**Краткая информация о статьях,**

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**ППС факультета довузовского образования**

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| № | Название статьи | Авторы | Год | Название журнала | Краткая аннотация | Ссылка |
| 1 | Kazakhstan realities in the perception of representatives of American ethnolinguoculture | Kiynova, Z.K., Sansyzbayeva, S.K., Akhmetzhanova, A.I., Mussabekova, U.E., Muratbayeva, I.S. | 2018 | Space and Culture | The purpose of the article is to describe the axiological characteristics of the realities of modern Kazakhstan society and the ethnic character in the perception of representatives of American ethnolinguoculture by using experimental data. Based on the analysis and description of associates obtained as a result of the associative experiment and sociocultural questionnaire survey, conclusions were drawn about the national-cultural markedness of a linguistic sign. The use of the method of the free-associative test helped to obtain objective and subjective characteristics for each stimulus word. The analysis of associates of American informants determined the novelty of the approach to the problem of intercultural communication in multicultural Kazakhstan society. The generalisation and analysis of associates and answers to questions on the sociocultural topic made it possible to construct a conceptual structure of the image of Kazakhstan and its realities in the consciousness of a linguistic personality of another culture. Also, in the article, an attempt was made to conduct a sociocultural questionnaire survey as an alternative research method. The answers and comments of respondents made it possible to comprehend and describe the respondentsâ€™ attitudes and opinion on the national-cultural values of the Kazakh people, to determine a range of discussion problems in different worldviews and to counter sociocultural realities in intercultural communication. | DOI:[10.20896/SACI.V6I3.370](https://doi.org/10.20896/SACI.V6I3.370) |
| 2 | A Short Review on the N,N-Dimethylacrylamide-Based Hydrogels | Akhmetzhan A.; Myrzakhmetova, N.; Amangeldi, N.; Kuanyshova, Z.; Akimbayeva, N.; Dosmaganbetova, S.; Toktarbay, Z.; Longinos, S.N. | 2021 | Gels | Scientists have been encouraged to find different methods for removing harmful heavy metal ions and dyes from bodies of water. The adsorption technique offers promising outcomes for heavy metal ion removal and is simple to run on a large scale, making it appropriate for practical applications. Many adsorbent hydrogels have been developed and reported, comprising N,N-dimethylacrylamide (DMAA)-based hydrogels, which have attracted a lot of interest due to their reusability, simplicity of synthesis, and processing. DMAA hydrogels are also a suitable choice for self-healing materials and materials with good mechanical properties. This review work discusses the recent studies of DMAA-based hydrogels such as hydrogels for dye removal and the removal of hazardous heavy metal ions from water. Furthermore, there are also references about their conduct for self-healing materials and for enhancing mechanical properties. | <https://doi.org/10.3390/gels7040234> |
| 3 | Synthesis and Heavy-Metal Sorption Studies of *N*,*N*-Dimethylacrylamide-Based Hydrogels | Akhmetzhan, A.; Abeu, N.; Longinos, S.N.; Tashenov, A.; Myrzakhmetova, N.; Amangeldi, N.; Kuanyshova, Z.; Ospanova, Z.; Toktarbay, Z. | 2021 | Polymers | In this work, a hydrogel system was produced via radical polymerization of *N*,*N*-dimethylacrylamide and 2-acrylamido-2-methylpropanesulfonic acid in the presence of *N*,*N*-methylene-bis-acrylamide as a crosslinker and ammonium persulfate as an initiator. Parameters that impact the conversion of copolymerization (such as initial concentration of monomers, temperature, initiator dose, and time) were studied. The swelling degree of the hydrogel was investigated with the addition of a crosslinker and initiator at different pH levels. A hydrogel with high conversion and high swelling degree was selected to investigate their ability for adsorption of Pb(II) ions from solutions. Adsorption behavior of Pb(II) ions in a hydrogel was examined as a function of reaction time and concentration of lead ions from a solution of Pb(II) ions. | <https://doi.org/10.3390/polym13183084> |
| 4 | The Complex of Experimental Facilities for the Cosmic Ray Investigation at the Tien Shan Mountain Station | Mukashev K, Argynova A, Zhukov V, Idrissova T, Iskakov B, Piskal V, Sadykov T, Sadykov Z, Stepanov A, Serikkanov A. | 2022 | Applied Sciences | The study describes the experimental complex of the station located in the Tien Shan mountains at an elevation of 3340 m above sea level. The complex consists of detectors of different types scattered across the station area, such as scintillation particles detectors, Cherenkov detectors, radio emission detectors for the measurement of the electron component of extensive air showers (EAS) created by the (1–1000) PeV cosmic ray particles, an ionization calorimeter and neutron detectors for the study of the nuclear-active component of EAS cores, and the underground particle detectors for the detection of cosmic ray muons. The data acquisition system allows the simultaneous recording of parameters from various stand-alone detectors registering an EAS, and storage of the acquired data in the database. As an illustration of research capability, the results of the EAS study are presented here which were obtained during the last few years at the different experimental set-ups constituting the Tien Shan complex. | https://doi.org/10.3390/app12010465 |