

Yashil

IQTISODIYOT TARAQQIYOT

Ijtimoiy, iqtisodiy, siyosiy, ilmiy, ommabop jurnal

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- 08.00.01 Iqtisodiyot nazariyasi
- 08.00.02 Makroiqtisodiyot
- 08.00.03 Sanoat iqtisodiyoti
- 08.00.04 Qishloq xo'jaligi iqtisodiyoti
- 08.00.05 Xizmat ko'ssatish tarmoqlari iqtisodiyoti
- 08.00.06 Ekonometrika va statistika
- 08.00.07 Moliya, pul muomalasi va kredit
- 08.00.08 Buxgalteriya hisobi, iqtisodiy tahlil va audit
- 08.00.09 Jahon iqtisodiyoti
- 08.00.10 Demografiya. Mehnat iqtisodiyoti
- 08.00.11 Marketing
- 08.00.12 Mintaqaviy iqtisodiyot
- 08.00.13 Menejment
- 08.00.14 Iqtisodiyotda axborot tizimlari va texnologiyalari
- 08.00.15 Tadbirkorlik va kichik biznes iqtisodiyoti
- 08.00.16 Raqamli iqtisodiyot va xalqaro raqamli integratsiya
- 08.00.17 Turizm va mehmonxona faoliyati



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MUNDARIJA

Organizational Behavior and Leadership.....	10
Ibrokhim Gulomov	
Baliqchilikda klasterlarini tashkil etishning nazariy asoslari	18
Olim Murtazayev, Muydinov Olim Bekmuratovich	
Ocenka sostoyaniya privlecheniya investitsiy v sfere turizma Uzbekistana i mehanizmy upravleniya 24	
Arzimatov Bobirmirzo Zokirjon ulgi	
Biologik aktivlar buxgalteriya hisobni milliy va xalqaro standartlarga muvofiq takomillashtirish masalalari...27	
Axmadalievna Zebo Abduxalimovna	
Aholi yashash joylarida yong'in risklarini bartaraf etish xizmatlardan foydalanish imkoniyatlari.....32	
Aziz Zikriyoev	
O'zbekistonda ilmiy darajali kadrlar tayyorlash tizimi boshqaruvining tashkiliy tuzilmasi va vazifalari.....40	
Beknaeva Shaxnoza Vladimirovna	
Mintaqaviy turizmnинг iqtisodiyot rivojlanishiga ta'siri (O'zbekiston turistik xizmatlar bozori misolida).....45	
D. B. O'rroqova	
Qishloq xo'jaligi mahsulotlarini ko'paytirishning asosiy yo'llari.....50	
Ibrohimov Boburmirzo Baxtiyor o'g'li, Sayfiddinov Sarvarbek Anvarbek o'g'li	
Sanoat korxonalarining aksiyalar bozoridagi faoliyati tahlili: muammolar va yechimlar55	
Igitov Jurabek Kuzibekovich	
Qurilishda modernizatsiya va diversifikatsiya qilish asosida yangi ishlab chiqarish quvvatlarini oshirish63	
Islamov Ozodjon	
Sanoat korxonalari innovatsion salohiyatini oshirishning tashkiliy-iqtisodiy mexanizmini takomillashtirish yo'llari.....67	
J. K. Boymurodov	
Mamlakatda yashil iqtisodiyotni rivojlanish yo'nalishlari	72
Kadirxodjayeva Nilufar Raxmatullayevna	
BlokchEYn texnologiyalari yordamida raqamli iqtisodiyotni o'zgartirish	77
Karabayev Rustam Zafarovich, Saitkamolov Muxammadxo'ja Sobirxo'ja o'g'li	
Raqamli iqtisodiyot sharoitida zamonaviy mehnat bozorining rivojlanishi	84
Layli Mirzayeva	
Xizmat ko'rsatish sohasini rivojlantirishda investitsion resurslardan samarali foydalanish mexanizmlari.....88	
Luiza Komilovna Xaydarova	
Umumta'lum muassasalari sonining ekonometrik tahlilini pedagogik metodlar yordamida amalga oshirish...93	
Ravshanova Muhayyo Maxmanazarovna	
O'zbekiston tarixiy shaharlarida turistik faoliyati shakllanishi va ularni boshqarishning nazariy asoslari.....98	
Meliqulov G'ayrat Abdig'afarovich	
Iqtisodiy rivojlanish va ilmiy tadqiqot rivojlanishining havo ifloslanish darajasiga ta'siri	105
Murodullayev Kamoliddin Sherzod o'g'li, Sadibekova Bibisora Djapparovna, Turdiqulov Farrux Ravshanjon o'g'li	
Hududlarni rivojlantirish va "yashil iqtisodiyot"ni shakllantirishning ekologik muammolari.....110	
Maxkamov Saidafzal Saidkamol o'g'li, Yigitaliyeva Dilnava Mansurjon qizi	
Ekoturizm obyektining tasniflanishi va alohida xususiyatlari	116
Qodirov Azizjon Anvarovich	
Mamlakatimiz oliv ta'lim tizimda sifat menejmentidan foydalanishning konseptual asoslari	121
Saidqulova Firuza Farmonovna	
Bo'lajak iqtisodchilarning kasbiy kompetensiyalari.....125	
Shukurova Marifat Xodjiaqbar qizi	
Ta'limning bosqichlari va ularning inson kapitalini shakllantirishdagi ahamiyati	129
To'rayeva Hurriyat To'yqulovna	



