

Prof. YASHAR AZIZIAN-KALANDARAGH

Personal Information

Office Phone: [+90 312 202 1280](tel:+903122021280)

Email: yasharazizian@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/yasharazizian>

International Researcher IDs

ScholarID: CbR5ENoAAAAJ

ORCID: 0000-0001-6181-3767

Publons / Web Of Science ResearcherID: D-1991-2012

ScopusID: 16444251500

Education Information

Postgraduate, Guilan University, Physics, Physics, Iran 2019 - 2020

Post Doctorate, Zanjan University, Iran 2013 - 2016

Doctorate, Bakü Devlet Üniversitesi, Physics, Physics, Azerbaijan 2007 - 2010

Undergraduate, Iran 1994 - 2004

Foreign Languages

English, C1 Advanced

Research Areas

Physics

Academic Titles / Tasks

Professor, Gazi University, Uygulamalı Bilimler Fakültesi, Fotonik, 2024 - Continues

Courses

Advanced Biophotonics, Undergraduate, 2024 - 2025

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Performance of machine learning algorithms in spectroscopic ellipsometry data analysis of ZnTiO₃ nanocomposite**
Barkhordari A., Mashayekhi H. R., Amiri P., ÖZÇELİK S., Hanife F., Azizian-Kalandaragh Y.
Scientific Reports, vol.14, no.1, 2024 (SCI-Expanded)
- II. Fabrication and properties evaluation of chitosan/BaTiO₃ composite membranes for the**

periodontitis treatment

Houshyar A., Ahmadian M., Azizian-Kalandaragh Y., Amirpour N., Salehi H.
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- III. **A comparative study of the Au/n-Si (MS) and Au/(ZnO:CeO₂:PVP)/n-Si (MPS) Schottky structures by using current/voltage characteristics in dark and under illumination**
Üstün O., ÖZÇELİK U., AZIZIAN-KALANDARAGH Y., ALTINDAL Ş., ÖZÇELİK S.
Physica Scripta, vol.99, no.9, 2024 (SCI-Expanded)
- IV. **Machine learning-assisted prediction of the electronic features of a Schottky diode interlaid with PVP:BaTiO₃ composite**
AZIZIAN-KALANDARAGH Y., Barkhordari A., ÖZÇELİK S., ALTINDAL Ş.
Physica Scripta, vol.99, no.8, 2024 (SCI-Expanded)
- V. **Preparation of anisotropic AgNWs/PVA/Ag₂S nanocomposites via a vapor-phase sulfidation process**
Baghirov M. B., Muradov M., Eyvazova G., Mammadyarova S., AZIZIAN-KALANDARAGH Y., Musayeva N., Kochari G. E., Huseynali R. F.
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- VI. **The influence of the physicochemical processes on the electrical response of Al/p-Si structure with etched surface**
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- VII. **Effect of sulphidation process on the structure, morphology and optical properties of GO/AgNWs composites**
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RSC Advances, vol.14, no.4, pp.2320-2326, 2024 (SCI-Expanded)
- VIII. **Fabrication and dielectric spectroscopy analysis of FeGaInS₄/PVA composite materials**
Addayeva Z., AZIZIAN-KALANDARAGH Y., Niftiyev N., Eyvazova G., Mammadov F., Babanly M., Baghirov M. B., Muradov M.
Journal of Vinyl and Additive Technology, 2024 (SCI-Expanded)
- IX. **Support Vector Machine for Prediction of the Electronic Factors of a Schottky Configuration Interlaid with Pure PVC and Doped by Sm₂O₃ Nanoparticles**
AZIZIAN-KALANDARAGH Y., Barkhordari A., BADALI Y.
Advanced Electronic Materials, 2024 (SCI-Expanded)
- X. **The photoresponse behavior of a Schottky structure with a transition metal oxide-doped organic polymer (RuO₂:PVC) interface**
Elamen H., Badali Y., ULUSOY M., AZIZIAN-KALANDARAGH Y., ALTINDAL Ş., Güneşer M. T.
Polymer Bulletin, vol.81, no.1, pp.403-422, 2024 (SCI-Expanded)
- XI. **A comparison of electrical characteristics of the Au/n-Si Schottky diodes with (ZnCdS:GO(1:1) and (ZnCdS:GO(1:0.5) doped PVP interlayer using current-voltage (I-V) and impedance-voltage (Z-V) measurements**
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JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.34, no.28, 2023 (SCI-Expanded)
- XII. **Examination on the current conduction mechanisms of Au/n-Si diodes with ZnO-PVP and ZnO/Ag₂WO₄ -PVP interfacial layers**
Taşçioğlu I., Pirgholi-Givi G., Yerişkin S., AZIZIAN-KALANDARAGH Y.
Journal of Sol-Gel Science and Technology, vol.107, no.3, pp.536-547, 2023 (SCI-Expanded)
- XIII. **The investigation of interlayer (CeO₂:PVC) effects on the dielectric features of Au-Si (MS) Schottky barrier diodes (SBDs) using the impedance spectroscopy method**
Ganj T., Rozati S. M., Azizian-Kalandaragh Y., Pirgholi-Givi G.
PHYSICA SCRIPTA, vol.98, no.5, 2023 (SCI-Expanded)
- XIV. **The impact of electrolyte solution concentrations on the optical characteristics of CdS nanoparticles**
Gahramanli L., Muradov M., AZIZIAN-KALANDARAGH Y., Eyvazova G., Balayeva O.

