

**VIII International Conference** Advanced Agritechnologies,  
Environmental Engineering and Sustainable Development

**VIII Международная конференция**

**AGRITECH-VIII - 2023: Агротехнологии, экологический инжиниринг  
и устойчивое развитие**

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- 01002 Agroecology as a strategic direction in the system of rational land use  
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- 01003 The heat conductivity mechanism of the IR heating propagation for surfaces decontamination in protected ground  
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- 01004 The study of the environment ecological state from the position of its sustainable development  
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- 01005 Importance of starting material for plant breeding  
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- 01007 Development, spread of root rot on plowing, disking and direct sowing  
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- 01008 Agricultural landscapes and financial factors affecting soil microzones in the Kursk region  
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- 01012 Quality of life of the population and environmental safety: an assessment in Central Asia  
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- 01013 Quantitative and technological quality indicators of the new "Nasib" cotton variety  
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- 01014 Justification of technological solutions for irrigation with electrified circular sprinkler machines

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- 01015 Sustainable development of the Russian market of organic agro-industrial complex  
*Gilyan Fedotova, Irina Larionova, Turmushbek Dzhancharov, Tsitsige, and Yuliy Kapustina*
- 01016 The effect of the biopreparation of LPB on the yield of vegetable crops  
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- 01017 Effectiveness of using acoustic oscillations of ultrasonic frequency on the process of removing moisture from porous material  
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- 01018 Features of the use of growth regulators in the cultivation of corn for grain in Western Siberia  
*Maxim A. Albert, Anton E. Smirnov, Rinat R. Galeev, and Dmitry D. Petrov*
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- 01022 The influence of agrotechnology on barley productivity in the Republic of Khakassia  
*Alexey Lipshin, Nikolay Surin, Natalia Kozulina, Alexander Bobrovsky, Albina Vasilenko, Valentina Lipshina, and Gennady Lipshin*
- 01023 Improvement of the design of the unit for cleaning the air stream from dust at a cotton ginnery  
*Orif J. Murodov, Aziza Sh. Adilova, Nozima A. Saidova, and Mirhosil M. Agzamov*
- 01024 Development and modeling of a resource-saving methanol recovery process diagram  
*Karina Bayazitova, Artem Salimov, Alexander Ponomarev, Nikolay Shutov, and Nadezhda Vadulina*
- 01025 Improvement of the environmental safety of weaving equipment by reducing the wear of contact surfaces  
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*Akhmadjon Nasritdinov, and Anton Ryazanov*
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*Tatiana Abashina, Aleksandr Noskov, Alyona Yachkula, and Mikhail Vainshtein*
- 01028 Substantiation of additional humidification of drained peat bogs by canal locking as a way to combat the occurrence of natural underground fires  
*Kristina Semenova, and Larisa Zhuravleva*
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*Shakhnoza Kuldasheva, Nargiza Adizova, Gulirano Karimova, Raushan Dauletbayeva, and Furkat Kurbonov*
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*Sobir Norov, Dilorom Zokirova, Nilufar Muzaffarova, Abdulla Ustaboev, and Alloberdi Madraximov*
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*Zafar Khudayorov, Sherzodkhuja Mirzakhodjaev, Rakhmonberdi Khalilov, Buron Nurmikhamedov, and Shavkat Mamasov*
- 01034 Placement of plow working bodies for plowing soil slopes  
*Farmon Mamatov, Nurbek Rashidov, Sunnat Badalov, and Dilsabo Chorjeva*
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*Hamroqul Ravshanov, Farmon M. Maiviatov, and Sherzod Kurbanov*
- 01036 Placement of working bodies on the frame of the tool plow-ripper  
*Dilmurod Irgashev, Sanjar Toshtemirov, Farmon M. Maiviatov, and Bayramali Muqimov*
- 01037 Roller-combing machine for preparation of combs  
*Asror Kiyamov, Muabara Khakimova, Maftuna Ochilova, Tura Razzakov, and Fayzullo Begimkulov*
- 01038 Ensuring the stability of the suspended chiselcultivator processing depth  
*Abdusalim Tukhtakuziev, Abdurakhmon R. Rasuljonov, Hasan I. Turkmenov, Aripjan A. Irgashev, and Sherzod Barlibaev*
- 01039 Detection of vertical load on the base drive with a plug-in drive  
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*Anna A. Urasova, Ludmila V. Glezman, and Evgeniy V. Shcheglov*
- 02002 Obtaining of starch based on wheat and legumes and production of thirst-quenching drinks by processing of secondary water  
*Yusuf Beshimov, and Mekhriniso Akhmedova*
- 02003 Resource-saving technologies in storage and processing of agricultural products  
*Evgeny Matvienko, Timur Aygumov, Alexander Zolkin, Vladimir Tormozov, and Svetlana Shamina*
- 02004 Growing juvenile beluga and its hybrids with sterlet in environmentally friendly conditions  
*Tatyana Khoroshailo, Yulia Alekseeva, Alexander Tishchenko, and Tatyana Kuznetsova*
- 02005 Specialized food products of increased biological value on a fish basis  
*Maria Tsibizova, Olga Bredikhina, Vilen Gizbrecht, Nikita Zarubin, and Elizaveta Lavrukhina*
- 02006 Physical model of the process of sliding cutting for innovative development of sustainable systems of agrarian-and-food production  
*Nasillo Urinov, Lyudmila Dubrovets, Makhmud Amonov, and Behruz Urinov*
- 02007 Development of a mathematical model of sliding cutting of food raw materials and semi-finished products  
*Nasillo Urinov, Ibodullo Sakhibov, and Ismat Sayliev*
- 02008 The influence of food additives on the production technology and quality indicators of whole grain bread  
*Elvira Pyanikova, Anna Kovaleva, Oxana Evdokimova, Nikita Evdokimov, and Ekaterina Bykovskaya*
- 02009 The effectiveness of the use of Aminoazol and Lebozol on the yield of winter garlic  
*Marina Dyikanova, Michael Vorobyev, Vera Terekhova, Maria Bocharova, and Varvara Bogdanova*

