

Prof. Dr. BÜLENT ULUĞ

Kişisel Bilgiler

Fax Telefonu: [+90 242 227 8911](tel:+902422278911)

E-posta: bulug@akdeniz.edu.tr

Web: <https://avesis.akdeniz.edu.tr/bulug>

Posta Adresi: Akdeniz Üniversitesi, Fen Fakültesi, Fizik Bölümü ANTALYA

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0003-1744-6861

Yoksis Araştırmacı ID: 1267

Eğitim Bilgileri

Doktora, University of Edinburgh, Department Of Electrical Engineering, Department Of Electrical Engineering, Birleşik Krallık 1978 - 1982

Yüksek Lisans, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği, Türkiye 1976 - 1977

Lisans, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği, Türkiye 1975 - 1976

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Electrical Conduction Processes in Thick Film Systems, University of Edinburgh, Department Of Electrical Engineering, Electrical Engineering, 1982

Yüksek Lisans, Argon-İyon Laser, Hacettepe Üniversitesi, Fizik Enstitüsü, Fizik Mühendisliği, 1977

Araştırma Alanları

Fizik, Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler, Elektronik yapı, arayüzeylerin, ince filmlerin ve düşük boyutlu yapıların elektrik özellikleri, Süperiletkenlik, Yoğun maddede elektronik taşınım, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Akdeniz Üniversitesi, Fen Fakültesi, Fizik, 1996 - Devam Ediyor

Doç. Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 1986 - 1996

Yrd. Doç. Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 1983 - 1986

Verdiği Dersler

Titreşim ve Dalgalar laboratuvarı, Lisans, 2016 - 2017

Yönetilen Tezler

- ULUĞ B., Grafin-Altaş etkileşmelerinin ilk prensiplerden hesaplanması, Doktora, A.Çiçek(Öğrenci), 2012
- ULUĞ B., Kuru aşındırma yöntemi ile hazırlanan silikon yüzeylerin yapısal ve optik özelliklerinin incelenmesi, Yüksek Lisans, İ.Kabaçelik(Öğrenci), 2007
- ULUĞ B., TÜBİTAK Ulusal Gözlemevi (TUG) astrolabıyla 2002 yılı ve 2003 yıllarında elde edilen güneş yarıçap değerlerinin güneş'in leke çevrimi ile ilişkisinin araştırılması, Yüksek Lisans, A.Yadikar(Öğrenci), 2006
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- ULUĞ B., Fullerenlerin yapısına Si ve Ge katkılması, Yüksek Lisans, M.Yılmaz(Öğrenci), 2003
- ULUĞ B., Üçgen dalga uygulanarak oluşturulan gözenekli silisyumun yapısal özelliklerinin incelenmesi, Yüksek Lisans, F.Şendil(Öğrenci), 2001
- ULUĞ B., TÜBİTAK Ulusal Gözlemevi'nde gözlem bilgilerinin veri tabanına aktarılması ve gözlem sonuçlarının değerlendirilmesi, Yüksek Lisans, H.Ay(Öğrenci), 1999
- ULUĞ B., Katmanlı üstün iletken yapısında elektronik iletimin bilgisayar benzetimi yöntemiyle incelenmesi, Yüksek Lisans, M.Barın(Öğrenci), 1999

Jüri Üyelikleri

- Akademik Kadroya Atama-Yardımcı Doçentlik, Profesörlük ataması, İnönü Üniversitesi, Ocak, 2017
- Akademik Kadroya Atama-Yardımcı Doçentlik, Profesörlük ataması, İnönü Üniversitesi, Ocak, 2017
- Akademik Kadroya Atama-Yardımcı Doçentlik, Profesörlük ataması, İnönü Üniversitesi, Ocak, 2017

