

Prof. Emre GÜR

Personal Information

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International Researcher IDs

ScholarID: IJPsQmoAAAAJ

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Education Information

Doctorate, Ataturk University, Fen Bilimleri , Fizik, Turkey 2003 - 2007

Postgraduate, Ataturk University, Fen Blimelri Enstitsü, Fizik, Turkey 2001 - 2003

Undergraduate, Middle East Technical University, Fen Fakültes, Fizik, Turkey 1993 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, II-VI Bileşik Yarıiletken Çinko Oksitte Nokta Kusurların Elektriksel İletkenliğe Etkileri, Atatürk Üniversitesi, Fen Fakültesi, Fizik, 2007

Postgraduate, Çinko Oksit Yarıiletkeninin Yapısal, Optik ve Elektriksel Karakterizasyon Teknikleriyle İncelenmesi , Atatürk Üniversitesi, Fen Fakültesi, Fizik, 2003

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, Natural Sciences

Academic Titles / Tasks

Professor, Ataturk University, Fen Fakültesi, Fizik, 2018 - Continues

Associate Professor, Ataturk University, Fen Fakültesi, Fizik, 2013 - 2018

Assistant Professor, Ataturk University, Fen Fakültesi, Fizik, 2007 - 2013

Research Assistant, Ataturk University, Fen Fakültesi, Fizik, 2001 - 2007

Academic and Administrative Experience

Assistant Director of the Institute, Ataturk University, Fen Fakültesi, Fizik, 2021 - Continues
Enstitü Yönetim Kurulu Üyesi, Ataturk University, Fen Fakültesi, Fizik, 2021 - Continues
Performans Değerlendirme Komisyonu Üyesi, Ataturk University, Fen Fakültesi, Fizik, 2021 - Continues
Performans Değerlendirme Komisyonu Başkanı, Ataturk University, Fen Bilimleri Enstitüsü, 2021 - Continues
Assistant Manager of Research and Application Center, Ataturk University, Fen Fakültesi, Fizik, 2020 - Continues
Bölüm Akademik Teşvik Değerlendirme Komisyonu Başkanı, Ataturk University, Fen Bilimleri Enstitüsü, 2020 - Continues
Rectorate Commissioner, Ataturk University, Fen Fakültesi, Fizik, 2020 - Continues
Rectorate Commissioner, Ataturk University, Fen Fakültesi, Fizik, 2020 - Continues
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Ataturk University, Fen Fakültesi, Fizik, 2020 - Continues
Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Ataturk University, Fen Fakültesi, Fizik, 2021 - 2022
Atatürk Üniversitesi, Daytam, 2015 - 2018

Courses

Nanofizik, Undergraduate, 2021 - 2022
Optik, Undergraduate, 2020 - 2021, 2019 - 2020
Mekanik Laboratuvarı, Undergraduate, 2020 - 2021
Nanoscience and Nanotechnology, Postgraduate, 2020 - 2021
Optik ve Uygulamaları, Undergraduate, 2020 - 2021
Yarıiletken Aygıtlar, Postgraduate, 2021 - 2022
Nanosicence and Nanotechnoplogy, Postgraduate, 2021 - 2022
Yarıiletken Aygıt Fiziği, Undergraduate, 2020 - 2021
Wide Bandgap Semiconductors, Doctorate, 2019 - 2020
Semiconductor Physics, Undergraduate, 2020 - 2021

Advising Theses

Gür E., RF saçırma yöntemi ile büyütülen GaN filmlerinde AlN tampon varlığının incelenmesi, Postgraduate,
A.COŞKUN(Student), 2019

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Atatürk Üniversitesi, May, 2020
Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, March, 2020

Designed Courses And Trainings

Gür E., Yüzey ve Ötesi, November 2021
Gür E., BİLİMSEL ARAŞTIRMALARDA X - İ Ş İ N L A R I A N A L İ Z T E K N İ K L E R İ - I I I, April 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- Layered Transition Metal Sulfides for Supercapacitor Applications**
ÖZTÜRK O., Gur E.
CHEMELECTROCHEM, vol.11, no.11, 2024 (SCI-Expanded)
- Experimental and theoretical insights on the structural and optical properties of GeOx thin films deposited via RF magnetron sputtering under varying oxygen percentage**

