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AGRICULTURAL ENGINEERING AND GREEN INFRASTRUCTURE SOLUTIONS

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Agricultural Machinery and Power Units, Green Energy Systems

High-clearance front driving axle to the cotton-growing tractor
Akhmetov A.A., Kambarov B.A., Kholikov B.A., Abdullaev S.A.

Calculation of the change in raw cotton mass when passing through the working chamber of the harvester
Rizaev A.A., Kuldoshev D.A., Djuraeva N.B.

Electrification of the mechanical drive of vertical spindle cotton picker drums
M Shoumarova, T Abdillayev and Sh A Yusupov

Adaptation of multipurpose tractors to row spaces of cotton crops
Akhmetov A.A., Akhmedov Sh.A., Kambarova D.U.

Enhancing cotton harvesting efficiency through elliptical drum design: a comparative analysis of spindle performance in the working area
Sh T Ravutov, A A Rizayev and U A Rajapbaev

Experimental study of the dynamics of the hydro-tracking system of the rotary share of a garden cultivator
A T Musurmonov, Sh K Olimov, Y S Rakhimov

Stabilizer for reversing vertical spindles in the drum removal area of cotton-picking apparatus
M Shoumarova, T Abdillayev and Sh A Yusupov

Technical means for collecting seeds of desert-pasture fodder plants.

B.S. Mirzaev, B.Q. Tulaganov, Sh.X.Abdurokhmonov A.Bozorboev, , S.A Xaziev

The balance of power consumption of the process of grinding grain with a grinder

F M Mamatov, F U Karshiev, A N Borotov, A D Rasulov, Y J Shamayev

Influence of tire internal pressure on soil compaction

Mirzokhid Akhmadjanovich Tukhtabayev, Hoshimjon Boymirzaevich Atakhanov, Otabek Abdunosir Sidikov

Determination of the length of the separating parts of the corn harvester cob picking rollers

B A Khatamov, S U Temirov

To the organization of branded technical service of agricultural equipment

Chepurin Aleksandr Vasilyevich , Chepurina Ekaterina Leonidovna , Kushnareva Darya Leonidovna , Temasova Galina Nikolaevna , Cherkasova Elmira Islamovna

The results of performance tests of engine oil on Claas tractors taking into account climatic factors

N T Umirov, E Ganiboyeva

Pneumatic feed mechanism for accurate sowing of bare cotton seeds

Bekzod Primkulov, Feruza Alimova, Mukhayyokhon Saidova

Evaluation of the efficiency of thermal insulation of the combustion chamber according to the load characteristics of a diesel engine

Jumaniyez Ismatov, Jamshid Khakimov, Saydulla Kalauov, Abduxalil Ismatov

Graphic and analytical study of the kinematics of the multiloop coulisse mechanism of the cotton harvester

Shukhrat Siddikov , Azmuddin Sadridinov , Anvar Abdazimov and Masharip Khajiev

Green energy efficiency and its impact on sustainable development

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Overload protection for forestry machines when using pressed wood friction material

N.A. Borodin, A.V. Knyazev, V.V. Tkachev, S.V. Zimarin, R.G. Borovikov and P.N. Shcheblykin

Theoretical and experimental determination of the dimensions of the slope and length of the feed distribution device for family livestock farms

D Kh Khudaynazarov¹, U E Umarov¹ M U Yunusova¹ and A M Ungboyev¹

TESTS ON THE TRACTOR INSTALLED EXPERIMENTAL DEVICE FOR HEATING THE MIXTURE OF BIOETHANOL IN DIESEL FUEL

B Khakimov, Zayniddin Sharipov, Saydilla Alikulov, E Ganiboyeva and Alimova Z.H

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Parameters of the straw separator elevator

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K D Astanakulov, N A Ashurov and A R Turdibekov

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Cleaning of meliorative channels using various types of work equipment machines

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The effect of new protective-stimulating complexes based on plant waste on the yield of spring wheat under stressful conditions

Inga Seregina, Sergey Belopukhov, Vladimir Trukhachev, Inna Dmitrevskaya, Fedor Zaytsev, Dmitry Ryabov and Tatyana Fomina

Optimum factors of a renewable energy plant from poultry organic waste

Sh. Imomov, K.Usmonov, I.Nuritov, V.Tagayev

Development and study of adsorption properties of a new sulfated polyvinyl chloride cation exchanger for water treatment

Azizbek Kucharov, Farxod Yusupov, Gulnoza Baymatova , Botir Shukurullayev, Rezhabboy Yuldashev

Methods of determining the amount of harmful particles released into the environment as a result of car tire wear, taking into account the coefficient of contact of the wheel with the road

K.Karimova, K.Ismayilov, A.Shermukhamedov, Z.Alimova, U.Rakhmatov, Kwonse Kim

The effectiveness of various doses of magnesium-containing fertilizers in the cultivation of winter rapeseed

Natalia Akanova, Alevtina Kozlova, Sergey Esipenko, Elena Zhivotovskaya, Inga Seregina

Improving the efficiency of diesel filters to reduce the adverse impact of fuel on the environment

I G Kolpakov, V V Kolomeitsev, A D Sergeenkov, V N Kolpakov and V I Afanasov

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L V Yurtaeva, Yu D Alashkevich, R A Marchenko, D Yu Vasilyeva and D S Tarazeev

