

## Publications: National Technical University “Kharkiv Polytechnic Institute”

### SDG7: Affordable and Clean Energy (2021-2024)

No	Title	Authors	Year	Scopus Source title	Abstract
1.	Analyses of duck curve phenomena potential in polish PV prosumer households' installations	Olczak, P., Jaško, P., Kryzia, D., Matuszewska, D., Fyk, M.I., Dyczko, A.	2021	Energy Reports	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85111516735&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85111516735&amp;origin=resultslist</a>
2.	Methodology for Accounting for the Influence of Dust Cover on the Performance of a Photovoltaic System for Matlab Simulink	Khasawneh, A., Qawaqzeh, M., Miroshnyk, O., Danylchenko, D., Minakova, K., Potryvai, A.	2021	Proceedings of the 20th IEEE International Conference on Modern Electrical and Energy Systems, MEES 2021	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85123376699&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85123376699&amp;origin=resultslist</a>
3.	Optimal Design of the Cyclically Symmetrical Structure Under Static Load	Misura, S., Smetankina, N., Misiura, I.	2021	Lecture Notes in Networks and Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85101337040&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85101337040&amp;origin=resultslist</a>
4.	Analysis of Control Methods for the Traction Drive of an Alternating Current Electric Locomotive	Goolak, S., Tkachenko, V., Št'astniak, P., Saponova, S., Liubarskyi, B.	2022	Symmetry	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85123060675&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85123060675&amp;origin=resultslist</a>
5.	Protection of DC microgrids based on differential protection method by fuzzy systems	Dashtdar, M., Rubanenko, O., Danylchenko, D., Hosseinimoghadam, S.M.S., Sharma, N.K., Baiai, M.	2021	2021 IEEE 2nd KhPI Week on Advanced Technology, KhPI Week 2021 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118924302&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118924302&amp;origin=resultslist</a>
6.	Accounting for the Effect of PV Panel Dustiness on System Performance with Correction for Panel Cleaning for Matlab Simulink	Shevchenko, S., Dovgalyuk, O., Danylchenko, D., Rubanenko, O., Fedorchuk, S., Potryvai, A.	2021	2021 IEEE 3rd Ukraine Conference on Electrical and Computer Engineering, UKRCON 2021 - Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118920654&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118920654&amp;origin=resultslist</a>

7.	Multi-Objective Optimization of Energy Aware Virtual Machine Placement in Cloud Data Center	Gomathi, B., Saravana Balaji, B., Krishna Kumar, V., Abouhawwash, M., Aljahdali, S., Masud, M., Kuchuk, N.	2022	Intelligent Automation and Soft Computing	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85127800852&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85127800852&amp;origin=resultslist</a>
8.	The Influence of the Gas Content in the Working Fluid on Parameters of the the Hydraulic Motor's Axial Piston	Andrenko, P., Rogovyi, A., Hrechka, I., Khovanskyi, S., Svyntarenko, M.	2021	Lecture Notes in Mechanical Engineering	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85111339130&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85111339130&amp;origin=resultslist</a>
9.	The study of flat plate solar collector with absorbing elements from a polymer material	Selikhov, Y., Klemeš, J.J., Kapustenko, P., Arsenyeva, O.	2022	Energy	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85133728406&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85133728406&amp;origin=resultslist</a>
10.	Synthesis of the Current Controller of the Vector Control System for Asynchronous Traction Drive of Electric Locomotives	Goolak, S., Tkachenko, V., Saponova, S., Lukoševičius, V., Keršys, R., Makaras, R., Keršys, A., Liubarskyi, B.	2022	Energies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85127408414&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85127408414&amp;origin=resultslist</a>
11.	Application of Geoinformation Systems for Assessment of Effective Integration of Renewable Energy Technologies in the Energy Sector of Ukraine	Ostapenko, O., Olczak, P., Koval, V., Hren, L., Matuszewska, D., Postupna, O.	2022	Applied Sciences (Switzerland)	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85122265667&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85122265667&amp;origin=resultslist</a>
12.	Method of Selecting Energy-Efficient Parameters of an Electric Asynchronous Traction Motor for Diesel Shunting Locomotives— Case Study on the Example of a Locomotive Series ChME3 (ЧМЭ3, ČME3, ČKD S200)	Kuznetsov, V., Kardas-Cinal, E., Gołębiowski, P., Liubarskyi, B., Gasanov, M., Riabov, I., Kondratieva, L., Opala, M.	2022	Energies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85122149009&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85122149009&amp;origin=resultslist</a>

