



# IQTISODIYOT va TARAQQIYOT

Ijtimoiy, iqtisodiy, texnologik, ilmiy, ommabop jurnal



BUXORO  
MUHANDISLIK-  
TEKNOLOGIYA  
INSTITUTI



## ZAMONAVIY IQTISODIYOTDA YUQORI MUHANDISLIK TEXNOLOGIYALARINI ILMIY-AMALIY JORIY ETISH INNOVATSION TARAQQIYOT POYDEVORI

2024

MAQOLALAR TO'PLAMI

MAXSUS SON  
Iyun-iyul

INDUSTRY  
4.0



74-91 xalqaro daraja

ISSN: 2992-8982



# Yashil IQTISODIYOT va TARAQQIYOT

Ijtimoiy, iqtisodiy, siyosiy, ilmiy, ommabop jurnal

## Bosh muharrir:

Sharipov Kongiratbay Avezimbetovich

## Bosh muharrir o'rinosari:

Karimov Norboy G'aniyevich

## Mas'ul muharrir:

Abduraxmanova Gulnora Kalandarovna

## Muharrir:

Qurbanov Sherzod Ismatillayevich

## Tahrir hay'ati:

Salimov Oqil Umrzoqovich, O'zbekiston fanlar akademiyasi akademigi

Abduraxmanov Kalandar Xodjayevich, O'zbekiston fanlar akademiyasi akademigi

Rae Kvon Chung, Janubiy Korea, TDIU faxriy professori, "Nobel" mukofoti laureati

Osman Mesten, Turkiya parlamenti a'zosi, Turkiya – O'zbekiston do'stlik jamiyatni rahbari

Sharipov Kongiratbay Avezimbetovich, t.f.d., prof., O'zR Oliy ta'lif, fan va innovatsiyalar vaziri

Buzrukxonov Sarvarxon Munavvarxonovich, i.f.d., O'zR Oliy ta'lif, fan va innovatsiyalar vaziri o'rinosari

Axmedov Durbek Kudratillayevich, i.f.d., prof., O'zR Oliy Majlis qonunchilik palatasi deputati

Xudoqulov Sadirdin Karimovich, i.f.d., prof., TDIU YoMMMB birinchi prorektori

Abduraxanova Gulnora Kalandarovna, i.f.d., prof., TDIU Ilmiy ishlar va innovatsiyalar bo'yicha prorektori

Kalonov Muxiddin Baxritdinovich, i.f.d., prof., "O'IRIAM" ilmiy tadqiqot markazi direktori – prorektor

Yuldashev Mutallib Ibragimovich, i.f.d., TMI professori

Samadov Asqarjon Nishonovich, i.f.n., TDIU professori

Slizovskiy Dimitriy Yegorovich, t.f.d., Rossiya xalqlar do'stligi universiteti professori

Mustafakulov Sherzod Igamberdiyevich, i.f.d., prof., Xalqaro "Nordik" universiteti rektori

Aliyev Bekdavlat Aliyevich, f.f.d., TDIU professori

Axmedov Ikrom Akramovich, i.f.d. TDIU professori

Po'latov Baxtiyor Alimovich, t.f.d., profesor

Eshtayev Alisher Abdug'aniyevich, i.f.d., TDIU professori

Isakov Janabay Yakubbayevich, i.f.d., TDIU professori

Musyeva Shoira Azimovna, SamDu IS instituti professori

Axmedov Javohir Jamolovich, i.f.f.d., "El-yurt umidi" jamg'armasi ijrochi direktori o'rinosari

Toxirov Jaloliddin Ochil o'g'li, t.f.f.d., TAQU katta o'qituvchisi

Xalikov Suyun Ravshanovich, i. f. n., TDAU dotsenti

Kamilova Iroda Xusniddinovna, i.f.f.d., TDIU dotsenti

Nosirova Nargiza Jamoliddin qizi, i.f.f.d., TDIU dotsenti

Rustamov Ilhomiddin, f.f.n., Farg'ona davlat universiteti dotsenti

Fayziyev Oybek Raximovich, i.f.f.d. (PhD), Alfraganus universiteti dotsenti

Sevil Piriyeva Karaman, PhD, Turkiya Anqara universiteti doktaranti

Mirzaliyev Sanjar Maxamatjon o'g'li, TDIU mustaqil tadqiqotchisi

Utayev Uktam Choriyevich, O'zR Bosh prokururaturasi boshqarma boshlig'i o'rinosari

