

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.
Scientific Reports, vol.14, no.1, 2024 (SCI-Expanded)

- 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.
RSC Advances, vol.14, no.24, pp.16696-16703, 2024 (SCI-Expanded)
- VI. **The influence of the physicochemical processes on the electrical response of Al/p-Si structure with etched surface**
BADALI Y., AZIZIAN-KALANDARAGH Y.
Applied Physics A: Materials Science and Processing, vol.130, no.4, 2024 (SCI-Expanded)
- VII. **Effect of sulphidation process on the structure, morphology and optical properties of GO/AgNWs composites**
Baghirov M. B., Muradov M., Eyvazova G., AZIZIAN-KALANDARAGH Y., Mammadyarova S., Kim J., Gasimov E., Rzayev F.
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**
Güçlü Ç., Tanrıkulu E., Dere A., ALTINDAL Ş., AZIZIAN-KALANDARAGH Y.
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.
Physica B: Condensed Matter, vol.650, 2023 (SCI-Expanded)
- 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.
SILICON, vol.15, no.2, pp.855-865, 2023 (SCI-Expanded)
- 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.
Journal of Environmental Chemical Engineering, vol.10, no.5, 2022 (SCI-Expanded)
- 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.
SILICON, vol.14, no.10, pp.5437-5443, 2022 (SCI-Expanded)
- 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.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.25, pp.1-12, 2022 (SCI-Expanded)
- 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.
IEEE TRANSACTIONS ON NANOTECHNOLOGY, vol.21, pp.528-533, 2022 (SCI-Expanded)
- 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.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
- XXV. **Comparison of the electrical and impedance properties of Au/(ZnO:Mn: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.
PHYSICA SCRIPTA, vol.96, no.12, 2021 (SCI-Expanded)
- XXVI. **Effect of Ni-doping on the structural, magnetic, and electronic properties of La_{0.2}Sr_{0.8}MnO₃ perovskite**
Hamdaoui N., Tlili D., Azizian-Kalandaragh Y., Zaidi B., Zemni S., Akl A. A., Beji L.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.22, pp.26984-26997, 2021 (SCI-Expanded)
- 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.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.15, pp.20071-20081, 2021 (SCI-Expanded)
- XXXI. **The effect of PVP: BaTiO₃ interlayer on the conduction mechanism and electrical properties at MPS structures**
Barkhordari A., ÖZÇELİK S., Altmdal S., Pirgholi-Givi G., Mashayekhi H., AZIZIAN-KALANDARAGH Y.
PHYSICA SCRIPTA, vol.96, no.8, 2021 (SCI-Expanded)
- 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.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.127, no.5, 2021 (SCI-Expanded)
- 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.
Physica B: Condensed Matter, vol.604, 2021 (SCI-Expanded)
- 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.
Journal of Photochemistry and Photobiology A: Chemistry, vol.408, 2021 (SCI-Expanded)
- 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.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.3, pp.3451-3459, 2021 (SCI-Expanded)
- 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.
Applied Physics A: Materials Science and Processing, vol.126, no.12, 2020 (SCI-Expanded)
- 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.
INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS, vol.93, 2020 (SCI-Expanded)
- 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.
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.115, pp.279-292, 2020 (SCI-Expanded)
- 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.
Journal of Materials Science: Materials in Electronics, vol.31, no.18, pp.15589-15598, 2020 (SCI-Expanded)
- XLVIII. **Characteristics of quadruplet Ti-Mo-TiB₂-TiC composites prepared by spark plasma sintering**
Nguyen T. P., Delbari S. A., Azizian-Kalandaragh Y., Babapoor A., Quyet Van Le Q. V. L., Namini A. S., Shokouhimehr M., Asl M. S.
CERAMICS INTERNATIONAL, vol.46, no.13, pp.20885-20895, 2020 (SCI-Expanded)
- XLIX. **A comparison study regarding Al/p-Si and Al/(carbon nanofiber-PVP)/p-Si diodes: current/impedance-voltage (I/Z-V) characteristics**
SEVGİLİ Ö., YILDIRIM M., Azizian-Kalandaragh Y., ALTINDAL Ş.
Applied Physics A: Materials Science and Processing, vol.126, no.8, 2020 (SCI-Expanded)
- 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.
Applied Physics A: Materials Science and Processing, vol.126, no.8, 2020 (SCI-Expanded)
- 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.
GLASS AND CERAMICS, vol.77, pp.145-148, 2020 (SCI-Expanded)
- LI. **Electrical and photoresponse properties of CoSO₄-PVP interlayer based MPS diodes**
Tataroglu A., Altindal Ş., Azizian-Kalandaragh Y.
Journal of Materials Science: Materials in Electronics, vol.31, no.14, pp.11665-11672, 2020 (SCI-Expanded)
- LII. **Frequency and voltage dependence of electrical and dielectric properties in metal-interfacial layer-semiconductor (MIS) type structures**
SEVGİLİ Ö., Azizian-Kalandaragh Y., Altindal S.