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **Surface acoustic wave quasi-Bessel beams generated by symmetrically tilted interdigital transducers**
ULUĞ B., KURUOĞLU F., Yalçın Y., Ero1 A., SARCAN F., ŞAHİN A., ÇİÇEK A.
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- II. **Ultrasonic Gas Sensing by Two-Dimensional Surface Phononic Crystal Ring Resonators**
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- III. **Gas sensing through evanescent coupling of spoof surface acoustic waves**
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- IV. **Acoustic Tamm states of three-dimensional solid-fluid phononic crystals**
Koroğlu N., KAYA O. A., Cicek A., ULUĞ B.
JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, cilt.143, sa.2, ss.756-764, 2018 (SCI-Expanded)
- V. **Acoustophoretic separation of airborne millimeter-size particles by a Fresnel lens**
Cicek A., Koroğlu N., KAYA O. A., ULUĞ B.
SCIENTIFIC REPORTS, cilt.7, 2017 (SCI-Expanded)
- VI. **Effect of the lasers used in periodontal therapy on the surfaces of restorative materials**
HATİPOĞLU M., Barutçigil C., HARORLI O. T., ULUĞ B.
SCANNING, cilt.38, sa.3, ss.227-233, 2016 (SCI-Expanded)
- VII. **Phononic crystal surface mode coupling and its use in acoustic Doppler velocimetry**
Cicek A., Salman A., KAYA O. A., ULUĞ B.
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- VIII. **Relation between Silver Nanoparticle Formation Rate and Antioxidant Capacity of Aqueous Plant Leaf Extracts**
Akbal A., TÜRKDEMİR M. H., Cicek A., ULUĞ B.

- JOURNAL OF SPECTROSCOPY, cilt.2016, 2016 (SCI-Expanded)
- IX. **Evanescent coupling between surface and linear-defect guided modes in phononic crystals**
Cicek A., Salman A., KAYA O. A., ULUĞ B.
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- X. **Sharp bends of phononic crystal surface modes**
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- XI. **Low-concentration liquid sensing by an acoustic Mach-Zehnder interferometer in a two-dimensional phononic crystal**
Salman A., KAYA O. A., Cicek A., ULUĞ B.
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- XII. **Guiding airborne sound through surface modes of a two-dimensional phononic crystal**
Cicek A., Gungor T., KAYA O. A., ULUĞ B.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, cilt.48, sa.23, 2015 (SCI-Expanded)
- XIII. **Role of irradiation in the green synthesis of silver nanoparticles mediated by fig (*Ficus carica*) leaf extract**
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SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.135, ss.153-161, 2015 (SCI-Expanded)
- XIV. **Acoustic Mach-Zehnder interferometer utilizing self-collimated beams in a two-dimensional phononic crystal**
KAYA O. A., Cicek A., Salman A., ULUĞ B.
SENSORS AND ACTUATORS B-CHEMICAL, cilt.203, ss.197-203, 2014 (SCI-Expanded)
- XV. **Coupling between opposite-parity modes in parallel photonic crystal waveguides and its application in unidirectional light transmission**
Cicek A., ULUĞ B.
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- XVI. **Acoustic waveguiding by pliable conduits with axial cross sections as linear waveguides in two-dimensional sonic crystals**
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- XVII. **Acoustic beam splitting in a sonic crystal around a directional band gap**
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- XVIII. **Polarization-independent beam splitting by a photonic crystal right prism**
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- XIX. **Polarization-independent unidirectional light transmission by an annular photonic crystal prism**
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PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS, cilt.11, sa.3, ss.270-278, 2013 (SCI-Expanded)
- XX. **Surface plasmon resonance investigation procedure as a structure sensitive method for SnO₂ nanofilms**
Grinevich V. S., Filevska L. M., Matyash I. E., Maximenko L. S., Mischuk O. N., Rudenko S. P., Serdega B. K., Smyntyna V. A., ULUĞ B.
THIN SOLID FILMS, cilt.522, ss.452-456, 2012 (SCI-Expanded)
- XXI. **Self-collimated slow sound in sonic crystals**
KAYA O. A., Cicek A., ULUĞ B.
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- XXII. **Refraction-based photonic crystal diode**
Cicek A., Yücel M. B., Kaya O. A., Uluğ B.

