

# Prof. BÜLENT ULUĞ

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, University of Edinburgh, Department Of Electrical Engineering, Department Of Electrical Engineering, United Kingdom 1978 - 1982

Postgraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği, Turkey 1976 - 1977

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği, Turkey 1975 - 1976

## Foreign Languages

English, C1 Advanced

## Dissertations

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

Postgraduate, Argon-İyon Laser, Hacettepe University, Fizik Enstitüsü, Fizik Mühendisliği, 1977

## Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Superconductivity, Electronic transport in condensed matter, Natural Sciences

## Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Science, Fizik, 1996 - Continues

Associate Professor, Inonu University, Fen-Edebiyat Fakültesi, Fizik, 1986 - 1996

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Fizik, 1983 - 1986

## Courses

## Advising Theses

- ULUĞ B., Grafin-Altaş etkileşmelerinin ilk prensiplerden hesaplanması, Doctorate, A.Çiçek(Student), 2012
- ULUĞ B., Kuru aşındırma yöntemi ile hazırlanan silikon yüzeylerin yapısal ve optik özelliklerinin incelenmesi, Postgraduate, İ.Kabaçelik(Student), 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, Postgraduate, A.Yadikar(Student), 2006
- ULUĞ B., 2 boyutlu doğrusal olmayan fotonik kristallerin modellenmesi ve band yapılarının elde edilmesi, Postgraduate, A.Çiçek(Student), 2006
- ULUĞ B., Fullerenlerin yapısına Si ve Ge katkılması, Postgraduate, M.Yılmaz(Student), 2003
- ULUĞ B., Üçgen dalga uygulanarak oluşturulan gözenekli silisyumun yapısal özelliklerinin incelenmesi, Postgraduate, F.Şendil(Student), 2001
- ULUĞ B., TÜBİTAK Ulusal Gözlemevi'nde gözlem bilgilerinin veri tabanına aktarılması ve gözlem sonuçlarının değerlendirilmesi, Postgraduate, H.Ay(Student), 1999
- ULUĞ B., Katmanlı üstün iletken yapısında elektronik iletimin bilgisayar benzetimi yöntemiyle incelenmesi, Postgraduate, M.Barın(Student), 1999

## Jury Memberships

- Appointment to Academic Staff-Assistant Professorship, Profesörlük ataması, İnönü Üniversitesi, January, 2017
- Appointment to Academic Staff-Assistant Professorship, Profesörlük ataması, İnönü Üniversitesi, January, 2017
- Appointment to Academic Staff-Assistant Professorship, Profesörlük ataması, İnönü Üniversitesi, January, 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Surface acoustic wave quasi-Bessel beams generated by symmetrically tilted interdigital transducers**  
ULUĞ B., KURUOĞLU F., Yalçın Y., Erol A., SARCAN F., ŞAHİN A., ÇİÇEK A.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.55, no.22, 2022 (SCI-Expanded)
- II. **Ultrasonic Gas Sensing by Two-Dimensional Surface Phononic Crystal Ring Resonators**  
ÇİÇEK A., Trak D., ARSLAN Y., KÖRÖZLÜ N., KAYA O. A., ULUĞ B.  
ACS SENSORS, vol.4, no.7, pp.1761-1765, 2019 (SCI-Expanded)
- III. **Gas sensing through evanescent coupling of spoof surface acoustic waves**  
ÇİÇEK A., ARSLAN Y., Trak D., Okay F. C., KAYA O. A., KÖRÖZLÜ N., ULUĞ B.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.288, pp.259-265, 2019 (SCI-Expanded)
- 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, vol.143, no.2, pp.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, vol.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, vol.38, no.3, pp.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.  
ULTRASONICS, vol.65, pp.78-86, 2016 (SCI-Expanded)