Ochilov Farxod, O'zR Bosh prokururaturasi iqtisodiy jinoyatlarga qarshi kurashish departamenti bo'limi boshlig'i

Yaxshiboyeva Laylo Abdisattorovna, TDIU katta o'qituvchisi

## Ekspertlar kengashi:

Berkinov Bazarbay, iqtisodiyot fanlari doktori, professor

Hakimov Ziyodulla Ahmadovich, i.f.d, TDIU dotsenti

Tuxtabayev Jamshid Sharafetdinovich, i.f.f.d, TDIU dotsenti

Xamidova Faridaxon Abdulkarim qizi, i.f.d., TMI dotsenti

Babayeva Zuhra Yuldashevna, TDIU mustaqil tadqiqotchisi

**Muassis:** "Ma'rifat-print-media" MChJ

**Hamkorlarimiz:** Toshkent davlat iqtisodiyot universiteti, O'zR Tabiat resurslari vazirligi,  
O'zR Bosh prokururaturasi huzuridagi IJQK departamenti.

**"ZAMONAVIY IQTISODIYOTDA YUQORI MUHANDISLIK  
TEXNOLODIYALARINI ILMIY-AMALIY JORIY ETISH  
INNOVATSION TARAQQIYOT POYDEVORI"**

***MAVZUSIDAGI ILMIY MAQOLALAR TO'PLAMI***





# SYSTEMATIC ANALYSIS OF BRIQUETTE MASS PRESSING EQUIPMENT APPROACH

**Kobilov Kh.**

PhD, associate Professor, department of “Information communication systems of controlling technological processes” Bukhara engineering-technological institute, Bukhara city, Uzbekistan

**Sharipova N.R.**

Postgraduate student, Bukhara engineering-technological institute,  
Bukhara city, Uzbekistan

**Abstract:** Nowadays, the need for solid fuel products in our Republic is increasing day by day. Mathematical and computer models describing the process of pressing briquettes were developed, and as a result of conducting analytical experiments, graphs of the dependence of the density, porosity and volume of briquette plastic mass on the duration of pressing were obtained.

**Key words:** systematic analysis, input and output parameters, mathematical modeling, hierarchical structure, compression part, briquette forming part, compression ratio, analytical experimental way.

**Annotatsiya:** Hozirgi kunda Respublikamizda qattiq yoqilg'i mahsulotlariga bo'lgan ehtiyoj kundan-kunga ortib bormoqda. Briketlarni presslash jarayonini tavsiflovchi matematik va kompyuter modellari ishlab chiqilib, analitik tajribalar o'tkazish natijasida briket plastmassa massasining zichligi, g'ovakligi va hajmining presslash davomiyligiga bog'liqligi grafiklari olingan.

**Kalit so'zlar:** tizimli tahlil, kirish va chiqish parametrlari, matematik modellashtirish, ierarxik tuzilish, siqish qismi, briket hosil qiluvchi qism, siqish nisbati, analitik eksperimental usul.

**Аннотация:** В настоящее время потребность в твердотопливных продуктах в нашей Республике увеличивается с каждым днем. Разработаны математические и компьютерные модели, описывающие процесс прессования брикетов, и в результате проведения аналитических экспериментов получены графики зависимости плотности, пористости и объема пластической массы брикета от продолжительности прессования.

**Ключевые слова:** системный анализ, входные и выходные параметры, математическое моделирование, иерархическая структура, часть прессования, часть формирования брикета, степень прессования, аналитический экспериментальный способ.

## INTRODUCTION

A systematic approach to the study of briquette mass pressing equipment and the current state of the pressing process allows to obtain the most accurate results and to correctly assess the possibilities of increasing the level of raw material utilization and reducing energy consumption in production [1; 160-p. 2.]

