

ABSTRACT&REFERENCES

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EFFICIENCY ASSESSMENT OF ECONOMIC ACTIVITY OF SMALL AGRICULTURAL ENTERPRISES IN THE DECENTRALIZATION PROCESS

p. 6-12

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The article thoroughly analyzes management efficiency of small agricultural enterprises in Ukraine by means of rating. A ranking is made of small farms according to economic efficiency, environmental status and social development in the regional context. The integral index of efficiency of small farms management is calculated. Recommendations for the development of integrated territorial communities are made by encourage the support of small entrepreneurship

Keywords: small entrepreneurship, private farms, decentralization, united territorial communities, sustainable development, cooperation

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GOVERNANCE OF PUBLIC-PRIVATE PARTNERSHIP IN AZERBAIJAN

p. 13-19

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The relevance of the topic is based on the study of the organization of joint activities of public institutions with private campaigns to provide the services in demand, interested in providing the necessary resources for those services. Within the framework of the research, considerations of transforming approaches to building public-private partnerships in various areas of the economy have been taken into account. These considerations have revealed the utility, the possibility of improving the institutional environment. Building public-private partnerships is primarily stipulated due to the formation process of private sector participation in cases where government agencies are not capable to contribute to the development and implementation of new technologies, as well as to cope with the scope of services management in its own. The methodology of the study comprises analytical observations, scientific and theoretical assumptions. As a scientific novelty of the work, the advantages and disadvantages of joining the agreements on these partnerships are given in tabular form

Keywords: private, public, partnership, joint entrepreneurship, social sector

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THE CASE OF KOSOVO STATUS IN THE BALKAN POLICY OF EUROPEAN UNION

p. 20-23

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The politics of the European Union are different from other organizations and states due to the unique nature of the EU. The common institutions mix the intergovernmental and supranational aspects of the EU. A particular feature of Kosovo's internal policy development as an independent state and problematic reasons with a full international recognition of this fact is also highlighted. The research studied objective and subjective historical reasons for the state formation of Kosovo Albanians starting from the latent stage of this process within former Yugoslavia and then up to the declaration of Kosovo independence. The paper deals historical context European Balkan politic
Keywords: Balkan, European Union, conflict management, Kosovo, Serbia, Yugoslavia

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INVESTIGATIONS OF SYSTEM WATER OF BERRY JAMS BY LOW-TEMPERATURE CALORIMETRIC METHOD

p. 24-28

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Design of compositions made from raw materials that do not require additional introduction of pectin during the production of jams with raw materials containing low amount of pectin has been substantiated. It has been found that the amount of frozen water decreases with increases of the amount of black currant in model systems. The rational ratios of berry raw materials in the investigated systems have been determined

Keywords: system water of berry jam, low-temperature calorimetric method, frozen and non-frozen water

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DEVELOPMENT OF A METHOD FOR CREATING A CITY SITE WITH AN INTERACTIVE MAP

p. 29-31

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The study offers a general analysis of the specifics of web strategy formation, which allows to outline the main aspects of developing a site with an interactive map. The technique of developing a site with an interactive map based on the use of CMS Joomla! is proposed, which allows for automated design of the specified web resource. The development of the city site is based on the technology of manual creation. The security technology of the site with an interactive map is designed, on the basis of which it is possible to safely work with the web resource

Keywords: web resource, methodology, city site with an interactive map, technology, CMS Joomla!

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THERMODYNAMIC CALCULATIONS OF SLAVSONITE SYNTHESIS REACTIONS

p. 32-36

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The article presents the results of calculations of the thermodynamic constants of ternary compounds of the SrO-Al₂O₃-SiO₂ system. Also, using the method of thermodynamic calculations, based on the obtained data, the occurrence probability of the slavsonite formation reaction using various raw materials is established. The calculations show that strontium carbonate and kaolin are promising raw materials for low-temperature synthesis of slavsonite, the probability of a reaction is possible starting from a temperature of 200 °C

Keywords: slavsonite, strontium anorthite, Sr-helenite, low-temperature synthesis, enthalpy, entropy, heat capacity, Gibbs energy

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A STUDY OF REPEATED BURSTS FRB 121102 AS A RADIATION FROM CUSPS ON SUPERCONDUCTING COSMIC STRING

p. 37-42

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Cosmic strings are topological defects, relicts of the early Universe, which can be formed during phase transitions of fields with spontaneous broken symmetry. It was shown that extragalactic fast radio bursts could be explained as radiation from superconducting cosmic strings. In our framework, FRB 121102 was investigated as first discovered repeating fast radio burst. For several groups of bursts events, it was obtained a parameter, which characterizes a possible radiation source – cosmic string loop, specifically, the energy scale of phase transition during which the string was formed

Keywords: cosmic strings, phase transition in the early Universe, ultrarelativistic plasma, fast radio bursts, FRB 121102

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APPLICATION OF THE BJERRUM MODEL TO PURE WATER ELECTRIC CONDUCTIVITY

p. 43–48

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*An alternative mechanism of electrical conductivity in
water is considered. Calculations of activation energies
for flow and ionization show their proportionality. There-
fore, it is assumed that during the water ionization, not
intramolecular forces are involved, but intermolecular
and electrical conductivity of water is associated with the
appearance in it of L and D defects in hydrogen bonds*

*between water molecules considered in the Bjerrum model
for ice*

Keywords: *water electrical conductivity, ionization constant
of water, Bjerrum model, activation energy, pH measurement*

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