- 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, vol.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.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.49, no.3, 2016 (SCI-Expanded)
- X. **Sharp bends of phononic crystal surface modes**  
Cicek A., Salman A., KAYA O. A., ULUĞ B.  
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.27, no.47, 2015 (SCI-Expanded)
- 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.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.48, no.25, 2015 (SCI-Expanded)
- 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, vol.48, no.23, 2015 (SCI-Expanded)
- XIII. **Role of irradiation in the green synthesis of silver nanoparticles mediated by fig (*Ficus carica*) leaf extract**  
ULUĞ B., TÜRKDEMİR M. H., Cicek A., METE A.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.135, pp.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, vol.203, pp.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.  
APPLIED PHYSICS B-LASERS AND OPTICS, vol.113, no.4, pp.619-626, 2013 (SCI-Expanded)
- XVI. **Acoustic waveguiding by pliable conduits with axial cross sections as linear waveguides in two-dimensional sonic crystals**  
Cicek A., KAYA O. A., ULUĞ B.  
JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, vol.134, no.5, pp.3613-3618, 2013 (SCI-Expanded)
- XVII. **Acoustic beam splitting in a sonic crystal around a directional band gap**  
Cicek A., KAYA O. A., ULUĞ B.  
CHINESE PHYSICS B, vol.22, no.11, 2013 (SCI-Expanded)
- XVIII. **Polarization-independent beam splitting by a photonic crystal right prism**  
Yücel M. B., Cicek A., Uluğ B.  
APPLIED PHYSICS B-LASERS AND OPTICS, vol.113, no.1, pp.107-114, 2013 (SCI-Expanded)
- XIX. **Polarization-independent unidirectional light transmission by an annular photonic crystal prism**  
Yucel M. B., Cicek A., Uluğ B.  
PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS, vol.11, no.3, pp.270-278, 2013 (SCI-Expanded)
- XX. **Surface plasmon resonance investigation procedure as a structure sensitive method for SnO<sub>2</sub> 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, vol.522, pp.452-456, 2012 (SCI-Expanded)
- XXI. **Self-collimated slow sound in sonic crystals**  
KAYA O. A., Cicek A., ULUĞ B.

- JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.45, no.36, 2012 (SCI-Expanded)
- XXII. **Refraction-based photonic crystal diode**  
Cicek A, Yücel M. B., Kaya O. A., Uluğ B.  
OPTICS LETTERS, vol.37, no.14, pp.2937-2939, 2012 (SCI-Expanded)
- XXIII. **Refraction-type sonic crystal junction diode**  
Cicek A., KAYA O. A., ULUĞ B.  
APPLIED PHYSICS LETTERS, vol.100, no.11, 2012 (SCI-Expanded)
- XXIV. **Slow sound propagation in a sonic crystal linear waveguide**  
Cicek A., KAYA O. A., Yilmaz M., ULUĞ B.  
JOURNAL OF APPLIED PHYSICS, vol.111, no.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, vol.73, no.1, pp.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.  
MATERIALS CHEMISTRY AND PHYSICS, vol.130, no.3, pp.1195-1202, 2011 (SCI-Expanded)
- XXVII. **Superprism effect in a deformed triangular sonic crystal**  
KAYA O. A., Cicek A., Yilmaz M., ULUĞ B.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.44, no.32, 2011 (SCI-Expanded)
- XXVIII. **Influence of high electron concentration on band gap and effective electron mass of InN**  
DÖNMEZ Ö., YILMAZ M., EROL A., ULUĞ B., ARIKAN M. C., ULUG A., AJAGUNNA A. O., ILIPOULOS E., GEORGAKILAS A.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.248, no.5, pp.1172-1175, 2011 (SCI-Expanded)
- XXIX. **Focusing with two-dimensional angular-symmetric circular acoustic lenses**  
KAYA O. A., Cicek A., ULUĞ B.  
ACOUSTICAL PHYSICS, vol.57, no.3, pp.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.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.44, no.20, 2011 (SCI-Expanded)
- 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.  
SEMICONDUCTORS, vol.45, no.3, pp.316-319, 2011 (SCI-Expanded)
- XXXII. **Luminescence properties of Ammonium Silicon Fluoride films prepared by vapour etching technique**  
YILMAZ M., Kabacelik I., Cicek A., Ulug A., ULUĞ B.  
THIN SOLID FILMS, vol.518, no.1, pp.49-54, 2009 (SCI-Expanded)
- XXXIII. **Polarization-independent waveguiding with annular photonic crystals**  
Cicek A., ULUĞ B.  
OPTICS EXPRESS, vol.17, no.20, pp.18381-18386, 2009 (SCI-Expanded)
- XXXIV. **Photoluminescence in n and p modulation-doped GaInNAs/GaAs quantum wells**  
YILMAZ M., Sun Y., Balkan N., ULUĞ B., Ulug A., Sopenan M., Reentila O., Mattila M., Fontaine C., Arnoult A.  
MICROELECTRONICS JOURNAL, vol.40, no.3, pp.406-409, 2009 (SCI-Expanded)
- XXXV. **Influence of Kerr nonlinearity on the band structures of two-dimensional photonic crystals**  
Cicek A., ULUĞ B.  
OPTICS COMMUNICATIONS, vol.281, no.14, pp.3924-3931, 2008 (SCI-Expanded)
- XXXVI. **Optical and electrical properties of modulation-doped n and p-type  $GaxIn_{1-x}NyAs_{1-y}/GaAs$  quantum wells for 1.3  $\mu m$  laser applications**  
Sun Y., EROL A., YILMAZ M., ARIKAN M. C., ULUĞ B., Ulug A., Balkan N., Sopenan M., Reentila O., Mattila M., et al.  
OPTICAL AND QUANTUM ELECTRONICS, vol.40, no.7, pp.467-474, 2008 (SCI-Expanded)
- XXXVII. **Further investigation on the formation mechanisms of  $(NH_4)_2SiF_6$  synthesized by dry etching**

## technique

Kabacelik I., ULUG B.