- 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.
CERAMICS INTERNATIONAL, vol.46, no.8, pp.10172-10179, 2020 (SCI-Expanded)
- LIV. **Frequency-Dependent Admittance Analysis of Au/n-Si Structure with CoSO₄-PVP Interfacial Layer**
Tascioglu I., SEVGİLİ Ö., Azizian-Kalandaragh Y., ALTINDAL Ş.
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**
Buyukbas-Ulusan A., Yeriskin S., Tataroglu A., Balbasi M., Azizian-Kalandaragh Y.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, no.5-6, pp.256-260, 2020 (SCI-Expanded)
- 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.
Journal of Materials Science: Materials in Electronics, vol.31, no.10, pp.8033-8042, 2020 (SCI-Expanded)
- 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.
Physica B: Condensed Matter, vol.582, 2020 (SCI-Expanded)
- LVIII. **The effect of capping agent on the structural, optical properties and photocatalytic activity of MgO nanostructures**
Fakhri-Mirzanagh S., Ahadzadeh-Namin K., Givi G. P., Farazin J., Azizian-Kalandaragh Y.
PHYSICA B-CONDENSED MATTER, vol.583, 2020 (SCI-Expanded)
- 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.
OPTIK, vol.208, 2020 (SCI-Expanded)
- 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.
PHYSICA B-CONDENSED MATTER, vol.578, 2020 (SCI-Expanded)
- LXII. **Comparison of electrical properties of MS and MPS type diode in respect of (In₂O₃-PVP) interlayer**
TATAROĞLU A., ALTINDAL Ş., Azizian-Kalandaragh Y.
Physica B: Condensed Matter, vol.576, 2020 (SCI-Expanded)
- LXIII. **Ultrasound-Assisted Method for Preparation of Ag₂S Nanostructures: Fabrication of Au/Ag₂S-PVA/n-Si Schottky Barrier Diode and Exploring Their Electrical Properties**
Badali Y., Azizian-Kalandaragh Y., Akhlaghi E. A., Altindal Ş.
Journal of Electronic Materials, vol.49, no.1, pp.444-453, 2020 (SCI-Expanded)
- 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.
SOLID STATE SCIENCES, vol.99, 2020 (SCI-Expanded)
- LXV. **Investigation of the efficiencies of the (SnO₂-PVA) interlayer in Au/n-Si (MS) SDs on electrical characteristics at room temperature by comparison**
BİLKAN Ç., Azizian-Kalandaragh Y., SEVGİLİ Ö., ALTINDAL Ş.
Journal of Materials Science: Materials in Electronics, vol.30, no.23, pp.20479-20488, 2019 (SCI-Expanded)

