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## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Low temperature DSC investigation of neutron irradiated non-crystalline  $\text{Si}_3\text{N}_4$  nanoparticles**  
Huseynov E., Naghiyev T.  
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.647, pp.1-6, 2025 (SCI-Expanded)
- II. **Adsorption of sarin on zigzag boron-nitride nanotubes (BNNTs) via DFT**  
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- III. **An investigation of structural, thermo-physical, and photoelectric properties of glassy  $\text{As}_2\text{Se}_3\text{-Ti}_2\text{Te}_3$  alloys**  
Aliyev I. I., Rzayev R. M., Hashimov K. M., Ahmedova C. A., Naghiyev T.  
MODERN PHYSICS LETTERS B, vol.38, no.25, 2024 (SCI-Expanded)
- IV. **Peculiarities of TP-e.m.f. caused by the heating of charge carriers by an electric field in a layered semiconductor n-InSe**  
Naghiyev T., Babayeva R., Abiyev A. S.  
EUROPEAN PHYSICAL JOURNAL B, vol.97, no.9, 2024 (SCI-Expanded)
- V. **Agglomeration and thermophysical parameters investigation of nanocrystalline  $\text{Al}_2\text{SiO}_5$  particles at different heating rates**  
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- VI. **Temperature dependence of photoconductivity in layered semiconductor p-GaSe**  
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- VII. **Effect of gamma irradiation and Dy atoms on the thermal conductivity of  $\text{TlInSe}_2$  crystals**  
Verdieva N., Jafarov M., Rzayev R., Naghiyev T.  
International Journal of Modern Physics B, vol.38, no.3, 2024 (SCI-Expanded)
- VIII. **The investigation gamma-irradiated nanocrystalline  $\text{ZrC}$  particles using infrared, DSC and TG methods**  
Huseynov E. M., Muradova G. I., Mehdiyeva R. N., Hakhiyeva R. R., Naghiyev T., Mehdiyev N. M., Melikova S. Z., Aliyeva-Cabbarli U. S.  
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- IX. **Determination shape of the potential well of traps in  $\text{TlGaTe}_2$  crystals**  
Abdullayev A. P., Rzayev R. M., Naghiyev T., Mammadova J. P., Aliyev S. S., Musazade I. V.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.37, no.28, 2023 (SCI-Expanded)

- X. **Infrared photoluminescence and dynamic properties of  $\text{ZnGa}_2\text{Se}_4$**   
Asadullayeva S. G., Ismayilova N. A., Naghiyev T.  
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- XI. **Investigation of the nanocrystalline nature of silicon carbide (3C-SiC) nanoparticles by XRD and TEM methods**  
Huseynov E. M., Naghiyev T.  
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- XII. **Electroluminescence in rare-earth doped n-InSe crystal promising for optoelectronics**  
Babayeva R., Naghiyev T.  
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- XIII. **Investigation of thermal parameters of AlN nanoparticles at the different heating rates**  
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- XIV. **Kinetics of electric destruction of polymer compositions**  
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- XV. **Thermophysical study of neutron irradiated silicon nitride nanoparticles**  
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- XVI. **The paramagnetic approach of the color-changing of nano h-BN particle under the neutron irradiation**  
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- XVII. **Various thermal parameters investigation of 3C-SiC nanoparticles at the different heating rates**  
Huseynov E. M., Naghiyev T.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.128, no.2, 2022 (SCI-Expanded)
- XVIII. **Influence of external factors on photoluminescence of  $\text{Ca}(\text{Al}_x\text{Ga}_{1-x})_2\text{S}_4:\text{Eu}^{2+}$  solid solutions**  
Tagiev O. B., Asadov E. G., Tagiev K. O., Gadzhieva G. S., Naghiyev T.  
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- XIX. **Thermodynamical study of  $(\text{CaGa}_2\text{S}_4)_x(\text{BaGa}_2\text{S}_4)_{1-x}$  solid solutions**  
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- XX. **Neutron-alpha reactions in nano  $\alpha\text{-Si}_3\text{N}_4$  particles by neutrons**  
Naghiyev T.  
MODERN PHYSICS LETTERS A, vol.36, no.24, 2021 (SCI-Expanded)
- XXI. **Optical and Dynamic Properties of  $\text{ZnGa}_2\text{S}_4$**   
Asadullayeva S. G., Jahangirli Z. A., Naghiyev T., Mammadov D. A.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.258, no.8, 2021 (SCI-Expanded)
- XXII. **Photoluminescence study of  $\text{Pr}^{3+}$  doped  $\text{CaGa}_2\text{S}_4$  in wide excitation intensity and temperature range**  
Leanenia M. S., Lutsenko E. V., Rzhetski M. V., Yablonskii G. P., Naghiyev T., Tagiev O. B.  
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- XXIII. **Effect of Gamma Irradiation on the Thermal Switching of a GeS:Nd Single Crystal**  
Alekperov A. S., Dashdemirov A. O., Naghiyev T., Jabarov S. H.  
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- XXIV. **The study of neutron capture processes in AlN nanoparticles**  
Naghiyev T.  
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- XXV. **Study of thermal parameters of nanocrystalline silicon carbide (3C-SiC) using DSC spectroscopy**