Hududlarda to'g'ridan to'g'ri xorijiy investitsiyalarni jalg etish dasturini amalga oshirishda marketingni rivojlantirish yo'llari	136
Xamidov O. X., Tojiyeva A. F.	
Investitsiyalar marketingining strategik aspektlari.....	143
Kodjamberdiyeva Dilnoza Bahtiyorovna	
Xorijiy investitsiyalarni jalg etishda investitsion muhit jozibadorligini oshirishga nazariy qarashlar	149
A. Bektemirov, A. A. Abdurahmonov	
Qishloq xo'jaligi raqobatbardoshligini oshirishning ilg'or xorij tajribasi.....	154
Abdulloyev Asliddin Junaydullayevich, Ochilov Narzullo Fayzulloyevich	
Sanoat ishlab chiqarish tizimining investitsion xususiyatlari.....	159
Yodgorova Xalima To'lqinovna	
Turizm sohasi uchun yuqori malakali kadrlarni tayyorlashda davlat va xususiy sherikchilikning o'zaro bog'liqligi tahlili.....	165
Raxmatov Adxam Itolmasovich	
Mamlakatimizda turizm tashkilotlari faoliyatini qo'llab-quvvatlash maqsadida marketing instrumentlari orqali samarali tizim yaratish.....	169
Suyunova Kamilla Baxromovna	
Qishloq xo'jaligida agrokimyo xizmatlar ko'rsatishning iqtisodiy samaradorligini oshirish yo'llari	173
Tabayev Azamat Zaripbayevich	
Yashil iqtisodiyotga investitsiyalarni jalg qilishni faollashtirish muammolari.....	178
Xomitov K. Z., Masharipova S. R.	
Considerations on the Problem of Illegal Migration and Human Trafficking	183
Azamatova Gulmira Bayirbekovna, Otarbayeva Guljan Kobeyevna	
Sustainable Development and Environmental Economics in Uzbekistan: A Focus on Carbon Pricing and Renewable Energy	186
Muhammadiev Po'latjon Ilhomjon o'g'li, Uzganbayeva Dilnoza Toxtasinovna	
The use of Digital Technologies in the Provision Of Utilities to the Population	192
Mamanazarov Oybek Shomurodovich, Inoyatova Durdonga Shoxaydarovna, Alijonov Jamshid Alijon o'g'li	
The Current State of the Digital Economy in the Agrarian Sphere: Problems and Solutions	196
Babajanov Abdirashid Musayevich	
Behavioral Theory of the Firm	201
Egamberdieva Oydin Abror qizi	
The Role of Information Technologies in Increasing the Capitalization of Commercial Banks	207
Egamova Makhfurat Esanova	
Финансовые риски в исламском финансировании для внедрения в Республики Узбекистан	211
Абдуллоев Фуркат Олимджонович	
Совершенствование методологии экспертизы инвестиционных проектов	216
Бекимбетова Гулнора Маратовна	
Методические подходы к формированию механизмов стратегического управления развитием химической отрасли	223
Бибутова Шахло Саъдullaевна	
Меры по снижению доли теневой экономики в стране.....	228
Махмудова Юлдузхон Баҳромжон қизи, Сафаров Гиёсиддин Абдуллаевич ўғли	
Формирование национальной инновационной системы – одна из приоритетных задач повышения конкурентоспособности Республики Узбекистан	232
Н. М. Махмудов, А. А. Алиев, З. А. Мирзоев	
Мониторинг и анализ современного состояния и развития промышленности в Узбекистане.....	237
Назарова Раъно Рустамовна, Исимолова Малика Дилшодовна	
Цифровая платформа как инструмент трансформации бизнес-процессов	243
Раупов Жамшид Рашидович	
Роль применения ключевых показателей эффективности труда на предприятиях	249
Рахматуллаева Шахноза Хамидовна	



