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Eğitim Bilgileri

Doktora, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Türkiye 1990 - 1994

Yüksek Lisans, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Türkiye 1988 - 1990

Lisans, Atatürk Üniversitesi, Kâzım Karabekir Eğitim Fakültesi, Türkiye 1982 - 1986

Araştırma Alanları

Mühendislik ve Teknoloji

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Exploring the influence of Zn impurities on the structural, optical, and H₂ sensor properties of ultrasonic spray pyrolysis-grown MgO thin films**
SAĞLAM H. K., İSKENDEROĞLU D., Güldüren M. E., GÜNEY H., SARITAŞ S., ERTUĞRUL M.
Optik, cilt.315, 2024 (SCI-Expanded)
- II. **Physical properties of Cu₂ZnSnS₄ absorber layer deposited by spray pyrolysis: Effect of the temperature associated with SCAPS 1D simulation**
Smairi S., Hartiti B., Batan A., Ziti A., Nkuissi H. J. T., Rachidy C., Benali H., Keles S., Thevenin P., ERTUĞRUL M.
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- III. **Na-doped ZnO thin film by USP method for amperometric detection of Alura Red (E129) azo dye**
Topal M. B., SAĞLAM H. K., ERTUĞRUL M., TAŞĞIN E., NADAROĞLU H.
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- IV. **Working Voltage Switching the Photo-/Thermo-Electric Effect for Distinct Ultraviolet and Infrared Signal Detection**
Liu S., Ding Y., Rong W., Xu Y., Li Y., Onwudiwe D. C., Bae B. S., ERTUĞRUL M., Zhu Y., Wu Z., et al.
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- V. **Core-Shell Plasmonic Nanostructures for Hyperthermia of Cancer and Tumor Cells**
Rajabpour V., Abbasian K., ERTUĞRUL M.
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- VI. **Dual narrowband photodetectors based on halide perovskite single crystal heterojunctions with solution-processed epitaxial growth**

Zhang D., Pan Y., Wang X., Wei Z., Xu Y., Onwudiwe D. C., Bae B. S., ERTUĞRUL M., Zhou J., Xu X., et al.
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- VII. **Graphene/Al₂O₃/Si Schottky diode with integrated waveguide on a silicon-on-insulator wafer**
Seven E., ORHAN E., Di Bartolomeo A., ERTUĞRUL M., Taştekin N. A.
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- VIII. **Investigation of hybrid wires combining superconductive MgB₂ and ultra-conductive Graphene/Cu sheath**
Karaboga F., Farhangmehr M., Özmen A., Yetis H., Belenli I., ERTUĞRUL M.
Journal of Alloys and Compounds, cilt.973, 2024 (SCI-Expanded)
- IX. **Photoluminescence enhancement of chemical vapor-deposited MoSe₂ monolayers**
KOPAR A. S., Coşkun A., Çağlar M., ERTUĞRUL M., Turgut G.
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- X. **A Study of Nanostructured FeO Thin Film-Based Allure Red and Direct Blue 15 Azo Dyes Sensing Scheme**
Gunduz S., Alaylı A., GÜNEY H., ÇOBAN Ö., ERTUĞRUL M., NADAROĞLU H.
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- XI. **Substance discrimination imaging derived from switchable soft and hard x-ray sensing in direct x-ray detector**
Zhao J., Wang X., Li Y., Cheng Q., Onwudiwe D. C., Bae B. S., ERTUĞRUL M., Zhu Y., Lei W., Xu X.
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- XII. **Rational design of MXene/Boron Carbon Nitride nanotube composite electrode for supercapacitors with improved electrochemical properties**
TUZLUCA YEŞİLBAĞ F. N., YEŞİLBAĞ Y. Ö., Huseyin A., Salih A. J. S., Ertugrul M.
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- XIII. **Analyses of Cu impurity effects on the USP grown MgO thin films: Structural, optical and photocatalytic assessments**
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- XIV. **Ta₄C₃ MXene-based clover-shaped patch antenna for the treatment of lung cancer with TWA**
GEYİKOĞLU M. D., Ertugrul M.
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- XV. **Elaboration and characterization of quaternary material Cu₂ZnSnS₄ by spray pyrolysis technique using Taguchi method**
Salma S., Hartiti B., Ziti A., Nkuissi H. J. T., Benali H., Aykut Y., Fadili S., Thevenin P., Ertugrul M.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.129, sa.9, 2023 (SCI-Expanded)
- XVI. **Extraction Method for Unique Determination of Complex Permittivity from Graphical Analysis of Natural Frequencies**
Hasar U. C., ÖZTÜRK G., Kaya Y., Alfaqawi M. S. S., Barroso J. J., ERTUĞRUL M., Ramahi O. M.
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- XVII. **Enhancing radar absorption performance of Sr-hexaferrite by hybridization with coiled carbon nanotubes via chemical vapour deposition method**
Zulkimi M. M. M., Azis R. S., Ismail I., Mokhtar N., Ertugrul M., Hamidon M. N., Hasan I. H., YEŞİLBAĞ Y. Ö., TUZLUCA YEŞİLBAĞ F. N., ÖZTÜRK G., et al.
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- XVIII. **An efficient cost effective wide-angle metasurface-based linear and circular polarization converter for X-, Ku- and K-band applications**
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- XIX. **Excitation wavelength dependent triple-mode photoluminescence of copper-based halides for advanced anti-counterfeiting**

