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Araştırma Alanları

Mühendislik ve Teknoloji

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **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)
- II. **Photoluminescence enhancement of chemical vapor-deposited MoSe₂ monolayers**
KOPAR A. S., Coşkun A., Çağlar M., ERTUĞRUL M., Turgut G.
Journal of Materials Science: Materials in Electronics, cilt.35, sa.6, 2024 (SCI-Expanded)
- III. **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.
Indian Journal of Physics, 2024 (SCI-Expanded)
- IV. **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, cilt.72, 2023 (SCI-Expanded)
- V. **Ta₄C₃ MXene-based clover-shaped patch antenna for the treatment of lung cancer with TWA**
GEYİKOĞLU M. D., Ertugrul M.
OPTICAL AND QUANTUM ELECTRONICS, cilt.55, sa.12, 2023 (SCI-Expanded)
- VI. **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, cilt.145, 2023 (SCI-Expanded)
- VII. **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)
- VIII. **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, cilt.71, sa.9, ss.7690-7693, 2023 (SCI-Expanded)

- IX. An efficient cost effective wide-angle metasurface-based linear and circular polarization converter for X-, Ku- and K-band applications**

ÖZTÜRK G., Hasar U. C., Ertugrul M., Tutar F., ÇORAPSIZ M. F., Kurt M., Donmez K., Ismail I., Alfaqawi M. S. S.

OPTICS AND LASER TECHNOLOGY, cilt.163, 2023 (SCI-Expanded)

- X. 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.

DIAMOND AND RELATED MATERIALS, cilt.137, 2023 (SCI-Expanded)

- XI. Excitation wavelength dependent triple-mode photoluminescence of copper-based halides for advanced anti-counterfeiting**

Liu C., Zhang Y., Luo M., Wang L., Liu X., Pan J., Zhao Z., Fang F., Mao L., Huang Y., et al.

APL MATERIALS, cilt.11, sa.7, 2023 (SCI-Expanded)

- XII. Temporal Reflection Response of Plane Waves Within an *N*-Layer Structure Involving Bianisotropy**

Hasar U. C., ÖZTÜRK G., Kaya Y., Barroso J. J., ERTUĞRUL M., Ramahi O. M., Alfaqawi M. S. S.

IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, cilt.71, sa.7, ss.5946-5953, 2023 (SCI-Expanded)

- XIII. Reconfigurable multifunctional graphene-based antenna for cancer therapy with THz wave ablation**

GEYİKOĞLU M. D., Polat H. K., Cavusoglu B., Ertugrul M.

OPTICAL AND QUANTUM ELECTRONICS, cilt.55, sa.7, 2023 (SCI-Expanded)

- XIV. 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)

- XV. Parameter extraction method for reflection-asymmetric bianisotropic metamaterial slabs using one-port measurements**

Hasar U. C., Kaya Y., Ozturk H., Ertugrul M., Ramahi O. M.

MEASUREMENT, cilt.211, 2023 (SCI-Expanded)

- XVI. 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., Meletioglu E.

THIN SOLID FILMS, cilt.769, 2023 (SCI-Expanded)

- XVII. 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.

MATERIALE PLASTICE, cilt.60, sa.1, ss.128-136, 2023 (SCI-Expanded)

- XVIII. Investigation of the growth temperature effect on H₂ gas detection for ZnO thin films**

SAĞLAM H. K., GÜR E., Ertugrul M.

OPTICAL MATERIALS, cilt.137, 2023 (SCI-Expanded)

- XIX. 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.

PHYSICA B-CONDENSED MATTER, cilt.650, 2023 (SCI-Expanded)

- XX. 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, cilt.71, sa.2, ss.691-697, 2023 (SCI-Expanded)