Влияние цифровой трансформации на инвестиционную привлекательность Узбекистана.....	255
Сайткамолов Мухаммадхожа Сабирходжа угли, Маркабаева Жансая Айбек кызы	
Организация и координация методической помощи при управлении педагогическими кадрами	261
Хакимова Майя Юрьевна	
Интеграция узбекистана в мировое экономическое содружество путем унификации бухгалтерского учета на основе МСФО	266
Зарипова Саёхат Зафаровна	
Tijorat banklari tomonidan investitsiya loyihalarini moliyalashni rivojlantirish imkoniyatlari.....	271
Abduqodirova Ozoda Anvarjon qizi	
Tijorat banklari tomonidan jismoniy shaxslarga ajratilgan kreditlarning joriy tahlili.....	276
Abdusalomov Jaxongir O'ktam o'g'li	
Globallashuv sharoitida mamlakatimizda sug'urta bozorini raqamlashtirishning ahamiyati.....	282
Anvarova Z.	
The Role of Parents and Teachers in Promoting a Healthy Lifestyle in Children.....	286
Axtamov Djamshed Baxromovich	
A Study of the Importance of Green Economy in Uzbekistan Sustainable Economic Development and its Measurement Indicators in Relation to Environment.....	291
Ataniyazova Maksuda Baltayevna, Tairova Zarnigor Mamat qizi	
Konsolidatsiyalashgan moliyaviy hisobot tuzishning zarurligi.....	296
Avazov Ilhom Ravshanovich	
Foydani soliqqa tortish obyekti sifatidagi iqtisodiy tarkibi.....	301
Axrorov Zarif Oripovich	
Surxondaryo viloyatida aholining uy-joy bilan ta'minlanganlik darajasini tahlili	309
Ibragimov Qobil To'xtamishovich	
Review of Methodological Approaches to Enterprises Financial Condition Analysis.....	314
Ismailova Maxbuba Mirxalilovna	
Innovatsion rivojlanish sharoitida xizmat ko'rsatish sohasini tasniflanishining nazariy va ilmiy asoslari.....	319
Masharipova Manzura Alimbayevna	
Korxonalarda benchmarking strategiyalarini qo'llashning ijtimoiy-iqtisodiy mexanizmlari.....	325
Narziyeva Dilafiruz Muxtorovna	
Davlat budgetining soliqsiz daromadlari shakllanishini takomillashtirish yo'llari.....	330
O'ktamova Nargiza Narzulla qizi	
Mamlakatimizda sanoat ishlab chiqarishi korxonalarining rivojlanish holati tahlili.....	334
Olimov Maqsudjon Komiljon o'g'li	
Moliyaviy natijalar to'g'risidagi hisobotni moliyaviy hisobotning xalqaro standartlar talablari asosida tuzish.....	339
Pardayeva Zulfizar Alimovna	
Raqamlashtirish sharoitida qo'shma korxonasi faoliyatining tahlili.....	343
Rashidov Jamshid Xamidovich	
Kichik biznes va xususiy tadbirdorlikning rivojlanishida oilaviy tadbirdorlikning o'rni.....	348
Raximov Baxromjon Ibroximovich, Saloxiddin Zuxriddin Nuriddin o'g'li	
Raqamli iqtisodiyot sharoitda xizmat ko'rsatishning ilmiy asoslari.....	352
Suyunov Asror Baxtiyorovich	
Raqamli iqtisodiyot sharoitda telekommunikatsiya sohasini rivojlantirish ilmiy asoslari.....	356
Toshmatov Salohiddin Zayniddinovich	
Raqamli iqtisodiyot sharoitida innovatsiyalarni joriy etishning huquqiy masalalari	360
Turg'unov Saloxiddin Jamol o'g'li, Mirzayeva Mohidil Vohidovna	
Zamonaviy sharitolarda korxonalarining moliyaviy baqarorligini yaxshilash masalalari	366
Usmanova Guljahon Ulug'bek qizi	
Franshizalarni jalb qilishda davlat boshqaruvi tizimida marketing tadqiqotlarining ahamiyati	371
Xodjayev Anvar Rasulovich	