13.	Modernization of a simulation model of a photovoltaic module, by accounting for the effect of snowing of photovoltaic panels on system performance with correction for panel cleaning for matlab simulink	Shevchenko, S., Danylchenko, D., Dryvetskyi, S., Potryvai, A.	2021	2021 IEEE 2nd KhPI Week on Advanced Technology, KhPI Week 2021 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118938963&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118938963&amp;origin=resultslist</a>
14.	Methods for assessing the investment attractiveness of innovative projects	Pererva, P., Usov, M., Chernobrovkina, S., Larka, L., Rudyka, V.	2021	Estudios de Economia Aplicada	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85111029185&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85111029185&amp;origin=resultslist</a>
15.	IMPROVING A MODEL OF THE INDUCTION TRACTION MOTOR OPERATION INVOLVING NON-SYMMETRIC STATOR WINDINGS	Goolak, S., Liubarskyi, B., Sapronova, S., Tkachenko, V., Riabov, I., Glebova, M.	2021	Eastern-European Journal of Enterprise Technologies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85119424573&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85119424573&amp;origin=resultslist</a>
16.	Review of Developments in Plate Heat Exchanger Heat Transfer Enhancement for Single-Phase Applications in Process Industries	Arsenyeva, O., Tovazhnyanskyy, L., Kapustenko, P., Klemeš, J.J., Varbanov, P.S.	2023	Energies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85164792370&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85164792370&amp;origin=resultslist</a>
17.	Biaxial Heat Balance Model of a Solar Collector	Minakova, K.A., Zaitsev, R.V.	2022	Journal of Nano- and Electronic Physics	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85137616887&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85137616887&amp;origin=resultslist</a>
18.	Prediction the Melting Characteristics of Self-Shielded Flux Cored arc Welding (FCAW-S) with Exothermic Addition (CuO-Al)	Trembach, B., Balenko, O., Davydov, V., Brechko, V., Trembach, I., Kabatskyi, O.	2022	Proceedings of the 2022 IEEE 4th International Conference on Modern Electrical and Energy System, MEES 2022	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85147331334&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85147331334&amp;origin=resultslist</a>

19.	Finding Software Ways to Reduce the Error for the Solar Power Plant Simulation Model	Shevchenko, S., Danylchenko, D., Potryvai, A., Minakova, K., Dryvetskyi, S.	2022	Proceedings - 16th International Conference on Advanced Trends in Radioelectronics, Telecommunications and Computer Engineering, TCSET 2022	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85130615466&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85130615466&amp;origin=resultslist</a>
20.	Modeling the Energy Action of Vibration and Centrifugal Forces on the Working Medium and Parts in a Vibration Machine Oscillating Reservoir with an Impeller	Kundrák, J., Mitsyk, A.V., Fedorovich, V.A., Markopoulos, A.P., Grabchenko, A.I.	2021	Manufacturing Technology	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85108218467&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85108218467&amp;origin=resultslist</a>
21.	DEVELOPMENT OF A MODIFICATION OF THE METHOD FOR CONSTRUCTING ENERGY-EFFICIENT SENSOR NETWORKS USING STATIC AND DYNAMIC SENSORS	Petrivskyi, V., Shevchenko, V., Yevseiev, S., Milov, O., Laptiev, O., Bychkov, O., Fedoriienko, V., Tkachenko, M., Kurchenko, O., Opirskyy, I.	2022	Eastern-European Journal of Enterprise Technologies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85125845750&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85125845750&amp;origin=resultslist</a>
22.	Increasing the energy efficiency of the multi-motor traction electric drive of an electric locomotive for railway quarry transport	Riabov, I., Goolak, S., Kondratieva, L., Overianova, L.	2023	Engineering Science and Technology, an International Journal	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85153794477&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85153794477&amp;origin=resultslist</a>
23.	Simulation of the circulating motion of the working medium and metal removal during multi-energy processing under the action of vibration and centrifugal forces	Kundrák, J., Mitsyk, A.V., Fedorovich, V.A., Markopoulos, A.P., Grabchenko, A.I.	2021	Machines	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85108718423&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85108718423&amp;origin=resultslist</a>
24.	Refined Model of Asynchronous Traction Electric Motor of Electric Locomotive	Goolak, S., Liubarskyi, B., Sapronova, S., Tkachenko, V., Riabov, Ie.	2021	Transport Means - Proceedings of the International	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85123181121&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85123181121&amp;origin=resultslist</a>

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25.	SMART GRID AND WIND GENERATORS: AN OVERVIEW OF CYBER THREATS AND VULNERABILITIES OF POWER SUPPLY NETWORKS	Fursov, I., Yamkovyi, K., Shmatko, O.	2022	Radioelectric and Computer Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85146913383&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85146913383&amp;origin=resultslist</a>
26.	The Effect of Blade Angle Deviation on Mixed Inflow Turbine Performances	Chelabi, M.A., Saga, M., Kuric, I., Basova, Y., Dobrotvorskiy, S., Ivanov, V., Pavlenko, I.	2022	Applied Sciences (Switzerland)	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85128461195&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85128461195&amp;origin=resultslist</a>
27.	Analysis of the Efficiency of Traction Drive Control Systems of Electric Locomotives with Asynchronous Traction Motors	Goolak, S., Liubarskiy, B., Riabov, I., Lukoševičius, V., Keršys, A., Kilikevičius, S.	2023	Energies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85159307964&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85159307964&amp;origin=resultslist</a>
28.	DETERMINATION OF THE WORKING ENERGY CAPACITY OF THE ON-BOARD ENERGY STORAGE SYSTEM OF AN ELECTRIC LOCOMOTIVE FOR QUARRY RAILWAY TRANSPORT DURING WORKING WITH A LIMITATION OF CONSUMED POWER	Kondratieva, L., Bogdanovs, A., Overianova, L., Riabov, I., Goolak, S.	2023	Archives of Transport	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85152485287&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85152485287&amp;origin=resultslist</a>
29.	Traction electric drive based on fuel cell batteries and on-board inertial energy storage for multi unit train	Omelyanenko, V.I., Riabov, I.S., Overianova, L.V., Omelianenko, H.V.	2021	Electrical Engineering and Electromechanics	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85120060565&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85120060565&amp;origin=resultslist</a>