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- XX. **A Comparative Study of the Structural and Optical Properties of ZnS Films Deposited by Spray-Pyrolysis Technique**
Najim A., Hartiti B., Nkuissi H. J. T., Labrim H., Fadili S., Ertugrul M., Thevenin P., BUDAK H. F., KASAPOĞLU A. E.
CRYSTAL RESEARCH AND TECHNOLOGY, cilt.58, sa.7, 2023 (SCI-Expanded)
- XXI. **Temporal Reflection Response of Plane Waves Within an N -Layer Structure Involving Bianisotropy**
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- XXII. **Reconfigurable multifunctional graphene-based antenna for cancer therapy with THz wave ablation**
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- XXIII. **Parameter extraction method for reflection-asymmetric bianisotropic metamaterial slabs using one-port measurements**
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- XXIV. **Structural, mechanical and cytotoxic properties of Ta-doped diamond-like carbon films deposited via radio frequency magnetron sputtering on polyether ether ketone**
Keles S., YEŞİL Z., SADELER R., Ertugrul M., Meletlioglu E.
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- XXV. **Mechanical Properties of Polymer-Infiltrated Fluorapatite Glass Ceramics Fabricated from Clam Shell and Soda Lime Silicate Glass**
KUL E., Matori K. A., Karadeniz S., Arslan E., Ertugrul M.
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- XXVI. **Investigation of the growth temperature effect on H₂ gas detection for ZnO thin films**
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- XXVII. **Experimental and theoretical insights on the structural and optical properties of GeO_x thin films deposited via RF magnetron sputtering under varying oxygen percentage**
ŞENADIM TÜZEMEN E., Hopoglu H., SARITAŞ S., AYDINOĞLU H. S., ERTUĞRUL M., Maslov M. M., KAYA S., UNGAN F., GÜR E.
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- XXVIII. **Honey-Water Content Analysis by Mixing Models Using a Self-Calibrating Microwave Method**
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- XXIX. **Permittivity Extraction of Soil Samples Using Coaxial-Line Measurements by a Simple Calibration**
Hasar H., Hasar U. C., Ozturk H., Izginli M., Aslan N., ÖZTAŞ T., Ertugrul M., Karayilan M., Ramahi O. M.
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- XXX. **Artificial Neural Network Model for Evaluating Parameters of Reflection-Asymmetric Samples From Reference-Plane-Invariant Measurements**
Hasar U. C., Ozturk H., Ertugrul M., Barroso J. J., Ramahi O. M.
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, cilt.72, 2023 (SCI-Expanded)
- XXXI. **Synthesis and characterization of graphene/carbon nanotube hybrid: effects of Ni catalyst thickness and H₂ flow rate on growth and morphological structure**
YEŞİLBAĞ Y. Ö., TUZLUCA YEŞİLBAĞ F. N., Huseyin A., Tuzluca M., Ismail I., ERTUĞRUL M.
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- XXXII. **Parameter Retrieval of Samples on a Substrate From Reflection-Only Waveguide Measurements**
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- XXXIII. **Analysis of Solution Pattern of Natural Frequencies by a Graphical Method**

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- XXXIV. **Determination of Constitutive Parameters of Strong-Coupled Bianisotropic Metamaterials Using Oblique Incidence Scattering Parameters**
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- XXXV. **Single-step, large-area, variable thickness sputtered WS₂ film-based field effect transistors**
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- XXXVI. **A Study on Microwave Absorption Properties of Carbon Black and Ni_{0.6}Zn_{0.4}Fe₂O₄ Nanocomposites by Tuning the Matching-Absorbing Layer Structures**
Ibrahim I. R., Matori K. A., Ismail I., Awang Z., Rusly S. N. A., Nazlan R., Idris F. M., Zulkimi M. M. M., Abdullah N. H., Mustaffa M. S., et al.
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- XXXVII. **Propagation constant measurements of reflection-asymmetric and nonreciprocal microwave networks from S-parameters without using a reflective standard**
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- XXXVIII. **Comparative study of single- and double-layer BaFe₁₂O₁₉-Graphite nanocomposites for electromagnetic wave absorber applications**
Ismail I., Ibrahim I. R., Matori K. A., Awang Z., Zulkimi M. M. M., Idris F. M., Nazlan R., Azis R. S., Zaid M. H. M., Rusly S. N. A., et al.
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- XXXIX. **A comprehensive study of molybdenum boats behavior during service life for continuous thermal evaporation technique, used in thin film technology**
Rouhi S., Martinez-Medina J. E., Ozdemir M., ERTUĞRUL M., Aygun G., Ozyuzer L.
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- XL. **Influence of B₂O₃ Addition on the Properties of TiO₂ Thick Film at Various Annealing Temperatures for Hydrogen Sensing**
Chachuli S. A. M., Hamidon M. N., ERTUĞRUL M., Mamat M. S., Jaafar H., Aris N.
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- XLI. **Effect of nanometric and micronic particles size on physical and electrical properties of graphite thick film**
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- XLII. **Method for Electromagnetic Property Extraction of Sublayers in Metal-Backed Inhomogeneous Metamaterials**
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- XLIII. **Magnetic phase transition of mechanically alloyed single sample Co_{0.5}Ni_{0.5}Fe₂O₄**
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- XLIV. **Synthesis of ultra-long boron nanowires as supercapacitor electrode material**
TUZLUCA YEŞİLBAĞ F. N., YEŞİLBAĞ Y. Ö., ERTUĞRUL M.
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- XLV. **Feasibility and performance investigation of a new smart system integrating planar/tubular**