On the basis of systematic analysis, many processes are studied and optimal options for carrying out processes are developed. For example, if we take the production of vegetable oil [3; 4; 69-72-p.], a multi-level hierarchical structure of the systematic analysis of the pressing process in the production of vegetable oil is developed. In addition, each level of the hierarchy covers elements - quasi-devices and processes in them.

## RESEARCH METHODOLOGY

In researching the technological system and apparatus for making briquettes on the basis of small fractions of coal [5.], initially the parameters - the input and output parameters of the system - the pressing apparatus consisting of the system and the process taking place in the system are determined. Next, the considered system is divided into constituent elements, the parameters for each selected element - quasi-apparatus - are shown.

A systematic analysis of the briquette pressing device is considered together with the selected process taking place in it, its parameters and initial considerations of their interaction are determined.

According to the proposed method [1; 160-p. 2.], initial indicators - input and output parameters of the briquette material pressing facility are determined. After that, the considered system of briquette mass pressing in a pressing device (element) is divided into constituent elements, the parameters for each selected element and

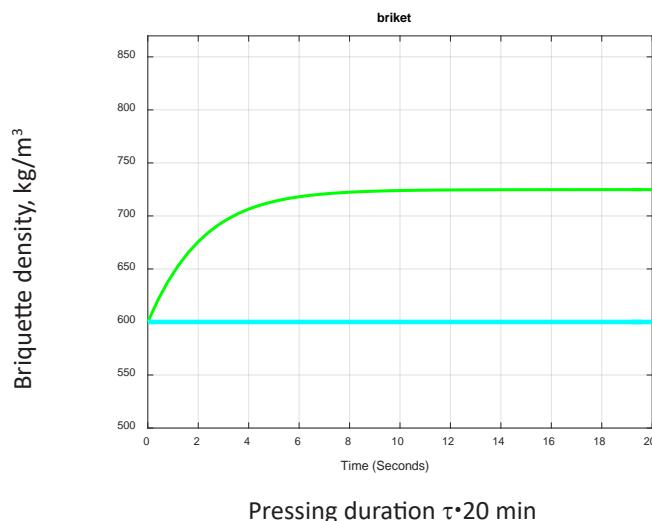


the process in the element are indicated. And in this case, the division of the element (system) into subsequent systems is not limited. The decision is made according to the level of necessity and the possibility of research, that is, to ensure optimal pressing of the material to obtain briquettes in the pressing device.

## RESEARCH RESULTS

At the first level of the hierarchy, a semi-industrial apparatus for pressing briquette material is considered. Continuing the systematic thinking [7; 185-p.], in this work, the briquette material pressing device comes to the fore, its input and output parameters are determined. The input parameters of the briquetting material pressing object are the consumption of material for briquetting  $G_{input}$  (in which a certain ratio of constituent components is taken into account) and the energy spent on the process  $N$  is taken. The consumption  $G$  of the outgoing briquette material and its density are taken as output parameters. When calculating the volume of material from which briquettes are obtained in a quasi-pressing device, the material pressing coefficient  $k$  ( $\text{kg}/\text{m}^3 \cdot \text{s}$ ) is taken into account [6; 142-143-p.]

Based on mathematical modeling, the results of briquette density and its relative porosity indicators are presented in Figures 1 and 2.



Pressing duration  $\tau \cdot 20$  min

Figure 1. Variation of briquette density during pressing.

Figure 1 shows the change in the starting characteristic of the pressing device, which describes the change of the starting characteristic of the briquette density with time, where the pressing coefficient is  $7100 \text{ kg}/\text{m}^3 \cdot \text{s}$ .