Transport Decarbonization Strategy	377
Yarashova Vasila Kamalovna, Muradov Bekzod Xidirnazar ugli	
Temir yo'l transportida ishlab chiqarish faoliyatining iqtisodiy samaradorligini oshirish	382
Yermatova Dilnoza Axmадjonovna	
Iqtisodiyotda davlat ishtirokini qisqartirish va xususiy tadbirkorlikni rivojlantirish istiqbollari	387
Yuldashev Xusniddin Abdullayevich	
Issiqlik ta'minoti xizmatlarini ko'rsatish samaradorligi va sifatini baholash ko'rsatkichlari tizimi.....	390
Abdulaziz Abdumominovich Matro'ziyev	
Issiqlik ta'minoti xizmatlari sifatiga ta'sir etuvchi omillar va ularni baholash	394
Abdulaziz Abdumominovich Matro'ziyev	
Jismoniy shaxslarning mol-mulkiga soliq solishni takomillashtirish.....	399
Abdullayev Zafarjon Alijonovich, Zaydullayev Abduhabib Boliql o'g'li	
Sug'urta tashkilotlarida hisob siyosatini ishlab chiqishning ahamiyati.....	404
Abduraimova Maftunaxon Axmatovna	
Bank risklarini boshqarishning xalqaro tajribalari.....	409
Abdurasulov Jaxongir Abduvaliyevich	
Tadbirkorlik subyektlari ijtimoiy ma'sulligini ta'minlash mexanizmining amal qilish darajasi.....	416
Bayisbayev Javlon Nurlanovich	
Qishloq aholisining qishloq xo'jaligida bilim va innovatsiyalarini o'zlashtirishiga ta'sir etuvchi omillarni iqtisodiy baholash (Samarqand viloyati misolida).....	421
Bozorova Lobar Nuralevna	
Направления совершенствования инновационных стратегий в деятельности промышленных предприятий.....	427
Дониерова Зухрабону Алишер кизи	
Mol-mulk solig'ining korxonalar faoliyatiga ta'siri.....	432
Qudiyarov Kishibay Ramatullayevich	
Banklar reytingini aniqlash va barqarorligini ta'minlashning ustuvor yo'naliishlari.....	438
Maxmudov Omon Tuxtayevich	
Iqtisodiyotni modernizatsiyalash sharoitida tijorat banklarining aktiv va passiv operatsiyalarini innovatsion usullar orqali boshqarishni takomillashtirish	442
Mo'minova Ma'suda Baxtiyarovna	
Auditorlik tekshiruvini dasturiy ta'minot asosida tashkil etish: muammo va yechimlar.....	447
Nazarova Kamola Sattorali qizi	
Ishlab chiqarish infratuzilmasini rivojlantirishning davlat tomonidan tartibga solish konsepsiysi.....	453
Normurodov Xusan Eshmaxmatovich	
O'zbekiston Respublikasida kichik biznes va xususiy tadbirkorlikning ahamiyati hamda uni rivojlantirish istiqbollari.....	460
Nurullayeva Shaxnoza, Saydullayeva Saodat	
Tijorat banklari inson kapitali samaradorligini baholashda KPI ko'rsatkichlaridan foydalanan mexanizmlari.....	467
Turaeva Mastura Kurbanovna	
Сущность и особенности инвестиционно-строительного процесса	471
А. Бектемиров, Б.М.Абдувалиев	
Tijorat banklarida muammoli kreditlarni boshqarishning dolzarb masalalari.....	478
Saidov Hayotjon Raxmatulloevich	
Tijorat banklarida kredit operatsiyalari hisobini takomillashtirish.....	482
Sa'dullayeva Asalxon Muzaffarovna	
Ko'p tarmoqli fermer xo'jaliklarining raqobatbardoshlikni baholash usullari	485
Abdulloyev Asliddin Junaydullayevich, Teshayev Mirolim Djumayevich	
Tadbirkorlik subyektlarida soliq yukini optimallashtirish mexanizmi	490
To'xsanov Qudratillo Nozimovich	



Davlat sektorida ichki audit tadbirlarini umumiy rejalashtirish	495
Xamidova Z. U.	
Aholi moliyaviy savodxonligini oshirish va uning ahamiyati.....	501
Xudayrova Xurshida Abdunazarovna	
Kambag'allikni qisqartirishning xorijiy mamlakatlar tajribasi.....	505
Xudoiberdiyev Jamshid Juraboy o'g'li	
Oliy ta'lim muassasalarida buxgalteriya hisobi va ichki auditni takomillashtirish.....	511
Shaymatova Nargiza Ashurovna	
Raqamli iqtisodiyot sharoitida sug'urta xizmatlari.....	516
Shodmonova Odina G'ofur qizi	
Fuqarolar davlat pensiya ta'minoti tizimining amaldagi holati tahlili.....	520
Sholdarov Dilshod Azimiddin o'g'li	
Aholiga bank xizmatlari ko'rsatishning ijtimoiy ahamiyati.....	525
Eldor Uskanov	
Innovatsion boshqaruvning ilg'or xorijiy tajribalari	530
Yusupova Jamila Karamatdinovna	
Neft-gaz korxonalari moliyaviy-iqtisodiy faoliyati natijalari tahlili ("O'ZBEKNEFTGAZ" AJ misolida)	534
Umurzoqov Jamoliddin Sherbekovich	
Korxonalarda savdo marketing faoliyati samaradorligini baholash.....	541
Sobirov Azizbek Avzbekovich	
Moliyaviy firibgarliklarga qarshi kurashishda raqamli texnologiyalardan foydalanish imkoniyatlari.....	548
Gadaev Ismat Yadgarovich	
Hududlarda islom iqtisodiyoti tamoyillari asosida amalga oshirilgan investitsion loyiҳalar: to'siqlar va yechimlar	551
Irgasheva Gulbahor Sodiqovna	
O'zbekistonda investitsiyalardan samarali foydalanish asosida oziq-ovqat sanoati samaradorligini oshirish yo'llari	554
Kobilova Nasiba Xurramovna	
Foreign Economic Relations as a Factor of Effective Functioning of the Economy	561
Bakhodurova Sulkiya Azizkhodjaevna, Li Marina Rudolfovna, Mukhtarova Donata Ravshanbekovna, Romashkin Roman Anatolyevich	
Modern Approaches to the Organization and Development of the Consumer Services Market.....	566
Musyeva Shoira Azimovna	
Ishlab chiqarish siklini qisqartirishning iqtisodiy samaradorligi.....	570
Odina Nabiyevna Tuychiyeva, Nazarova Latofat Toirjon qizi	
Asalarichilik mahsulotlari bozorida marketing strategiyasini amalga oshirish.....	575
Rashidova Xadicha Tursunaliyevna	
Iqtisodiyotni modernizatsiyalash sharoitida bank faoliyatini iqtisodiy-matematik modellashtirish yo'llari	581
Raxmanov Mexridin Sindarovich	
Korporativ boshqaruv amaliyoti bo'yicha hisobot tuzish bo'yicha xorijiy tajriba	586
Tashmatov Rustam Xusanovich	
Iqtisodiyotda davlat ishtirokini qisqartirish va xususiy tadbirkorlikni rivojlantirish istiqbollari	592
Yuldashev Xusniddin Abdullayevich	
Iqtisodiyotda turizm o'rnnini statistik baholash uslubiyoti.....	595
Zilola Jumanova	
Финансовые риски в исламском финансировании для внедрения в Республику Узбекистан	602
Абдуллоев Фуркат Олимджонович	
Блокчейн-технология и информационная безопасность в цифровой экономике Узбекистана.....	607
Кадиров Алишер Исмаилович	
Цифровая платформа как инструмент трансформации бизнес-процессов	611
Раупов Жамшид Рашидович	