30.	Synthesis of the Energy-Saving Dry Dual Clutch Control Mechanism	Sergienko, N., Kalinin, P., Pavlenko, I., Ochowiak, M., Ivanov, V., Sergienko, A., Pavlova, N., Basova, Y., Titarenko, O., Nazarov, A., Krupińska, A., Matuszak, M., Włodarczak, S.	2023	Applied Sciences (Switzerland)	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85146677029&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85146677029&amp;origin=resultslist</a>
31.	Electrochemical synthesis of crystalline niobium oxide	Ryshchenko, I., Lyashok, L., Vasilchenko, A., Ruban, A., Skatkov, L.	2021	Materials Science Forum	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85112041457&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85112041457&amp;origin=resultslist</a>
32.	DEPOSITS AND QUALITY INDICATORS OF BROWN COAL IN UKRAINE	Miroshnichenko, D.V., Pyshyev, S.V., Lebedev, V.V., Bilets, D.Y.	2022	Naukovyi Visnyk Natsionalnoho Hirnychoho Universytetu	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85135571899&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85135571899&amp;origin=resultslist</a>
33.	Economic Assessment of Heat Exchanger Network Retrofit Options Based on Historical Data of Energy Price Trends	Gil, T., Ilchenko, M., Kaldybaeva, B., Mironov, A., Boldyryev, S.	2021	Chemical Engineering Transactions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85122581065&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85122581065&amp;origin=resultslist</a>
34.	Neuroregulator with a Simplified Structure for Electric Drive with Frictional Load	Klepikov, V.B., Bieliaiev, O.S.	2022	2022 IEEE 3rd KhPI Week on Advanced Technology, KhPI Week 2022 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141465553&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141465553&amp;origin=resultslist</a>
35.	A Simulation Model of the Impact of Solar Panel Dust Cover on them Performance	Lakshmi, G.S., Rubanenko, O., Danylchenko, D., Potryvai, A.	2021	Proceedings - 2021 IEEE International Conference on Intelligent Systems, Smart and Green Technologies, ICISST 2021	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85127607886&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85127607886&amp;origin=resultslist</a>

36.	PHE (Plate Heat Exchanger) for Condensing Duties: Recent Advances and Future Prospects	Kapustenko, P., Klemeš, J.J., Arsenyeva, O., Tovazhnyanskyy, L.	2023	Energies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85145775330&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85145775330&amp;origin=resultslist</a>
37.	Mathematical Model of the Electric Traction System of Quarry Railway Transport	Riabov, Ie., Liubarskyi, B., Overianova, L., Goolak, S., Kondratieva, L.	2022	Transport Means - Proceedings of the International Conference	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85144493086&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85144493086&amp;origin=resultslist</a>
38.	Prospects of Using Prosumers to Analyze the Potential of Demand Management	Kulapin, O., Ivakhnov, A., Danylchenko, D., Fedorchuk, S., Hrytsenko, V., Stanislav, D.	2022	2022 IEEE 3rd KhPI Week on Advanced Technology, KhPI Week 2022 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141542777&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141542777&amp;origin=resultslist</a>
39.	Effect of Exothermic Additions in Core Filler on Arc Stability and Microstructure during Self-Shielded, Flux-Cored Arc Welding	Lozynskyi, V., Trembach, B., Katinas, E., Sadovyi, K., Krbata, M., Balenko, O., Krasnoshapka, I., Rebrova, O., Knyazev, S., Kabatskyi, O., Kniazieva, H., Ropyak, L.	2024	Crystals	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85191456891&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85191456891&amp;origin=resultslist</a>
40.	Mathematical simulation of the vibration treatment of parts in a liquefied abrasive working medium	Kundrák, J., Morgan, M., Mitsyk, A.V., Fedorovich, V.A., Grabchenko, A.I.	2022	International Journal of Advanced Manufacturing Technology	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85127405017&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85127405017&amp;origin=resultslist</a>
41.	Simulation of a direct torque control system in the presence of winding asymmetry in induction motor	Goolak, S., Liubarskyi, B., Riabov, I., Chepurna, N., Pohosov, O.	2023	Engineering Research Express	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85163486517&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85163486517&amp;origin=resultslist</a>