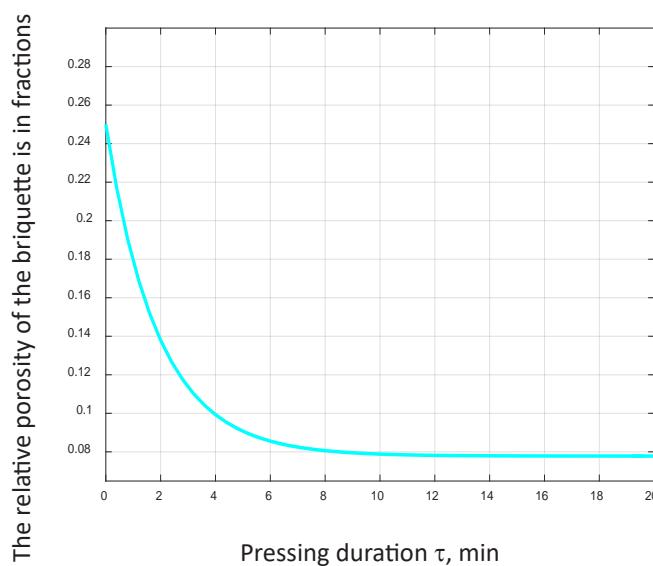


Figure 2. Variation of relative porosity of briquettes during pressing.



Figure 2 shows the curve of the relative reduction of pores in the briquette during pressing of coal briquettes.

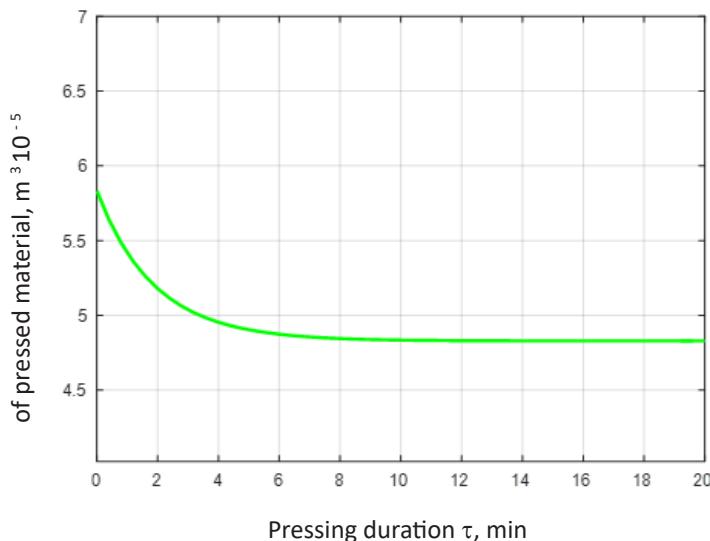


Figure 3. Dependence of the volume of pressed material on the duration of pressing.

Figure 3 shows that the density of briquettes increases from  $600 \text{ kg/m}^3$  to  $725 \text{ kg/m}^3$  when the pressing coefficient  $k$  is equal to  $10,000 \text{ kg/m}^3 \cdot \text{s}$ . It can also be observed that during pressing, the relative change of material porosity decreased from 26% to 8% (Fig. 2).

The results obtained on the basis of mathematical modeling show that by implementing the operating mode of the system developed for the coal briquette pressing process in a stable state, it is possible to maintain the volume consumption of the product at a uniform rate within a unit of time.

From the second level of the hierarchy, the material pressing apparatus is considered in the form, where one of the abstract indicators is the material compression coefficient.

At the third and fourth level of the hierarchy are the press housing and the screw and the material transferred to the body is considered. In this case, calculate the dimensions of a certain body and how much pressure it will work at can be determined. The material is gradually compacted in the body with the help of an auger and comes out in the form of briquettes. The material can be divided into two parts: first compression part, the second briquette forming part. When the material enters the forming part, it is formed and leaves the apparatus. The compression part is the main part. This is served by the consumption of the product, its density and porosity as an input parameter. If the output parameter is the consumption of the output product, it is its concentration by density. Here, energy is given under pressure the gap in compression changing concentration has its own complexity. That is, the density of the product gradually increases until it is finally formed by briquette press. If we specify the input and output parameters, the output product will take a certain form through the forming device. Here is the consumption and porosity of the product, the consumption and porosity of the outgoing briquette. All of these together form a larger system and process. Then there are things that can affect the compression of this product. In the compression part, it is compressed by mixing coal, binder and liquid material together and the parameters keep changing until the process is completed and the density of the material increases. Compression and shaping if we look at the process in the section, how much the density of the product composition increases is of great importance for briquetting. We will see many steps of mathematical modeling with an analytical experimental approach. That's why a systematic analysis of the device is done first, its approximation is studied and a mathematical model of the required process is created. Based on this, a computer model is created. This will allow you to calculate the process.

