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### Education

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 1990 - 1994

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 1988 - 1990

Undergraduate, Ataturk University, Kâzım Karabekir Eğitim Fakültesi, Turkey 1982 - 1986

### Research Areas

Engineering and Technology

### Journal articles indexed in SCI, SSCI, and AHCI

- I. **Recent studies of theoretical gas sensing properties of 2D TMDC Janus materials**  
KOPAR A. S., Coşkun A., Özerbaş Z. E., Küçük B. A., Turalıoğlu K., ÇOBAN Ö., Çağlar M. A., ERTUĞRUL M., Turgut G.  
Sensors and Actuators A: Physical, vol.383, 2025 (SCI-Expanded)
- II. **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.  
INFOMAT, vol.7, no.2, 2025 (SCI-Expanded)
- III. **Hepta-Band Ultra-Thin Metasurface Absorber for S-, C-, X-, Ku-, and K-Band Applications**  
Kurt M., ÖZTÜRK G., ERTUĞRUL M.  
Arabian Journal for Science and Engineering, 2025 (SCI-Expanded)
- IV. **Exploring the influence of Zn impurities on the structural, optical, and H<sub>2</sub> sensor properties of ultrasonic spray pyrolysis-grown MgO thin films**  
SAĞLAM H. K., İSKENDERÖĞLU D., Güldüren M. E., GÜNEY H., SARITAŞ S., ERTUĞRUL M.  
Optik, vol.315, 2024 (SCI-Expanded)
- V. **Physical properties of Cu<sub>2</sub>ZnSnS<sub>4</sub> 2 ZnSnS<sub>4</sub> 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.  
PHYSICA B-CONDENSED MATTER, vol.691, 2024 (SCI-Expanded)
- VI. **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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- VII. **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.  
ACS Nano, vol.18, no.36, pp.25226-25236, 2024 (SCI-Expanded)
- VIII. **Core-Shell Plasmonic Nanostructures for Hyperthermia of Cancer and Tumor Cells**  
Rajabpour V., Abbasian K., Ertuğrul M.  
PLASMONICS, 2024 (SCI-Expanded)
- IX. **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.  
JOURNAL OF MATERIALS CHEMISTRY C, vol.12, no.33, pp.12806-12817, 2024 (SCI-Expanded)
- X. **Graphene/Al<sub>2</sub>O<sub>3</sub>/Si Schottky diode with integrated waveguide on a silicon-on-insulator wafer**  
Seven E., ORHAN E., Di Bartolomeo A., ERTUĞRUL M., Taştekin N. A.  
Indian Journal of Physics, vol.98, no.8, pp.2795-2803, 2024 (SCI-Expanded)
- XI. **Investigation of hybrid wires combining superconductive MgB<sub>2</sub> and ultra-conductive Graphene/Cu sheath**  
Karaboga F., Farhangmehr M., Özmen A., Yetis H., Belenli I., ERTUĞRUL M.  
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- XII. **Photoluminescence enhancement of chemical vapor-deposited MoSe<sub>2</sub> monolayers**  
KOPAR A. S., Coşkun A., Çağlar M., ERTUĞRUL M., Turgut G.  
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- XIII. **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.  
Journal of Nano Research, vol.82, pp.21-32, 2024 (SCI-Expanded)
- XIV. **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.  
JOURNAL OF ENERGY STORAGE, vol.72, 2023 (SCI-Expanded)
- XV. **Analyses of Cu impurity effects on the USP grown MgO thin films: Structural, optical and photocatalytic assessments**  
Saglam H. K., İSKENDERÖĞLU D., Gulduren M. E., Gueney H., Sahin B., ERTUĞRUL M.  
OPTICAL MATERIALS, vol.145, 2023 (SCI-Expanded)
- XVI. **Ta<sub>4</sub>C<sub>3</sub> MXene-based clover-shaped patch antenna for the treatment of lung cancer with TWA**  
GEYİKOĞLU M. D., Ertugrul M.  
OPTICAL AND QUANTUM ELECTRONICS, vol.55, no.12, 2023 (SCI-Expanded)
- XVII. **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.  
IEEE Transactions on Antennas and Propagation, vol.71, no.9, pp.7690-7693, 2023 (SCI-Expanded)
- XVIII. **Elaboration and characterization of quaternary material Cu<sub>2</sub>ZnSn<sub>4</sub> 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, vol.129, no.9, 2023 (SCI-Expanded)
- XIX. **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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- XX. **An efficient cost effective wide-angle metasurface-based linear and circular polarization converter for X-, Ku- and K-band applications**  
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- XXI. **Excitation wavelength dependent triple-mode photoluminescence of copper-based halides for advanced anti-counterfeiting**  
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- XXII. **Temporal Reflection Response of Plane Waves Within an  $N$ -Layer Structure Involving Bianisotropy**  
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- XXIII. **Reconfigurable multifunctional graphene-based antenna for cancer therapy with THz wave ablation**  
GEYİKOĞLU M. D., Polat H. K., Cavusoglu B., Ertugrul M.  
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- XXIV. **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., KASAPÖĞLU A. E.  
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- XXV. **Parameter extraction method for reflection-asymmetric bianisotropic metamaterial slabs using one-port measurements**  
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- XXVI. **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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- XXVII. **Investigation of the growth temperature effect on H<sub>2</sub> gas detection for ZnO thin films**  
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- XXVIII. **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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- XXIX. **Honey-Water Content Analysis by Mixing Models Using a Self-Calibrating Microwave Method**  
Hasar H., Hasar U. C., Kaya Y., Ozturk H., Izginli M., ÖZTAŞ T., Aslan N., Ertugrul M., Barroso J. J., Ramahi O. M.  
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.71, no.2, pp.691-697, 2023 (SCI-Expanded)
- XXX. **Experimental and theoretical insights on the structural and optical properties of GeO<sub>x</sub> 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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- XXXI. **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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- XXXII. **Artificial Neural Network Model for Evaluating Parameters of Reflection-Asymmetric Samples From Reference-Plane-Invariant Measurements**  
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- XXXIII. **Effect of Mn and Zn doping on natural resonance frequency of strontium U-type hexaferrite and its performance as electromagnetic wave absorbers**