O'zbekistonda zamonaviy kabel va sim mahsulotlari ishlab chiqaruvchi korxonalar faoliyatiga nazar	617
Rashidova Odina Olimjon qizi	
Cовременные тенденции развития валютных отношений в Узбекистане	622
Камалов Камоладдин Каҳрамонович	
Sug'urta sohasining O'zbekiston iqtisodiyotidagi o'rni	626
Sharobiddinov Akramjon Goyibbayevich	
Kichik biznes va tadbirkorlikni rivojlantirishning xorij tajribasi va undan	
O'zbekistonda foydalanish yo'naliishlari	630
Fayziyeva Aziza Azamat qizi	
Modeling the Stackelberg strategy in a linear model (linear city) Hotteling.....	635
Musayeva Shaira Azimovna, Usmonova Dilfuzा Ilkhomovna	
Mulkning kapitallashuvi darajasini iqtisodiy jihatdan amalga oshirish samaradorligini baholash uslublari.....	644
Norboev Odil Abrayevich	
Tijorat banklarining kredit portfelini amaliy holati va ekonometrik tahlillari: ATB "Aloqabank" misolida.....	649
Norov Akmal Ruzimamatovich, Norova Nozima Nabiyevna	
O'zbekistonda "yashil iqtisodiyot" muhitida kreditlash va moliyalashtirish imkoniyatlari	654
Taxir Urkinbayev	
Budjet tashkilotlarida ichki nazorat tizimini tashkil qilishning xususiyatlari.....	658
Abduraxmanov Ramazon Abdullayevich	
Chinese Commercial Banks Experience in Asset Diversification.....	663
Uktamova Nozima Narzulla kizi	
Sanoat taraqqiyotida ishlab chiqarish korxonalarini ustuvor rivojlantirish istiqbollari.....	667
Yadgarov Akram Akbarovich	
Анализ деятельности коммерческих банков Узбекистана по кредитованию физических лиц.....	673
Базарова Нигора Равшановна	
Mahalliy va xorijiy investitsiyalarni jalb etishning innovatsion jarayonlarga ta'sirini baholash.....	684
Bobobekov Ergash Abdumalikovich	
Raqamli iqtisodiyot sharoitida innovatsiyalarning iqtisodiy samaradorligini oshirish yo'llari	689
Kuziyeva Nargiza Ramazanova, Xusanov Faxriddin Jamoliddin o'g'li	
Tashqi mehnat migratsiyasi.....	694
O. N. Djurayev	
Raqamli iqtisodiyotda sanoat tarmog'ining davlat tomonidan qo'llab-quvvatlanishini baholash	699
Otabayeva Dildora	
Nobank kredit tashkilotlarining moliyaviy xizmatlari sifatini oshirishning xorijiy mamlakatlat tajribasi	705
Raimov Xurshid Muxtorovich	
Tijorat banklarida moliyaviy injiniringni qo'llash istiqbollari	711
Saipnazarov Sherbek Shaylavbekovich	
O'zbekiston Respublikasi moliya bozorida tijorat banklari faoliyati: muammo va yechimlar	716
Toymuxamedov Ibroxim Rixsboevich, Jumaev Islombek Akram o'g'li	
Agrar ta'lif tizimida boshqaruva samaradorligini oshirish yo'llari	723
Boltayev Nurali Shiramatovich, Beglayev Uchqun Kurramovich, Abdiyev Izzat Risqiboyevich	
O'zini o'zi band qilgan shaxslardan olinadigan soliqlarni takomillashtirish orqali	
yashirin iqtisodiyotni jilovlash masalalari.....	731
Davranov Iskandar Jumayevich	
Iqtisodiy konsentratsiyalarni tartibga solish va nazorat qilishni takomillashtirish.....	738
Luqmanov Sharifxon A'zam o'g'li	
Role of Private and Public Kindergartens in Early Childhood Development	744
Makhmudova Munisakhon Abbas qizi	
"Yashil" enegriya quvvatlarini barpo etish iqtisodiy barqarorlikni ta'minlash asosi sifatida	749
Muminova Elnoraxon Abdukarimovna, Umarova Dilnoza Oybek qizi	
Xo'jalik yurituvchi subyektlarda CVP-tahlilni tashkil etishning muammoli jihatlari	754
Qlichev Baxtiyor Pardayevich	



