

Scientific research of the SCO countries: synergy and integration

November 19, 2019. Part 1

Поле	Значение
Объект №1	
Заголовок	CURRENT STATE AND PROSPECTS OF RENEWABLE ENERGY SOURCES DEVELOPMENT
Аннотация	<p>The article discusses the state and prospects for the development of renewable energy sources (RES) in the leading countries of the world and in Russia. It has been established that in recent years renewable energy has experienced rapid growth, which on the one hand is associated with environmental problems and the lack of traditional energy sources, and on the other, with measures of state support for RES. In this regard, the experience of China, the USA, Germany and other countries on measures of state support for investment in RES is considered. It is shown that thanks to the measures taken, the cost of electricity received from RES is very close to the price of electricity from traditional sources. The state of RES in Russia, which has enormous resources of nontraditional energy sources, is considered. At the same time, the share of RES in Russia in comparison with other advanced countries still remains small. However, in the future, thanks to measures taken by the Russian government in recent years, a positive shift in this energy sector has been observed.</p>
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Объект №2	
Заголовок	UNNAMED CONTRACTS IN THE LEGAL FIELD
Аннотация	In the modern age of globalization, when almost every day there are new types of relationships between individuals, the number of contracts increases, as well as their complexity. Increasingly, in practice, there are contracts that include signs of several contracts, as well as mixed and unnamed contracts. The question arises: how do unnamed contracts arise and what contracts are considered unnamed
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Объект №3	
Заголовок	PROFESSIONAL FORMATION OF A YOUNG TEACHER IN THE EDUCATIONAL SPACE OF THE KHANTY-MANSIYSK AUTONOMOUS OKRUG - UGRA
Аннотация	The article discusses the ways of becoming young specialists in the education system of the KhantyMansiysk Autonomous Okrug Ugra, methodological support of this process, associated with the growth of professional potential, leadership qualities of young teachers. The possibilities of the methodological associations of the Autonomous Okrug for the development of professional competencies and professional teacher growth are shown.
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Объект №4	
Заголовок	PIANO TRAINING FOR ADULTS AND BEGINNERS
Аннотация	Learning to play the piano for adult beginners helps to develop their artistic taste and realize their creative potential. The training of such students is quite difficult, due to the minimum amount of time, as well as the formation of motor skills. In order to captivate students, the teacher must have artistic capability. An individual artistic taste is formed, so their training takes place differently than in children. The selection of a repertoire and fairly regular homework are very important.
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Объект №5

Заголовок	CHARACTERISTIC FEATURES OF ACADEMIC ESSAY IN ENGLISH
Аннотация	Writing is organized differently in different cultures. Academic writing in English has its characteristic features, involves different strategies (genres, types of essay, such as narration, description, definition, classification, exemplification, comparison and contrast, causeandeffect, argumentation), and has structural restrictions and strict rules to be followed. The purpose of a piece of academic writing is determined basically by the strategy, structural patterns of development and the style that is conditioned by the linguistic units chosen for it, with the audience in mind. Thus, learning to write in English means following a particular pattern of development and structure of composing.
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Объект №6

Заголовок	THE LEADER'S SIBERIAN EXILE AS A THEME IN THE SOVIET ART OF THE STALIN ERA1
Аннотация	In Soviet culture of the 19301950s prerevolutionary exile to Siberia was an extremely popular topic. It was presented not only in tales and novels, but also in paintings. The article analyzes the main iconographic patterns used by the artists of the Stalin era when creating paintings on this topic with the main characters of their works being Soviet leaders Lenin and Stalin.
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Объект №7	
Заголовок	THE NATURE OF SYNESTHESIA AND ITS IMPACT ON CONTEMPORARY ART

Аннотация	The objective of this study is to come to describe and explain the synesthetic experience, especially in the context of artistic language. The main content of the article is the analysis of visual art and musical industries connection with the phenomenon of synesthesia. The article provides information on the base of both contemporary times and past centuries tendencies in art sphere. It consists of two parts: the first part includes the key information about synesthesia. The second part focuses on the created forms of synesthesia in art, their development and effect on the modern art. The intention is to analyze the impact of synesthetic approaches as experiments in art.
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Объект №8

Заголовок	THE CLINICAL EFFECTIVENESS OF AZITHROMYCIN ANTIMICROBIAL THERAPY USED FOR THE TREATMENT OF ACUTE BACTERIAL SINUSITIS
Аннотация	The objective of the present publication was to report the result of the evaluation of the clinical effectiveness of azithromycin (Sumamed) antimicrobial therapy used for the treatment of bacterial acute rhinosinusitis (ARS). Dynamics of the reversal of the clinical symptoms of bacterial ARS in the patients of the study group is described. Neither adverse side effects nor complications in response to the treatment were documented. 98.6 of the patients recovered from the disease within 7 days after the onset of the treatment. It is concluded that antimicrobial therapy with the use of azithromycin (Sumamed) based at the outpatient settings provides a highly efficient.
Аннотация в переводе	acute sinusitis, antimicrobial therapy, azithromycin. (en)
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Объект №9