Tuzemen E. S., Hopoglu H., SARITAŞ S., AYDINOĞLU H. S., ERTUĞRUL M., Maslov M. M., KAYA S., UNGAN F., Gur E.
PHYSICA B-CONDENSED MATTER, vol.650, 2023 (SCI-Expanded)

- III. **Comprehensive growth and characterization study of GeO_x/Si**
Baghdedi D., Hopoglu H., SARITAŞ S., DEMİR İ., ALTUNTAŞ İ., Abdelmoula N., Gur E., Tuzemen E. S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1274, 2023 (SCI-Expanded)
- IV. **Investigating the influence of Ni doping on the CuO thin films deposited via ultrasonic spray pyrolysis: Structural, optical and H₂ gas sensing analyses**
Güldüren M. E., İSKENDERÖĞLU D., GÜNEY H., GÜR E., ACAR M., MORKOÇ KARADENİZ S.
International Journal of Hydrogen Energy, vol.48, no.2, pp.828-839, 2023 (SCI-Expanded)
- V. **In-situ controlled oxidation of sputtered WS₂ nano-walls for high-performance WO₃ electrochromic devices**
Habashyani S., Mobtakeri S., GÜR E.
Electrochimica Acta, vol.437, 2023 (SCI-Expanded)
- VI. **Transfer-free, scalable vertical heterostructure FET on MoS₂/WS₂ continuous films**
ACAR M., ERTUĞRUL M., GÜR E.
NANOTECHNOLOGY, vol.33, no.47, 2022 (SCI-Expanded)
- VII. **High optical response NiO, Pd/NiO and Pd/WO₃ hydrogen sensors**
ÇOBAN Ö., Tekmen S., GÜR E., TÜZEMEN S.
International Journal of Hydrogen Energy, vol.47, no.60, pp.25454-25464, 2022 (SCI-Expanded)
- VIII. **Highly Responsive Pd-Decorated MoO₃ Nanowall H-2 Gas Sensors Obtained from In-Situ-Controlled Thermal Oxidation of Sputtered MoS₂ Films**
Mobtakeri S., Habashyani S., GÜR E.
ACS APPLIED MATERIALS & INTERFACES, vol.14, no.22, pp.25741-25752, 2022 (SCI-Expanded)
- IX. **Efficient CdS quantum dot sensitized solar cells based on electrochemically reduced graphene oxide (ERGO)/ZnO nanowall photoanodes and MoS₂, WS₂, CuS cascaded counter electrodes**
Eryigit M., Mobtakeri S., Gur E. P., Temur E., ÖZNÜLÜER ÖZER T., DEMİR Ü., GÜR E.
SOLAR ENERGY, vol.234, pp.348-359, 2022 (SCI-Expanded)
- X. **Solution-Processable Growth and Characterization of Dandelion-like ZnO:B Microflower Structures**
Erat S., Braun A., ÇETİNKAYA S., Yildirimcan S., KASAPOĞLU A. E., Guer E., Harputlu E., OCAKOĞLU K.
CRYSTALS, vol.12, no.1, 2022 (SCI-Expanded)
- XI. **Ultra-conductive wires with cascaded carbon nanotube/Cu structure**
Ozmen A., Mobtakeri S., Kocak Y., Akbaba U., Ertugrul M., Gur E.
DIAMOND AND RELATED MATERIALS, vol.120, 2021 (SCI-Expanded)
- XII. **Characterization of multilayer Al doping in ZnO**
Şenadım Tüzemen E., Merhan Muğlu G., Alaydin B. Ö., Altun D., Cetin S. K., Gur E.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.57, pp.1039-1047, 2021 (SCI-Expanded)
- XIII. **Production of novel carbon nanostructures by electrochemical reduction of polychlorinated organic rings under mild conditions for supercapacitors**
Kudas Z., Çepni E., Gur E., Ekinci D.
NEW JOURNAL OF CHEMISTRY, vol.45, no.32, pp.14765-14778, 2021 (SCI-Expanded)
- XIV. **Influence of the PALE growth temperature on quality of MOVPE grown AlN/Si (111)**
Altuntaş İ., Kocak M. N., Yolcu G., Budak H. F., Kasapoğlu A. E., Horoz S., Gur E., Demir İ.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.127, 2021 (SCI-Expanded)
- XV. **The effect of the change in the amount of Sb doping in ZnO nanorods for hydrogen gas sensors**
Kasapoğlu A. E., Habashyani S., Baltakesmez A., İskenderoğlu D., Gur E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.41, 2021 (SCI-Expanded)
- XVI. **Photoluminescence and structural properties of zirconium dioxide thin films produced by RF sputtering technique**
Bakacak P. K., Gur E., Bayram Ö., Tüzemen S., Simsek Ö.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.6, pp.7541-7549, 2021 (SCI-Expanded)

