Yazıcı A. F., Jawhar N. N., Mutlugün E., Sahraei R.
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- XV. **Long-time stable colloidal Zn-Ag-In-S quantum dots with tunable midgap-involved emission**
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- XVI. **Osmotic-Pressure-Induced Nematic Ordering in Suspensions of Laponite and Carboxy Methyl Cellulose**
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- XVII. **A hybridized local and charge transfer excited state for solution-processed non-doped green electroluminescence based on oligo(p-phenyleneethynylene)**
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- XVIII. **Preparation of highly emissive and reproducible Cu-In-S/ZnS core/shell quantum dots with a mid-gap emission character**
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- XIX. **Transparent Films Made of Highly Scattering Particles**
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- XX. **Record High External Quantum Efficiency of 19.2% Achieved in Light-Emitting Diodes of Colloidal Quantum Wells Enabled by Hot-Injection Shell Growth**
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- XXI. **Multiplexed patterning of cesium lead halide perovskite nanocrystals by additive jet printing for efficient white light generation**
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- XXIV. **Giant Alloyed Hot Injection Shells Enable Ultralow Optical Gain Threshold in Colloidal Quantum Wells**
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- XXV. **Cesium-lead based inorganic perovskite quantum-dots as interfacial layer for highly stable perovskite solar cells with exceeding 21% efficiency**
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- XXVI. **Highly Stable, Near-Unity Efficiency Atomically Flat Semiconductor Nanocrystals of CdSe/ZnS Hetero-Nanoplatelets Enabled by ZnS-Shell Hot-Injection Growth**
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- XXVII. **FRET enabled light harvesting within quantum dot loaded nanofibers**
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- XXVIII. **Cd-free quantum dot pellets for efficient white light generation**
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- XXIX. **Rec. 2100 color gamut revelation using spectrally ultranarrow emitters**
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- XXX. **Excitonic interaction amongst InP/ZnS salt pellets**
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- XXXI. **Efficient Forster Resonance Energy Transfer Donors of In(Zn)P/ZnS Quantum Dots**
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- XXXVI. **Exciton dynamics in luminescent carbon nanodots: Electron-hole exchange interaction**
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- XXXVII. **Trans-cis isomerization assisted synthesis of solution-processable yellow fluorescent maleic**

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- XXXVIII. **Electroluminescence Efficiency Enhancement in Quantum Dot Light-Emitting Diodes by Embedding a Silver Nanoisland Layer**
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- XXXIX. **Observation of polarized gain from aligned colloidal nanorods**
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- XL. **Light Extraction Efficiency Enhancement of Colloidal Quantum Dot Light-Emitting Diodes Using Large-Scale Nanopillar Arrays**
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- XLI. **Colloidal Quantum Dot Light-Emitting Diodes Employing Phosphorescent Small Organic Molecules as Efficient Exciton Harvesters**
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- XLII. **Highly Flexible, Electrically Driven, Top-Emitting, Quantum Dot Light-Emitting Stickers**
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- XLIII. **Hyperbolic metamaterials based on quantum-dot plasmon-resonator nanocomposites**
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- XLIV. **Quantum dots on vertically aligned gold nanorod monolayer: plasmon enhanced fluorescence**
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- XLV. **Stimulated Emission and Lasing from CdSe/CdS/ZnS Core-Multi-Shell Quantum Dots by Simultaneous Three-Photon Absorption**
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- XLVI. **Transition metal oxides on organic semiconductors**
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- XLVII. **Nanosecond colloidal quantum dot lasers for sensing**
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- XLVIII. **Solution Processed Tungsten Oxide Interfacial Layer for Efficient Hole-Injection in Quantum Dot Light-Emitting Diodes**
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- LII. **Observation of Selective Plasmon-Exciton Coupling in Nonradiative Energy Transfer: Donor-Selective versus Acceptor-Selective Plexcitons**
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- LVII. **Excitonic enhancement of nonradiative energy transfer from a quantum well in the optical near field of energy gradient quantum dots**
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- LIX. **Photocatalytic hybrid nanocomposites of metal oxide nanoparticles enhanced towards the visible spectral range**
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- LX. **Spatially Selective Assembly of Quantum Dot Light Emitters in an LED Using Engineered Peptides**
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- LXII. **Photovoltaic nanopillar radial junction diode architecture enhanced by integrating semiconductor quantum dot nanocrystals as light harvesters**
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Bilimsel Kuruluşlardaki Üyelikler / Görevler

TUBİTAK, Danışma Kurulu Üyesi, 2021 - Devam Ediyor , Türkiye

Metrikler

Yayın: 119

Atf (WoS): 2111

Atf (Scopus): 2627

H-İndeks (WoS): 28

H-İndeks (Scopus): 30

Kongre ve Sempozyum Katılımı Faaliyetleri

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Nanotechnology Days, Davetli Konuşmacı, Bursa, Türkiye, 2010

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TUBİTAK-Helmholtz Association Workshop, Davetli Konuşmacı, Kocaeli, Türkiye, 2008

4. Industrial Engineering Summit Meeting (EMSAZ 2008), Davetli Konuşmacı, Bursa, Türkiye, 2008

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Burslar

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