Заголовок	COAL MINERS' PROFESSIONAL RISK FROM COMBINED EFFECT OF PHYSICAL HAZARDS
Заголовок в переводе	Bolotov A. A. (en)
Аннотация	<p>The typical structure of complex of mine physical hazards, influencing upon the coal miners and its significance for the professional risk were analysed. When estimating doses of physical industrial hazards, affecting the coal miners the greater dependence of biological effects from the time factor was revealed. As was shown by the study, there is not enough data about the specific reactions of the body in response to the influence of each physical factor for the adequate prediction of the risk of diseases. In this connection it is necessary to take into account the sensitivity (nonspecific reactions) of different functional systems of the body to the combined effect of these factors, considering heterogeneous and unclear character of physical industrial factors. As a rule, there were observed the subadditive and independent types of their combined effect were observed. Obtained relationships were used in for creation of the basis for probabilistic criteria of increased risk of occupational pathology in miners.</p>
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Объект №10

Заголовок	THE APPLICATION OF TECHNOLOGICAL CONCENTRATE, COTTON SWABS, SIYAZAN CLAY AND GEOTHERMICALLY WATER
Аннотация	The article refers to the use of plant waste and natural minerals, but can also be used in the restoration of soils that have lost their fertility, become saline, petrified, eroded and swampy, as well as in the production of ecologically pure high yields and concentrate.
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Объект №11	
Заголовок	THE STUDY OF KAOLIN CLAYS OF THE NAZAR-AILOK COAL DEPOSIT
Аннотация	In the work presents the results of chemical, elemental and silicate analysis of kaolin clays of coal seams of the NazarAilok deposit. Physicochemical studies clays, showed that they belong to the main type of mineral raw materials, and can be used in the production of alumina and refractory products
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Объект №12	
Заголовок	MODELLING OF EQUILIBRIUM CONCENTRATIONS OF ALL PARTICLES IN TWO-COMPONENT MIXTURES OF ACIDS USING LOGARITHMIC DIAGRAMS

Аннотация	<p>Research in the field of theory and practice of aqueous and nonaqueous solutions of strong and weak electrolytes is still very relevant. In most studies, acidbase interactions were considered only as a function of changes in the pH of the solution. It is known that the ionic strength of the solution is influenced by all ions present in the system, whose concentration is variable in the process of interaction in aqueous and more complex nonaqueous solutions, which differ significantly in their basic properties (dielectric permittivity, ionic product, dipole moment, viscosity, etc.). On the basis of the law of mass action, as well as equations expressing equalLesnye processes, the ionic product of the solvent, electroneutrality and mothercial balance in electrolytic systems, we have proposed a method to consider the influence of the concentrations of all charged particles in the system (not only of hydrogen ions pH) for ionic strength of solution, activity coefficients and, consequently, on the thermodynamic constant of dissociation, and also to Express the dependence of the equilibrium concentrations of all charged particles from the acidity of the solution, determined by the potentiometric method, in an easy and objective a logarithmic scale, enabling the evaluation of concentrations of all particles at any point in the titration.</p>
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Объект №13

Заголовок	CALCULATION OF TEMPERATURE FIELD AND MASS TRANSFER IN MOLTEN METALS
Аннотация	<p>The article describes the calculation of the temperature field and the mass transfer of graphite using seeds and metal substrates from potassium, barium and cesium. Graphite is associated with one of the promising materials for nanoelectronics graphene. The main existing method for the production of graphene is based on the mechanical cleavage of layers from pyrolytic graphite. As a result of the calculations, it was shown that the axial temperature gradients in the reaction cell can be substantially changed due to the overall mass transfer rate of graphite, varying by the metal substrates and the configuration of the heating system. Temperature fields were also calculated in reaction cells on substrates of such metals as potassium, cesium and barium</p>
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Объект №14	
Заголовок	ECOLOGICAL AND GEOGRAFICAL PECULIARITIES OF EARTHWORMS' (OLIGOCHAETA, LUMBRICIDAE) DISTRIBUTION IN LANDSCAPES OF THE EASTERN SIBERIA' SOUTH
Аннотация	<p>Landscapeecological analysis of structure of earthworm communities and their vertical and spatial distribution in the soils of the southern part of Eastern Siberia was carried out in Minusinskaya depression, LenoAngarskoe plateau and IrkutskoCheremkhovskaya plain on the local (biogeocenotic), topological (facies) and regional levels. Longterm observations on geographical stations have been used to construct schematic maps portraying the variations in quantitative characteristics and species composition of earthworms in landscape and regional ranges. The paper considers regularities of transformation of communities structure under the influence of natural: phytocenotic (peculiarities of vegetation), edaphical and climatic (hydrothermal regime of the soil) conditions and anthropogenic factors: eliminations of wood, fires, irrational use of pastures, technogenic pollution, recreation and others. The main trend of changes in taxonomic diversity of earthworms communities is a decrease in the species number in the gradient of an increase of climate aridity, and strengthening of the hypothermal character and anthropogenic pressure.</p>

