

ПЕРЕЛІК ПУБЛІКАЦІЙ КАФЕДРИ ФІЗИКИ ЗА 2025 рік

Статті (Україна)

1. E. N. Kovalenko, O. N. Yunakova, N. N. Yunakov Exciton absorption spectrum of K_2CuCl_3 thin films/ Fizyka Nyzkykh Temperatur. 2025, Vol. 51, No. 4, pp. 561–564. (фахове видання).
2. Storozhenko V. O., Miahkyi O.V., Meshkov S.M., Orel R.P. Application of wavelet analysis and differential-integral graphical methods for thermograms processing in thermal nondestructive testing / Україна, Технічна діагностика та неруйнівний контроль, №2, 2025. – С. 18-22 (фахове видання)
3. O.V. Lazorenko, A.A. Onishchenko, I. A. Taranova, M. A. Udovenko “Fractalization” of the Solid-State Physics/ Journal of V.N.Karazin Kharkiv National University. Series Physics. Iss.42, 43-52 (2025).(фахове видання)

Статті (закордонні)

1. E. N. Kovalenko, O. N. Yunakova, N. N. Yunakov Exciton absorption spectrum of K_2CuCl_3 thin films/ USA, Low Temperature Physics. 2025 (має імпакт-фактор, Scopus), Vol. 51, No. 10, Pp. 506–508.
2. Svitlana Kolomiyets, Wayne Hocking, Kirill Khrustalev, Serhii Kundyukov, Iryna Kyrychenko, Yurii Pryimachov History and scientific results of radar research of meteors in Ukraine: Kharkiv National University of Radio Electronics and its Boris Kashcheyev Laboratory/ Belgium, WGN, Journal of the International Meteor Organization, (Scopus), Vol. 53, no. 3, p. 131-142.

Тези доповідей (Україна)

1. Kulishova N., Yerokhina D., Kovalenko O. DEVELOPMENT OF A POSTER AS AN ELEMENT OF AUGMENTED REALITY IN THE STUDY OF PHYSICS IN UNIVERSITY// X Міжнародна науково-технічна конференція «Поліграфічні, мультимедійні та web-технології» (PMW- 2025), 14- 17 травня 2025 р., м. Харків, Україна, p. 132-133.
2. L. F. Chernogor, O. V. Lazorenko, A. A. Onishchenko Fractal Analysis of the Infrasound Signal Generated by the Tonga Volcano on January 15, 2022// Proceedings of International Conference in part of the Science Day in Ukraine dedicated to the 180th anniversary of the Astronomical Observatory

- of Taras Shevchenko National University of Kyiv, and to the 120th anniversary of the birth of Professor Serhiy Vsekhsvjatsky, May 27-30, 2025, Kyiv, Ukraine, p. 102-103.
3. Ye. Neuhodov, P. Maksimchuk, G. Grygorova, A. Onishchenko, N. Kavok, G. Dudetskaya, Yu. Kot, S. Yefimova, V. Seminko Fetal bovine serum-mediated enhancement of cerium oxide-based luminescent sensors for hydrogen peroxide detection// CM<P 2025. V International Conference Condensed Matter and Low Temperature Physics, 2 - 6 June Kharkiv, Ukraine, 2025, P. 190
 4. Y. Neuhodov, P. Maksimchuk, G. Grygorova, K. Hubenko, A. Onishchenko, N. Kavok, G. Dudetskaya, Yu. Kot, S. Yefimova, V. Seminko Enhanced hydrogen peroxide detection via FBS-stabilized cerium oxide nanocrystals// Ukrainian Conference with International Participation "CHEMISTRY, PHYSICS AND TECHNOLOGY OF SURFACE" dedicated to the 95th birthday of 1Academician Oleksii Chuiko, 28 - 29 May, Kyiv, Ukraine, 2025, P. 152
 5. Yevhen Neuhodov, Pavel Maksimchuk, Ganna Grygorova, Kateryna Hubenko, Andrey Onishchenko, Nataliya Kavok, Galyna Dudetskaya, Yurii Kot, Svetlana Yefimova, Vladyslav Seminko Recoverable luminescent hydrogen peroxide sensors based on CeO_{2-x} nanoparticles// International Conference of Young Scientists and Post-Graduate Students, 20–23, May Uzhhorod, Ukraine, 2025, P. 58
 6. Maksimchuk P., Grygorova G, Hubenko K., Onishchenko A., Kavok N., Dudetskaya G, Kot Yu., Yefimova S., Seminko V. FBS-stabilized cerium oxide nanoparticles for reversible luminescence detection of hydrogen peroxide with increased sensitivity// International Research and Practice Conference "Nanotechnology and Nanomaterials", 20-23, August, Bukovel, Ukraine, 2025, P.106
 7. Hubenko K.O., Maksimchuk P.O., Seminko V.V., Dudetskaya G.V. , Onishchenko A.A., Kavok N.S., Yefimova S.L. Prooxidant activity of CeO_{2-x} nanoparticles - Ascorbic acid complex// International Research and Practice Conference "Nanotechnology and Nanomaterials", 20-23, August, Bukovel, Ukraine, 2025, P.110
 8. Neuhodov Ye, Maksimchuk P, Grygorova G, Hubenko K., Onishchenko A., Kavok N., Dudetskaya G., Kot Yu., Yefimova S., Seminko V. CeO_{2-x} nanoparticles for redox-driven luminescent hydrogen peroxide sensing// International Research and Practice Conference "Nanotechnology and Nanomaterials", 20-23, August, Bukovel, Ukraine, 2025, P.129.
 9. Мягкий О.В., Калінін В.В. ОБРОБКА РЕЗУЛЬТАТІВ ТЕРМОГРАФІЇ ДЛЯ ВИЯВЛЕННЯ ДЕФЕКТІВ В ГАЗОПЕРЕКАЧУВАЛЬНОМУ