Obtaining microcrystalline cellulose based on biodamaged wood as a way to improve the sanitary and forest pathological state of forests

E V Kaplyov, L V Yurtaeva, R A Marchenko and Yu D Alashkevich

The use of calcium peroxide CaO_2 for wastewater treatment from chromium (VI)

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Food Storage, Processing and Preservation

Features of static distributions of the mass of parts of rose hips
Sh.X. Abdurokhmonov, N.T. Umirov, Kh. Ismaylov

Experimental study of processing sweet cherries with ultraviolet radiation
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Results of a field experiment of a potato planter with a disc planting machine

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Parameters of the main working part of the universal device of dry fruit bites
Akbar Khurramov, Sobir Abdurayimov, Nurmukhammad Kuzibekov, Islom Mullajonov, Nodir Kholiqov and Khalilov Sherali

Meat productivity of bull-calves of the red steppe breed with various methods of keeping

N E Sattarov, A N Borotov, R K Choriev

Mathematical modelling of the process of drying rosehips

T T Raxmanova, A A Mambetsheripova, J E Safarov, Sh A Sultanova

Study of the composition of useful plant extracts

A B Usenov, K M Samatova, Sh A Sultanova, J E Safarov

Microwave processing of stone fruits before juice extraction

Nodir Eshpulatov, Tolib Khalmuradov, Farrukh Rakhimov, Akbar Khurramov
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Theoretical study and mathematical calculations of the pumpkin drying
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Theoretical foundations of electropulse impact on plant objects

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B Sh Primkulov, F A Alimova, E A Boboniyozov, M T Khudayorov

Advanced front plow

F Mamato, M Kh Shomirzaev, S Badalov, D Rakhmatov and I Choriev

Research results on underground cotton irrigation through artificial pipes

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Technologies to reduce water waste during land leaching and cultivation of industrial crops

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Parameters of the deep loader of the mole drainage gun

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Soil treatment in various agricultural landscapes

Natalia Kozulina, Alexey Lipshin, Alexander Bobrovsky, Albina Vasilenko

The influence of soil fertility on the yield and quality of spring wheat grain in the conditions of Central Siberia

Natalia Kozulina, Alexey Lipshin, Alexander Bobrovsky, Albina Vasilenko, Alexander Kryuchkov, Natalia Gerasimova

Determination of the level of eutrophication of small rivers in the area of influence of the industrial city

I.V. Ovsyannikova, L.R. Asfandiyarova, G.V. Khakimova, M.S. Luzina

Research of the deformation state of the base of low-pressure hydraulic structures

Daniyar Paluanov

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B.B.Utepov, T A Khaydarov, N.Q.Rajabov, G.R.Murtazayeva,
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Resource-saving system of field husbandry mechanization

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Cleaning of meliorative channels using various types of work equipment machines

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The results of implemented researches on substantiation the parameters of the disc plougher

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A T Yuldashev, D A Kuldoshev, N B Djuraeva

Performance analysis of UAV sprayer application in precision agriculture

I V Kovalev, D I Kovalev, K D Astanakulov, Z E Shaporova, V A Podoplelova and D V Borovinsky

Evaluation of the influence of inhomogeneous inclusions on the stems bend of agricultural plants

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Mathematical modeling and optimal motion control of horizontal spindle apparatuses of cotton pickers

B M Azimov, N N Omonov, J Sh Norqulov, S M Sherkobilov

Digital technologies and automation in breeding and agriculture

A.L. Zolkin, E.V. Matvienko, O.P. Shevchenko, A.S. Bityutskiy and V.E. Ozhiganov

Modeling of adaptation of pests to transgenic agricultural taking into account the influence of taxis

Irina Kazharova, Natalya Fomenko, Aleksey Taran

Methodology for calculating the characteristics of linear induction motors for low-speed process equipment

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Taxir Bayzakov, Sharofiddin Yusupov, Rustem Yunusov, Ilxom Xolmirzaev, Jahongir Esanov and Shakhnoza Kulmamatova

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associations of plant communities of floodplain meadows

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Analysis of the rationality of using a natural resource in the form of wood
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Development of an algorithm for wood biomass processing at the stage of logging operations

Zyryanov Mikhail Alexeyevich, Medvedev Sergei Olegovich, Sergaev Stepan Olegovich, Nikiforov Anatoly Vladimirovich

Development of a model for forecasting the inflow to the site of a hydroelectric power plant using neural models for information processing

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Leyla Sharafutdinova, Gofur Jalilov, Isomiddin Togaev, Luqmon Samiev, K. T. Rakhimov, T. Apakhodjaeva

The impact of the ecological orientation of entrepreneurs on sustainable development

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Floristic composition of meadow vegetation of floodplain meadows of the Bolshoy Kinel River

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Improving environmental efficiency of gas purification by low-temperature treatment

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Artem Subbotin, Ilya Ilyushin, Georgy Zhuravlev, and Koroleva Valeria

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S J Razzaqov, Sh Sh Jurayev, Sh A Xakimov, D A Qayumov, J G Yuldashev

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M. S. Luzina, A. S. Minibaev

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Sergey Laponov and Alexander Erushonkov