

DOI: Scientific research of the SCO countries: synergy and integration
February 20, 2020. Part 1

Поле	Значение
Объект №1	
Заголовок	CONSTITUTIONAL REGULATION OF THE RIGHT OF JOURNALISTS TO ACCESS INFORMATION
Аннотация	This article is devoted to the analyses of the right of journalists to access information. The author analyses Russian Constitutional law in the sphere of freedom of information, the foreign practice and practice of European Court of Human Rights and comes to the conclusion that the media and journalists have a number of powers to search, receive, produce and disseminate information. However, their right is based on the human right to information and is not absolute.
Автор 1	Khizhnyak, V.S.
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Объект №2	
Заголовок	COOPERATION OF OPERATIONAL UNITS IN THE DISCLOSURE OF THE ORGANIZATION OF ILLEGAL MIGRATION
Аннотация	The article examines the problematic issues of cooperation of operational and investigative bodies in the field of detection and disclosure of the organization of illegal migration.
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Объект №3

Заголовок	CONSTITUTIONAL INNOVATIONS - THE POTENTIAL FOR THE DEVELOPMENT OF THE STATE AND THE SYSTEM OF LEGISLATION OF RUSSIA
Аннотация	The article is devoted to the issues of constitutional reform in Russia and the introduction of the doctrine of the living Constitution. The author analyzes the content of the Law on the Amendment to the Constitution introduced by the President of the Russian Federation, identifies the positive and problematic aspects, identifies further promising areas of constitutional reform
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Объект №4

Заголовок	COMMUNICATIVE INTERACTION IN THE MODERN SCHOOL SPACE IN THE ASPECT OF HUMOROUS COMPREHENSION (BASED ON THE GERMAN JOKE SCHÜLERWORTWITZ)
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Аннотация	Schlerwortwitz, a German language household joke for children, ridicules the imbalanced communication between teachers and students in the modern school space as an actual type of communication. The deliberate indirect soft / sharper humorous reaction of the addressee-student to the statement of the adult addressant is a fun language game of the schoolboy oversaturated with the tone of everyday edification. The semantic mechanism for creating a humorous effect in these plots consists in a clash-beat of the values of the language sign (the supporting component of the plot) used in the utterance of the addressee and creatively interpreted by the addressee.
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Объект №5	
Заголовок	NOMINATION OF INTIMATE PARTS OF THE BODY DUE TO DE-ONYMIZATION
Аннотация	the article deals with cases of deonymization or transfer of a proper name to a new referent which already has a neutral designation in the language. It concerns slang names of intimate parts of the body derived from anthroponyms.