- OPTICS LETTERS, cilt.37, sa.14, ss.2937-2939, 2012 (SCI-Expanded)
- XXIII. **Refraction-type sonic crystal junction diode**
Cicek A., KAYA O. A., ULUĞ B.
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- XXIV. **Slow sound propagation in a sonic crystal linear waveguide**
Cicek A., KAYA O. A., Yilmaz M., ULUĞ B.
JOURNAL OF APPLIED PHYSICS, cilt.111, sa.1, 2012 (SCI-Expanded)
- XXV. **Impacts of uniaxial elongation on the bandstructures of two-dimensional sonic crystals and associated applications**
Cicek A., KAYA O. A., ULUĞ B.
APPLIED ACOUSTICS, cilt.73, sa.1, ss.28-36, 2012 (SCI-Expanded)
- XXVI. **Biosynthesis of silver nanoparticles using leaves of Stevia rebaudiana**
Yilmaz M., Turkdemir H., KILIÇ M. A., BAYRAM E., Cicek A., METE A., ULUĞ B.
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- XXVII. **Superprism effect in a deformed triangular sonic crystal**
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- XXVIII. **Influence of high electron concentration on band gap and effective electron mass of InN**
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- XXIX. **Focusing with two-dimensional angular-symmetric circular acoustic lenses**
KAYA O. A., Cicek A., ULUĞ B.
ACOUSTICAL PHYSICS, cilt.57, sa.3, ss.292-300, 2011 (SCI-Expanded)
- XXX. **Wide-band all-angle acoustic self-collimation by rectangular sonic crystals with elliptical bases**
Cicek A., KAYA O. A., ULUĞ B.
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- XXXI. **Optical constants detection in tin dioxide nano-size layers by surface plasmon resonance investigation**
Serdega B. K., Matyash I. E., Maximenko L. S., Rudenko S. P., Smyntyna V. A., Grinevich V. S., Filevskaya L. N., Uluğ B., Uluğ A., Yucel B. M.
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- XXXII. **Luminescence properties of Ammonium Silicon Fluoride films prepared by vapour etching technique**
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- XXXIII. **Polarization-independent waveguiding with annular photonic crystals**
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- XXXIV. **Photoluminescence in n and p modulation-doped GaInNAs/GaAs quantum wells**
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- XXXV. **Influence of Kerr nonlinearity on the band structures of two-dimensional photonic crystals**
Cicek A., ULUĞ B.
OPTICS COMMUNICATIONS, cilt.281, sa.14, ss.3924-3931, 2008 (SCI-Expanded)
- XXXVI. **Optical and electrical properties of modulation-doped n and p-type Ga_xIn_{1-x}NyAs_{1-y}/GaAs quantum wells for 1.3 μm laser applications**
Sun Y., EROL A., YILMAZ M., Arıkan M. C., ULUĞ B., Uluğ A., Balkan N., Söpanen M., Reentila O., Mattila M., et al.
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- XXXVII. **Further investigation on the formation mechanisms of (NH₄)₂SiF₆ synthesized by dry etching technique**
Kabacelik I., ULUĞ B.
APPLIED SURFACE SCIENCE, cilt.254, sa.6, ss.1870-1873, 2008 (SCI-Expanded)

