

CONTENTS

<i>Amirgaliev N. A., Christian Opp, Askarova M., Kulbekova R. A., Ismukhanova L. T.</i> About ratio and values of the empirical coefficient of alkali metals (Na^+ and K^+) in surface waters of Kazakhstan on the example of the Ile River.....	6
<i>Mazakov T.Zh., Jomartova Sh.A., Shormanov T.S., Ziyatbekova G.Z., Amirkhanov B.S., Kisala P.</i> The image processing algorithms for biometric identification by fingerprints.....	14
<i>Samigulina G.A., Samigulina Z.I., Lukmanova Zh.S.</i> Cognitive smart-technology of distance learning of Experion PKS distributed control system for oil and gas industry using ontological approach.....	23
<i>Soltanov S.Kh., Yunusov Kh.B., Yuldashbayev Yu.A., Zolotarev S.V. Baimukanov D.A.</i> Modern geochemical state of the environment of the adjacent territories of the Domodedovo Moscow airport.....	31
<i>Yermagambet B.T., Nurgaliyev N.U., Maslov N.A., Abylgazina L.D., Syzdykova A.A.</i> Effect of electrophysical impact on the physical and chemical characteristics of coal ash from the Maikuben deposit.....	38
<i>Zhurinov M., Kassymbekov Zh.K., Dyussebekova N., Siemens E., Kassymbekov G.Zh.</i> Testing of the prototype of mini-hydro power plants of hydrocyclone type in production conditions.....	48
<i>Massanov Zh. K., Baimakhan R. B., Kozhabekov Zh. T., Tugelbayeva G.K., Madaliyev T. B., Abdraimov E. S.</i> Wave spreading in resilient viscous-plastic layer with cavity on the rigid base.....	56
<i>Mammedov K.A., Hamidova N.S., Aliyev S.T.</i> Development of a multifunctional corrosion inhibitor, possessing the properties of a microemulsion.....	64
<i>Mashekov S.A., Nugman E.Z., Masheкова A.S., Absadykov B.N., Bekbosynova B.A., Tussupkaliyeva E.A., Tussupkaliyeva E.A., Absadykov B.N.</i> Investigation of power and force parameters of pressing of precisions at the continuous pressing mill of new construction.....	73
<i>Mukhamediev R.I., Mustakayev R., Yakunin K.O., Kuchin Y.I., Kiseleva S.V., Gopejenko V.I.</i> Decision support system for optimization of RES generators placement based on geospatial data.....	81
<i>Nurpeisova M., Bekbassarov Zh., Kenesbaeva A., Karbaeva K., Gabitova U.</i> Complex evaluation of geodynamic safety in the development of hydrocarbon reserves deposits.....	90
<i>Anarbayev A.A., Khegay R., Spabekova R., Kabyzbekova B.N., Dmitrevsky B.A.</i> Studying the process of lithium chloride extraction from the brine.....	99
<i>Zhanakova R., Pankratenko A., Almenov T., Bektur B.</i> Rational selection of the form of support for the formation of genetic composition of rocks in the conditions of the Beskempir field.....	106
<i>Mishnev S.V., Berezyuk V.G., Kuzembayev S.B., Sikhimbayev M.R., Absadykov B.N., Dementeva I.S.</i> Influence of the geometric shape of the mold on the cast billet structure for forming processes.....	114
<i>Sherov K.T., Sikhimbayev M.R., Nasad T.G., Absadykov B.N., Izotova A.S., Okimbayeva A.E., Kuanov I.S.</i> The research of the steel cutting blade reliability for thermo-frictional processing.....	122
<i>Temirbayeva R.K., Akiyanova F.Zh., Orzbekova K.S., Veysov S.K.</i> Socio-economic aspects of nature management in the Kazakhstan's Caspian sea region based on functional zoning of the territory.....	131
<i>Zhantayev Zhu.Sha., Abdрахmatov K.E., Khachikyan G.Ya.</i> Research of solar-lithospheric relationships in north Tian Shan attracting paloseismic data.....	138
<i>Galiyev S.Zh., Dovzhenok A.S., Kol'ga A.D., Galiyev D.A., Uteshov E.T.</i> Digitalization and the potential for improving the design and planning of mining operations in open cast mining.....	146
<i>Yessenamanova M.S., Sangajieva L.Kh., Yessenamanova Zh.S., Tlepbergenova A.E.</i> Migratory activity at the landfill site of microelements of the Caspian depression.....	155
<i>Nurgalieva A.Sh., Ismailova D.T., Abisheva G.O., Taukenova L.Zh., Petr Hajek Balapanova E.S.</i> Ecology as a basic principle of sustainable development.....	164
<i>Tuleshov A.K., Jomartov A.A., Ibrayev S., Jamalov N.K., Halicioglu R.</i> Optimal synthesis of planar linkages.....	172
<i>Solonenko V.G., Makhmetova N.M., Nikolaev V.A., Kvashnin M.Ya., Bekzhanova S.E., Bondar I.S., Mirzabaev S.A.</i> Analysis of the stress-strain state of travel pipes with the use of hardware and software complex.....	181
<i>Sydykova G.K., Seitmuratov A., Begzhan A.M.</i> Ways to improve the efficiency in performance of corona discharge ozonators.....	189
<i>Zhurinov M., Abilmagzhanov A.Z., Khussain B.Kh., Teltaev B.B.</i> Synthesis of anatase modification titanium dioxide nanopowders.....	197