ABSTRACT&REFERENCES

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RESEARCH OF THE INFLUENCE OF THE ORGANIZATIONAL-TECHNOLOGICAL RESOURCE OF BUSINESS ON THE DEVELOPMENT OF INNOVATIVE ELEMENTS OF THE ECONOMIC SYSTEM

p. 6-11

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The article addresses the concept of an organizational and technological business resource, finds out a cyclic nature of transformation of an innovative resource into a traditional one, as well as analyzes impact of a technological resource on the development of innovative elements in the market system and on the emergence of its new organizational form sin the context of world economy globalization. The article is devoted to the dynamic transformation of forms of economic systems and models of their development, demonstrates their transformation into optimal innovative and traditional economic systems with the dominance of innovative relationships in activities
Keywords: *organization and technology types, traditional and innovative resources, economic system*

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YIELD OF DIFFERENT VARIETIES OF WINTER CEREALS IN DEPENDENCE ON TERMS OF SOWING IN THE BLACK SEA CONDITIONS

p. 12-16

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The object of research is the processes of formation of productivity and quality of crops depending on the agrochemical composition of the soil.
The aim of research is creation of information and methodological support for the evaluation of new varieties for different abiotic conditions and to develop innovative technologies for growing winter crops.
The scientific bases of the influence of sowing periods on the formation of yield of promising winter wheat and winter barley varieties are developed.
Positive response of new winter wheat varieties to different sowing periods is revealed.
It is established that sowing periods should be set differentially for varieties with different periods of vernalization and different photoperiodic sensitivity.
It is determined that sowing time has a significant impact on the grain yield of winter cereals studied in the experiment
Keywords: *sowing time, winter wheat, winter barley, perspective varieties, yield*

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SUSCEPTIBILITY OF PIPE STEEL OF A CONTROLLABLE ROLLING TO STRESS-CORROSION CRACKING

p. 17-27

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Susceptibility of X70 pipe steel to stress-corrosion cracking (SCC) under complex influence of factors is investigated. Sensitivity to SCC is evaluated by K_S coefficient (the ratio of relative reduction of the sample in air to its relative reduction in the solution). Susceptibility of X70 steel to SCC at the corrosion potential is low, but increases in the presence of stress concentrator and under applying of the cathodic polarisation. It is established some differences in the susceptibility to SCC at the – 1.0 $V_{Ag/AgCl}$ of X70 pipe steel of different manufacturing. At the same

combination of other factors, the greatest influence on sensitivity to SCC is predetermined by the presence of stress concentrator.

Keywords: *pipie steel, polarization, slow strain rate tests, cathode protection, stress-corrosion cracking*

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CONTENT OF HEAVY METALS IN THE OILS OF THE PRECARPATHIAN AND DNIPRO-DONETSK OIL AND GAS PROVINCES OF UKRAINE

p. 27-31

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The methodology and results of the study of the content of heavy metals in oil samples from the two main oil and gas provinces of Ukraine are presented. Survey simulations of the likely routes of heavy metals to hydrocarbon feeds are carried out. According to the results of the study, a comparison is made of the properties depending on the chemical content of the samples. The probable causes of the difference in the concentrations of heavy metals in oils from various geological structures are determined

Keywords: *heavy metals, X-ray fluorescence spectroscopy, oil geochemistry, chemical composition, organometallic compounds*

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RESEARCH OF ADSORPTION PROPERTIES OF PURE AND COMPOSITE FERRITES

p. 32-37

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The article presents the results of an experimental study of the adsorption properties of new sorption materials – pure and composite nickel ferrites, in relation to dyes of anionic and cationic nature. Samples of pure ferrites and their active carbon composites were synthesized by co-precipitation. The kinetics of the adsorption process was studied, and the values of specific and limiting adsorption at various initial concentrations and duration of the process were calculated

Keywords: *adsorption properties, ferrites, sorbent synthesis, kinetics of the adsorption process, adsorption capacity*

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