- 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.
 PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS, vol.37, 2019 (SCI-Expanded)
- 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.
 INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS, vol.83, 2019 (SCI-Expanded)
- 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.
 Physica B: Condensed Matter, vol.566, pp.125-135, 2019 (SCI-Expanded)
- 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)
- LXXIII. **The Structural and Electrical Properties of the Au/n-Si (MS) Diodes with Nanocomposites Interlayer (Ag-Doped ZnO/PVP) by Using the Simple Ultrasound-Assisted Method**
 Altindal Ş., Sevgili O., Azizian-Kalandaragh Y.
 IEEE Transactions on Electron Devices, vol.66, no.7, pp.3103-3109, 2019 (SCI-Expanded)
- LXXIV. **CORRELATION BETWEEN WETTABILITY AND OPTICAL PROPERTIES OF SILVER-BASED THIN FILMS PREPARED BY SPUTTERING METHOD WITH INCLINED SUBSTRATE AND SHADOWING EFFECT**
 Siabi-Garjan A., Fakhri-Mirzanagh S., Azizian-Kalandaragh Y.
 SURFACE REVIEW AND LETTERS, vol.26, no.5, 2019 (SCI-Expanded)
- LXXV. **Double-exponential current-voltage (I-V) and negative capacitance (NC) behavior of Al/(CdSe-PVA)/p-Si/Al (MPS) structure**
 Buyukbas-Ulusan A., Tataroglu A., Azizian-Kalandaragh Y., Kosal M.
 Journal of Materials Science: Materials in Electronics, vol.30, no.10, pp.9572-9581, 2019 (SCI-Expanded)
- LXXVI. **Fabrication, structural and electrical characterization of Au/ (CuSe-polyvinyl alcohol)/n-Si (MPS) Schottky barrier structures**
 Mirzanezhad-Asl R., Phirouznia A., Altindal Ş., Badali Y., Azizian-Kalandaragh Y.
 Physica B: Condensed Matter, vol.561, pp.1-8, 2019 (SCI-Expanded)
- LXXVII. **Sonochemically Prepared SnO₂ Nanostructures for Photodegradation of Methylene Blue Under Mercury-Vapor and Light Emitting Diode Lamps**
 AZIZIAN-KALANDARAGH Y., Fakhri-Mirzanagh S., Badrinezhad L.
 JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.14, no.2, pp.177-183, 2019 (SCI-Expanded)
- LXXVIII. **A comparison of electrical parameters of Au/n-Si and Au/(CoSO₄-PVP)/n-Si structures (SBDs) to determine the effect of (CoSO₄-PVP) organic interlayer at room temperature**
 ALTINDAL Ş., Sevgili O., Azizian-Kalandaragh Y.

- Journal of Materials Science: Materials in Electronics, 2019 (SCI-Expanded)
- LXXXIX. **The effect of poly vinyl alcohol matrix on the light absorbance of Ag₂S nanoparticles; experimental and discrete dipole approximation results**
Siabi-Garjan A., Fakhri-Mirzanagh S., Azizian-Kalandaragh Y.
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.222, pp.26-34, 2019 (SCI-Expanded)
- LXXX. **Current-Transport Mechanisms of the Al/(Bi₂S₃-PVA Nanocomposite)/p-Si Schottky Diodes in the Temperature Range Between 220 K and 380 K**
Boughdachi S., Badali Y., Azizian-Kalandaragh Y., Altindal Ş.
Journal of Electronic Materials, vol.47, no.12, pp.6945-6953, 2018 (SCI-Expanded)
- LXXXI. **Temperature and Interfacial Layer Effects on the Electrical and Dielectric Properties of Al/(CdS-PVA)/p-Si (MPS) Structures**