## CONCLUSION

When we use mathematical modeling in an analytical experiment, we use material balance equations. And in the material balance equation, we can see the concentration of compression, that is, the concentration of increasing density. Considering this in various situations, we can calculate the compression coefficient, which is more complicated. We will try to find the compression coefficient experimentally. Therefore, we can find the compression coefficient in our fire experiments and create a computer model based on it.

**References**

1. Артиков А.А., Компьютерные методы анализа и синтеза химико-технологических систем: учебник для магистрантов технологических специальностей/Министерство высшего и среднего специального образования Республике Узбекистан. – Т.: “Вориснашриёт”, 2012. – 160 с.
2. Артиков А.А., Нарзиев М.С., Қобилов Х.Х., To the question of modeling the process of compacting a briquetted material in a pressing plant SJIF Impakt Faktor: 7.492 Academika an International Multidisciplinary Research Journal DOI: 10.5958/2249-7137.2021.00437.7 <https://erpjournals.com>
3. Ҳасанов Дж.Х., маг. Унарбоев Ф., Системный анализ объекта автоматизации аппарата прессования в производстве растительных масел. ТКТИ. Умидли кимёгарлар. 2016.
4. М.А. Корякина, Оптимизация параметров шнека экструдера для получения рапсового плотности Текст. /М.А. Корякина // Известия Оренбургского государственного аграрного университета. Оренбург, 2011. -№ 3.-С. 69-72.
5. Kobilov K.H.X., Abidov K.Z., Development of the installation device pressing the volume of briquetted material and computer modeling of the technological process Call for papers novateur publication. Journal NXA Vultidisciplinare Peer Reviewed Journal ISSN: 2581-4230. Journal Impakt Faktor: 7.8, 2021.
6. Қобилов Ҳ.Ҳ, Кўмир қукунини брикетловчи шнекли аппаратнинг таснифи. “Ёшларни қўллаб-қувватлаш ва аҳоли саломатлигини мустаҳкамлаш йили” га бағишлиланган профессор-ўқитувчилар, илмий изланувчилар, магистрлар ва талабаларнинг илмий-амалий анжумани ТЕЗИСЛАР ТЎПЛАМИ (2021 йил 28-29 май) 142-143 б.
7. Артиков А.А., Джуреев Х.Ф., З.А Машарипова, Баракаев Б.Н., Системное мышление, анализ и нахождение оптимальных решений (на примерах инженерной технологии). Издательство “Дурдона”. Бухара. 2019. 185 с.