42.	Radiation sensor based on thin-film CdTe/CdS device structure and its radiation resistance under high-intensity hydrogen plasma	Meriuts, A.V., Kharchenko, M.M., Khrypunov, G.S., Pudov, A.O., Makhlai, V.A., Herashchenko, S.S., Sokolov, S.A., Rybka, A.V., Kutny, V.E., Kolodiy, I.V., Dobrozhan, A.I., Kosinov, A.V., Khrypunov, M.G.	2022	Journal of Applied Physics	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85138283930&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85138283930&amp;origin=resultslist</a>
43.	Vibration Reliability of the Turbine Unit's Housing Considering Random Imperfections	Krasnikov, S., Rogovyi, A., Mishchenko, I., Avershyn, A., Solodov, V.	2022	Lecture Notes in Mechanical Engineering	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85132120276&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85132120276&amp;origin=resultslist</a>
44.	An Increase in the Energy Efficiency of Axial Turbines by Ensuring Vibration Reliability of Blade Milling	Pavlenko, I., Kononenko, S., Czernek, K., Witczak, S., Dobrotvorskiy, S., Basova, Y., Ivanov, V., Krupińska, A., Matuszak, M., Włodarczak, S., Ochowiak, M.	2023	Energies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85147918809&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85147918809&amp;origin=resultslist</a>
45.	Nanostructured CuI thin films on biodegradable nanocellulose flexible substrates for UV-shielding applications	Klochko, N.P., Barbash, V.A., Klepikova, K.S., Kopach, V.R., Yashchenko, O.V., Zhadan, D.O., Petrushenko, S.I., Dukarov, S.V., Sukhov, V.M., Khrypunova, A.L.	2021	Molecular Crystals and Liquid Crystals	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85111372558&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85111372558&amp;origin=resultslist</a>



46.	Utilizing thiourea-modified biochars to mitigate toxic metal pollution and promote mustard ( <i>Brassica campestris</i> ) plant growth in contaminated soils	Saleem, I., Ahmed, S.R., Lahori, A.H., Mierzwa-Hersztek, M., Bano, S., Afzal, A., Muhammad, M.T., Afzal, M., Vambol, V., Vambol, S., Zhang, Z.	2024	Journal of Geochemical Exploration	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85178614473&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85178614473&amp;origin=resultslist</a>
47.	Research and Optimization of Hybrid On-Board Energy Storage System of an Electric Locomotive for Quarry Rail Transport	Goolak, S., Kondratieva, L., Riabov, I., Lukoševičius, V., Keršys, A., Makaras, R.	2023	Energies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85152530483&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85152530483&amp;origin=resultslist</a>
48.	DEVELOPMENT OF RATIONAL TECHNOLOGY FOR SODIUM GLYCEROXIDE OBTAINING	Korchak, M., Bliznjuk, O., Nekrasov, S., Gavrish, T., Petrova, O., Shevchuk, N., Strikha, L., Kostyrkin, O., Semenov, E., Saveliev, D.	2022	Eastern-European Journal of Enterprise Technologies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141749991&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141749991&amp;origin=resultslist</a>
49.	Assessment of renewable energy use in natural gas liquid processing by improved process integration with heat pumps	Boldyryev, S., Kuznetsov, M., Ryabova, I., Krajačić, G., Kaldybaeva, B.	2023	e-Prime - Advances in Electrical Engineering, Electronics and Energy	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85168495257&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85168495257&amp;origin=resultslist</a>
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52.	DEVELOPMENT OF A METHOD FOR OBTAINING A CdS/CdTe/Cu/Au MODULE ON A FLEXIBLE SUBSTRATE DESIGNED FOR BACKUP SUPPLYING SYSTEMS PREVENTION OF EMERGENCY SITUATIONS	Deyneko, N., Yeremenko, S., Kamyshentsev, G., Kryvulkin, I., Matiushenko, M., Myroshnyk, O., Pruskyi, A., Soshinsky, O., Strelets, V., Shevchenko, R.	2021	Eastern-European Journal of Enterprise Technologies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85109893504&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85109893504&amp;origin=resultslist</a>
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57.	DETERMINATION OF RATIONAL CONDITIONS FOR OIL EXTRACTION FROM OIL HYDRATION WASTE	Bliznjuk, O., Masalitina, N., Myronenko, L., Zhulinska, O., Denisenko, T., Nekrasov, S., Stankevych, S., Bragin, O., Romanov, O., Romanova, T.	2022	Eastern-European Journal of Enterprise Technologies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85125861760&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85125861760&amp;origin=resultslist</a>
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59.	DEVISING A METHOD FOR REDUCING ACTIVE POWER CORONA LOSSES BASED ON CHANGING THE STRUCTURAL PARAMETERS OF A POWER TRANSMISSION LINE	Shevchenko, S., Olubakinde, E., Danylchenko, D., Nazarenko, I., Savchenko, N., Shylkova, L.	2022	Eastern-European Journal of Enterprise Technologies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85125844839&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85125844839&amp;origin=resultslist</a>
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63.	Contribution of leading edge shape to a damaging of castellated tungsten targets exposed to repetitive QSPA plasma loads	Makhlai, V.A., Garkusha, I.E., Herashchenko, S.S., Byrka, O.V., Aksenov, N.N., Malykhin, S.V., Surovitskiy, S.V., Wirtz, M.	2021	Physica Scripta	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118478367&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118478367&amp;origin=resultslist</a>
64.	Numerical Assessment of the Rates of Solid Fuel Combustion Reactions and Their Impact on the Working Process of a Solid-Fuel Piston Engine	Belousov, E., Marchenko, A., Gritsuk, I., Bulgakov, M., Kravchenko, S., Polyvianchuk, A., Samarin, O., Ahieiev, M., Vrublevskiy, R.	2021	SAE Technical Papers	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85103799507&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85103799507&amp;origin=resultslist</a>
65.	Mathematical modelling of transients in the electric drive of the turnout of the mono-sleeper type with switched-inductor motor	Buriakovskiy, S.G., Maslii, A.S., Asmolova, L.V., Goncharuk, N.T.	2021	Electrical Engineering and Electromechanics	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85120816419&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85120816419&amp;origin=resultslist</a>
66.	Uniaxial Heat Balance Model of the Solar Collector	Minakova, K.A., Zaitsev, R.V.	2021	Journal of Nano- and Electronic Physics	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85122268216&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85122268216&amp;origin=resultslist</a>