International Journal of Modern Physics B, vol.37, no.11, 2023 (SCI-Expanded)

- XV. **A new criterion for self-healing quantification of structured light beams**
Saadati-Sharafeh F., Amiri P., Akhlaghi E. A., AZIZIAN-KALANDARAGH Y.
Journal of Optics (United Kingdom), vol.25, no.3, 2023 (SCI-Expanded)
- XVI. **The temperature-dependent dielectric properties of the Au/ZnO-PVA/n-Si structure**
AZIZIAN-KALANDARAGH Y., Badali Y., Jamshidi-Ghozlu M., Hanife F., ÖZÇELİK S., ALTINDAL Ş., Pirgholi-Givi G.
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- XVII. **The Influence of PVC and (PVC:SnS) Interfacial Polymer Layers on the Electric and Dielectric Properties of Au/n-Si Structure**
Barkhordari A., Altindal Ş., Pirgholi-Givi G., Mashayekhi H., Özçelik S., Azizian-Kalandaragh Y.
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- XVIII. **Photocatalytic aspect of rGO/MnFe2O4 as an efficient magnetically retrievable catalyst for reduction of nitroaromatic compounds under visible-light irradiation**
Fuladi V., Bezaatpour A., Azizian-Kalandaragh Y., Amiri M., Nuri A., Nouhi S., Taffa D. H., Wark M.
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- XIX. **Dielectric properties and negative-capacitance/dielectric in Au/n-Si structures with PVC and (PVC:Sm2O3) interlayer**
ALTINDAL Ş., Barkhordari A., AZIZIAN-KALANDARAGH Y., ÇEVİRİMLİ B. S., Mashayekhi H. R.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.147, 2022 (SCI-Expanded)
- XX. **Dielectric Properties of PVP: BaTiO3 Interlayer in the Al/PVP: BaTiO3/P-Si Structure**
Barkhordari A., ÖZÇELİK S., Pirgholi-Givi G., Mashayekhi H. R., ALTINDAL Ş., AZIZIAN-KALANDARAGH Y.
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- XXI. **A comparison of Au/n-Si Schottky diodes (SDs) with/without a nanographite (NG) interfacial layer by considering interlayer, surface states (N-ss) and series resistance (R-s) effects**
DEMİREZEN S., ALTINDAL Ş., AZIZIAN-KALANDARAGH Y., Akbas A. M.
PHYSICA SCRIPTA, vol.97, no.5, 2022 (SCI-Expanded)
- XXII. **The illumination effects on the current conduction mechanisms of the Au/(Er2O3:PVC)/n-Si (MPS) Schottky diodes**
Altindal Ş., Azizian-Kalandaragh Y., Ulusoy M., Pirgholi-Givi G.
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- XXIII. **The Impact of Dopant on the Dielectric Properties of Metal-Semiconductor With ZnFe2O4 Doped Organic Polymer Nanocomposites Interlayer**
Alsmael J. A. M., Tan S. O., Tecimer H. U., ALTINDAL Ş., AZIZIAN-KALANDARAGH Y.
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- XXIV. **A comparison of electrical characteristics of Au/n-Si (MS) structures with PVC and (PVC: Sm2O3) polymer interlayer**
ALTINDAL Ş., Barkhordari A., ÖZÇELİK S., Pirgholi-Givi G., Mashayekhi H. R., AZIZIAN-KALANDARAGH Y.
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- XXV. **Comparison of the electrical and impedance properties of Au/(ZnOMn:PVP)/n-Si (MPS) type Schottky-diodes (SDs) before and after gamma-irradiation**
ALTINDAL Ş., Barkhordari A., Pirgholi-Givi G., ULUSOY M., Mashayekhi H., ÖZÇELİK S., AZIZIAN-KALANDARAGH Y.
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- XXVI. **Effect of Ni-doping on the structural, magnetic, and electronic properties of La0.2Sr0.8MnO3 perovskite**
Hamdaoui N., Tlili D., Azizian-Kalandaragh Y., Zaidi B., Zemni S., Akl A. A., Beji L.
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- XXVII. **Graphene doped (Bi2Te3-Bi2O3-TeO2): PVP dielectrics in metal-semiconductor structures**
Badali Y., Farazin J., Pirgholi-Givi G., ALTINDAL Ş., Azizian-Kalandaragh Y.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.127, no.9, 2021 (SCI-Expanded)
- XXVIII. **Effect of (Co-TeO2-doped polyvinylpyrrolidone) organic interlayer on the electrophysical**