- 02010 Contact interaction of blade microteeth with cut material of food half-finished products  
*Mukhabbat Saidova, Abror Nematov, and Bakhrom Bafaev*
- 02011 Substantiation of the weed control system when placing grain production in microzones of the Central Chernozem region  
*Igor V. Dudkin, Natalia V. Dolgopolova, Dmitry I. Zhilyakov, Ekaterina V. Malysheva, and Viktor N. Nedbaev*
- 02012 Determination of pressure in a flat channel of a solar water heater when water is freezing  
*Gennady N. Tovarnyx, and Anver T. Tyemurkhanov*
- 02013 Increasing the sustainability of the food industry by expanding the range of shortening fats with new types of fat sources  
*Nargiza Sabirova, and Mukhayo Sadikova*
- 02014 Effect of chemical products and providing their safety in cleaning complex oils  
*Sunnatullo Ismatov*
- 02015 Determining the optimal modes of the technological process of obtaining dietary flour from oat grain  
*Shakhnoza Ismatova, Shaban Yuldasheva, and Nilufar Khujakulova*
- 02016 Grades and quality indicators of wheat grain grown in the Karaulbazar district and baking properties of wheat flour of the Tanya grade  
*Murod Kurbanov, Khusnirabo Ergasheva, Shabon Yuldasheva, and Dilnoza Zokirova*
- 02017 Development of a spectral setup for determining the sexual dimorphism of the bird embryo  
*Alexander Aleynikov, Ivan Osipenko, and Anna Cheshkova*
- 02018 Ensuring the safety of grain raw materials used in the production of grain products  
*Elmira Cherkasova, Pavel Golinitzky, Uliana Antonova, Darya Pupkova, and Sergey Gusev*
- 02019 Implementation of circular economy technologies in the agricultural and industrial complex of the Russian Arctic  
*Natalia Buletova, Ekaterina Stepanova, Natalia Kulikova, and Mostafa Mohamed AlMoatassembellah*
- 02020 Improving the innovation process of sustainable development of agriculture  
*Kobiljon Hushvakhtzoda, Firdavs Arabov, Rajabali Bobokhonzoda, Kurbonmad Sodirov, and Aliakbar Vohidov*
- 02021 New types of flour confectionery products for preventive nutrition using Laminaria saccharina  
*Galina Ivanova, Olga Kolman, Marina Glotova, Ekaterina Nikulina, and Olga Evtukhova*
- 02022 Environmentally oriented control systems  
*Sergey Muzyka, Yulia Alekseeva, Tatyana Khoroshailo, and Viktor Leshchenko*
- 02023 Dependence of the xanthan exopolysaccharide synthesis on the composition of the nutritional medium  
*Alla Krynitskaya, Elena Petukhova, Maria Kharina, Zosya Kanarskaya, and Svetlana Kovalenko*
- 02024 Producing of meat products using statistical evaluation of dietary types of meat  
*Polina Kharitonova, Nina Dunchenko, and Arina Odintsova*
- 02025 Sorghum as a substitute for corn in poultry feed  
*Mirshod Kurbonov, and Rauf Khaitov*
- 02026 Technologies of cultivation and processing of Lycium chinense Mill. and Lycium barbarum L. fruits in the conditions of Uzbekistan