- XXI. 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)
- XXII. 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.
 IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, cilt.61, 2023 (SCI-Expanded)
- XXIII. Parameter Retrieval of Samples on a Substrate From Reflection-Only Waveguide Measurements**
 Hasar U. C., Ozturk H., Kaya Y., Izginli M., ERTUĞRUL M.
 IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS, cilt.31, sa.3, ss.320-323, 2021 (SCI-Expanded)
- XXIV. 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.
 JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.32, sa.6, ss.7943-7955, 2021 (SCI-Expanded)
- XXV. Analysis of Solution Pattern of Natural Frequencies by a Graphical Method**
 Hasar U. C., ÖZTÜRK G., Bute M., ERTUĞRUL M., Barroso J. J.
 IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, cilt.69, sa.2, ss.1209-1212, 2021 (SCI-Expanded)
- XXVI. Determination of Constitutive Parameters of Strong-Coupled Bianisotropic Metamaterials Using Oblique Incidence Scattering Parameters**
 ÖZTÜRK G., Hasar U. C., Bute M., ERTUĞRUL M.
 IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, cilt.69, sa.2, ss.918-927, 2021 (SCI-Expanded)
- XXVII. Single-step, large-area, variable thickness sputtered WS₂ film-based field effect transistors**
 ACAR M., Mobtakeri S., EFEOĞLU H., ERTUĞRUL M., GÜR E.
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- XXVIII. 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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- XXIX. 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.
 SCIENTIFIC REPORTS, cilt.10, sa.1, 2020 (SCI-Expanded)
- XXX. 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.
 VACUUM, cilt.176, 2020 (SCI-Expanded)
- XXXI. 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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- XXXII. 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.
 JOURNAL OF ELECTRONIC MATERIALS, cilt.49, sa.5, ss.3340-3349, 2020 (SCI-Expanded)
- XXXIII. Method for Electromagnetic Property Extraction of Sublayers in Metal-Backed Inhomogeneous Metamaterials**
 Hasar U. C., ÖZTÜRK G., Bute M., ERTUĞRUL M.
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- XXXIV. **Effect of nanometric and micronic particles size on physical and electrical properties of graphite thick film**
 Shafiee F. N., Hamidon M. N., Wahid M. H., Shaari A. H., ERTUĞRUL M., Abdullah N. H., Kusaimi M. A. M., Mustaffa M. S., Hasan I. H., Ibrahim I. R.
INTERNATIONAL JOURNAL OF NANOTECHNOLOGY, sa.11-12, ss.825-839, 2020 (SCI-Expanded)
- XXXV. **Magnetic phase transition of mechanically alloyed single sample**
 $\text{Co}_{0.5}\text{Ni}_{0.5}\text{Fe}_{2}O_4$
 Low Z. H., Ismail I., Shafie M. S. E., Ibrahim I. R., ERTUĞRUL M., Azis R. S., Saiden N. M., Hasan I. H., Idris F. M., Nazlan R.
RESULTS IN PHYSICS, cilt.15, 2019 (SCI-Expanded)
- XXXVI. **Synthesis of ultra-long boron nanowires as supercapacitor electrode material**
 TUZLUCA YEŞİLBAĞ F. N., YEŞİLBAĞ Y. Ö., ERTUĞRUL M.
APPLIED SURFACE SCIENCE, cilt.493, ss.787-794, 2019 (SCI-Expanded)
- XXXVII. **Feasibility and performance investigation of a new smart system integrating planar/tubular thermoelectric generators with solar flat plate collector**
 Faddouli A., Labrim H., Fadili S., Hartiti B., Habchi A., ERTUĞRUL M., ÇAVUŞOĞLU B., Ntsoenzok E.
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- XXXVIII. **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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- XXXIX. **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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- XL. **Structural, Optical and Electrochromic Properties of WO_3 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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- XLI. **A Hydrogen Gas Sensor Based on TiO_2 Nanoparticles on Alumina Substrate**
 Chachuli S. A. M., Hamidon M. N., Mamat M. S., ERTUĞRUL M., Abdullah N. H.
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- XLII. **Silicon-doping influence on the crystalline, surface and optical features of cadmium oxide films deposited by sol-gel spin route**
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- XLIII. **Synthesis of $\text{In}_2\text{O}_3\text{N}$ nanostructures with different morphologies as potential supercapacitor electrode materials**
 TUZLUCA YEŞİLBAĞ F. N., YEŞİLBAĞ Y. Ö., ERTUĞRUL M.
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- XLIV. **Investigation of temperature, catalyst thickness and substrate effects in $\text{In}_2\text{O}_3\text{N}$ nanostructures**
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- XLV. **A device for X-Ray elemental mapping using annular radioisotope source**
 Ahmadi N., Kavaz Ustu E., ERTUĞRUL M., ÖZDEMİR Y.
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- XLVI. **Effects of graphite on the synthesis of 1-D single crystal $\text{In}_2\text{O}_3\text{N}$ nanostructures at high temperature**
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- XLVII. **Effective Constitutive Parameters Retrieval Method for Biaxotropic Metamaterials Using**

Waveguide Measurements

Hasar U. C., MURATOĞLU A., Bute M., Barroso J. J., ERTUĞRUL M.