APPLIED SURFACE SCIENCE, vol.254, no.6, pp.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., Sopenan M., Reentila O., Mattila M., et al.  
PHYSICAL REVIEW B, vol.75, no.20, 2007 (SCI-Expanded)

XXXIX. **Conduction in  $Y(1-x)Sc(x)Ba(2)Cu(3)Oy$**

Ulug A., Ulug B., Adiguzel H.

ACTA PHYSICA SLOVACA, vol.55, no.2, pp.229-236, 2005 (SCI-Expanded)

XL. **Production of Ge heterofullerenes by arc-discharge technique**

YILMAZ M., Ulug B.

CROSS-DISCIPLINARY APPLIED RESEARCH IN MATERIALS SCIENCE AND TECHNOLOGY, vol.480, pp.449-452, 2005 (SCI-Expanded)

XLI. **Clustering in some randomly occupied two- and three-dimensional lattices**

Ulug A., Karakaplan M., Ulug B.

CANADIAN JOURNAL OF PHYSICS, vol.82, no.4, pp.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, vol.76, no.3, pp.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.

JOURNAL OF MATERIALS SCIENCE LETTERS, vol.19, no.7, pp.607-608, 2000 (SCI-Expanded)

XLIV. **Structure of C-60-aliphatic diamine adducts**

Ulug A., METE A., Ulug B.

FULLERENE SCIENCE AND TECHNOLOGY, vol.5, no.7, pp.1651-1658, 1997 (SCI-Expanded)

XLV. **Semiconductivity in  $YBa_{2-x}Sr_xCu_3O_y$**

Ulug A., Ulug B., Sener E.

JOURNAL OF APPLIED PHYSICS, vol.80, no.4, pp.2317-2320, 1996 (SCI-Expanded)

XLVI. **Synthesis of C-60-furfural adduct**

METE A., Ulug A., Ulug B.

FULLERENE SCIENCE AND TECHNOLOGY, vol.4, no.3, pp.457-466, 1996 (SCI-Expanded)

XLVII. **INFRARED-ABSORPTION IN THICK-FILM RESISTORS**

ULUG B., ULUG A., SENER E.

JOURNAL OF MATERIALS SCIENCE, vol.30, no.13, pp.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**

ULUG A., ULUG B., YAGBASAN R.

PHYSICA C, vol.235, pp.879-880, 1994 (SCI-Expanded)

XLIX. **THE IR-SPECTRA OF GLASS-CERAMIC  $Bi_2Sr_2Ca_2Cu_3O_{10+Y}$  SUPERCONDUCTOR SYSTEM**

ULUG B., YAKINCI M.

PHYSICA C, vol.235, pp.1021-1022, 1994 (SCI-Expanded)

L. **THE INFLUENCE OF CONDUCTOR PARTICLE-SIZE DISTRIBUTION ON THE BLENDING CURVE OF EPOXY-BASED THICK-FILM RESISTORS**

ULUG B., ROBERTSON J., EWEN P.

ELECTROCOMPONENT SCIENCE AND TECHNOLOGY, vol.10, no.4, pp.277-284, 1983 (SCI-Expanded)

## Articles Published in Other Journals

1. **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, vol.76, pp.12-17, 2010 (Peer-Reviewed Journal)

## **Refereed Congress / Symposium Publications in Proceedings**

- 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, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.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, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.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, Turkey, 4 - 08 September 2019, vol.1, pp.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.**  
ÇÖLKESEN P., Tumbul A., ULUĞ B., MUTLU İ. H.  
Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.193
- 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.**  
ÇÖLKESEN P., Tumbul A., ULUĞ B., MUTLU İ. H.  
Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.193
- VI. **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, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.345
- 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**  
ÇÖLKESEN P., Gökteş A., ULUĞ B., MUTLU İ. H.  
Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.345
- VIII. **Thermogravimetric Study of Nano- $SnO_2$  Precursors**  
Grinevych V. S., Filevska L. M., Savin S. M., Smyntyna V. A., ULUĞ B.  
4th International Research and Practice Conference on Nanotechnology and Nanomaterials (NANO), Lviv, Ukraine, 24 - 27 August 2016, vol.195, pp.53-61
- IX. **Coupled Surface Waves in Linear Defect Photonic Crystal Waveguides**  
Yücel M. B., Çiçek A., Kaya O. A., Uluğ B.  
9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.458
- X. **Fotonik kristal diyotlar**  
Cicek A., Yücel M. B., Kaya O. A., Uluğ B.