Demir G. E., Yucedag I., Azizian-Kalandaragh Y., ALTINDAL Ş.
Journal of Electronic Materials, vol.47, no.11, pp.6600-6606, 2018 (SCI-Expanded)
- LXXXII. **Formation of ZnO nanopowders by the simple ultrasound-assisted method: Exploring the dielectric and electric properties of the Au/(ZnO-PVA)/n-Si structure**
Nezhadesm-Kohardafchahi S., Farjami-Shayesteh S., Badali Y., Altindal Ş., Jamshidi-Ghozlu M. A., Azizian-Kalandaragh Y.
Materials Science in Semiconductor Processing, vol.86, pp.173-180, 2018 (SCI-Expanded)
- LXXXIII. **Reinforcing effects of SiC whiskers and carbon nanoparticles in spark plasma sintered ZrB₂ matrix composites**
Azizian-Kalandaragh Y., Namini A. S., Ahmadi Z., Asl M. S.
CERAMICS INTERNATIONAL, vol.44, no.16, pp.19932-19938, 2018 (SCI-Expanded)
- LXXXIV. **Preparation of mixed copper/PVA nanocomposites as an interface layer for fabrication of Al/Cu-PVA/p-Si Schottky structures**
Akhlaghi E. A., Badali Y., ALTINDAL Ş., Azizian-Kalandaragh Y.
Physica B: Condensed Matter, vol.546, pp.93-98, 2018 (SCI-Expanded)
- LXXXV. **Preparation of Cadmium Sulfide Nanostructures in Presence of Polyvinyl Alcohol and Polyvinylpyrrolidone as a Capping Agent and Investigation of Their Structural and Optical Properties**
AZIZIAN-KALANDARAGH Y.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.13, no.10, pp.1454-1459, 2018 (SCI-Expanded)
- LXXXVI. **Determining electrical and dielectric parameters of Al/ZnS-PVA/p-Si (MPS) structures in wide range of temperature and voltage**
BARAZ N., Yucedag I., Azizian-Kalandaragh Y., ALTINDAL Ş.
Journal of Materials Science: Materials in Electronics, vol.29, no.15, pp.12735-12743, 2018 (SCI-Expanded)
- LXXXVII. **Preparation of (CuS-PVA) interlayer and the investigation their structural, morphological and optical properties and frequency dependent electrical characteristics of Au/(CuS-PVA)/n-Si (MPS) structures**
ERBİLEN TANRIKULU E., ALTINDAL Ş., Azizian-Kalandaragh Y.
Journal of Materials Science: Materials in Electronics, vol.29, no.14, pp.11801-11811, 2018 (SCI-Expanded)
- LXXXVIII. **Electrical and impedance properties of MPS structure based on (Cu₂O-CuO-PVA) interfacial layer**
Buyukbas-Uluslan A., Yeriskin S. A., TATAROĞLU A., Balbasi M., Kalandaragh Y.
Journal of Materials Science: Materials in Electronics, vol.29, no.10, pp.8234-8243, 2018 (SCI-Expanded)
- LXXXIX. **The role of annealing and synthesis conditions on the optical and morphological characteristics of CuO porous nanofilms**
Akbari H., Azizian-Kalandaragh Y.
Journal of Optoelectronics and Advanced Materials, vol.20, pp.175-179, 2018 (SCI-Expanded)
- XC. **Preparation and characterization of polysulfone/graphene oxide nanocomposite membranes for the separation of methylene blue from water**
Badrinezhad L., Ghasemi S., Azizian-Kalandaragh Y., Nematollahzadeh A.
POLYMER BULLETIN, vol.75, no.2, pp.469-484, 2018 (SCI-Expanded)
- XCI. **Preparation of Lead Oxide Nanostructures in Presence of Polyvinyl Alcohol (PVA) as Capping Agent**