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69.	Computational modelling of wind turbine lifetime	Krasii, D., Larin, O.	2021	2021 IEEE 2nd KhPI Week on Advanced Technology, KhPI Week 2021 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118927208&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118927208&amp;origin=resultslist</a>
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73.	DEVELOPMENT OF A METHOD FOR PRODUCING EFFECTIVE CDS/CDTE/CU/AU SOLAR ELEMENTS ON A FLEXIBLE SUBSTRATE DESIGNED FOR BACKUP SUPPLYING SYSTEMS PREVENTION OF EMERGENCY SITUATIONS	Borysenko, I., Burmenko, O., Deyneko, N., Zobenko, O., Yivzhenko, Y., Kamyshentsev, G., Muraviov, V., Mykhailovska, Y., Khrystych, V., Kryvonis, S.	2021	Eastern-European Journal of Enterprise Technologies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85123786493&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85123786493&amp;origin=resultslist</a>
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75.	Concerning the Diagnosis of Asymmetric Modes in the Traction Induction Drive of the Electric Locomotive	Goolak, S., Riabov, I., Tkachenko, V., Kondratieva, L.	2022	2022 IEEE 3rd KhPI Week on Advanced Technology, KhPI Week 2022 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141522551&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141522551&amp;origin=resultslist</a>
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82.	Semantic networks based design of electric drives	Kotlyarov, V., Buryakovskiy, S., Maslii, A., Smirnov, V.	2021	2021 IEEE 2nd KhPI Week on Advanced Technology, KhPI Week 2021 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118958331&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118958331&amp;origin=resultslist</a>
83.	OPTIMIZATION OF TRACTION PROPERTIES THE ELECTRIC TRACTOR BASED ON THE SIMULATION DLG-POWERMIX TEST CYCLES	Kozhushko, A., Tkachov, V., Mittsel, M., Sokolik, S., Stanciu, D.	2024	International Journal of Mechatronics and Applied Mechanics	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85191293573&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85191293573&amp;origin=resultslist</a>



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85.	Neural Network Controller Based Slippage Prevention System For Electric Vehicle	Vorobiov, B., Senchenko, S., Pshenychnykov, D., Brynza, N., Tymoshchenko, A.	2022	2022 IEEE 3rd KhPI Week on Advanced Technology, KhPI Week 2022 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141484778&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141484778&amp;origin=resultslist</a>
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91.	Mapping the European innovation ecosystems for renewable energy: The role and impact of MNCs	Danko, T., Krasnokutska, N., Shyriaieva, N.	2023	2023 IEEE International Conference on Technology and Entrepreneurship, ICTE 2023	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85190710015&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85190710015&amp;origin=resultslist</a>
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93.	Deep Learning-Based Impurity Evaluation: Targeting Silicon Solar Cells' Photovoltaic Parameters	Olikh, O., Zavorodnii, O., Olikh, Y., Gapochenko, S., Lyubchenko, O.	2022	2022 IEEE 3rd KhPI Week on Advanced Technology, KhPI Week 2022 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141462082&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141462082&amp;origin=resultslist</a>
94.	Simulation Modeling of a Hybrid Diesel Locomotive Power Plant Based on a Free-Piston Engine	Buriakovskiy, S., Asmolova, L., Obruch, I., Maslii, A., Pomazan, D.	2022	Proceedings of the 2022 IEEE 4th International Conference on Modern Electrical and Energy System, MEES 2022	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85147324599&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85147324599&amp;origin=resultslist</a>