characteristics of Al/p-Si (MS) structures

Farazin J., Asl M. S., Pirgholi-Givi G., Delbari S. A., Namini A. S., ALTINDAL Ş., AZIZIAN-KALANDARAGH Y.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.17, pp.21909-21922, 2021 (SCI-Expanded)

- XXIX. **Formation of CdS/ZnS nanoparticles in polymer matrix by SILAR method: Experiments and exploring its optical properties with DDA calculations**
Siabi-Garjan A., Farazin J., Pirgholi-Givi G., Azizian-Kalandaragh Y.
OPTIK, vol.242, 2021 (SCI-Expanded)
- XXX. **On the frequency-dependent complex-dielectric, complex-electric modulus and conductivity in Au/(NiS:PVP)/n-Si structures**
ALTINDAL Ş., ULUSOY M., ÖZÇELİK S., AZIZIAN-KALANDARAGH Y.
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- XXXI. **The effect of PVP: BaTiO₃ interlayer on the conduction mechanism and electrical properties at MPS structures**
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- XXXII. **Evolution of microstructure, strain and physical properties of quaternary nanoparticles La_{0.8-x}Ce_xAg_{0.2}MnO₃ perovskites**
Hamdaoui N., Azizian-Kalandaragh Y., Zaidi B., Akl A. A.
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- XXXIII. **Frequency and voltage-dependent electrical parameters, interface traps, and series resistance profile of Au/(NiS:PVP)/n-Si structures**
Ulusoy M., Altindal Ş., Durmus P., Ozcelik S., Azizian-Kalandaragh Y.
Journal of Materials Science: Materials in Electronics, vol.32, no.10, pp.13693-13707, 2021 (SCI-Expanded)
- XXXIV. **A Compare Study on Electrical Properties of MS Diodes with and Without CoFe₂O₄-PVP Interlayer**
Tataroglu A., Buyukbas Ulsan A., Altindal Ş., Azizian-Kalandaragh Y.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.31, no.4, pp.1668-1675, 2021 (SCI-Expanded)
- XXXV. **Nonzero coercivity of Fe₃O₄/polyvinyl alcohol nanocomposites synthesized by different polymer-assisted co-precipitation processes**
Mirzaee S., Azad-Kalandaragh M., Azizian-Kalandaragh Y.
POLYMER BULLETIN, vol.78, no.4, pp.2177-2189, 2021 (SCI-Expanded)
- XXXVI. **The effect of cadmium impurities in the (PVP-TeO₂) interlayer in Al/p-Si (MS) Schottky barrier diodes (SBDs): Exploring its electrophysical parameters**
Pirgholi-Givi G., ALTINDAL Ş., Shahedi Asl M., Sabahi Namini A., Farazin J., Azizian-Kalandaragh Y.
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- XXXVII. **Comparison of the photocatalytic activity of perovskite structures: Bismuth, barium, and zinc titanate nanostructures for photodegradation of methylene blue from water**
Pirgholi-Givi G., Azizian-Kalandaragh Y., Farazin J.
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- XXXVIII. **Electrical characterization of Au/n-Si (MS) diode with and without graphene-polyvinylpyrrolidone (Gr-PVP) interface layer**
TATAROĞLU A., ALTINDAL Ş., Azizian-Kalandaragh Y.
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- XXXIX. **Complex dielectric, complex electric modulus, and electrical conductivity in Al/(Graphene-PVA)/p-Si (metal-polymer-semiconductor) structures**
Karadas S., Yeriskin S., BALBAŞI M., Azizian-Kalandaragh Y.
Journal of Physics and Chemistry of Solids, vol.148, 2021 (SCI-Expanded)
- XL. **Investigation of the variation of dielectric properties by applying frequency and voltage to Al/(CdS-**

PVA)/p-Si structures

Azizian-Kalandaragh Y., Yuicedag I., Demir G. E., ALTINDAL Ş.