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Объект №6	
Заголовок	PEACE POLICY AND NEUROSCIENCE
Аннотация	We included two neuronal constants of H. Berger and M.N. Livanov into new laws of psychology. The exactness of prognoses of humans behavior is significantly increased. Psychology is transformed now into exact science like physics, chemistry and genetics. A new way is proposed to open new exact laws of collective behavior of milliards of people. In partial, the simple new technology of elections of world leaders darts out on a discussion with the purpose of exception of military dangerous conflicts between the states.
Автор 1	Lebedev, A.N.
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Объект №7	
Заголовок	TYPICAL SITUATIONS OF CONFLICT OF INTEREST IN PUBLIC SERVICE IN THE RUSSIAN FEDERATION AND THE PROCEDURE FOR THEIR SETTLEMENT
Аннотация	This article discusses typical situations of a conflict of interest in the civil service, as well as provides recommendations for their prevention and settlement for civil servants and representatives of the employer.
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Объект №8	
Заголовок	MYCORRHIZA FORMATION OF VASCULAR PLANTS AND THEIR BIODIVERSITY
Аннотация	<p>The variety of medicinal plants in fallow plots (24 of the total area of the Botanical Garden of the Pitirim Sorokin Syktyvkar State University garden was considered. 92 species from 77 genera of 29 families were identified, including 77 species of medicinal plants from 64 genera of 24 families. General projective cover varies from 5 to 80, podzolic soil on loamy parent rocks. The degree of mycotrophicity of vascular plants range from 2.15 to 3.58 points. High fragmentation was noted (the frequency of occurrence is 50). The intensity of mycorrhizal infection in mycotrophic species of medicinal plants ranges from 19.5 to 47.9. The average intensity of mycorrhizal infection in this phytocenosis is 30.4. Non-mycorrhizal plant families were revealed: Caryophyllaceae, Chenopodiaceae, Brassicaceae, Boraginaceae, Polygonaceae, Scrophulariaceae. Our analysis showed the absence of a positive relationship between the level of development of mycorrhizal infection and the total projective cover of the plant in this community. In the vast majority of mycotrophic medicinal plants, vesicles are rare. This condition is associated with the living conditions of the plants. Poor aeration of fallow plots and low soil temperatures of the studied region do not contribute to the development of fungal mycelium.</p>
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Объект №9	
Заголовок	THE CHRONOTYPE OF STUDENTS OF THE HIGHER SCHOOL IN THE CONDITIONS OF THE CHANGED PHOTOPERIOD OF THE NORTHERN REGION
Аннотация	Biorhythmic stereotype was studied with students of the Northern Medical University using the Horn-Ostberg questionnaire. The study involved 105 boys and 231 girls. We compared the answers for the winter and summer seasons of the year, determined the resistance of the chronotype to a change in the photoperiod. The photoperiodic stability of the chronotype was compared in the male and female groups. Differences in the morning-evening preferences in the organization of life related to gender are more pronounced in the winter season and practically absent in the summer. The organization of life of young men is less susceptible to such exogenous influences as the duration of daylight hours than the functioning of girls. The examined students showed a tendency to chronotype rigidity, more pronounced among young men. In the conditions of the northern region, the mode of social activity prevails over the natural pacemaker - light.
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Объект №10	
Заголовок	BABESIOSIS OF DOGS AND THE RISK OF TRANSMITTING THE PATHOGEN TO HUMANS ON THE TERRITORY OF Khabarovsk
Аннотация	The article is devoted to babesiosis of dogs in the city of Khabarovsk, as one of the dangerous protozoal natural focal diseases with a vector-borne transmission, where ixodid ticks of the genera Dermacentor, Rhipicephalus and Haemaphysalis are carriers of babesia for dogs and humans. The analysis of the examination of dogs with pyroplasmosis (babesiosis) is given. The urgency of the problem of this disease for the city of Khabarovsk is shown.
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Объект №11	
Заголовок	THE RESEARCH OF THE QUADRICEPS FEMORIS OF SKIERS- RACERS WITH STEPWISE INCREASING LOAD
Аннотация	<p>Increasing requirements for training skiers-racers are forcing coaches to look for new approaches to improve the planning of sports training. One of the most important problems in this is the quality management of the training process. At the same time, management and control should be reasonably accessible and in demand for specialists and athletes. The paper presents the results obtained from skiers-racers using the CALLIBRI MUSCLE TRACKER myographic system. The device is designed to record the basic parameters of the quadriceps femoris in athletes in the process of performing increasing physical activity. The average and maximum amplitude of contraction of the quadriceps femoris of riders was studied. We also studied the average value of the contraction area and the average time of muscle contraction, taking into account the number of muscle contractions in one minute. The activity of the lateral thigh muscle (musculus vastus lateralis) is observed among highly skilled skiers-racers by 1.5 times than among mass-skiers and other sports.</p>
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Объект №12	
Заголовок	SELENIUM CONTENT IN SURFACE WATERS OF THE WHITE AND BARENTS SEAS
Аннотация	In this work, the selenium content in the surface waters of the White and Barents Seas was determined by the method of fluorimetric determination of selenium content with 2,3-diaminonaphthalene. For the first time, a scale was developed for standardizing the content of selenium in marine ocean waters. A comparison and generalization of the distribution of levels of selenium in the White and Barents Seas was made, and the prevalence of the average level of selenium was revealed. In the Barents Sea, there is a diversity in the frequency distribution of selenium levels in water samples.

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Объект №13	
Заголовок	THE STRUCTURE OF CIRCADIAN RHYTHMS OF HEMODYNAMIC PARAMETERS IN CHILDREN WITH NON-TRAUMATIC CEREBRAL HEMORRHAGE
Аннотация	The authors revealed a significant increase in the level of the SBP circadian rhythm mesor in children of group 3 by 15 relative to the indicator in group 1 on the first day of non-traumatic cerebral hemorrhage in newborns. The shift of the acrophase peak by night is an unfavorable sign characterizing the maladaptive state of heart function. The range of diurnal fluctuations of DBP seemed most pronounced in children of the 3rd group at 1,8,9,10 days. The pronounced diurnal differences in DBP characterize the instability of the tone of the peripheral vessels during cerebral hemorrhage in the neonatal period.
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Объект №14	
Заголовок	AMPLITUDE-PHASE ANALYSIS OF THE CIRCADIAN RHYTHM OF SINUS NODE FUNCTION AND OXYGEN SATURATION IN CHILDREN WITH NON-TRAUMATIC CEREBRAL HEMORRHAGE
Аннотация	Based on the study of the results of monitoring heart rate, oxygen saturation, respiratory rate, the authors showed that an increase in the amplitude of HR fluctuations in the circadian rhythm above 30 beats per minute indicates a pronounced instability of the autonomic regulation of heart rhythm, indicating an increased risk of an adverse outcome. Permanent insufflation of oxygen in children with non-traumatic cerebral hemorrhage FiO2 no more than 0.4 in children with non-traumatic cerebral hemorrhage provides a sufficient level of oxygen binding by red blood cells even in the most severe patients. The more pronounced the stressful effect on the body, the more the position of the peak of acrophase, bathyphase changes, the amplitude of fluctuations in the circadian rhythm of HR, respiration, and oxygen saturation in children with non-traumatic cerebral hem-orrhage increase.