- XVII. **Gallium oxide films deposition by RF magnetron sputtering; a detailed analysis on the effects of deposition pressure and sputtering power and annealing**
Mobtakeri S., Akaltun Y., Özer A., Kilic M., Şenadım Tüzemen E., Gür E.
CERAMICS INTERNATIONAL, vol.47, no.2, pp.1721-1727, 2021 (SCI-Expanded)
- XVIII. **Single-step, large-area, variable thickness sputtered WS₂ film-based field effect transistors**
Acar M., Mobtakeri S., Efeoğlu H., Ertuğrul M., Gür E.
CERAMICS INTERNATIONAL, vol.46, no.17, pp.26854-26860, 2020 (SCI-Expanded)
- XIX. **Influences of thickness and temperature of low temperature GaAs buffer layer on two-step MOVPE grown GaAs/Ge heterostructures**
Demir İ., Kasapoğlu A. E., Budak H. F., Gür E., Elagöz S.
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol.90, no.2, 2020 (SCI-Expanded)
- XX. **Growth Control of WS₂: From 2D Layer by Layer to 3D Vertical Standing Nanowalls**
Kocak Y., Gür E.
ACS APPLIED MATERIALS & INTERFACES, vol.12, no.13, pp.15785-15792, 2020 (SCI-Expanded)
- XXI. **X-ray photoelectron spectroscopy (XPS) and gamma-ray shielding investigation of boro-silicate glasses contained alkali/alkaline modifier**
Kaky K. M., ŞAKAR E., Akbaba U., KASAPOĞLU A. E., Sayyed M. I., GÜR E., Baki S. O., Mahdi M. A.
RESULTS IN PHYSICS, vol.14, 2019 (SCI-Expanded)
- XXII. **AlGa_N/AlN MOVPE heteroepitaxy: pulsed co-doping SiH₄ and TMIn**
DEMİR İ., KOÇAK Y., KASAPOĞLU A. E., Razeghi M., GÜR E., Elagoz S.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.34, no.7, 2019 (SCI-Expanded)
- XXIII. **Distributed contact flip chip InGa_N/Ga_N blue LED; comparison with conventional LEDs**
GENÇ M., Sheremet V., Elci M., KASAPOĞLU A. E., ALTUNTAŞ İ., DEMİR İ., EĞİN G., Islamoglu S., GÜR E., MUZAFFEROĞLU N., et al.
SUPERLATTICES AND MICROSTRUCTURES, vol.128, pp.9-13, 2019 (SCI-Expanded)
- XXIV. **Formation of carbon nanowalls by pulsed filtered cathodic vacuum arc deposition**
ŞENADIM TÜZEMEN E., Kilic M., Zeyrek B. K., KASAPOĞLU A. E., GÜR E., ALAYDİN B. Ö., ESEN M., ESEN R.
Diamond and Related Materials, vol.93, pp.200-207, 2019 (SCI-Expanded)
- XXV. **Valance band properties of MgZnO thin films with increasing Mg content; Phase separation effects**
İSKENDEROĞLU D., Kasapoglu E., GÜR E.
Materials Research Express, vol.6, no.3, 2019 (SCI-Expanded)
- XXVI. **Single, co-doping and triple doping Fe element in the ZnO crystal matrices**
FİDAN M., İSKENDEROĞLU D., Koçak Y., GÜR E.
MATERIALS RESEARCH EXPRESS, vol.6, no.4, pp.1-11, 2019 (SCI-Expanded)
- XXVII. **Microstructural Evolution of MOVPE Grown GaN by the Carrier Gas**
DEMİR İ., ALTUNTAŞ İ., KASAPOĞLU A. E., MOBTAKERİ S., Guer E., Elagoz S.
SEMICONDUCTORS, vol.52, no.16, pp.2030-2038, 2018 (SCI-Expanded)
- XXVIII. **Gamma and neutron irradiation effects on multi-walled carbon nanotubes**
Akbaba U., KASAPOĞLU A. E., GÜR E.
DIAMOND AND RELATED MATERIALS, vol.87, pp.242-247, 2018 (SCI-Expanded)
- XXIX. **Growth and characterization of InGa_N thin films on Si (111) substrate by RF magnetron sputtering: N₂ gas flow effect**
ERDOĞAN E., KUNDAKÇI M., KASAPOĞLU A. E., GÜR E.
American Journal Of Physics, 2018 (SCI-Expanded)
- XXX. **Synthesis of Graphene-like Films by Electrochemical Reduction of Polyhalogenated Aromatic Compounds and their Electrochemical Capacitor Applications**
Kudas Z., Gür E., Ekinci D.
Langmuir, vol.34, no.27, pp.7958-7970, 2018 (SCI-Expanded)
- XXXI. **Stress evolution of Ge nanocrystals in dielectric matrices**
Bahariqushchi R., RACİTİ R., Kasapoglu A. E., Gur E., Sezen M., Kalay E., MİRABELLA S., AYDINLI A.
NANOTECHNOLOGY, vol.29, no.18, 2018 (SCI-Expanded)