JOURNAL OF MOLECULAR STRUCTURE, vol.1224, 2021 (SCI-Expanded)

- XLII. **Frequency Response of C-V and G/ω-V Characteristics of Au/(Nanographite-doped PVP)/n-Si Structures**
Akbas A. M., ÇIÇEK O., ALTINDAL Ş., Azizian-Kalandaragh Y.
Journal of Materials Science: Materials in Electronics, vol.32, no.1, pp.993-1006, 2021 (SCI-Expanded)
- XLIII. **On the electrical characteristics of Al/p-Si diodes with and without (PVP: Sn-TeO₂) interlayer using current-voltage (I-V) measurements**
Sabahi Namini A., Shahedi Asl M., Pirgholi-Givi G., Delbari S. A., Farazin J., ALTINDAL Ş., Azizian-Kalandaragh Y.
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- XLIV. **A Highly Sensitive Temperature Sensor Based on Au/Graphene-PVP/n-Si Type Schottky Diodes and the Possible Conduction Mechanisms in the Wide Range Temperatures**
ÇIÇEK O., ALTINDAL Ş., Azizian-Kalandaragh Y.
IEEE Sensors Journal, vol.20, no.23, pp.14081-14089, 2020 (SCI-Expanded)
- XLV. **Role of hot-pressing temperature on densification and microstructure of ZrB₂-SiC ultrahigh temperature ceramics**
Nguyen V., Delbari S. A., Asl M. S., Namini A. S., Kakroudi M. G., Azizian-Kalandaragh Y., Le Q. V., Mohammadi M., Shokouhimehr M.
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- XLVI. **Synthesis, characterization, and photocatalytic performance of Ag/AgFeO₂ decorated on g-C₃N₄-nanosheet under the visible light irradiation**
Van-Huy Nguyen V. N., Mousavi M., Ghasemi J. B., Delbari S. A., Quyet Van Le Q. V. L., Asl M. S., Shokouhimehr M., Mohammadi M., Azizian-Kalandaragh Y., Namini A. S.
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- XLVII. **Electric and dielectric parameters in Au/n-Si (MS) capacitors with metal oxide-polymer interlayer as function of frequency and voltage**
DEMIREZEN S., Eroglu A., Azizian-Kalandaragh Y., ALTINDAL Ş.
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- XLVIII. **Characteristics of quadruplet Ti-Mo-TiB₂-TiC composites prepared by spark plasma sintering**
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- XLIX. **A comparison study regarding Al/p-Si and Al/(carbon nanofiber-PVP)/p-Si diodes: current/impedance-voltage (I/Z-V) characteristics**
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- L. **Electrical and dielectric properties of Al/(PVP: Zn-TeO₂)/p-Si heterojunction structures using current-voltage (I-V) and impedance-frequency (Z-f) measurements**
Azizian-Kalandaragh Y., Farazin J., ALTINDAL Ş., Asl M. S., Pirgholi-Givi G., Delbari S. A., Namini A. S.
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- L. **Chemical Transformations as a Tool for Controlling the Properties of Calcium Carbonate Powder**
Safronova T. V., Shatalova T. B., Boytsova O. V., Knotko A. V., Toshev O. U., Hotamov S. M., Odinaeva A. T., Azizian-Kalandaragh Y.
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- LI. **Electrical and photoresponse properties of CoSO₄-PVP interlayer based MPS diodes**
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- LII. **Frequency and voltage dependence of electrical and dielectric properties in metal-interfacial layer-semiconductor (MIS) type structures**
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- Physica B: Condensed Matter, vol.587, 2020 (SCI-Expanded)
- LIII. **Nano-diamond reinforced ZrB₂-SiC composites**
Fattahi M., Azizian-Kalandaragh Y., Delbari S. A., Namini A. S., Ahmadi Z., Asl M. S.
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- LIV. **Frequency-Dependent Admittance Analysis of Au/n-Si Structure with CoSO₄-PVP Interfacial Layer**
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Journal of Electronic Materials, vol.49, no.6, pp.3720-3727, 2020 (SCI-Expanded)
- LV. **Dielectric, ac conductivity and electric modulus studies at MPS structure with (Cu₂O)-doped PVA interfacial layer**
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- LVI. **Investigation of the effect of different Bi₂O₃-x:PVA (x = Sm, Sn, Mo) thin insulator interface-layer materials on diode parameters**
Badali Y., Azizian-Kalandaragh Y., USLU İ., ALTINDAL Ş.