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96.	Selecting the Method for Pre-tightening Threaded Connections of Heavy Engineering Objects	Gaydamaka, A., Muzikin, Y., Klitnoi, V., Basova, Y., Dobrotvorskiy, S.	2022	Lecture Notes in Networks and Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85113580497&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85113580497&amp;origin=resultslist</a>
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98.	ADAPTATION OF MUNICIPAL GOVERNANCE MECHANISMS TO EUROPEAN STANDARDS	Diegtiar, O.A., Gevorkyan, A.Yu., Cherepovska, T.V., Kuzmenko, S.H., Mozhaykina, N.V.	2021	Public Policy and Administration	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85122725460&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85122725460&amp;origin=resultslist</a>
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10	IMPROVING VEHICLE DAMPING OF VIBRATION BY IMPROVING PNEUMATIC SPRING	Masliyev, V., Dushchenko, V., Yepifanov, V., Nanivskyi, R., Cherevko, Y., Masliev, A., Demydov, A., Makarenko, Y.	2022	Eastern-European Journal of Enterprise Technologies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85126108285&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85126108285&amp;origin=resultslist</a>
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120	Research of Closed Loop Control Systems of the Electric Drive of Mine Electric Locomotive with the DC Series Motor and Nonlinear Load	Ihor, O., Larysa, A., Serhii, B.	2021	Proceedings of the 20th IEEE International Conference on Modern Electrical and Energy Systems, MEES 2021	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85123360202&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85123360202&amp;origin=resultslist</a>
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135	Improving the Energy Efficiency of Small Hydropower Plants by Connecting an Energy Saving System with Kinetic Energy Storage	Savchenko, N., Dovgalyuk, O., Tretiak, A., Syromyatnikova, T.	2023	Proceedings of the 5th International Conference on Modern Electrical and Energy System, MEES 2023	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85184991607&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85184991607&amp;origin=resultslist</a>
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139	Individual Heat Substations Integrated with Heat Pumps for District Heating Systems in Ukraine	Yuzbashyan, A., Polyvianchuk, A., Klemeš, J.J., Kapustenko, P., Klochok, E., Arsenyeva, O.	2021	Chemical Engineering Transactions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85122507739&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85122507739&amp;origin=resultslist</a>
140	DEFINING INNOVATIVE AREAS AND PROSPECTS TO DEVELOP THE PATENTING OF TECHNOLOGICAL ADVANCES IN THE AUTOMOTIVE POWER PLANT INDUSTRY	Mishchenko, M.	2024	Eastern-European Journal of Enterprise Technologies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85190114336&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85190114336&amp;origin=resultslist</a>
141	Intellectual and Innovative Directions of Improving the Market Characteristics of Asynchronous Electric Motors	Pererva, P., Kobieliev, V., Maslak, M., Maslak, O., Kobielieva, A.	2022	Proceedings of the 2022 IEEE 4th International Conference on Modern Electrical and Energy System, MEES 2022	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85147326528&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85147326528&amp;origin=resultslist</a>
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143	System for Prediction of the Technical Condition of Electric Power Equipment	Danylchenko, D., Potryvai, A., Mazur, M.	2023	2023 IEEE 4th KhPI Week on Advanced Technology, KhPI Week 2023 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179520174&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179520174&amp;origin=resultslist</a>

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145	A Generalized Approach to Deduce the Wave Parameters of High-Voltage Single-Core Power Cables	Bezprozvannykh, G.V., Grynysyna, M.V.	2023	2023 IEEE 4th KhPI Week on Advanced Technology, KhPI Week 2023 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179509342&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179509342&amp;origin=resultslist</a>
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147	STUDY OF STARTING MODES OF SINGLE-PHASE INDUCTION MOTORS WHEN CHANGING THE PARAMETERS OF THE STATOR WINDINGS, PHASE-SHIFTING CAPACITOR AND SUPPLY VOLTAGE	Aldaikh, S.O., Rawashdeh, M.O., Hussienat, L.H., Qawaqzeh, M., Iegorov, O., Iegorova, O., Kundenko, M., Danylchenko, D., Miroshnyk, O., Shchur, T.	2024	Informatyka, Automatyka, Pomiarzy w Gospodarce i Ochronie Srodowiska	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85198362861&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85198362861&amp;origin=resultslist</a>
148	Metallographic Determination of the Number and Sizes of Grains Depending on Structural and Phase Changes in the Metal of Welded Steam Pipe Joints	Harashchenko, O., Dmytryk, V., Berezutskiy, V., Syrenko, T.	2022	Lecture Notes in Mechanical Engineering	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85131961002&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85131961002&amp;origin=resultslist</a>
149	Parameter estimation of hydraulic equipment of hydro-electric power station based on numerical simulation of the spatial flow	Krupa, E., Rezvaya, K., Makarov, V.	2021	2021 IEEE 2nd KhPI Week on Advanced Technology, KhPI Week 2021 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118921950&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118921950&amp;origin=resultslist</a>

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151	Reduction of Energy Consumption by Electric Rolling Stock of Quarry Railways	Kondratieva, L., Overianova, L., Riabov, I., Yeritsyan, B., Goolak, S.	2024	Lecture Notes in Intelligent Transportation and Infrastructure	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85186185910&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85186185910&amp;origin=resultslist</a>
152	ELECTRICITY DEMAND MANAGEMENT AS A SUPPLEMENT TO DISTRIBUTED GENERATION	Pantielieieva, I., Shmatko, N., Glushko, A.	2023	2023 IEEE 4th KhPI Week on Advanced Technology, KhPI Week 2023 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179521531&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179521531&amp;origin=resultslist</a>
153	Connection CdS/CdTe Based Photovoltaic Converters in Micromodules	Kirichenko, M., Kuziakin, O., Zaitsev, R., Leliuk, S., Minakova, K., Escarra, M.	2023	2023 IEEE 4th KhPI Week on Advanced Technology, KhPI Week 2023 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179521909&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179521909&amp;origin=resultslist</a>
154	Effective Conveyor Belt Control Based on the Time-Of-Use Tariffs	Pihnastyi, O., Kozhevnikov, G.	2021	Lecture Notes in Networks and Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85101333695&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85101333695&amp;origin=resultslist</a>
155	Identification of the Parameter of the Single-Phase Flow Model in the Reservoir with the Power Law of Filtration	Gamzaev, K., Leonov, S., Huseynzade, S., Kerimova, S.	2023	2023 5th International Conference on Problems of Cybernetics and Informatics, PCI 2023	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179884625&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179884625&amp;origin=resultslist</a>
156	Innovative Technology to Combat Sars-Cov Using a Finely Dispersed Catching Medium and Microwave Energy	Aleksenko, B.A., Dobrotvorskiy, S., Basova, Y., Sokol, Y., Edl, M., Dobrovolska, L.	2023	Lecture Notes in Networks and Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85137973970&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85137973970&amp;origin=resultslist</a>