- XXXII. **Oxygen partial pressure effects on the RF sputtered p-type NiO hydrogen gas sensors**
Turgut E., Çoban Ö., Sarıtaş S., Tüzemen S., Yıldırım M., Gür E.
Applied Surface Science, vol.435, pp.880-885, 2018 (SCI-Expanded)
- XXXIII. **Effects of gold nanoparticles on the growth of ZnO thin films and p-Si/ZnO heterostructures**
Baltakesmez A., YENİSOY A., TÜZEMEN S., GÜR E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.74, pp.249-254, 2018 (SCI-Expanded)
- XXXIV. **The effects of two-stage HT-GaN growth with different V/III ratios during 3D-2D transition**
ALTUNTAŞ İ., DEMİR İ., KASAPOĞLU A. E., MOBTAKERİ S., GÜR E., Elagoz S.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.51, no.3, 2018 (SCI-Expanded)
- XXXV. **Interfacial engineering of CuO nanorod/ZnO nanowire hybrid nanostructure photoanode in dye-sensitized solar cell**
Kilic B., Turkdogan S., ASTAM A., Baran S. S., Asgin M., GÜR E., KOÇAK Y.
JOURNAL OF NANOPARTICLE RESEARCH, vol.20, no.1, 2018 (SCI-Expanded)
- XXXVI. **Synthesis and characterization of p-GaSe thin films and the analyses of I-V and C-V measurements of p-GaSe/p-Si heterojunction under electron irradiation**
ÇINAR DEMİR K., AYDOĞAN Ş., GÜR E., COŞKUN C., AYGÜN Z.
Radiation Effects And Defects In Solids, vol.172, pp.650-663, 2017 (SCI-Expanded)
- XXXVII. **Deep level defects in N-rich and In-rich In_xGa_{1-x}N: in composition dependence**
GÜR E., Akyol F., Krishnamoorthy S., Rajan S., Ringel S. A.
SUPERLATTICES AND MICROSTRUCTURES, vol.99, pp.67-71, 2016 (SCI-Expanded)
- XXXVIII. **Impurity-free quantum well intermixing for large optical cavity high-power laser diode structures**
Kahraman A., GÜR E., Aydinli A.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.31, no.8, 2016 (SCI-Expanded)
- XXXIX. **Band gap engineering and modifying surface of TiO₂ nanostructures by Fe₂O₃ for enhanced-performance of dye sensitized solar cell**
Kilic B., Gedik N., Mucur S. P., Hergul A. S., GÜR E.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.31, pp.363-371, 2015 (SCI-Expanded)
- XL. **Deep levels in a-plane, high Mg-content Mg_xZn_{1-x}O epitaxial layers grown by molecular beam epitaxy**
Gur E., TABARES G., Arehart A., CHAUVEAU J. M., HIERRO A., Ringel S. A.
JOURNAL OF APPLIED PHYSICS, vol.112, no.12, 2012 (SCI-Expanded)
- XLI. **Nanoporous ZnO Photoelectrode for Dye-Sensitized Solar Cell**
Kilic B., GÜR E., TÜZEMEN S.
JOURNAL OF NANOMATERIALS, 2012 (SCI-Expanded)
- XLII. **Detailed characterization of deep level defects in InGaN Schottky diodes by optical and thermal deep level spectroscopies**
Gur E., ZHANG Z., KRISHNAMOORTY S., RAJAN S., RINGEL S. A.
APPLIED PHYSICS LETTERS, vol.99, no.9, 2011 (SCI-Expanded)
- XLIII. **N-Polar III-Nitride Green (540 nm) Light Emitting Diode**
Akyol F., Nath D. N., Gur E., Park P. S., Rajan S.
JAPANESE JOURNAL OF APPLIED PHYSICS, vol.50, no.5, 2011 (SCI-Expanded)
- XLIV. **Growth model for plasma-assisted molecular beam epitaxy of N-polar and Ga-polar In_xGa_{1-x}N**
Nath D. N., Guer E., Ringel S. A., Rajan S.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, vol.29, no.2, 2011 (SCI-Expanded)
- XLV. **Molecular beam epitaxy of N-polar InGaN**
Nath D. N., Gur E., Ringel S. A., Rajan S.
APPLIED PHYSICS LETTERS, vol.97, no.7, 2010 (SCI-Expanded)
- XLVI. **Structural, optical, and electrical properties of n-ZnO/p-GaAs heterojunction**
TEKMEN S., GÜR E., ASIL H., CINAR K., COSKUN C., TÜZEMEN S.
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.207, no.6, pp.1464-1467, 2010 (SCI-Expanded)