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- LVII. **C-V-f and G/ω-V-f characteristics of Au/(In₂O₃-PVP)/n-Si (MPS) structure**
Tataroglu A., Altindal Ş., Azizian-Kalandaragh Y.
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- LVIII. **The effect of capping agent on the structural, optical properties and photocatalytic activity of MgO nanostructures**
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- LIX. **The superposition of the Bessel and mirrored Bessel beams and investigation of their self-healing characteristic**
Saadati-Sharafeh F., Borhanifar A., Porfirev A. P., Amiri P., Akhlaghi E. A., Khonina S. N., Azizian-Kalandaragh Y.
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- LX. **The effects of (Bi₂Te₃-Bi₂O₃-TeO₂-PVP) interfacial film on the dielectric and electrical features of Al/p-Si (MS) Schottky barrier diodes (SBDs)**
ALTINDAL Ş., Farazin J., Pirgholi-Givi G., MARIL E., Azizian-Kalandaragh Y.
Physica B: Condensed Matter, vol.582, 2020 (SCI-Expanded)
- LXI. **The influence of irradiation intensity and stirring rate on the photocatalytic activity of titanium dioxide nanostructures prepared by the microwave-assisted method for photodegradation of MB from water**
Pirgholi-Givi G., Farjami-Shayesteh S., Azizian-Kalandaragh Y.
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- LXII. **Comparison of electrical properties of MS and MPS type diode in respect of (In₂O₃-PVP) interlayer**
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- LXIII. **Ultrasound-Assisted Method for Preparation of Ag₂S Nanostructures: Fabrication of Au/Ag₂S-PVA/n-Si Schottky Barrier Diode and Exploring Their Electrical Properties**
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- LXIV. **Modified co-precipitation process effects on the structural and magnetic properties of Mn-doped nickel ferrite nanoparticles**
Mirzaee S., Azizian-Kalandaragh Y., Rahimzadeh P.
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- LXV. **Investigation of the efficiencies of the (SnO₂-PVA) interlayer in Au/n-Si (MS) SDs on electrical characteristics at room temperature by comparison**
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- LXVI. **The influence of preparation parameters on the photocatalytic performance of mixed bismuth titanate-based nanostructures**
 Pirgholi-Givi G., Farjami-Shayesteh S., Azizian-Kalandaragh Y.
 PHYSICA B-CONDENSED MATTER, vol.575, 2019 (SCI-Expanded)
- LXVII. **Efficient generation of arrays of closed-packed high-quality light rings**
 Porfirev A., Khonina S., Azizian-Kalandaragh Y., Kirilenko M.
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- LXVIII. **Spark plasma sintering of ZrB₂-based composites co-reinforced with SiC whiskers and pulverized carbon fibers**
 Asl M. S., Azizian-Kalandaragh Y., Ahmadi Z., Namini A. S., Motallebzadeh A.
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- LXIX. **Structural, magnetic and dielectric properties of Ni_{0.6}Mg_{0.4}Fe₂O₄ ferromagnetic ferrite prepared by sol gel method**
 Hamdaoui N., Azizian-Kalandaragh Y., Khlifi M., Beji L.
 CERAMICS INTERNATIONAL, vol.45, no.13, pp.16458-16465, 2019 (SCI-Expanded)
- LXX. **Cd-doping effect on morphologic, structural, magnetic and electrical properties of Ni_{0.6-x}Cd_xMg_{0.4}Fe₂O₄ spinel ferrite (0 ≤ x ≤ 0.4)**
 Hamdaoui N., Azizian-Kalandaragh Y., Khlifi M., Beji L.
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.803, pp.964-970, 2019 (SCI-Expanded)
- LXXI. **Examination of dielectric response of Au/HgS-PVA/n-Si (MPS) structure by impedance spectroscopy method**
 SEVGİLİ Ö., Tascioglu I., Boughdachi S., Azizian-Kalandaragh Y., ALTINDAL Ş.
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- LXXII. **Wettability measurement, optical characteristics, and investigation of the quantum confinement effect of ZnS-scotch tape nanocomposite films prepared by successive ionic layer adsorption and reaction (SILAR) method**
 Farazin J., Pirgholi-Givi G., Azizian-Kalandaragh Y.
 PHYSICA B-CONDENSED MATTER, vol.564, pp.94-103, 2019 (SCI-Expanded)
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