# MUNDARIJA

Muhandislar – taraqqiyot tayanchi .....	4
<b>Sadoqat Siddiqova</b>	
Исследование влияние азотсодержащей добавки на процесс окисления битумов .....	9
<b>Юлдашев Норбек Худайназарович</b>	
Ziyorat turizmning iqtisodiy, ekologik va ijtimoiy ta'siriga oid muammolar yechimida terminologiyaning ahamiyati.....	14
<b>Malohat Jo'rayeva, Shavkat Bafoyev</b>	
Ekspluatasiya davrida kompressor moylarining ishlashi va fizik-kimyoviy xususiyatlari o'zgarishining o'ziga xosligi .....	19
<b>Xo'jaqulov Aziz Fayzullayevich</b>	
Tabiiy gazning oltingugurtli qo'shimchalarining fizik-kimyoviy xossalarni tadqiq qilish .....	24
<b>Muxtor Jamolovich Maximov, Ramazonov Bahrom G'afurovich</b>	
Автоматическое формообразование пневматических опалубок бикубическими сплайнами.....	30
<b>Ядгаров Ўкташ Турсунович, Ахмедов Юнус, Асадов Шуҳрат Кудратович</b>	
Optimizing the efficient transport of mass from alternative energy sources and the process of heat and mass exchange during the processing of spices .....	37
<b>Khayrullo Djurayev Fayzievich, Mizomov Mukhammad Saydulla ugli</b>	
The role of digitalization in regional development and the utilization of their potential for sustainable development .....	44
<b>Jafarova Khilola Khalimovna</b>	
Разработка новых структур и способов выработки комбинированного трикотажа с повышенной формоустойчивостью на базе интерлочного переплетения .....	48
<b>Гуляева Г.Х., Мукимов М.М., Каримова Н.Х.</b>	
Кислотная активация навбахорской бентонитовой глины .....	53
<b>Хужакулов Азиз Файзуллаевич, Хотамов Кобил Ширинбой угли</b>	
Mustaqil ta'limdi tashkil etishda raqamli texnologiyalardan foydalanish metodikasini takomillashtirish.....	58
<b>Murodova Zarina Rashidovna, Jo'raqulova Mehrangez Orifovna</b>	
Kislородли birikmalar asosida olingan antidental sion kompozitsiyalarning ai-80 avtomobil benzinini detonatsion barqarorligiga ta'sirini tadqiq qilish .....	66
<b>Saloydinov Aziz Avazovich</b>	
Buxoro viloyatining investitsion jozibadorligini oshirish yo'llari.....	70
<b>Akramova Obida Qosimovna</b>	
Исследование механико-технологических параметров глубокого рыхления почвы подпахотного горизонта.....	77
<b>Н.С.Бибутов, Ф.Ю.Хабибов, Ш.М.Муродов</b>	
Разработка экспериментальной установки энергосберегающего измельчителя фруктов и овощей для производства сок с мякотью.....	85
<b>Ф.Ю. Хабибов, X.X. Ниязов</b>	
Tуризм: типология и классификация.....	95
<b>Малоҳат Мухаммадовна Жураева, Марупова Гульноз Умарджоновна</b>	
"Yashil energetika"ni rivojlantirishni rag'batlantirishning me'yoriy ko'rsatkichlarini ishlab chiqish.....	99
<b>Sadullayev Nasullo Ne'matovich, G'afurov Mirzoxid Orifovich, Ne'matova Zuxra Nasullo qizi</b>	
Umumiy ovqatlanish korxonalarida xizmat ko'rsatish sifatini oshirishda diversifikatsiyalangan milliy hunarmandchilik mahsulotlaridan foydalanishning ahamiyati.....	108
<b>Ruziyeva Gulinoz Fatilloyevna, Raximova Dilorom Sulaymonovna</b>	
Polimerlar ishlab chiqarishda hamda ularni qayta ishlashda hosl bo'ladigan chiqindilardan samarali foydalanish jihatlari .....	114
<b>Raxmatov Sherzod Shuxratovich, Sadirova Saodat Nasreddinovna, Niyozova Rano Najmiddinovna, Axmedov Hafiz Ibroimovich</b>	
Kichik quvvatli, energiya samarador shamol turbinalari ko'rsatkichlarining tahlili.....	118
<b>I.I. Xafizov, F.F. Muzaffarov, M.Sh. O'ktamov</b>	