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158	DYNAMIC MODEL OF AN ITERATIVE ELECTRIC FEED DRIVE WITH TWO SCREW GEARS FOR PRECISION MACHINE TOOLS AND MACHINING CENTERS	Khudiayev, O.A., Pshenychnykov, D.O., Klepikov, V.B., Obruch, I.V.	2024	Technical Electrodynamics	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85196319167&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85196319167&amp;origin=resultslist</a>
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161	Improvement of the Simulation Model of a Solar Power Plant, Modernization of the Block for Accounting for the Effect of Cooling Panels by Wind Currents	Shevchenko, S., Danylchenko, D., Potryvai, A., Miroshnyk, O., Tsiupa, V., Dryvetskyi, S.	2022	Proceedings of the 2022 IEEE 4th International Conference on Modern Electrical and Energy System, MEES 2022	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85147324678&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85147324678&amp;origin=resultslist</a>
162	Mobile Solar Power Plant "Pyramid" with a Kinetic Energy Storage	Savchenko, N., Tretiak, A., Dovgalyuk, O., Danylchenko, D., Syromyatnikova, T.	2024	Lecture Notes in Networks and Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85195262526&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85195262526&amp;origin=resultslist</a>



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16	Optimal HEN with PHEs for Carbon Dioxide Capture by Amine Absorption Unit at Coal Fired Power Station	Kapustenko, P., Klemes, J.J., Perevertaylenko, O., Tovazhnyanskyy, L., Arsenyeva, O., Klochok, E., Ved, V.	2023	Chemical Engineering Transactions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179072954&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179072954&amp;origin=resultslist</a>
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16	The Cluster approach to the formation of innovative susceptibility priorities within the framework of the Euroconcept «green U-turn» to renewable energy in Ukraine	Diuzhev, V., Suslikov, S., Savchenko, O., Matrosova, V., Veriutina, V.	2021	E3S Web of Conferences	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85105755691&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85105755691&amp;origin=resultslist</a>
16	Evaluation of the energy efficiency of the infrared long-wave heating system in various applications	Bulhakov, O., Ivakhnov, A., Litvinov, O., Maslak, M., Fedorchuk, S., Kulapin, O.	2023	2023 IEEE 4th KhPI Week on Advanced Technology, KhPI Week 2023 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179521590&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179521590&amp;origin=resultslist</a>
16	Devising a Method for Reducing Active Power Corona Losses Based on Changing the Structural Parameters of a Power Transmission Line	Shevchenko, S., Danylchenko, D., Dryvetskyi, S.	2023	Studies in Systems, Decision and Control	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85169087374&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85169087374&amp;origin=resultslist</a>



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170	Flexible Environmentally Friendly Thermoelectric Material Made of Copper (I) Iodide and Nanocellulose for Green Energy	Klochko, N.P., Barbash, V.A., Petrushenko, S.I., Kopach, V.R., Shepotko, Y.M., Dukarov, S.V., Sukhov, V.M., Yashchenko, O.V., Khrypunova, A.L.	2023	Journal of Nano- and Electronic Physics	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85171280158&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85171280158&amp;origin=resultslist</a>
171	Energy Saving Theoretical Principles and Their Technological Implementation in High-Temperature Production of Building, Household and Technical Ceramics	Fedorenko, O.Y., Pitak, Y.M., Kartyshev, S.V., Kapustenko, P.	2023	Chemical Engineering Transactions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179118995&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179118995&amp;origin=resultslist</a>
172	Comparative Analysis of Energy Efficiency of Geometric Constructions Solar Low-power Plants	Shevchenko, S., Savchenko, N., Dovgalyuk, O., Danylchenko, D., Tretiak, A.	2023	2023 IEEE 4th KhPI Week on Advanced Technology, KhPI Week 2023 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179512156&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179512156&amp;origin=resultslist</a>
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174	Study of the hardfacing process using self-shielding flux-cored wire with an exothermic addition with a combined oxidizer of the Al-(CuO/Fe <sub>2</sub> O <sub>3</sub> ) system	Trembach, B., Silchenko, Y., Balenko, O., Hlachev, D., Kulahin, K., Heiko, H., Bellorin- Herrera, O., Khabosha, S., Zakovorotnyi, O., Trembach, I.	2024	International Journal of Advanced Manufacturing Technology	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85198954934&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85198954934&amp;origin=resultslist</a>
175	Control of FET transistor electronic load	Zaitsev, R., Minakova, K., Kirichenko, M., Vorobiov, B.	2022	2022 IEEE 3rd KhPI Week on Advanced Technology, KhPI Week 2022 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141541989&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141541989&amp;origin=resultslist</a>
176	Analysis of Mechanisms to Increase the Industrial Silicon Solar Cell Efficiency	Kirichenko, M.V., Zaitsev, R.V., Minakova, K.A., Chugai, O.M., Oleynick, S.V., Bilyk, S.Y., Styslo, B.O.	2021	Journal of Nano- and Electronic Physics	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85123539610&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85123539610&amp;origin=resultslist</a>
177	Balance of the Rare-Earth Elements Market: Prospects for the Development of Green Energy	Maslak, O., Hlazunova, O., Maslak, M., Grishko, N., Pochtoviuk, K., Szabolcs, N.	2023	Proceedings of the 5th International Conference on Modern Electrical and Energy System, MEES 2023	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85185008586&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85185008586&amp;origin=resultslist</a>
178	Analysis of Operating Modes of Shunting Locomotives at Industrial Enterprises	Roi, S., Kachan, A., Tykhonov, A., Yeritsyan, B., Riabov, Ie.	2023	Transport Means - Proceedings of the International Conference	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85176232769&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85176232769&amp;origin=resultslist</a>
179	Active rectifier with a fixed modulation frequency and a vector control system in the mode of bidirectional energy flow.	Krylov, D.S., Kholod, O.I.	2023	Electrical Engineering and Electromechanics	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85175050712&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85175050712&amp;origin=resultslist</a>