Korxonada likvidlik riskini minimallashtirish orqali uning moliyaviy barqarorligini saqlab qolish Latipova Shaxnoza Maxmudovna	759
Развитие международных торгово-экономических связей Республики Узбекистан Ким Татьяна Валерьевна, Гофуржонова Шахрибону Баҳромжон кизи	766
Kapital qurilishni boshqarish samaradorligini oshirishning dolzarb masalalari A. Bektemirov, M. U. Sarimsoqov	774
O'zbekiston mehnat bozorida yoshlarning ish bilan bandlik darajasini oshirish..... Mambetjanov Qahramon Qurbanburdiyevich, Bahromov Shahzod Fazliddinovich	780
Роль имиджа в улучшении инвестиционной привлекательности высших учебных заведений..... Жанзаков Бекзот, Жонузоков Мирзабек	787
Innovatsion kichik tadbirkorlikni qo'llab-quvvatlash bo'yicha xorij tajribasi va uni mamlakat iqtisodiyotida qo'llash imkoniyati..... Toshaliyeva Saodat Toxirovna, Eshqulova Dilorom Abduravupovna	795
Перспективы развития банковского сектора в Узбекистане для иностранных туристов Муминов Шахзод Низомиддинович, Каримова Азиза Махомадризоевна	802
Innovatsion faoliyat moliyaviy modellari va mexanizmlarini rivojlantishning konseptual asoslari Ruzibayeva Nargiza Xakimovna	806
Qishloq xo'jaligi tarmoqlarini innovatsion rivojlantirish bo'yicha xorijiy tajribalar va ulardan respublikamizda samarali foydalanish yo'llari Ishniyazov Baxrom Normamatovich	814
Turistik xizmatlarining o'ziga xos xususiyatlari va marketing tadqiqotlari..... Berdiqulova Iroda Rayimqulovna	819
Qoraqalpog'iston qishloq xo'jaligi: asosiy muammolar va rivojlanishining ustuvor yo'nalishlari Yeshimbetov Uktamjon Xudaybergenovich	823
Iqtisodiyotning erkinlashtirilishi sharotlarida kichik biznes sektori rivojlanishining imkoniyatlari..... Botirova R. A., Sirojiddinov I. Q.	832
Kriptovalyuta va blokcheyn tadqiqotlari: tendensiyalar va istiqbollar .. Berdiqulov Jurabek	835
Bank risklarni monitoring qilish tizimini takomillashtirish .. Hamroyev Sherzod Axtamovich	837
O'zbekiston hududlariga xorijiy investitsiyalarni jalg qilishda ko'p qavatli "yashil" fermer xo'jaliklarini tashkil etishning ahamiyati .. Turdimuratova Aziza Alisherovna	843
Surxondaryo viloyatining mahalliy budget daromadlarini oshirish yo'llari va uni arima modeli asosida prognozlash..... Abdunazarova Shahnoza Norqo'chqor qizi	846
Qishloq xo'jaligi tarmog'ining mamlakat iqtisodiyotidagi o'rni va undagi tarkibiy o'zgarishlarni statistik baholash..... Zakirova Umida Maxamadaminovna	856
O'zbekiston Respublikasida xizmat ko'rsatish korxonalarining ijtimoiy-iqtisodiy mohiyati .. Pardayev Jamshid Muzaffarovich	863
Turizm bozorini rivojlantirishda mehnat bozorining tutgan o'rni va ahamiyati .. Berdiqulova Iroda Rayimqulovna, Berdikulov Jurabek	872
Проблемы расчета определения и планирования прибыли предприятий в условиях модернизации экономики .. Алиева С.С.	876



TRANSPORT DECARBONIZATION STRATEGY



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Abstract: The article provides an overview of the research of foreign scientists on the issues of decarbonization of transport, competition for alternative fuels and between alternative modes of transport. The paper formulates decarbonization strategies and substantiates the main objectives of approaches to decarbonization of transport. In conclusion, the authors recommend ways to reduce greenhouse gas (GHG) emissions in transport as part of the decarbonization of the economy.

Key words: sustainable development, transport, logistics, transport policy, strategy, ecology, government regulation, decarbonization, carbon footprint, greenhouse gas.

Annotatsiya: Maqolada chet ellik olimlarning transportni karbonsizlantirish, muqobil yoqilg'i uchun raqobat va muqobil transport turlari o'rtasidagi raqobatni tadqiqotlari haqida umumiylumot berilgan. Maqolada dekarbonizatsiya strategiyasi shakllantirilgan va transportni dekarbonizatsiya qilish yondashuvlarining asosiy maqsadlari asoslangan. Xulosa qilib aytganda, mualliflar iqtisodiyotni dekarbonizatsiya qilishning bir qismi sifatida transportda issiqxona gazlari (IG) chiqindilarini kamaytirish usullarini tavsiya qildilar.

Kalit so'zlar: barqaror rivojlanish, transport, logistika, transport siyosati, strategiya, ekologiya, davlat tomonidan tartibga solish, dekarbonizatsiya, uglerod izi, issiqxona gazlari.