and Investigation of Their Structural and Optical Properties

Azizian-Kalandaragh Y.

JOURNAL OF SEMICONDUCTOR TECHNOLOGY AND SCIENCE, vol.18, no.1, pp.91-99, 2018 (SCI-Expanded)

- XCII. **Preparation and characterization of cross-linked poly (vinyl alcohol)-graphene oxide nanocomposites as an interlayer for Schottky barrier diodes**
Badrinezhad L., BİLKAN Ç., Azizian-Kalandaragh Y., Nematollahzadeh A., Orak I., ALTINDAL Ş.
International Journal of Modern Physics B, vol.32, no.1, 2018 (SCI-Expanded)
- XCIII. **The effect of oleic acid concentration on the optical, structural, and magnetic properties of cobalt oxide nanostructures prepared by ultrasound-assisted method**
Azizian-Kalandaragh Y., Shokrani-Havigh R.
INORGANIC AND NANO-METAL CHEMISTRY, vol.48, no.1, pp.1-7, 2018 (SCI-Expanded)
- XCIV. **On the conduction mechanisms of Au/(Cu₂O–CuO–PVA)/n-Si (MPS) Schottky barrier diodes (SBDs) using current–voltage–temperature (I–V–T) characteristics**
Ulusan A. B., TATAROĞLU A., Azizian-Kalandaragh Y., Altindal Ş.
Journal of Materials Science: Materials in Electronics, vol.29, no.1, pp.159-170, 2018 (SCI-Expanded)
- XCv. **Facile ultrasound-assisted and microwave-assisted methods for preparation of Bi₂S₃-PVA nanostructures: exploring their pertinent structural and optical properties and comparative studies on the electrical, properties of Au/(Bi₂S₃-PVA)/n-Si Schottky structure**
Boughdachi S., Azizian-Kalandaragh Y., Badali Y., Altindal S.
Journal of Materials Science: Materials in Electronics, vol.28, no.23, pp.17948-17960, 2017 (SCI-Expanded)
- XCvI. **Series resistance and interface states effects on the C–V and G/w–V characteristics in Au/(Co₃O₄-doped PVA)/n-Si structures at room temperature**
Demirezen S., Orak I., Azizian-Kalandaragh Y., Altindal Ş.
Journal of Materials Science: Materials in Electronics, vol.28, no.17, pp.12967-12976, 2017 (SCI-Expanded)
- XCvII. **Facile sonochemical preparation of size controlled bismuth hydroxide and oxide nanostructures in the presence of polyvinyl alcohol (PVA) as a capping agent**
Sedaghatdoust-Bodagh F., Azizian-Kalandaragh Y.
Journal of Optoelectronics and Advanced Materials, vol.19, pp.663-669, 2017 (SCI-Expanded)
- XCvIII. **Thermodynamic geometry, condensation and Debye model of two-parameter deformed statistics**
Mohammadzadeh H., Azizian-Kalandaragh Y., Cheraghpour N., Adli F.
JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT, 2017 (SCI-Expanded)
- XCIX. **On the temperature dependent current transport mechanisms and barrier inhomogeneity in Au/SnO₂–PVA/n-Si Schottky barrier diodes**
Bilkan C., Badali Y., Fotouhi-Shablou S., Azizian-Kalandaragh Y., Altindal Ş.
Applied Physics A: Materials Science and Processing, vol.123, no.8, 2017 (SCI-Expanded)
- C. **Electric and Dielectric Properties of Au/ZnS-PVA/n-Si (MPS) Structures in the Frequency Range of 10–200 kHz**
BARAZ N., Yucedag I., Azizian-Kalandaragh Y., Ersoz G., Orak I., Altindal E., Akbari B., Akbari H.
Journal of Electronic Materials, vol.46, no.7, pp.4276-4286, 2017 (SCI-Expanded)
- CI. **Investigation of frequency and voltage dependence surface states and series resistance profiles using admittance measurements in Al/p-Si with Co₃O₄-PVA interlayer structures**
BİLKAN Ç., ALTINDAL Ş., Azizian-Kalandaragh Y.
Physica B: Condensed Matter, vol.515, pp.28-33, 2017 (SCI-Expanded)
- CII. **Characterization of Some Electrical Properties of CdS-Gelatin Nanocomposites Using Hall Measurement Technique**
Azizian-Kalandaragh Y., Sedaghatdoust-Bodagh F., Alizadeh-Gheshlaghi E., Khodayari A.
JOURNAL OF NANO-ELECTRONICS AND OPTOELECTRONICS, vol.12, no.3, pp.231-235, 2017 (SCI-Expanded)
- CIII. **Preparation of cobalt hydroxide and cobalt oxide nanostructures using ultrasonic waves and investigation of their optical and structural properties**
Shokrani-Havigh R., Azizian-Kalandaragh Y.
Journal of Optoelectronics and Advanced Materials, vol.19, pp.283-288, 2017 (SCI-Expanded)