- XLVII. The effect of the electron irradiation on the series resistance of Au/Ni/6H-SiC and Au/Ni/4H-SiC Schottky contacts**
Cinar K, COSKUN C., AYDOĞAN Ş., ASIL H., GÜR E.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.268, no.6, pp.616-621, 2010 (SCI-Expanded)
- XLVIII. Nanoporous structures on ZnO thin films**
GÜR E., KILIC B., COSKUN C., TÜZEMEN S., BAYRAKCEKEN F.
SUPERLATTICES AND MICROSTRUCTURES, vol.47, no.1, pp.182-186, 2010 (SCI-Expanded)
- XLIX. Temperature dependent capacitance and DLTS studies of Ni/n-type 6H-SiC Schottky diode**
DUMAN S., GÜR E., Dogan S., TÜZEMEN S.
CURRENT APPLIED PHYSICS, vol.9, no.6, pp.1181-1185, 2009 (SCI-Expanded)
- L. Oxygen effects on radiation hardness of ZnO thin films**
Gür E., Asil H., Cinar K., Coskun C., Tüzemen S., Meral K., Onganer Y., Şerifoğlu K.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, vol.27, no.5, pp.2232-2237, 2009 (SCI-Expanded)
- LI. Electrochemical growth of n-ZnO onto the p-type GaN substrate: p-n heterojunction characteristics**
ASIL H., GÜR E., CINAR K., COSKUN C.
APPLIED PHYSICS LETTERS, vol.94, no.25, 2009 (SCI-Expanded)
- LII. Oxygen deficiency effects on recombination lifetime and photoluminescence characteristics of ZnO thin films; correlation with crystal structure**
GÜR E., TÜZEMEN S., Meral K., ONGANER Y.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.94, no.3, pp.549-554, 2009 (SCI-Expanded)
- LIII. Temperature-dependent electrical characterization of nitrogen-doped ZnO thin film: vacuum annealing effect**
GÜR E., TÜZEMEN S., DOĞAN S.
PHYSICA SCRIPTA, vol.79, no.3, 2009 (SCI-Expanded)
- LIV. Determination of the transport mechanisms in mixed conduction of reactively sputtered ZnO thin films**
TÜZEMEN S., GÜR E., DOĞAN S.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.41, no.13, 2008 (SCI-Expanded)
- LV. High energy electron irradiation effects on electrical properties of Au n ZnO Schottky diodes**
GÜR E., COŞKUN C., TÜZEMEN S.
Journal Of Physics D-Applied Physics, vol.41, pp.105301, 2008 (SCI-Expanded)
- LVI. Optical and structural properties of ZnO thin films; effects of high energy electron irradiation and annealing**
Gür E., Asil H., Coskun C., Tüzemen S., Meral K., Onganer Y., Şerifoğlu K.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.266, no.9, pp.2021-2026, 2008 (SCI-Expanded)
- LVII. Principal issues in producing new ultraviolet light emitters based on transparent semiconductor zinc oxide**
TUZEMEN S., Gur E.
OPTICAL MATERIALS, vol.30, no.2, pp.292-310, 2007 (SCI-Expanded)
- LVIII. High-temperature Schottky diode characteristics of bulk ZnO**
Gur E., TUZEMEN S., KILIC B., COSKUN C.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.19, no.19, 2007 (SCI-Expanded)
- LIX. An investigation of control mechanisms of the excitonic behavior in reactively sputtered ZnO on (0001) Al₂O₃**
TUZEMEN S., Gur E., YILDIRIM T., XIONG G., WILLIAMS R. T.
JOURNAL OF APPLIED PHYSICS, vol.100, no.10, 2006 (SCI-Expanded)
- LX. Wide-bandgap modification of polycrystalline ZnO using Sn component on the basis of developing quantum-well hetero-structure**
YILDIRIM T., Gur E., Tuzemen S., BİLGİN V., KÖSE S., ATAY F., AKYÜZ İ.