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Объект №15	
Заголовок	GEODYNAMIC EVOLUTION OF THE CASPIAN DEPRESSION
Аннотация	When assessing the prospects of oil and gas potential, the most important task is to determine the genetic affiliation of the sedimentary basin, i.e. type of geodynamic regime. In this regard, this article on the geodynamic evolution of the Caspian basin is relevant. The work analyzed the data of published works on the geodynamic evolution of the above territory. The results of the above studies allow us to recommend the use of an analysis of the geodynamic evolution of the earths crust as an important criterion in assessing the prospects of oil and gas in large complex regions.
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Объект №16	
Заголовок	THE DYNAMICS OF THE SEISMIC PROCESS IN TURKEY
Аннотация	Based on the spacetime analysis of the earthquakes total energy in Turkey during the 1974 2012 instrumental period, we revealed sequences of earthquakes at some sites of the epicentral field, and determined the seismic activity migration rate (first kilometers first hundreds of kilometers per year). Ordered earthquake sequences are structurally different for different geodynamic conditions. We made a conclusion about an association of the migration peculiarity with the seismoactive environment quasiviscosity.
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Объект №17	
Заголовок	DYNAMICS OF THE VEHICLE'S STEPLESS IMPULSE TYPE TRANSMISSION
Аннотация	In this investigation, the theoretical research results of the dynamics and kinematics operating processes in impulse stepless transmission on the example of an ATV are presented in the MATLAB Simulink visual programming environment. The results showed that the proposed scheme of mechanical stepless transmission of impulse type has the property of selfregulating the velocity ratio. The transmission provides smooth acceleration and uniform motion of the vehicle. The construction of the mechanical stepless of impuls type is significantly simpler and cheaper than existing automatic transmissions, has smaller internal power loss and a high potential of application in small sized vehicles.
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Объект №18	
Заголовок	ISSUES OF IMPLEMENTATION OF A PHOTOTHERMAL CONVERTER OF SELECTIVE RADIATION
Аннотация	The paper presents the results of a study on the search for highly efficient converters of sunlight into electrical energy. The efficiency of creating designs of combined highly efficient converters of light and thermal energy into electrical energy is indicated. The basics and results of calculating the distribution of light intensity in the diffraction pattern using the Huygens Fresnel principle are presented. Ways to solve problems associated with the design features of a selective photothermal converter are indicated, with a decrease in its efficiency depending on temperature and weight and size characteristics and indicators. The software calculation of the alignment of the optical axis by the optimal placement of the photoelectric converter was performed.
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Объект №19	
Заголовок	OPTOELECTRONIC AIR HUMIDITY SENSOR
Аннотация	In this study examined the optoelectronic sensor for measuring the relative humidity of air, the connected microprocessor device. A description and diagrams of an air humidity sensor, a block diagram of a microprocessor device for continuous monitoring of air humidity in a controlled object, a device for calibrating humidity sensors, and an algorithm for calibrating humidity sensors are given.
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Объект №20	
Заголовок	PREPARATION OF ORGANIC MINERAL COMPLEX FERTILIZERS USING SLAG-SLUDGE WASTE WITH THE ADDITION OF ORGANIC COMPOUNDS

Аннотация	The main purpose of this article is to develop a technology for the restoration of soils that have lost their fertility, saline, fossilized, and turned into swamps, by adding a mixture of slag formed during the combustion of solid waste, sludge formed during the development of oil wells, and potassiumrich, potassiumoxide phonolite rock treated with spent 510 HNO ₃ . It was found that of 100 gr. slag formed during combustion of municipal solid waste, 5060 gr. oil drilling sludge with the addition of 1020 gr. it is possible to obtain an organomineral complex fertilizer enriched with macroand microelements, especially potassium and nitrogen. This article reports the results of the study of obtaining multifunctional tetrahaloidbicyclic compounds with carbonyl bridges and the use of the latter in analytical chemistry 14.
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