- Durdona Alikarieva, Avazkhan Merganov, Manzura Kamalova, and Nurillo Tursunov*
- 02027 Investigation of the possibility of using mushrooms in wheat bread production technology  
*Alexander Kaluzhskih, Ekaterina Batrachenko, Marina Kotelnikova, Ruslan Yevglevskiy, and Snezhana Ryumshina*
- 02028 Research of chemical transformations in the technology of hydrogenation of vegetable oils  
*Nargiza Majidova*
- 02029 Investigation of the phase composition and structure of stationary catalysts to increase safety of agrarian-and-food production  
*Karim Sattarov*
- 02030 The use of phytobiotics-based films as a condition of improving food quality and reducing waste  
*Konstantin Leshchukov, Oksana Kovaleva, Olga Kireeva, Yuri Bukhvostov, Irina Minakova, and Tatiana Bukreeva*
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- 02032 Water-sorption ability of fruit and vegetable stabilizers  
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*Alexey Belyaev, Galina Ryzhkova, Olga Shvets, Nadezhda Lebedeva, Tatyana Kanunnikova, and Liudmila Kazakova*
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*Valentina V. Kazina, Tatyana N. Safronova, Galina A. Gubanenko, Elena V. Petrenko, and Olga Ya. Kolman*
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*Mukhabat Mukhamedova, Rashid Adizov, and Manzura Khafizova*
- 02041 The effect of gluten-free flour mixture and burdock root on organoleptic characteristics and porosity of bread  
*Sergey Boev, Vladimir Varavin, Vladimir Trubnikov, Sergei Grashkov, and Dmitry Eskov*
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*Marina I. Slozhenkina, Ekaterina V. Karpenko, Olga A. Knyazhechenko, Kseniya S. Glebova, Elena G. Abramenko, and Alexander A. Mosolov*

- 02043 Evaluation of milk quality indicators depending on seasonality in the conditions of JSC Kirov Volgograd region  
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*Elena Yu. Anisimova, Olga A. Knyazhechenko, Marina I. Slozhenkina, Arkagy K. Natyrov, Yury D. Danilov, and Alexey S. Miroshnik*
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*Ivan F. Gorlov, Aizhan A. Kaidulina, Vladimir S. Grishin, Natalia A. Tkachenkova, Julia D. Grebennikova, Egor V. Chernikov, and Elena Yu. Lazareva*
- 02047 Application of Siliplant in the technology of growing potato minitubers in protected soil conditions  
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*Natalia Titovskaia, Sergei Titovskii, Nikolai Ambrosenko, and Tatyana Titovskaya*
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### **Green Technologies, Climate Change and Environmental Safety and Pollution**

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*Olga O. Mamaeva, Elena V. Isaeva, Sergey R. Loskutov, Elena A. Petrunina, Vladimir S. Fedorov, and Roman A. Marchenko*
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*Dmitriy M. Ivanov, and Evgeniy D. Ivanov*
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*Lada G. Sokolova, Svetlana Yu. Zorina, Anatolii V. Pomortsev, and Nikolay V. Dorofeev*
- 04009 Modeling of water pollution in the basins of Arctic rivers  
*Aleksandra Bulavina*
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- 04013 Benchmarking as a tool for the development of "green" technologies in the water supply and sanitation enterprise



- Marina Treyman, Anna Nazarova, and Daria Ignatova*
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- 04021 Ecologically oriented analysis of the reasons holding back litter processing  
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- 04022 Heavy metals content in the soil cover and woody plants of Krasnoyarsk  
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- 04023 Recycling of municipal waste in crop production as condition for reducing the toxicological load on ecosystems  
*Marina Dogadina, Aleksei Tarakin, Yuri Bukhvostov, Irina Minakova, Tatiana Bukreeva, and Marina Parkhomchuk*
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*Dzhabrail M. Bamatov, Movsar M. Matygov, and Ayshat Z. Dzhamalova*
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*Saidjon Gaybullaev, and Gayrat Bazarov*
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- 04028 National water policy of Tajikistan in the context of sustainable development  
*Khayot Odinaev, Kobiljon Hushvakhtzoda, Firdavs Arabov, and Kurbomad Sodicov*
- 04029 Peroxidase activity in germinating barley grains depending on grain treatment with phyto regulators  
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