Articles Published in Other Journals

- I. **PHOTOCONDUCTIVITY OF CARBON NANOTUBES**
Mammadov A., Abaszade R., Kotsyubynsky V., GÜR E., Bayramov I., Khanmamadova E., Kapush O.
International Journal on Technical and Physical Problems of Engineering, vol.14, no.3, pp.155-160, 2022 (Scopus)
- II. **MODELING OF VOLTAGE-AMPERE CHARACTERISTIC STRUCTURES ON THE BASIS OF GRAPHENE OXIDE/SULFUR COMPOUNDS**
Abaszade R., Mammadov A., Kotsyubynsky V., GÜR E., Bayramov I., Khanmamadova E., Kapush O.
International Journal on Technical and Physical Problems of Engineering, vol.14, no.2, pp.302-306, 2022 (Scopus)
- III. **Platinum activated WO₃ optical hydrogen sensors**
Çoban Ö., Gür E., Tüzemen S.
Materials Today: Proceeding, vol.46, pp.6913-6915, 2021 (Peer-Reviewed Journal)
- IV. **Sputtered 2D transition metal dichalcogenides: from growth to device applications**
Acar M., Gür E.
TURKISH JOURNAL OF PHYSICS, vol.45, no.3, pp.131-147, 2021 (ESCI)
- V. **Fabrication and Analysis Of 2D/3D Heterojunction Between Continuous Few-layer WS₂ Film and Si (100)**
Acar M., Ertuğrul M., Gür E., Mobtakery S.
Hittite Journal of Science & Engineering, vol.8, no.1, pp.1-5, 2021 (Peer-Reviewed Journal)
- VI. **Characterization of Gallium Oxide/glass thin films grown by RF magnetron sputtering**
Mobtakery S., ŞENADİM TÜZEMEN E., ÖZER A., GÜR E.
Cumhuriyet Science Journal, vol.41, no.4, pp.929-937, 2020 (Peer-Reviewed Journal)
- VII. **p-Si(100)/InGaN thin film structure and investigation of its physical properties: N₂ gas flow effect**
ERDOĞAN E., kundakçı M., KASAPÖĞLU A. E., GÜR E.
Materials Today: Proceedings, vol.18, pp.1868-1874, 2019 (Peer-Reviewed Journal)
- VIII. **Temperature dependent current voltage characteristics of electrodeposited p ZnO n Si heterojunction**
ASIL UĞURLU H., ÇINAR DEMİR K., GÜR E., COŞKUN C., TÜZEMEN S.
International Journal of Physical Sciences, vol.8, pp.371-379, 2013 (Peer-Reviewed Journal)
- IX. **Effective Annealing of ZnO Thin Films Grown by Electrochemical Deposition Technique**
COŞKUN C., GÜNEY H., GÜR E., TÜZEMEN S.
Tukish Journal of Physics, vol.33, pp.49-56, 2009 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Defects in III-V Nitride Materials and Devices**
Gür E.