- XXXVIII. **Inhibition of negative differential resistance in modulation-doped n-type $GaxIn_{1-x}NyAs_{1-y}/GaAs$ quantum wells**
Sun Y., Vaughan M. P., Agarwal A., Yilmaz M., Ulug B., Ulug A., Balkan N., Sopanen M., Reentila O., Mattila M., et al.
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- XXXIX. **Conduction in $Y(1-x)Sc(x)Ba_2Cu_3O_y$**
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- XL. **Production of Ge heterofullerenes by arc-discharge technique**
YILMAZ M., Ulug B.
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- XLI. **Clustering in some randomly occupied two- and three-dimensional lattices**
Ulug A., Karakaplan M., Ulug B.
CANADIAN JOURNAL OF PHYSICS, cilt.82, sa.4, ss.323-329, 2004 (SCI-Expanded)
- XLII. **Normal state resistance of $Y_{1-x}Ca_xBa_2Cu_3O_y$**
Ulug A., Ulug B.
MATERIALS CHEMISTRY AND PHYSICS, cilt.76, sa.3, ss.299-302, 2002 (SCI-Expanded)
- XLIII. **Anomalous resistive transitions in $Y_2Ba_3Cu_5O_x$ and its nearby compositions between 110-204 K**
Adiguzel H., Ulug B.
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- XLIV. **Structure of C-60-aliphatic diamine adducts**
Ulug A., METE A., Ulug B.
FULLERENE SCIENCE AND TECHNOLOGY, cilt.5, sa.7, ss.1651-1658, 1997 (SCI-Expanded)
- XLV. **Semiconductivity in $YBa_{2-x}Sr_xCu_3O_y$**
Ulug A., Ulug B., Sener E.
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- XLVI. **Synthesis of C-60-furfural adduct**
METE A., Ulug A., Ulug B.
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- XLVII. **INFRARED-ABSORPTION IN THICK-FILM RESISTORS**
ULUG B., ULUG A., SENER E.
JOURNAL OF MATERIALS SCIENCE, cilt.30, sa.13, ss.3346-3350, 1995 (SCI-Expanded)
- XLVIII. **OBSERVATION OF ANOMALOUS RESISTIVE TRANSITION IN A NEW MIXED-PHASE $Y_3Ba_4Cu_7O_x$ SYSTEM AROUND 125-260-K**
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- XLIX. **THE IR-SPECTRA OF GLASS-CERAMIC $Bi_2Sr_2Ca_2Cu_3O_{10+y}$ SUPERCONDUCTOR SYSTEM**
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- L. **THE INFLUENCE OF CONDUCTOR PARTICLE-SIZE DISTRIBUTION ON THE BLENDING CURVE OF EPOXY-BASED THICK-FILM RESISTORS**
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ELECTROCOMPONENT SCIENCE AND TECHNOLOGY, cilt.10, sa.4, ss.277-284, 1983 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Structure, spectroscopic and thermal characterization of BIS(Acetylacetonato)Dichlorotin(IV) synthesized in aqueous solution**
Uluğ B., Türkdemir H. M., Uluğ A., Büyükgüngör O., Yücel M. B., Smyntyna V. A., Grinevich V. S., Filevskaya L. N.
Ukrainian Chemistry Journal, cilt.76, ss.12-17, 2010 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Investigation of dielectric properties of $M_{0.5}Ba_{0.5}TiO_3$ (M: Co, Gd, Mn, Sr, Zr) and undoped $BaTiO_3$ thin films produced by sol-gel method.**
ÇÖLKESEN P., Tumbul A., ULUĞ B., MUTLU İ. H.
Turkish Physical Society 35th International Physics Congress, Muğla, Türkiye, 4 - 08 Eylül 2019, cilt.1, sa.1, ss.193
- II. **The morphological investigations on surfaces of $M_{0.5}Ba_{0.5}TiO_3$ (M: Co, Gd, Mn, Sr, Zr) and undoped $BaTiO_3$ thin films**
ÇÖLKESEN P., Gökteş A., ULUĞ B., MUTLU İ. H.
Turkish Physical Society 35th International Physics Congress, Muğla, Türkiye, 4 - 08 Eylül 2019, cilt.1, sa.1, ss.345
- III. **MORPHOLOGICAL INVESTIGATIONS OF THE SURFACES OF $M_xBa_{1-x}TiO_3$ (M:Co, Gd, Mn,Sr,Zr) (X=0 AND 0.5) THIN FILMS**
ÇÖLKESEN P., GÖKTAŞ A., ULUĞ B., MUTLU İ. H.
TURKISH PHYSICAL SOCIETY 35TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Türkiye, 4 - 08 Eylül 2019, cilt.1, ss.345
- IV. **Investigation of dielectric properties of $M_{0.5}Ba_{0.5}TiO_3$ (M: Co, Gd, Mn, Sr, Zr) and undoped $BaTiO_3$ thin films produced by sol-gel method.**
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- V. **Investigation of dielectric properties of $M_{0.5}Ba_{0.5}TiO_3$ (M: Co, Gd, Mn, Sr, Zr) and undoped $BaTiO_3$ thin films produced by sol-gel method.**
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- VII. **The morphological investigations on surfaces of $M_{0.5}Ba_{0.5}TiO_3$ (M: Co, Gd, Mn, Sr, Zr) and undoped $BaTiO_3$ thin films**
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- VIII. **Thermogravimetric Study of Nano- SnO_2 Precursors**
Grinevych V. S., Filevska L. M., Savin S. M., Smyntyna V. A., ULUĞ B.
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- IX. **Coupled Surface Waves in Linear Defect Photonic Crystal Waveguides**
Yücel M. B., Çiçek A., Kaya O. A., Uluğ B.
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- X. **Fotonik kristal diyotlar**
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- XI. **Photonic crystal-based electromagnetic wave splitter**
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- XII. **Polarization-independent unidirectional light transmission by a photonic crystal prism**
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- XIII. **Polarization-independent unidirectional light transmission by a photonic crystal prism**
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- XIV. **Unidirectional light transmission through refractions across photonic-crystal junction**
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- XV. **Polarization-Independent Self-Collimated Beam Splitting in Two-Dimensional Photonic Crystals**
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- XVI. **A Study of Optical and Electrical Properties of In-rich In_{1-x}Ga_xN**
Gunes M., Balkan N., YILMAZ M., ULUĞ B., Uluğ A., Schaff W. J.
International Commission for Optics Topical Meeting, Delhi, Kanada, 7 - 09 Ekim 2009, cilt.1288, ss.178-180
- XVII. **Surface plazmons resonance in nanostructured Tin Dioxide films**
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- XX. **Slow Light Propagation in Annular Photonic Crystal Linear Waveguides**
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