Аннотация: В статье сделан обзор исследований зарубежных ученых по вопросам декарбонизации транспорта, конкуренции за альтернативные виды топлива и между альтернативными видами транспорта. В работе сформулированы стратегии декарбонизации, обоснованы основные цели подходов к декарбонизации транспорта. В заключении авторы рекомендуют направления снижения выбросов парниковых газов (ПГ) на транспорте в рамках декарбонизации экономики.

Ключевые слова: устойчивое развитие, транспорт, логистика, транспортная политика, стратегия, экология, государственное регулирование, декарбонизация, углеродный след, парниковые газы.

INTRODUCTION

The concept of sustainable transport has gained wide recognition as a goal and is featured in the environmental plans of many governments and corporations. For example, the European Union has set an ambitious target to reduce net greenhouse gas emissions by 55% by 2030 compared to 1990 levels. However, sustainable transport remains elusive as it does not offer clear guiding principles, but rather a narrative that allows stakeholders to remain vague in their commitments and initiatives. In the 17 Sustainable Development Goals defined by the United Nations, transport was not identified as a separate sustainable development goal, despite accounting for about a quarter of global CO₂ emissions.



Transport decarbonization aims to reduce, mitigate and even eliminate carbon emissions by adapting transport infrastructure, vehicles and operations.

LITERATURE REVIEW

Many studies on the decarbonization of the global transport sector argue that the transport sector is struggling to decarbonize and make its proportionate contribution to achieving the ambitious climate targets set by the Paris Agreement [1]. Analysis by Gota et al. (2019) shows that, in the absence of additional measures, emissions from the transport sector could exceed previous projections and thus pose a major obstacle to preventing dangerous climate change. However, if countries collectively put maximum effort into implementing comprehensive low-carbon measures, the sector could achieve emissions reductions approaching the 1.5 degree scenario. [2]

Naemeka et al (2022) argued that several studies have modeled different pathways for decarbonizing the transport system, but consensus remains unclear due to the heterogeneity of transport technologies, infrastructure, locations and consumers. The study shows that decarbonization of the transport sector poses challenges related to revenue generation, financing transition policies, competition for alternative fuels, displacement of low-income consumers and potential impacts on travel behavior. [3]

Danish scientists Kani et al. (2022) argue in their study that the transport sector accounts for approximately a third of Denmark's greenhouse gas emissions and almost half of the energy sector's emissions. Between 2030 and 2045, significant electrification of road transport and a focus on shifting mobility needs from roads to rail and bicycles will lead to complete decarbonization, as well as the substitution of fossil fuels for electric power in aviation, shipping and heavy-duty road transport. [4]

According to Chaundry et al (2022), decarbonization of heating systems and road transport are seen as necessary but very difficult steps towards zero carbon emissions. They described how a national gas and electricity transmission network model was expanded to represent multiple local energy systems and combined with a national energy demand and road transport model. While using hydrogen for heating and transportation spreads the costs of a hydrogen network across homeowners and motorists, overall it is still considered a more expensive option compared to an all-electric scenario. [5]

Tseiranaki et al (2023) analyzed historical trends in energy consumption in the EU road transport sector and considered the role of key factors such as economic and population growth, fuel prices, passenger volumes and tonne-kilometres, and vehicle fleet characteristics. In light of the EU's energy and climate targets for 2030 and 2050, the document assesses progress in energy efficiency and decarbonization from 2000 to 2018. [6]

RESEARCH METHODOLOGY

The research methodology is based on systematic approaches to studying problems using statistical, heuristic methods and techniques for analyzing world practice in studying the principles of sustainable development of transport systems, as well as a model of transport decarbonization strategy.

RESEARCH RESULTS

Since the early 2000s, sustainable development goals in the transport sector have been revised towards a more tangible strategy focused on carbon consumption and emissions. This has largely shaped around the decarbonization of transport, which helps set the agenda on the role of fossil fuels. This concept does not undermine the purpose of transport, which is to ensure the mobility of passengers and goods, but that the carbon footprint of transport activities must be reduced. Even if it focuses on carbon, decarbonization directly impacts other externalities since most air pollutants are the result of burning fossil fuels. Three emissions areas have been proposed to formulate decarbonization strategies :

- **Scope 1 (Direct Emissions):** Carbon (and other greenhouse gases such as nitrogen oxide) emissions result from manufacturing activities. This applies in particular to vehicle emissions.
- **Scope 2 (Indirect Emissions):** Emissions resulting from the production of fuel and electricity for operations. Even electricity, which may not generate Scope 1 emissions, can generate Scope 2 emissions if it is generated by fossil fuels such as coal and natural gas.
- **Scope 3 (Indirect/Induced Emissions):** Emissions arising from activities upstream and downstream of the organization. These are the most difficult to estimate because they are not under the direct control of the organization producing Scope 1 and 2 emissions. These include emissions arising from management's business travel, employee commuting, waste generation and disposal, goods and ser-



vices purchased by the organization, and transport and distribution services used for procurement and market access.