- Ismail I, Zulkimi M. M. M., Azis R. S., Mustaffa M. S., Hamidon M. N., ERTUĞRUL M., YEŞİLBAĞ Y. Ö., TUZLUCA YEŞİLBAĞ F. N., Hasan I. H., ÖZTÜRK G., et al.  
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- XXXIV. **Complex Permittivity and Thickness Evaluation of Low-Loss Dielectrics From Uncalibrated Free-Space Time-Domain Measurements**  
Hasar U. C., Kaya Y., Ozturk H., Izginli M., Barroso J. J., Ramahi O. M., ERTUĞRUL M.  
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- XXXV. **Parameter Retrieval of Samples on a Substrate From Reflection-Only Waveguide Measurements**  
Hasar U. C., Ozturk H., Kaya Y., Izginli M., ERTUĞRUL M.  
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- XXXVI. **Synthesis and characterization of graphene/carbon nanotube hybrid: effects of Ni catalyst thickness and  $H_2$  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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- XXXVII. **Analysis of Solution Pattern of Natural Frequencies by a Graphical Method**  
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- XXXVIII. **Determination of Constitutive Parameters of Strong-Coupled Bianisotropic Metamaterials Using Oblique Incidence Scattering Parameters**  
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- XXXIX. **Single-step, large-area, variable thickness sputtered  $WS_2$  film-based field effect transistors**  
ACAR M., Mobtakeri S., EFEÖĞLU H., ERTUĞRUL M., GÜR E.  
CERAMICS INTERNATIONAL, vol.46, no.17, pp.26854-26860, 2020 (SCI-Expanded)
- XL. **Propagation constant measurements of reflection-asymmetric and nonreciprocal microwave networks from S-parameters without using a reflective standard**  
Hasar U. C., Kaya Y., ÖZTÜRK G., ERTUĞRUL M.  
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- XLI. **A Study on Microwave Absorption Properties of Carbon Black and  $Ni_{0.6}Zn_{0.4}Fe_2O_4$  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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- XLII. **A comprehensive study of molybdenum boats behavior during service life for continuous thermal evaporation technique, used in thin film technology**  
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- XLIII. **Comparative study of single- and double-layer  $BaFe_{12}O_{19}$ -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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- XLIV. **Influence of  $B_2O_3$  Addition on the Properties of  $TiO_2$  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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- XLV. **Method for Electromagnetic Property Extraction of Sublayers in Metal-Backed Inhomogeneous Metamaterials**