- CIV. **Sonochemical preparation of Ag₂O-PVA nanocomposites: study on pertinent structural and optical properties and exploring the effect of gamma and neutron irradiation**
Behmanesh B., Rezaei-Ochbelagh D., Azizian-Kalandaragh Y., Imanzadeh-Karkaragh G.
CURRENT SCIENCE, vol.112, no.4, pp.735-742, 2017 (SCI-Expanded)
- CV. **Determining electrical and dielectric parameters of dependence as function of frequencies in Al/ZnS-PVA/p-Si (MPS) structures**
BARAZ N., Yuicedag I., Azizian-Kalandaragh Y., ALTINDAL Ş.
Journal of Materials Science: Materials in Electronics, vol.28, no.2, pp.1315-1321, 2017 (SCI-Expanded)
- CVI. **Frequency and voltage dependence dielectric properties, ac electrical conductivity and electric modulus profiles in Al/Co₃O₄-PVA/p-Si structures**
BİLKAN Ç., Azizian-Kalandaragh Y., ALTINDAL Ş., Shokrani-Havigh R.
Physica B: Condensed Matter, vol.500, pp.154-160, 2016 (SCI-Expanded)
- CVII. **Investigation of Electrical Characteristics in Al/CdS-PVA/p-Si (MPS) Structures Using Impedance Spectroscopy Method**
Ersoz G., Yuicedag I., Azizian-Kalandaragh Y., Orak I., ALTINDAL Ş.
IEEE Transactions on Electron Devices, vol.63, no.7, pp.2948-2955, 2016 (SCI-Expanded)
- CVIII. **Optical characterization of semiconductor CdS nanoparticles formed in polymer matrix**
Azizian-Kalandaragh Y., ÖZÇELİK S.
Optoelectronics and Advanced Materials, Rapid Communications, vol.10, pp.537-540, 2016 (SCI-Expanded)
- CIX. **Theoretical investigation of optical absorption process and J-V characteristics in nanostructured CuPc-C₆₀ bilayer solar cells**
Azizian-Kalandaragh Y., Dournama M., Abdolazadeh-Ziabari A.
Optoelectronics and Advanced Materials, Rapid Communications, vol.10, pp.378-384, 2016 (SCI-Expanded)
- CX. **Investigation of optical and structural properties of sonochemically prepared 3-mercaptopropionic acid capped bismuth sulfide nanostructures**
Azizian-Kalandaragh Y.
Optoelectronics and Advanced Materials, Rapid Communications, vol.10, pp.201-204, 2016 (SCI-Expanded)
- CXI. **Fe₃O₄-PVAc nanocomposites: surface modification of sonochemically prepared magnetite nanoparticles via chemical grafting of poly(vinyl acetate)**
Mansoori Y., Khodayari A., Banaei A., Mirzaeinejad M., Azizian-Kalandaragh Y., Pooresmaeil M.
RSC ADVANCES, vol.6, no.54, pp.48676-48683, 2016 (SCI-Expanded)
- CXII. **Ultrasound-assisted preparation and characterization of beta-Bi₂O₃ nanostructures: Exploring the photocatalytic activity against rhodamine B**
Azizian-Kalandaragh Y., Sedaghatdoust-Bodagh F., Habibi-Yangjeh A.
SUPERLATTICES AND MICROSTRUCTURES, vol.81, pp.151-160, 2015 (SCI-Expanded)
- CXIII. **Facile synthesis of silver nanostructures by using various deposition potential and time: A nonenzymetic sensor for hydrogen peroxide**
Amiri M., Nouhi S., Azizian-Kalandaragh Y.
MATERIALS CHEMISTRY AND PHYSICS, vol.155, pp.129-135, 2015 (SCI-Expanded)
- CXIV. **Effect of post-annealing treatment on the wetting, optical and structural properties of Ag/Indium tin oxide thin films prepared by electron beam evaporation technique**
Azizian-Kalandaragh Y., Nouhi S., Amiri M.
MATERIALS EXPRESS, vol.5, no.2, pp.137-145, 2015 (SCI-Expanded)
- CXV. **Structural and Biological Properties of CuO Nanoparticles Prepared Under Ultrasonic Irradiation**
Germi K. G., Shabani F., Khodayari A., Azizian-Kalandaragh Y.
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.44, no.9, pp.1286-1290, 2014 (SCI-Expanded)
- CXVI. **Preparation of CuO nanopowders and their catalytic activity in photodegradation of Rhodamine-B**
Shaabani B., Alizadeh-Gheshlaghi E., Azizian-Kalandaragh Y., Khodayari A.
ADVANCED POWDER TECHNOLOGY, vol.25, no.3, pp.1043-1052, 2014 (SCI-Expanded)
- CXVII. **Dielectric and optical properties of CdS-polymer nanocomposites prepared by the successive ionic**

layer adsorption and reaction (SILAR) method

Azizian-Kalandaragh Y., AYDEMİR U., ALTINDAL Ş.

Journal of Electronic Materials, vol.43, no.4, pp.1226-1231, 2014 (SCI-Expanded)