- Huseynov E. M., Naghiyev T.  
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- XXVI. **EPR spectroscopy of neutron irradiated nanocrystalline boron nitride (h-BN) particles**  
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- XXVII. **An investigation of silicon nitride ( $\text{Si}_3\text{N}_4$ ) nanoparticles interaction with neutrons**  
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- XXVIII. **Computer modeling for the study of (n, p) and (n,  $\alpha$ ) modifications in AlN nanoparticles**  
Naghiyev T.  
JOURNAL OF THE KOREAN PHYSICAL SOCIETY, vol.78, no.3, pp.232-235, 2021 (SCI-Expanded)
- XXIX. **High-temperature X-ray diffraction study of  $\text{Ag}_2\text{S}-\text{Cu}_2\text{S}$  system**  
Asadov Y. G., Aliyev Y. I., Dashdemirov A. O., Jabarov S. H., Naghiyev T.  
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- XXX. **Computer simulation of (n, p) modifications in silicon nitride ( $\text{Si}_3\text{N}_4$ ) nanoparticles**  
Naghiyev T.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.34, no.32, 2020 (SCI-Expanded)
- XXXI. **Ferrimagnetic-Paramagnetic Phase Transition in  $\text{BaFe}_{11.7}\text{In}_{0.3}\text{O}_{19}$  Compound**  
Agayev F. G., Jabarov S. H., Ayyubova G. S., Trukhanov A., Trukhanov S., Mirzayev M. N., Naghiyev T., Dang N. T.  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.33, no.9, pp.2867-2873, 2020 (SCI-Expanded)
- XXXII. **Structural aspects of thermal properties of AgCuS compound**  
Aliyev Y., Asadov Y. G., Ilyasli T. M., Mammadov F. M., Naghiyev T., Ismayilova Z. A., Mirzayev M. N., Jabarov S. H.  
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- XXXIII. **Thermal parameters investigation of neutron-irradiated nanocrystalline silicon carbide (3C-SiC) using DTA, TGA and DTG methods**  
Huseynov E. M., Naghiyev T., Aliyeva U. S.  
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- XXXIV. **Polymorphic transformations and thermal expansion of some modifications in  $\text{Ag}_{1.5}\text{Cu}_{0.5}\text{Se}$  and  $\text{Ag}_{0.4}\text{Cu}_{1.6}\text{Se}$**   
Aliyev Y., Asadov Y., Dashdemirov A., Aliyeva R., Naghiyev T., Jabarov S.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.33, no.23, pp.1-7, 2019 (SCI-Expanded)
- XXXV. **Thermostimulated Luminescence of GaS:Yb Crystals**  
Madatov R., Asadov F., Asadov E., Naghiyev T.  
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- XXXVI. **Influence of partial substitution of Cu atoms by Zn and Cd atoms on polymorphic transformation in the  $\text{Cu}_{1.75}\text{Te}$  crystal**  
Aliyev Y., Asadov Y., Aliyeva R., Naghiyev T., Jabarov S.  
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- XXXVII. **Study on luminescent properties of  $\text{Tb}^{3+}$  and  $\text{Sm}^{3+}$  co-doped  $\text{CaSiO}_3$  phosphors for white light emitting diodes**  
Khan D. T., Dang N. T., Jabarov S. H., Naghiyev T., Rzayev R., Nguyen T. Q., Tuyen H., Thanh N. T., Son L. V. T.  
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- XXXVIII. **Features of the edge photoconductivity of gamma-irradiated layered crystals GaS and GaS:Yb under the strong electric field**  
Madatov R., Alekperov A., Gadzhieva N., Asadov F., Allahverdiev S., Asadov E., Naghiyev T.  
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- XXXIX. **Photoluminescence of  $\text{Ca}_x\text{Ba}_{1-x}\text{Ga}_2\text{S}_4:\text{Eu}^{2+}$  solid solutions in wide excitation intensity and temperature intervals**