180	The effect of UV and glow-discharge hydrogen plasma irradiation on the crystalline structure and efficiency of CdTe/CdS thin film solar cells prepared by the quasi-closed volume method	Harchenko, M.M., Meriut, A.V., Nikitin, A.V., Surovitskiy, S.V., Dobrozhan, A.I., Buts, Y.V.	2021	Functional Materials	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85104025659&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85104025659&amp;origin=resultslist</a>
181	Design and Modernization of Circuit for Fuel Oil Heating and Tar Cooling	Babak, T., Demirskyy, A., Khavin, G., Riabova, I.	2022	Lecture Notes in Mechanical Engineering	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85132111884&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85132111884&amp;origin=resultslist</a>
182	Agricultural waste in Libya as a resource for biochar and methane production: An analytical study	Elmnifi, M., Almaktar, M., Vambol, S., Trush, O., Sydorenko, V., Mykhailov, V.	2024	Ecological Questions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85181942349&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85181942349&amp;origin=resultslist</a>
183	Approach to the industrial automation systems design, taking into account the properties of electric drives	Kotlyarov, V., Kovalov, A., Buryakovskiy, S., Vorontsova, M.	2023	2023 IEEE 4th KhPI Week on Advanced Technology, KhPI Week 2023 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179511406&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179511406&amp;origin=resultslist</a>
184	Testing of solar station based on cooled photovoltaic module	Zaitsev, R.V., Kirichenko, M.V., Zaitseva, L.V.	2021	2021 IEEE 2nd KhPI Week on Advanced Technology, KhPI Week 2021 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118957616&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118957616&amp;origin=resultslist</a>
185	Prospects of Biogas for High-temperature Heat-technological Complexes in Glass Industry	Koshelnik, O., Puhachova, T., Kruhliakova, O., Pavlova, V., Martynenko, V., Tarasenko, O.	2023	Proceedings of the 5th International Conference on Modern Electrical and Energy System, MEES 2023	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85184994305&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85184994305&amp;origin=resultslist</a>

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187	A Special Feature of Turbine Blade Deformation During Machining	Dobrotvorskiy, S., Basova, Y., Kononenko, S., Dobrovolska, L., Mounif, A.S.Y.	2022	Lecture Notes in Mechanical Engineering	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85131922220&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85131922220&amp;origin=resultslist</a>
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189	IMPROVING THE EFFICIENCY OF DRYING EISENIA FETIDA BY USING A TECHNIQUE WITH INDUCED HEAT AND MASS TRANSFER	Pogozhikh, N., Pak, A., Pak, A., Sychov, A., Sychova, T., Sofronova, M.	2022	Eastern-European Journal of Enterprise Technologies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85147737369&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85147737369&amp;origin=resultslist</a>
190	Study of super/turbocharger system for helicopter diesel engine	Prokhorenko, A., Vrublevskiy, O., Grytsyuk, O., Kuzmenko, A., Kravchenko, S.	2021	Diagnostyka	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85116298859&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85116298859&amp;origin=resultslist</a>
191	Heat Balance Model for PV/T Systems	Minakova, K., Zaitsev, R., Kirichenko, M., Vorobiov, B.	2022	2022 IEEE 3rd KhPI Week on Advanced Technology, KhPI Week 2022 - Conference Proceedings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141523634&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141523634&amp;origin=resultslist</a>

193	Influence of Microsecond Pulse Helium Plasma Flow on the Surface Morphology and Crystal Structure of the Photovoltaic Converters Based on CdS/CdTe	Khrypunov, G.S., Harchenko, M.M., Meriuts, A.V., Carlin, J.F., Makhlai, V.A., Herashchenko, S.S., Abashin, S.L., Surovitskiy, S.V., Pudov, A.O., Dobrozhan, A.I.	2024	Journal of Nano- and Electronic Physics	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85199258869&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85199258869&amp;origin=resultslist</a>
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204	Connection CdS/CdTe Based Photovoltaic Converters in Micromodules	Minakova, K., Zaitsev, R., Kirichenko, M.	2023	2023 IEEE Nanotechnology Materials and Devices Conference, NMDC 2023	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85182018431&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85182018431&amp;origin=resultslist</a>
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