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- XLVIII. **Investigation of K X-ray intensity ratios of some 4d transition metals depending on the temperature**
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- XLIX. **Boundary Effects on the Determination of Electromagnetic Properties of Bianisotropic Metamaterials From Scattering Parameters**
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- L. **Structural, Morphological and Optical Properties of Well-Ordered CdO Nanostructures Synthesized by Easy-Economical Chemical Bath Deposition Technique**
MORKOÇ KARADENİZ S., Kilinc T., BOZKURT ÇIRAK B., Sakaoglu T. I., ÇIRAK Ç., ERTUĞRUL M., EKİNCİ A. E.
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- LI. **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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- LII. **Determination of Reference-Plane Invariant, Thickness-Independent, and Broadband Constitutive Parameters of Thin Materials**
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- LIII. **Characterization of Porous Silicon Fabry-Perot Optical Sensors for Reflectivity and Transmittivity Measurements**
Hasar U. C., ÖZBEK İ. Y., ÇAVUŞOĞLU B., KARACALI T., EFEOĞLU H., ERTUĞRUL M., Barroso J. J.
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- LIV. **Reference-Plane-Invariant Effective Thickness and Electromagnetic Property Determination of Isotropic Metamaterials Involving Boundary Effects**
Hasar U. C., Barroso J. J., Buldu G., Bute M., Kaya Y., KARACALI T., ERTUĞRUL M.
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- LV. **Semi-Infinite Reflection Coefficients of Bi-Anisotropic Metamaterial Slabs Including Boundary Effects**
Hasar U. C., Barroso J. J., KARACALI T., ERTUĞRUL M.
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- LVI. **Identification of Gases by Porous Optical Sensors Using Reflectivity Difference and Wavelength Shift**
Hasar U. C., ÖZBEK İ. Y., ÇAVUŞOĞLU B., KARACALI T., EFEOĞLU H., ERTUĞRUL M., Barroso J. J.
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- LVII. **The effects of heat treatment on the synthesis of nickel ferrite (NiFe_{2004}) nanoparticles using the microwave assisted combustion method**
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- LVIII. **Investigation of transmitted, reflected, and absorbed powers of periodic and aperiodic multilayered structures composed of bi-anisotropic metamaterial slab and conventional material**
Hasar U. C., Banos J. J., Kaya Y., KARACALI T., ERTUĞRUL M.
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- LIX. **Reference-plane-invariant and thickness- and branch-index-independent retrieval of effective parameters of bi-anisotropic metamaterials**
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- AIP ADVANCES, cilt.5, sa.1, 2015 (SCI-Expanded)
- LX. **Determination of constitutive parameters of homogeneous metamaterial slabs by a novel calibration-independent method**
 Hasar U. C., Buldu G., Bute M., Barroso J. J., KARACALI T., ERTUĞRUL M.
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- LXI. **Simple procedure for robust and accurate complex permittivity measurements of low-loss materials over a broad frequency band**
 Hasar U. C., Barroso J. J., Kaya Y., Bute M., ERTUĞRUL M.
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- LXII. **Power analysis of multilayer structures composed of conventional materials and bi-anisotropic metamaterial slabs**
 Hasar U. C., Bute M., Barroso J. J., SABAH C., Kaya Y., ERTUĞRUL M.
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- LXIII. **Attractive method for thickness-independent permittivity measurements of solid dielectric materials**
 Hasar U. C., Barroso J. J., Bute M., Kaya Y., KOCADAĞİSTAN M. E., ERTUĞRUL M.
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- LXIV. **Two-step numerical procedure for complex permittivity retrieval of dielectric materials from reflection measurements**
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- LXV. **Microwave method for reference-plane-invariant and thickness-independent permittivity determination of liquid materials**
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- LXVI. **The domestic livestock resources of Turkey: inventory of pigeon groups and breeds with notes on breeder organizations**
 Yilmaz O., SAVAŞ T., ERTUĞRUL M., Wilson R. T.
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- LXVII. **Influence of Deposition Pressure ($0<\sub>2</sub>$) on the YBCO (Y123) Thin Films Prepared by Pulsed Laser Deposition**
 YURTCAN M. T., ŞİMŞEK Ö., YILMAZ M., Hasar U. C., ERTUĞRUL M., Bayram O. S.
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- LXVIII. **Enhanced critical current density using $Nd<\sub>2</sub>O<\sub>3</sub>$ nano-islands on $NdBa<\sub>2</sub>Cu<\sub>3</sub>O<\sub>7-\delta</sub>$ thin films prepared by PLD**
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- LXIX. **Effect of Nb doping on structural, electrical and optical properties of spray deposited $SnO<\sub>2</sub>$ thin films**
 Turgut G., KESKENLER E. F., AYDIN S., SÖNMEZ E., Dogan S., Duzgun B., ERTUĞRUL M.
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- LXX. **Nanostructured columnar heterostructures of $TiO<\sub>2</sub>$ and $Cu<\sub>2</sub>O$ enabled by a thin-film self-assembly approach: Potential for photovoltaics**
 Polat O., Aytug T., Lupini A. R., Paranthaman P. M., ERTUĞRUL M., Bogorin D. F., Meyer H. M., Wang W., Pennycook S. J., Christen D. K.
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- LXXI. **Stepwise technique for accurate and unique retrieval of electromagnetic properties of bianisotropic metamaterials**
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- LXXII. **Reference-plane invariant transmission-reflection method for measurement of constitutive parameters of liquid materials**
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H-İndeks (WoS): 27

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Akademî Dışı Deneyim

TÜBİTAK

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