- CXVIII. **Comparison of quantum confinement effect on the reduced effective mass of CdSe nanocrystals prepared by different methods**
Azizian-Kalandaragh Y., Alizadeh-Siakeshi N.
Journal of Optoelectronics and Advanced Materials, vol.16, pp.345-350, 2014 (SCI-Expanded)
- CXIX. **Sonochemically prepared PbS nanostructures and investigation of their optical and structural properties**
Hosseini Z., Azizian-Kalandaragh Y., Khodayari A., Nedae-Shakarab B.
Optoelectronics and Advanced Materials, Rapid Communications, vol.8, pp.201-203, 2014 (SCI-Expanded)
- CXX. **Convenient preparation of CdS nanostructures as a highly efficient photocatalyst under blue LED and solar light irradiation**
Eskandari P., Kazemi F., Azizian-Kalandaragh Y.
SEPARATION AND PURIFICATION TECHNOLOGY, vol.120, pp.180-185, 2013 (SCI-Expanded)
- CXXI. **Effect of pH on the structural and optical properties of ZnS nanoparticles embedded in PVA matrix**
Farjami Shayesteh S., Kolahi S., Azizian-Kalandaragh Y.
Indian Journal of Pure and Applied Physics, vol.51, no.11, pp.780-783, 2013 (SCI-Expanded)
- CXXII. **The influence of post-annealing treatment on the wettability of Ag⁺/Na⁺ ion-exchanged soda-lime glasses**
Razzaghi A., Maleki M., Azizian-Kalandaragh Y.
APPLIED SURFACE SCIENCE, vol.270, pp.604-610, 2013 (SCI-Expanded)
- CXXIII. **Effect of Zn Addition on the Reduction of the Ordering Temperature of FePt Nanoparticles**
Zeynali H., Akbari H., Ghasabeh R. K., Azizian-Kalandaragh Y., Hosseinpour-Mashkani S. M., Baradaran J.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.26, no.3, pp.713-717, 2013 (SCI-Expanded)
- CXXIV. **Aqueous synthesis of CdO nanoparticles under ultrasonic waves and evaluation of their structural, morphological and optical properties**
Javan N., Azizian-Kalandaragh Y., Khodayari A.
Optoelectronics and Advanced Materials, Rapid Communications, vol.7, pp.639-642, 2013 (SCI-Expanded)
- CXXV. **Strong quantum confinement effects in SnS nanocrystals produced by ultrasound-assisted method**
Azizian-Kalandaragh Y., Khodayari A., Zeng Z., Garoufalis C. S., Baskoutas S., Cervera Gontard L.
JOURNAL OF NANOPARTICLE RESEARCH, vol.15, no.1, 2013 (SCI-Expanded)
- CXXVI. **Preparation of alpha-Fe₂O₃ nanostructures via simple ultrasound-assisted method**
Hasanzadeh J., AZIZIAN-KALANDARAGH Y., Khodayari A.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.14, pp.473-477, 2012 (SCI-Expanded)
- CXXVII. **Formation of silver nanoparticles inside a soda-lime glass matrix in the presence of a high intensity Ar⁺ laser beam**
Niry M. D., Mostafavi-Amjad J., Khalesifard H. R., Ahangary A., Azizian-Kalandaragh Y.
JOURNAL OF APPLIED PHYSICS, vol.111, no.3, 2012 (SCI-Expanded)
- CXXVIII. **Investigation of the catalytic activity of nano-sized CuO, Co₃O₄ and CuCo₂O₄ powders on thermal decomposition of ammonium perchlorate**
Alizadeh-Gheshlaghi E., Shaabani B., Khodayari A., Azizian-Kalandaragh Y., Rahimi R.
POWDER TECHNOLOGY, vol.217, pp.330-339, 2012 (SCI-Expanded)
- CXXIX. **Preparation of alpha-Fe₂O₃ nanostructures via simple ultrasound-assisted method**
Hasanzadeh J., Azizian-Kalandaragh Y., Khodayari A.
Journal of Optoelectronics and Advanced Materials, vol.14, pp.473-477, 2012 (SCI-Expanded)
- CXXX. **Comparative studies on energy-dependence of reduced effective mass in quantum confined ZnS semiconductor nanocrystals prepared in polymer matrix**
Kolahi S., Farjami-Shayesteh S., Azizian-Kalandaragh Y.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.14, pp.294-301, 2011 (SCI-Expanded)
- CXXXI. **Ultrasound-assisted preparation of CdSe nanocrystals in the presence of Polyvinyl alcohol as a**

capping agent

Azizian-Kalandaragh Y., Khodayari A.

MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.13, no.4, pp.225-230, 2010 (SCI-Expanded)

CXXXII. **Aqueous synthesis and characterization of nearly monodispersed ZnS nanocrystals**

Azizian-Kalandaragh Y., Khodayari A.

PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.207, no.9, pp.2144-2148, 2010 (SCI-Expanded)

CXXXIII. **Dielectric properties of CdS-PVA nanocomposites prepared by ultrasound-assisted method**

Azizian-Kalandaragh Y.

Optoelectronics and Advanced Materials, Rapid Communications, vol.4, no.11, pp.1655-1658, 2010 (SCI-Expanded)

CXXXIV. **Effect of thermal annealing and gamma irradiation on the optical properties of CdS-polymer nanocomposites**

Rezaei-Ochbelagh D., Azizian-Kalandaragh Y., Khodayari A.