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Объект №15	
Заголовок	OZONE THERAPY IN THE COMPLEX TREATMENT OF DIABETIC FOOT SYNDROME

Аннотация

Relevance of the study: diabetes mellitus (DM) is often complicated by the development of purulent-necrotic lesions of the lower extremities, which lead not only to early disability due to amputation of the limb, but also to shortening of life expectancy. Diabetic foot syndrome (DFS) is a pathological condition of the feet in diabetes mellitus that occurs against the background of damage to peripheral nerves, blood vessels, skin, soft tissues, bones and joints and is accompanied by destructive and purulent-necrotic processes. DFS occurs in various forms in 20-80 of patients with DM and increases the risk of developing gangrene of the lower extremities by 20 times. And amputations of the lower extremities in these patients are performed 15-20 times more often than in people without DM. The aim of the study was to evaluate the effectiveness of ozonated solutions in the complex treatment of diabetic foot syndrome. Research methods: all patients are divided into 2 groups. The main study group included 34 patients with DM who were admitted between January 2017 and December 2018 and developed DFS (III-V degrees according to the F. Wagner classification). Clinical, hematological, bacteriological, and cytological studies were performed on admission before treatment and on the 1-3-5-7-10 postoperative day. As a control group, the objects of the study were data from the medical records of 37 patients received in the same period of 2015-2016. The control group received traditional treatment. In the main group, traditional treatment was supplemented with local and General ozone therapy sessions. Results of the study: the results of treatment of 71 patients with DM who developed DFS (III-V degrees according to the classification of F. Wagner) were analyzed, and the outcomes and prospects for the development of ozone therapy for this pathology in purulent surgery were evaluated. In the main group, there was a rapid transition from inflammatory-degenerative processes to regenerative ones, and rapid, complete elimination of microbial flora. For 3-5 days in patients in the main group were observed normalization of the erythrocyte sedimentation rate, total number of leukocytes, reduction of stab and segmented leukocytes, increase in the number of lymphocytes and monocytes, decrease in the number of bed-days compared to the control group. Significance of the study: our research has shown that the addition of complex treatment of patients with acute purulent surgical diseases with intravenous and topical use of ozone-containing medications has had a pronounced positive therapeutic and economic effect.

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Объект №16	
Заголовок	MODERN VIEW OF THE PROBLEMS OF DIAGNOSIS AND CLASSIFICATION OF SQUAMOUS PRECANCEROUS LESIONS OF THE VULVA