Анализ ингредиентов пищевых продуктов с помощью нейронной сети ..... <b>Мухамадиева Зарина Баходировна</b>	127
Dizel moylarini reologik xossalarini tatqiq qilish..... <b>Xo'jaqulov Aziz Fayzullayevich, Toshov Mavzuddin Sa'dullo o'g'li</b>	132
Анализ состав и свойства нефтяных остатков и битумов ..... <b>Юлдашев Норбек Худайназарович, Махмудов Мухтор Жамолович, Комолов Руслан Илхомбекович</b>	136
Kambag'allikdagi tarkibiy o'zgarishlarning aholi turmush forovonligi darajasiga ta'sirining ahamiyati..... <b>Xayitov Sherbek Naimovich</b>	141
Maxsus kiyimlar tikishda foydalanimadigan gazlamalar tahlili ..... <b>Sayidova MaftunaHamroqul qizi</b>	148
Production of tomato paste ..... <b>Ergasheva Muhabbat Komil kizi</b>	153
Problems of development of research and innovative activities in higher educational institutions..... <b>Rakhimova Dilnoza Davronovna, Alimova Ruxsora Xamzayevna</b>	156
O'zbekiston mehnat bozorida bandlikning innovatsion turlarini shakllantirish va rivojlantirish omillari ..... <b>Avezova Shaxnoza Maximudjonova</b>	159
Dual ta'lilda keys texnologiyasini qo'llash ..... <b>Sariyev Rustam Bobomuradovich</b>	166
Mintaqada bank-moliya tizimini rivojlantirishning nazariy va metodologik asoslari ..... <b>Jumayev Bahodir Raxmatullayevich</b>	169
Chiqindi AKM katalizatorlardan kobalt va molibdenni ajratish usuli ..... <b>Tursunova F. J., G. R. Bozorov</b>	174
Hududlarning mutanosib barqaror rivojlanishini ta'minlash imkoniyatlari (ijtimoiy rivojlanish va yo'nalishlar) ..... <b>Hojiyev Tal'at Toshpo'latovich</b>	180
Sanoat korxonalarining investitsiya faoliyatini samarali boshqarish muammolari ..... <b>Kudratov Muhammad Rustamovich</b>	185
Iqtisodiyotdagi innovatsion o'zgarishlar sharoitida kambag'allikni qisqartirish orqali aholi farovonligini oshirish..... <b>Amrulloev Dadaxon Nurmat o'g'li</b>	190
Mintaqada barqaror rivojlanishni ta'minlashda raqamlı texnologiyalarning o'rni ..... <b>Jafarova Hilola Xalimovna</b>	194
Nordon gazlarni aminli tozalash jarayonida ko'p so'ndirgichlarning kimyoviy ta'sir mexanizmi ..... <b>Muxtor Jamolovich Maximov, Ramazonov Bahrom G'afurovich</b>	198
Uglevodorodlarning fizik-kimyoviy tahlili ..... <b>Abduraxmonov Olim Rustamovich, Islomov Alisher Nurillayevich</b>	207
Iqtisodiyotdagi innovatsion o'zgarishlar sharoitida kambag'allikni qisqartirish orqali aholi farovonligini oshirish..... <b>Amrulloev Dadaxon Nurmat o'g'li</b>	213
Atrof-muhitga zararsiz, tabiiy tarkibli korroziya ingibitorlari turlarini tahlil qilish .....	217
Buxoro viloyatida kambag'allikni bartaraf etish va bandlikni oshirish yo'nalishida hududlar kesimida mavjud imkoniyatlar tahlili..... <b>Musulmonova Shahlo Nasriddinovna</b>	223
Neft va gaz sanoati chiqindilarining atrof-muhitga salbiy ta'sirlarini tahlili .....	229
<b>Ochilov Abduraxim Abdurasulovich, Uzakbaev Kamal Axmet uli, O'rinoval Xurshid Xayridin o'g'li</b>	
Blokcheyn tizimlarida kriptografik kalitlar uchun tasodifiy sonlarni generatsiyalovchi SuperCSPRNG algoritmi .....	235
<b>Nurullayev Mirxon Muhammadovich</b>	
"Yashil" energetikaning o'zbekiston iqtisodiyotiga ijobiy va salbiy ta'sirlarini baholash va ularni tahlil qilish..... <b>I.I. Xafizov, F.F. Muzaffarov, A.Y. Baqoyev</b>	241
Buxoro viloyatida raqamlı texnologiyalarni rivojlantirish istiqbollari .....	247
<b>Xakkulov Eldar Xudoyberdiyevich</b>	
Chiqindi gazlarni changli qo'shimchalardan tozalash..... <b>Rayimov Zuhreddin Xayriddin o'g'li, Sattorova Gulnoza Tuymurodovna, Jamilova Niginabonu Qobil qizi, Qudratov Oston Hayrulla o'g'li</b>	251