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- XLVI. **Effect of nanometric and micronic particles size on physical and electrical properties of graphite thick film**  
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- XLVII. **Magnetic phase transition of mechanically alloyed single sample  $\text{Co}_{0.5}\text{Ni}_{0.5}\text{Fe}_2\text{O}_4$**   
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- XLVIII. **Feasibility and performance investigation of a new smart system integrating planar/tubular thermoelectric generators with solar flat plate collector**  
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- XLIX. **Synthesis of ultra-long boron nanowires as supercapacitor electrode material**  
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- L. **Response of  $\text{TiO}_2/\text{MWCNT/B}_2\text{O}_3$  gas sensor to hydrogen using different organic binder**  
Chachuli S. A. M., Hamidon M. N., Mamat M. S., ERTUĞRUL M., Abdullah N. H.  
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- LI. **The use of  $\text{-MnOOH}$  nanosheets as battery-type electrode for supercapacitor applications**  
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- LII. **Structural, Optical and Electrochromic Properties of  $\text{WO}_3$  Thin Films Prepared by Chemical Spray Pyrolysis Versus Spin Coating Technique**  
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- LIII. **A Hydrogen Gas Sensor Based on  $\text{TiO}_2$  Nanoparticles on Alumina Substrate**  
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- LIV. **Silicon-doping influence on the crystalline, surface and optical features of cadmium oxide films deposited by sol-gel spin route**  
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- LV. **Synthesis of  $\text{In}_2\text{O}_3$  nanostructures with different morphologies as potential supercapacitor electrode materials**  
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- LVI. **Investigation of temperature, catalyst thickness and substrate effects in  $\text{In}_2\text{O}_3$  nanostructures**  
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- LVII. **A device for X-Ray elemental mapping using annular radioisotope source**  
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- LVIII. **Effects of graphite on the synthesis of 1-D single crystal  $\text{In}_2\text{O}_3$  nanostructures at high temperature**  
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- LIX. **Effective Constitutive Parameters Retrieval Method for Bianisotropic Metamaterials Using Waveguide Measurements**  
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- LX. **Investigation of K X-ray intensity ratios of some 4d transition metals depending on the temperature**  
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- LXI. **Boundary Effects on the Determination of Electromagnetic Properties of Bianisotropic Metamaterials From Scattering Parameters**  
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- LXIII. **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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- LXV. **Characterization of Porous Silicon Fabry-Perot Optical Sensors for Reflectivity and Transmittivity Measurements**  
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- LXVI. **Determination of Reference-Plane Invariant, Thickness-Independent, and Broadband Constitutive Parameters of Thin Materials**  
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- LXVIII. **Identification of Gases by Porous Optical Sensors Using Reflectivity Difference and Wavelength Shift**  
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- LXIX. **The effects of heat treatment on the synthesis of nickel ferrite (NiFe<sub>2</sub>O<sub>4</sub>) nanoparticles using the microwave assisted combustion method**  
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- IX. **Energy Efficient Wires: Ultraconductors and Composites**  
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- XII. **Comparison between Silver and Graphite Interdigitated Electrode (IDE) in TiO<sub>2</sub>/MWCNT Thick Film on Electrical Properties**  
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- XVII. **Determination of Trypan Blue Azo Dye by Developing Nanosensor with Electrochemical Method in Different Samples**  
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- XVIII. **Facile Design of a Metamaterial Absorber for X-band Radar Applications**  
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- XX. **Effect of Sb Doping on the Surface Morphology, Structural, Properties of Zinc Oxide Thin Films**  
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- XXV. **Calibration-Free Broadband Determination of Soil Permittivity by Coaxial Line Measurements**  
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- XXIX. **SnO<sub>2</sub> Ultra Thin Film Gas Sensor Fabricated By Ultrasonic Spray Pyrolysis (USP) Method**  
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- XXXII. **TiO<sub>2</sub>/B<sub>2</sub>O<sub>3</sub> thick film gas sensor for monitoring carbon monoxide at different operating temperatures**  
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- XXXIV. **Two Dimensional Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXene Electrode For Supercapacitor Application**  
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- XLV. **Fabrication of Metal Oxide Carbon Dioxide Detector with Screen Printing Technique for Use on Airplanes**  
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- LXIII. **Ultra-conductors: Carbon nanostructure-metal composite..**  
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- LXVI. **Application Areas of CST in Microwave Engineering**  
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- LXXI. **Ultraconductors:Graphene/CNT Metal composites**  
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- LXXIV. **Magnetron Sputtered Thin Film of Shape Memory Alloys and Their Characterizations**  
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- LXXV. **Investigation of Coherent and Incoherent Scattering Cross Sections Ratios of Some FoilMetals**

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- LXXVI. **Merkez Sınır Sisteminde Nörotransmitterin Seramik Tabanlı Mikroelektrotlarla Ölçülmesi**  
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- LXXXI. **Fetal Heart Rate Monitoring System (FHRMS)**  
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- LXXXII. **The Effect of Bazal Noise Reduction Method for Improving the Limit of Detection LOD of the Microsensor on In Vivo Neurotransmitter Analysis**  
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## Metrics

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## Non Academic Experience

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