Аннотация	<p>This article reflects the modern data and achievements of virology and molecular biology, which again led to a change in the classification and approaches to the diagnosis and management of patients with squamous lesions of the vulva. The analysis and systematization of objective difficulties in the diagnosis of precancer and initial vulvar cancer, such as: constant classification changes and its long-term coordination, long-term systematization of clinical manifestations, were carried out. New predictor markers, currently available for use in conditionally routine morphological practice, have provided new data on the development of the pre-tumor and tumor process of the external genital organs. Also in this article, a new clinical classification of vulvar diseases is analyzed in detail, standard and new diagnostic methods are compared, which in clinical practice helps to correctly diagnose, determine the extent of the lesion, and, depending on the molecular prognosis factors, select individual modern treatment tactics.</p>
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Объект №17	
Заголовок	BIOMETEOROLOGICAL APPROACH TO THE STUDY OF ADAPTATION OF THE POPULATION OF THE NORTHERN REGION
Аннотация	<p>The aim of this work was to study the features of the rhythmic structure of the occurrence of acute and exacerbation of the chronic pathology of the population of Khanty-Mansiysk in conjunction with variations in climatic factors. The observation period is from January 1, 2001 to December 31, 2013. The ambient temperature was taken into account barometric pressure relative humidity baric tendency maximum wind speed weight content of oxygen in the air. Calls to the ambulance service of Khanty-Mansiysk are grouped according to the main classes of diseases. To test the hypothesis of the presence of cyclicities, a program was used that uses wavelet analysis. When analyzing the activity of the ambulance service, a spectrum of long-term and intra-annual rhythms is revealed. The most powerful rhythms for nosological groups in the northern region are respiratory pathology, infectious diseases, mental disorders and diseases of the circulatory system. A delayed response to health deterioration has been established, which manifests itself in an increase in the number of calls to the ambulance service, primarily, depending on the indicator of the weight content of oxygen in the inhaled air.</p>
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Объект №18	
Заголовок	TO THE QUESTION OF INFLUENCE OF ENVIRONMENTAL FACTORS AND LIFESTYLE ON DEVELOPMENT AND COURSE OF ACNE
Аннотация	Acne is a common skin disease in the young population. Some environmental factors and lifestyle can affect the development and course of acne. Of particular importance is skin care in the treatment of acne, which can significantly reduce the risk of side effects, while increasing adherence to therapy.
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Объект №19	
Заголовок	PREREQUISITES FOR CREATING AN EFFECTIVE HIGH-DIMENSIONAL BIOMETRIC PROTECTION OF QUANTUM CRYPTOGRAPHIC SYSTEMS
Аннотация	The conference report discusses the possible hacker attack on cryptographic systems with different protocols of quantum key distribution. Key weaknesses in the stability of quantum cryptographic systems are noted and proposed intelligent methods for improving the durability of the system through biometric recognition.
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Объект №20	
Заголовок	CALCULATION OF HEAT TRANSFER PARAMETERS ON THE PROTECTIVE WALL SURFACE OF TANK IN CONDITIONS OF FIRE

Аннотация	The article provides a methodology for determining the boundary conditions of heat transfer on the surface of the protective wall of a cylindrical tank for storing petroleum products. Thermal and mathematical models have been developed to determine the mutual irradiation coefficient between the sections of the upper part of the cylindrical wall enclosing the tank and the flame surface. The effectiveness of the proposed methodology was evaluated by comparing the calculation results with the calculations using the formulas currently used to calculate the conditions of a hydrocarbon fire.
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Объект №21	
Заголовок	CALCULATION OF HEAT TRANSFER CONDITIONS AND SELECTION OF SHELL AND TUBE HEATER PARAMETERS FOR FLUIDS AND GASES

Аннотация	The article describes the design of an explosion-proof electric heater for liquids and gases. The thermal and mathematical models of heat exchange between a fuel element and a liquid are presented for two options for flow around heaters. A methodology and program for calculating the intensity of convective heat transfer and the maximum surface temperature of an electric heating element for heaters having different sizes, power and number of heaters designed for various liquids has been developed.
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Объект №22

Заголовок	COMPUTER ANALYSIS OF LASER POWDER SURFACING
Аннотация	<p>In this paper, we examined an example of the application of computer analysis of laser powder surfacing. The following processes and parameters were analyzed. They are the screening of laser radiation by a gas-powder mixture, the effect of the powder flow on the distribution of the intensity of laser radiation over the surface, the absorption of radiation by the surface of the melt, the melting of the powder in the melt pool, and the determination of the mixing coefficient of the powder. It is shown, that computer analysis allows you to evaluate the most important technological indicators of the process of laser powder surfacing at the design stage of the technology. This allows you to significantly reduce the amount of experimental work at the stage of technology development.</p>
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URL	http://naukarus.ru/public_html/wp-content/uploads/2020/02/Scientific%20research%20of%20the%20SCO%20countries%20-%20English%20Reports%20-%20February%202020%20-%20Part%201.pdf#page=162

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Объект №23

Заголовок	ENGINEERING ANALYSIS OF THE CHOICE OF GATING SYSTEMS WHEN CASTING IN SAND AND CLAY MOLDS
Аннотация	The results of modeling the processes of filling the mold with metal, the cooling kinetics, the crystallization kinetics, and the formation of shrinkage defects in metals are presented. As an example, the process of solidification of a casting from an Al-Mg alloy in a sand-clay form is considered.
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Объект №24

Заголовок	THE RESEARCH OF ELECTROMAGNETIC PROCESSES WITH A DECREASE IN THE MINIMUM OPENING ANGLE OF THYRISTORS ON AN ELECTRIC LOCOMOTIVE WITH A ZONE-PHASE VOLTAGE REGULATOR
Аннотация	The work proposes a method of increasing the power factor of an electric locomotive by changing the minimum opening angle of the thyristors of a rectifier-inverter converter (RIC) depending on the regulation zone. A device for generating pulses of angle 0 has been developed, which excludes the influence on its operation of preand post-switching voltage fluctuations. The effect of decreasing the angle 0 on the pre- and post-switching voltage fluctuations is analyzed.
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