Kremniyorganik polimer kompozitsiyalar asosida termobarqaror bo'yoq olish imkoniyatlari.....	255
<b>Xoliqova Gulhayo Qo'ldoshevna, Raximov Firuz Fazlidinovich, Nurilloyev Zafar Ismatilloyevich</b>	
Korroziya ingibitorlarini neft va gaz quduqlariga samarali qo'llash .....	260
<b>Ato耶ev Extiyor Xudoyorovich, Jo'rayeva Dilsora Shodmonovna</b>	
Qo'ndirmalni transformator moylarining kolloid barqarorligini baxolash.....	264
<b>Xo'jaqulov Aziz Fayzullayevich, Raximov Zaxriddin Zafar O'g'li</b>	
Buxoro viloyatining investitsion jozibadorligini baholash .....	270
<b>Akramova Obida Qosimovna</b>	
Yoshlarni tolerantlik ruhida tarbiyalashda ahmad donishning ta'lif-tarbiyaga oid qarashlari tahlili .....	277
<b>A.Q. Saloxov</b>	
O'zbekiston iqlim sharoitlarida quyosh fotoelektrik modullariga sovutish tizimini joriy etish	
samaradorligini baholash.....	281
<b>Soliyeva Zamira Nurnazar qizi</b>	
Gaz sanoati texnologik tizimlarida gaz gidratlarining hosil bo'lishini oldini olish va tabiiy gazlarni	
quritishning istiqbollni yo'nalishlari.....	288
<b>Maxmudov Muxtor Jamolovich, Jumaboyev Bobojon Olimjonovich</b>	
Tabiiy gazni nordon komponentlardan tozalash jarayonlari klassifikatsiyasi va mdea yordamida	
tozalashning zamonaviy texnologiyalari tahlili .....	296
<b>Hamroyev Rustam Jo'rayevich</b>	
Основные методы сохранения исторических городских поселений и памятников архитектуры	
узбекистана (на примере бухары).....	304
<b>З.Н. Файзуллаева</b>	
Systematic analysis of briquette mass pressing equipment approach .....	309
<b>Kobilov Kh., Sharipova N.R.</b>	

# Yashil

IQTISODIYOT  
va  
TARAQQIYOT

Ijtimoiy, iqtisodiy, siyosiy, ilmiy, ommabop jurnal

**Ingliz tili muharriri:** Feruz Hakimov

**Musahhih:** Xondamir Ismoilov

**Sahifalovchi va dizayner:** Iskandar Islomov

## 2024. Maxsus son

© Materiallar ko'chirib bosilganda ““Yashil” iqtisodiyot va taraqqiyot” jurnali manba sifatida ko'rsatilishi shart. Jurnalda bosilgan material va reklamalardagi dalillarning aniqligiga mualliflar ma'sul. Tahririyat fikri har vaqt ham mualliflar fikriga mos kelamasligi mumkin. Tahririyatga yuborilgan materiallar qaytarilmaydi.

Mazkur jurnalda maqolalar chop etish uchun quyidagi havolalarga maqola, reklama, hikoya va boshqa ijodiy materiallar yuborishingiz mumkin.

Materiallar va reklamalar pullik asosda chop etiladi.

E-mail: sq143235@gmail.com

Bot: @iqtisodiyot\_77

Tel.: 93 718 40 07

Jurnalga istalgan payt quyidagi rekvizitlar orqali obuna bo'lishingiz mumkin. Obuna bo'lgach, @iqtisodiyot\_77 telegram sahifamizga to'lov haqidagi ma'lumotni skrinshot yoki foto shaklida jo'natishingizni so'raymiz. Shu asosda har oygi jurnal yangi sonini manzilingizga jo'natamiz.

““Yashil” iqtisodiyot va taraqqiyot” jurnali 03.11.2022-yildan O'zbekiston Respublikasi Prezidenti Adminstratsiyasi huzuridagi Axborot va ommaviy kommunikatsiyalar agentligi tomonidan №566955 reyestr raqami tartibi bo'yicha ro'yxatdan o'tkazilgan.

**Litsenziya raqami:** №046523. PNFL: 30407832680027

**Manzilimiz:** Toshkent shahar, Mirzo Ulug'bek tumani  
Kumushkon ko'chasi, 26-uy.



### Jurnalning ilmiyligi:

““Yashil” iqtisodiyot va taraqqiyot” jurnali O'zbekiston Respublikasi Oliy ta'lim, fan va innovatsiyalar vazirligi huzuridagi Oliy attestatsiya komissiyasi rayosatining 2023-yil 1-apreldagi 336/3-sonli qarori bilan ro'yxatdan o'tkazilgan.