ОБЛАДНАННІ ІНТЕГРАЛЬНИМ МЕТОДОМ// ІХ Міжнародна науково-теоретична конференція «Проблеми та перспективи реалізації та впровадження міждисциплінарних наукових досягнень» - м. Луцьк, 13.06.2025, с. 215-218.

Тези доповідей (за кордоном)

1. Торба А. А., Рибалка А. І., Торба О. О., Торба Д. О., Бобкова А. А., Торба Д. Д. ЕНЕРГОЗБЕРІГАЮЧИЙ ПРИСТРІЙ ПОНИЖЕННЯ ТЕМПЕРАТУРИ// Велика Британія, VII International Scientific and Practical Conference “Education and Science of Today: intersectoral issue and development of sciences”, Cambridge, May 9, 2025, p. 283-286.
2. Storozhenko V., Miahkyi O., Orel R., Meshkov S. Information processing in thermal non-destructive control system// Туреччина, International Conferences on Natural Sciences and Technologies ICONAT–25, 12-14 July 2025. – P.25.
3. Miahkyi O., Orel R., Meshkov S., Storozhenko V. Increasing the efficiency of solar cells through additional layers of variazonal semiconductors// Туреччина, International Conferences on Natural Sciences and Technologies ICONAT–25, 12-14 July 2025. – P.21.
4. Pavel Maksimchuk , Yevhen Neuhodov , Kateryna Hubenko¹, Ganna Grygorova¹, Andrey Onishchenko , Nataliya Kavok, Galyna Dudetskaya, Yurii Kot, Svetlana Yefimova, Vladyslav Seminko Nanoceria Luminescence Enhanced by FBS: A Sensitive Approach for Hydrogen Peroxide Monitoring// 15th International Conference "Nanomaterials: Applications & Properties" , 7- 12 September, Bratislava, Slovakia, 2025. P. 11nra-19

Підготовлені до друку

1. A.Z. Rakhmatov , J.J. Khamdamov , A.V. Myagkiy, F.O. Boboyev ENHANCING THE ELECTROMOTIVE FORCE (EMF) OF THERMOELECTRIC GENERATORS USING GRADED-GAP SEMICONDUCTOR ELEMENTS. Uzbekistan, Semiconductor physics and microelectronics. Journal, 2025 (Scopus).
2. Pavel Maksimchuk , Yevhen Neuhodov , Kateryna Hubenko¹, Ganna Grygorova¹, Andrey Onishchenko , Nataliya Kavok, Galyna Dudetskaya, Yurii Kot, Svetlana Yefimova, Vladyslav Seminko Nanoceria Luminescence Enhanced by FBS: A Sensitive Approach for Hydrogen Peroxide Monitoring. Slovakia//Proceedings of 15th International

Conference "Nanomaterials: Applications & Properties" , 7- 12 September,
Bratislava, 2025. (Scopus)