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- XLVI. **Response of TiO₂/MWCNT/B₂O₃ gas sensor to hydrogen using different organic binder**
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- XLVII. **The use of -MnOOH nanosheets as battery-type electrode for supercapacitor applications**
YEŞİLBAĞ Y. Ö., TUZLUCA YEŞİLBAĞ F. N., ERTUĞRUL M.
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- XLVIII. **Structural, Optical and Electrochromic Properties of WO₃ Thin Films Prepared by Chemical Spray Pyrolysis Versus Spin Coating Technique**
MORKOÇ KARADENİZ S., İSKENDERÖĞLU D., ERTUĞRUL M., EKİNCİ A. E.
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- XLIX. **A Hydrogen Gas Sensor Based on TiO₂ Nanoparticles on Alumina Substrate**
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- L. **Silicon-doping influence on the crystalline, surface and optical features of cadmium oxide films deposited by sol-gel spin route**
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- LI. **Synthesis of In₂O₃ nanostructures with different morphologies as potential supercapacitor electrode materials**
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- LII. **Investigation of temperature, catalyst thickness and substrate effects in In₂O₃ nanostructures**
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- LIII. **A device for X-Ray elemental mapping using annular radioisotope source**
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- LIV. **Effects of graphite on the synthesis of 1-D single crystal In₂O₃ nanostructures at high temperature**
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- LV. **Effective Constitutive Parameters Retrieval Method for Bianisotropic Metamaterials Using Waveguide Measurements**
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- LVI. **Investigation of K X-ray intensity ratios of some 4d transition metals depending on the temperature**
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- LVII. **Boundary Effects on the Determination of Electromagnetic Properties of Bianisotropic Metamaterials From Scattering Parameters**
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- LVIII. **Structural, Morphological and Optical Properties of Well-Ordered CdO Nanostructures Synthesized by Easy-Economical Chemical Bath Deposition Technique**
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- LIX. **A Comparative Study on Structural and Optical Properties of ZnO Micro-Nanorod Arrays Grown on Seed Layers Using Chemical Bath Deposition and Spin Coating Methods**
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- LX. **Reference-Plane-Invariant Effective Thickness and Electromagnetic Property Determination of Isotropic Metamaterials Involving Boundary Effects**
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- LXI. **Determination of Reference-Plane Invariant, Thickness-Independent, and Broadband Constitutive Parameters of Thin Materials**
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- LXII. **Characterization of Porous Silicon Fabry-Perot Optical Sensors for Reflectivity and Transmittivity Measurements**
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- LXIII. **Semi-Infinite Reflection Coefficients of Bi-Anisotropic Metamaterial Slabs Including Boundary Effects**
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- LXIV. **Identification of Gases by Porous Optical Sensors Using Reflectivity Difference and Wavelength Shift**
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- LXV. **The effects of heat treatment on the synthesis of nickel ferrite (NiFe₂O₄) nanoparticles using the microwave assisted combustion method**
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- LXVI. **Reference-plane-invariant and thickness- and branch-index-independent retrieval of effective parameters of bi-anisotropic metamaterials**
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- LXVII. **Investigation of transmitted, reflected, and absorbed powers of periodic and aperiodic multilayered structures composed of bi-anisotropic metamaterial slab and conventional material**
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- LXVIII. **Determination of constitutive parameters of homogeneous metamaterial slabs by a novel calibration-independent method**
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- LXIX. **Simple procedure for robust and accurate complex permittivity measurements of low-loss materials over a broad frequency band**
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- LXX. **Power analysis of multilayer structures composed of conventional materials and bi-anisotropic metamaterial slabs**
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- LXXI. **Attractive method for thickness-independent permittivity measurements of solid dielectric materials**
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Akademi Dışı Deneyim

TÜBİTAK

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