Optoelectronics and Advanced Materials, Rapid Communications, vol.4, no.6, pp.881-883, 2010 (SCI-Expanded)

CXXXV. **Impedance spectroscopy (IS) and thermally stimulated discharged current (TSDC) studies on CdSe-PVA nanocomposites prepared by ultrasound-assisted method**

Azizian-Kalandaragh Y.

Optoelectronics and Advanced Materials, Rapid Communications, vol.4, no.2, pp.174-179, 2010 (SCI-Expanded)

CXXXVI. **Ultrasound-assisted synthesis of ZnO semiconductor nanostructures**

Azizian-Kalandaragh Y., Khodayari A., Behboudnia M.

MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.12, pp.142-145, 2009 (SCI-Expanded)

CXXXVII. **Structural, compositional and optical characterization of water soluble CdS nanoparticles synthesized by ultrasonic irradiation**

Kalandaragh Y., Muradov M., Mamedov R., Behboudnia M., Khodayari A.

Optoelectronics and Advanced Materials, Rapid Communications, vol.2, no.1, pp.42-45, 2008 (SCI-Expanded)

CXXXVIII. **Growth process and investigation of some physical properties of CdS nanocrystals formed in polymer matrix by successive ionic layer adsorption and reaction (SILAR) method**

Kalandaragh Y., Muradov M. B., Mamedov R. K., Khodayari A.

JOURNAL OF CRYSTAL GROWTH, vol.305, no.1, pp.175-180, 2007 (SCI-Expanded)

CXXXIX. **Synthesis and characterization of CdSe semiconductor nanoparticles by ultrasonic irradiation**

Behboudnia M., Azizianekalandaragh Y.

MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol.138, no.1, pp.65-68, 2007 (SCI-Expanded)

Articles Published in Other Journals

I. **A strategy to predict the current conduction mechanisms into Al/PVP:Gr-BaTiO₃/p-Si Schottky structure using Artificial Neural Network**

AZIZIAN-KALANDARAGH Y., ÖZÇELİK S., Barkhordari A., ALTINDAL Ş.

Micro and Nanostructures, vol.195, 2024 (Scopus)

II. **Impact of p-type Semiconductor Substrate on the Transient Response of Metal-Semiconductor-Metal Photodetector**

Barkhordari A., Mashayekhi H. R., ALTINDAL Ş., ÖZÇELİK S., AZIZIAN-KALANDARAGH Y.

Journal of Theoretical and Applied Physics, 2022 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Optimization of ASE Light Source Design for Enhancement of Wavelength Stability**

Akbas E. E., Yertutanol A., Andac T., Ozbay E., AZIZIAN-KALANDARAGH Y.

2023 IEEE SENSORS, SENSORS 2023, Vienna, Austria, 29 October - 01 November 2023

II. Metalens for creation of the longitudinally polarized photonic needle

Khonina S., Savelyev D., Degtyarev S., Azizian-Kalandaragh Y.

5th International Conference on Information Technology and Nanotechnology, ITNT 2019, Samara, Russia, 21 - 24 May 2019, vol.1368

III. Morphological and structural properties of metamaterial based on ITO/Sapphire/ZnS/Al superlattice

Akin B., ALTINDAL Ş., Farazin J., Pirgholi-Givi G., Azizian-Kalandaragh Y.

21st International Conference on Electromagnetics in Advanced Applications, ICEAA 2019, Granada, Spain, 9 - 13 September 2019, pp.816-819

IV. Utilization of Al₂O₃/PVP nanocomposite as an interfacial layer for schottky structures

Akin B., Pirgholi-Givi G., Farazin J., Azizian-Kalandaragh Y., ALTINDAL Ş.

13th International Congress on Artificial Materials for Novel Wave Phenomena, Metamaterials 2019, Rome, Italy, 16 - 21 September 2019

V. The optical response of ZnS nanoparticle embedded in PVA matrix

Shayesteh S. F., Kolahi S., Azizian Y.

2012 International Conference on Enabling Science and Nanotechnology, ESciNano 2012, Johor, Malaysia, 5 - 07 January 2012

Metrics

Publication: 150

Citation (WoS): 2857

Citation (Scopus): 2737

H-Index (WoS): 31

H-Index (Scopus): 31