Naci Balkan'ın 60. Doğum Günü Onuruna Balkan's Fest-Düşük Boyutlu Yarıiletken Sistemler Çalıştayı, İstanbul, Turkey, 15 April 2013, pp.9

- XI. **Photonic crystal-based electromagnetic wave splitter**  
Yücel M. B., Kaya O. A., Cicek A., Uluğ B.  
Türk Fizik Derneği 29. Uluslararası Fizik Kongresi, Muğla, Turkey, 5 - 08 September 2012, pp.659
- XII. **Polarization-independent unidirectional light transmission by a photonic crystal prism**  
Cicek A., Yücel M. B., Uluğ B.  
Türk Fizik Derneği 29. Uluslararası Fizik Kongresi, Muğla, Turkey, 5 - 08 September 2012, pp.557
- XIII. **Polarization-independent unidirectional light transmission by a photonic crystal prism**  
ULUĞ B.  
Türk Fizik Derneği 29. Uluslararası Fizik Kongresi, Muğla, Turkey, 5 - 08 September 2012, pp.557
- XIV. **Unidirectional light transmission through refractions across photonic-crystal junction**  
Cicek A., Yücel M. B., Kaya O. A., Uluğ B.  
12th International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD 2012), Shanghai, China, 28 - 31 August 2012, pp.1-2
- XV. **Polarization-Independent Self-Collimated Beam Splitting in Two-Dimensional Photonic Crystals**  
Yücel M. B., Kaya O. A., Cicek A., Uluğ B.  
12th International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD), Shanghai, China, 28 - 31 August 2012, pp.41-42
- XVI. **A Study of Optical and Electrical Properties of In-rich In<sub>1-x</sub>Ga<sub>x</sub>N**  
Gunes M., Balkan N., YILMAZ M., ULUĞ B., Uluğ A., Schaff W. J.  
International Commission for Optics Topical Meeting, Delhi, Canada, 7 - 09 October 2009, vol.1288, pp.178-180
- XVII. **Surface plasmons resonance in nanostructured Tin Dioxide films**  
ULUĞ B.  
ECASIA'09-13th European Conference on Applications of Surface and Interface Analysis, Antalya, Turkey, 18 - 23 October 2009, pp.170
- XVIII. **Surface plasmons resonance in nanostructured Tin Dioxide films**  
Grinevich V. S., Uluğ B., Serdega B. K., Smyntyna V. A., Uluğ A., Matyash I. E., Filevskaya L. N., Rudenko S. P., Maximenko L. S., Yücel M. B.  
ECASIA'09-13th European Conference on Applications of Surface and Interface Analysis, Antalya, Turkey, 18 - 23 October 2009, pp.170
- XIX. **Polarization-Insensitive Linear Waveguiding with Annular Photonic Crystals**  
Cicek A., ULUĞ B.  
9th International Conference on Numerical Simulation of Optoelectronic Devices, Gwangju, South Korea, 14 - 17 September 2009, pp.29-30
- XX. **Slow Light Propagation in Annular Photonic Crystal Linear Waveguides**  
Cicek A., ULUĞ B., Uluğ A.  
9th International Conference on Numerical Simulation of Optoelectronic Devices, Gwangju, South Korea, 14 - 17 September 2009, pp.23-24
- XXI. **Modifications in the band structure of a 2-dimensional Kerr-nonlinear photonic crystals**  
Cicek A., ULUĞ B.  
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.241-242
- XXII. **Time-resolved photoluminescence and steady-state optical studies of GaInNAs and GaInAs single quantum wells**  
Sun Y., LOMBEZ L., BRAUN P. F., ULUĞ B., Uluğ A., YILMAZ M., Balkan N., MARIE X., CARRERE H., Arnoult A.  
International Conference on Superlattices, Nano-Structures and Nano-Devices, İstanbul, Turkey, 30 July - 04 August 2006, vol.4, pp.667-668
- XXIII. **Temperature dependent PL properties of ASF structures prepared by vapour etching technique**  
Kabacelik I., Yilmaz M., ULUĞ B.  
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.610

## **Supported Projects**

ULUĞ B., TUBITAK Project, "Fononik Kristal Halka Çınlaçlarına Dayalı Çoklu Gaz Algılayıcılarının Tasarımı Ve Gerçekleştirilmesi, 2017 - Continues

## **Metrics**

Publication: 76

Citation (WoS): 594

Citation (Scopus): 657

H-Index (WoS): 11

H-Index (Scopus): 13

## **Congress and Symposium Activities**

32nd International Physics Congress, Session Moderator, Muğla, Turkey, 2016

## **Awards**

ULUĞ B., V. Bilgilendirme ve AR-GE Günleri Poster 2.lik Ödülü, Uludağ Üniversitesi, March 2016