Leanenia M. S., Lutsenko E. V., Rzhetski M. V., Pavlovskii V. N., Yablonskii G. P., Naghiyev T., Tagiev B. G., Abushev S. A., Tagiev O. B.

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**XL. High photoluminescence stability of CaGa<sub>4</sub>O<sub>7</sub>:Eu<sup>3+</sup> red phosphor in wide excitation intensity interval**

Leanenia M. S., Lutsenko E. V., Rzhetski M. V., Yablonskii G. P., Naghiyev T., Ganbarova H. B., Tagiev O. B.

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**XLII. Photoluminescence of Ca(x)Ba<sub>1-x</sub>Ga<sub>2</sub>S<sub>4</sub> Solid Solutions Activated by Eu<sup>2+</sup> Ions**

Leanenia M. S., Lutsenko E. V., Rzhetski N. V., Pavlovskii V. N., Yablonskii G. P., Nagiev T., Tagiev B. G., Abushev S. A., Tagiev O. B.

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**XLIII. Luminescence of Ca<sub>0.5</sub>Ba<sub>0.5</sub>Ga<sub>2</sub>S<sub>4</sub> crystals activated by Eu<sup>2+</sup> and Er<sup>3+</sup> ions**

Tagiev B. G., Tagiev O. B., Nagiev T., Asadullaeva S. G., Leonenya M. S., Yablonskii G. P., Abushov S. A.

OPTICS AND SPECTROSCOPY, vol.118, pp.389-392, 2015 (SCI-Expanded)

**XLIV. Structural and luminescence properties of Ca<sub>x</sub>Ba<sub>1-x</sub>Ga<sub>2</sub>S<sub>4</sub>:Eu<sup>2+</sup> chalcogenide semiconductor solid solutions**

Tagiyev B. G., Tagiyev O. B., Mammadov A. I., Quang V. X., Naghiyev T., Jabarov S. H., Leonenya M. S., Yablonskii G. P., Dang N. T.

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**XLV. Luminescence and Lasing in ZnSe Micropowders at High Optical Excitation Levels**

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**II. Effect of the europium doping on the calcium sulphide: structural and thermal aspects**

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**III. Room temperature photoluminescence study of undoped ZnGa<sub>2</sub>S<sub>4</sub> compound**

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**V. ROOM TEMPERATURE PHOTOLUMINESCENCE STUDY OF UNDOPED ZnGa<sub>2</sub>S<sub>4</sub> COMPOUND**

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## **Metrics**

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