

Prof.Dr. MUSTAFA ALEVLİ

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Georgia State University, Physics & Astronomy, Amerika Birleşik Devletleri 2004 - 2008
Yüksek Lisans, Georgia State University, Physics&Astronomy, Amerika Birleşik Devletleri 2001 - 2004
Yüksek Lisans, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Y) (Tezli), Türkiye 1998 - 2001
Lisans, Marmara Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1994 - 1998

Yaptığı Tezler

Doktora, Growth and characterization of indium nitride layers grown by high-pressure chemical vapor deposition, Georgia State University, Physics & Astronomy, 2005
Yüksek Lisans, Cut off wavelength dependence on doping concentration for highly doped p-type GaAs detector structures, Georgia State University, Physics&Astronomy, 2001
Yüksek Lisans, Titanyum atomunun toplam ve kısmi fotoiyonlaşma tesir kesiti hesapları, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Y) (Tezli), 2001

Araştırma Alanları

Baskı Devreler, İnce Film, Kalın Film ve Hibrid Tümüleşik Devreler, Dönüştürücüler ve Algılama Aygıtları , Nanoteknoloji, Optik ve Fotonik, Aydınlatma Teknolojisi , Yenilenebilir Enerji, Dielektrik Malzeme ve Aygıtlar , Optik Malzeme ve Aygıtlar , Optoelektronik Malzeme ve Aygıtlar , Yarı İletken Malzeme ve Aygıtlar , Güneş Enerjisi, Fizik, Atomik Özellikler ve Fotonla Etkileşmeler, Moleküler Özellikler ve Fotonla Etkileşmeler, Disiplinlerarası Fizik ve İlgili Bilim ve Teknoloji Alanları, Optik, Yoğun Madde 1:Yapısal, Mekanik ve Termal Özellikler

Akademik Unvanlar / Görevler

Doç.Dr., Marmara Üniversitesi, Fen-Edebiyat Fakültesi, 2013 - Devam Ediyor
Yrd.Doç.Dr., Marmara Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2011 - 2013
Uzman, İhsan Doğramacı Bilkent Üniversitesi, Ulusal Nanoteknoloji Uygulama Ve Araştırma Merkezi, 2010 - 2011
Öğretim Görevlisi Dr., University Of Nevada, Las Vegas, Harry Reid Center For Enviromental Studies, 2010 - 2010
Öğretim Görevlisi, Georgia State University, College Of Arts And Sciences, Physics And Astronomy, 2008 - 2010
Araştırma Görevlisi, Georgia State University, College Of Arts & Sciences, Physics & Astronomy, 2001 - 2008
Araştırma Görevlisi, Marmara Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1998 - 2001

Mesleki Deneyim

Erasmus Koordinatörü, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Y) (Tezli) (İngilizce), 2011 - Devam Ediyor

Yönetilen Tezler

Alevli M., Optical Properties of Group III Nitride Thin films grown by hollow cathode plasma assisted atomic layer deposition, Doktora, N.Güngör(Öğrenci), 2019

ALEVLİ M., Plazma ile etkilendirilmiş atomik katman büyüme yöntemi ile büyütülen AlN ince filmlerin optik özellikleri,

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Visible/infrared refractive index and phonon properties of GaN films grown on sapphire by hollow-cathode plasma-assisted atomic layer deposition**
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- **Influence of N-2/H-2 and N-2 plasma on binary III-nitride films prepared by hollow-cathode plasma-assisted atomic layer deposition**
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- **Enhancement in c-Si solar cells using 16 nm InN nanoparticles**
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- **Comparison of trimethylgallium and triethylgallium as "Ga" source materials for the growth of ultrathin GaN films on Si (100) substrates via hollow-cathode plasma-assisted atomic layer deposition**
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JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A, cilt.34, 2016 (SCI İndekslerine Giren Dergi)
- **Substrate temperature influence on the properties of GaN thin films grown by hollow-cathode plasma-assisted atomic layer deposition**
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- **A Near-Infrared Range Photodetector Based on Indium Nitride Nanocrystals Obtained Through Laser Ablation**
Tekcan B., Alkis S., ALEVLİ M., Dietz N., ORTAÇ B., BIYKLİN., OKYAY A. K.
IEEE ELECTRON DEVICE LETTERS, cilt.35, ss.936-938, 2014 (SCI İndekslerine Giren Dergi)
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- **Thermal stability of InN epilayers grown by high pressure chemical vapor deposition**
Acharya A. R. , Gamage S., Senevirathna M. K. I. , ALEVLİ M., Bahadir K., Melton A. G. , Ferguson I., Dietz N., Thoms B. D.
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- **Generation of InN nanocrystals in organic solution through laser ablation of high pressure chemical vapor deposition-grown InN thin film**
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- **The influence of the group V/III molar precursor ratio on the structural properties of InGaN layers grown by HPCVD**

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- **Carrier concentration and surface electron accumulation in indium nitride layers grown by high pressure chemical vapor deposition**

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- **The characterization of InN growth under high-pressure CVD conditions**

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PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, cilt.242, ss.2985-2994, 2005 (SCI İndekslerine Giren Dergi)

- **The effects of light heavy hole transitions on the cutoff wavelengths of far infrared detectors**

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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

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ALEVLİ M., Gungor N.

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Gungor N., ALEVLİ M.

ICG Annual meeting, 22 - 25 Ekim 2017

- **Critical Thickness on Optical Properties at UV VIS and Infrared Region of GaN Thin Films Grown by Hollow Cathode Assisted Atomic Layer Deposition**

Gungor N., ALEVLİ M.

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Haider A., Kızır S., Ozgit Akgun C., Goldenberg E., ALEVLİ M., OKYAY A. K. , BİYKLİN.
American Vacuum Society 62nd international symposium, 18 - 23 Ekim 2015
- **Comparison Studies of GaN Grown with Trimethylgallium and Triethylgallium for Optoelectronic Applications**
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- **Comparison of Trimethylgallium and Triethylgallium as Ga Source Materials for the Growth of Ultra thin GaN Films via Hollow cathode Plasma assisted ALD**
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Chowdhury F. I. , İslam K., Alkis S., ORTAÇ B., ALEVLİ M., Dietz N., OKYAY A. K. , Nayfeh A.
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Desteklenen Projeler

Alevi M., TÜBİTAK Projesi, Atomik Katman Büyütme Yöntemi İle Kaplanan GaN Galyum Nitrat İnce Filmlerinin Optik Karakterizasyonu, 2014 - 2015

Atıflar

Toplam Atf Sayısı (WOS):531

h-indeksi (WOS):13