4th International Symposium on Advanced Materials and Nanotechnology, Kuala-Lumpur, Malaysia, 1 - 03 December 2020, pp.1-6
- II. **RF magnetron sığratma yöntemi kullanılarak Bi₂O₃ ince film büyütmede alttaş ve güç değişikliğinin filmlerin yapısal özelliklerine etkisi**
Nagehan Ş., AKALTUN Y., GÜR E., SARITAŞ S.
2nd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2020, Gaziantep, Turkey, 7 - 09 October 2020, pp.1064-1069
- III. **PECVD grown SiN photonic crystal micro-domes for the light extraction enhancement of GaN LEDs**
Genc M., Sheremet V., Altuntas I., Demir I., Gür E., Elagoz S., Gulseren O., Ozgur U., Avrutin V., Morkoc H., et al.
Conference on Gallium Nitride Materials and Devices XV, San-Francisco, Costa Rica, 4 - 06 February 2020,

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Activities in Scientific Journals

Nanoera, Committee Member, 2021 - Continues

Gazi Üniversitesi Fen Fakültesi Dergisi, Advisory Committee Member, 2021 - Continues

Journal of Anatolian Physics and Astrophysics, Advisory Committee Member, 2021 - Continues

Turkish Journal of Physics, Committee Member, 2020 - Continues

Memberships / Tasks in Scientific Organizations

Türk Fizik Derneği, Member, 2015 - Continues, United States Of America

Scientific Refereeing

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Scientific Consultations

SVTA Associates, Scientific Consultancy, Ataturk University, Fen Fakültesi, Fizik, Turkey, 2021 - Continues

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Tasks In Event Organizations

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Kalecik S., Sarıtař S., Kılıç D., Ünver Y., Niřancı B., Toraman E., Ömerođlu M. A., Orak T., Tař S., Levet A., et al., 1st International Symposium On Recent Advances In Fundamental And Applied Sciences (Isfas-2021), Scientific Congress, Erzurum, Turkey, Eylül 2021

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Congress and Symposium Activities

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2nd International Symposium on Applied Sciences and Engineering (ISASE2021), Session Moderator, Erzurum, Turkey, 2021

Non Academic Experience

University, Sivas Cumhuriyet Üniversitesi, Nanofotonik Arařtırma ve Uygulama Merkezi