Energy, which accounted for 74 percent of Uzbekistan's greenhouse gas emissions in 2019, and agriculture, which accounted for 19 percent, are the most important sectors for the decarbonization of the economy. Energy, or the energy system, covers the entire value chain from the extraction of energy resources to their transformation (electricity, hydrogen, etc.) and use by major end users, including buildings, industry, agriculture and transport.^[7]

Table 1 shows the pollutants emitted into the atmosphere in the Republic of Uzbekistan in 2011-2022, which shows that by a large margin the region with the most polluted atmosphere is Tashkent. It is followed by the Kashkadarya region; in other regions, emissions of pollutants are significantly lower.

Transport decarbonization includes a variety of approaches that attempt to influence its economics, infrastructure, regulatory environment or innovative practices that rely on information technology. The main goals are:

- Reduction in overall passenger and freight traffic while mobility needs continue to be met.
- Transition to lower carbon emitting modes of transport. The goal is to meet mobility needs with modes of transport that are based on less carbon-intensive technologies or offer economies of scale (less carbon emissions per unit of passenger or cargo carried).
- Higher utilization of existing transport assets such as roads, terminals and vehicles. This way, the same assets can handle higher levels of mobility demand.
- Increasing the energy efficiency of vehicles and equipment. Each piece of passenger or freight cargo moves with less energy expended.

The push to decarbonize transport is largely focused on electrification, but transport modes such as air and sea will switch to alternative fuels such as LNG and ammonia. Sales of electric vehicles are growing rapidly, and as of 2022 they accounted for 14% of global sales. They accounted for about 5% of all automobile sales in the United States, 7% in China, and about 15% in most European countries (more than 70% in Norway). Electrification represents the temporary transfer of mobility to fundamental attributes such as reduced range (battery charge). This therefore means reduced flexibility and performance. This transition will likely continue until electric vehicles perform similarly to their combustion engine equivalents. Sustainability and decarbonization are part of the same agenda, the only difference being that decarbonization offers a clearer framework and action plan with practical solutions.

The NZE-2060 (Net Zero Emissions) scenario reflects a feasible path for the energy industry to achieve peak emissions by 2030 and decarbonize by 2060 at the lowest cost, while strengthening the country's energy independence. In the NBV 2060 scenario, energy security is enhanced, with net energy imports capped at 8 percent by 2060 as most energy is generated domestically. Domestic renewables will provide 70 percent of the energy supply from domestic sources by 2060, and more than 85 percent when combined with hydrogen and domestic production and generation.^[7]

In order to reduce the negative impact of aviation on the global climate, states, the aviation industry and all other stakeholders through ICAO have been developing a set of measures to reduce CO₂ emissions for many years. These efforts have contributed to modern aircraft being 70% quieter and 80% more fuel efficient than their earlier predecessors. Achieving the global decarbonization needed to curb rising global temperatures now requires radical, disruptive, and in many cases revolutionary innovations in technology and flight operations.^[8]

During 2020–2024, the number of passenger cars owned by private individuals has steadily increased. Thus, from 2020 to 2024, their number increased to 1 348.6 thousand units, or by 55.9% (fig.1).

The structure of passenger transportation by mode of transport shows that the share of road transport slightly decrease since 2019 to 2023 and now it compiles 97.2%. The positive trend is that the share of electric transport increases from 1.4% in 2019 to 2.6% in 2023 (fig.2).

Table or diagram

Table 1: Released to the atmosphere pollutants, thousand tons

Regions	2011	2013	2015	2017	2018	2019	2020	2021	2022
The Republic of Uzbekistan	788.2	855.2	975.1	853.5	883.7	952.8	924.4	908.7	874
Republic of Karakalpakstan	23.5	25.8	32.8	37.7	34.0	37.2	28.9	31.4	21
Andijan	13.6	14.4	18.5	15.8	15.9	14.3	11.5	4.9	17



Bukhara	71.7	50.7	55.6	63.8	74.8	69.1	37.1	44.7	36
Jizzakh	17.3	17.2	70.2	5.2	11.8	4.3	3.4	2.9	27
Kashkadarya	142.5	167.0	176.3	165.7	152.2	140.4	128.1	132.3	116
Navoi	45.2	43.9	47.0	44.1	49.9	43.6	48.4	68.6	42
Namangan	5.6	3.7	7.8	15.9	15.2	15.8	15.0	23.9	7
Samarkand	51.8	49.1	54.7	37.2	52.1	44.2	52.7	39.4	39
Surkhandarya	3.3	3.7	3.1	3.2	5.1	6.9	6.5	7.1	7
Syrdarya	58.7	35.4	66.1	59.6	60.5	47.8	71.8	45.7	49
Tashkent	280.3	372.3	370.6	302.9	336.6	397.9	430.0	425.5	438
Fergana	42.8	40.2	38.9	60.1	53.2	49.6	50.5	46.5	49
Khorezm	4.9	6.2	5.0	9.2	7.1	7.2	6.8	7.2	5
Tashkent	27.0	25.6	28.5	33.1	15.3	74.5	33.7	28.6	21

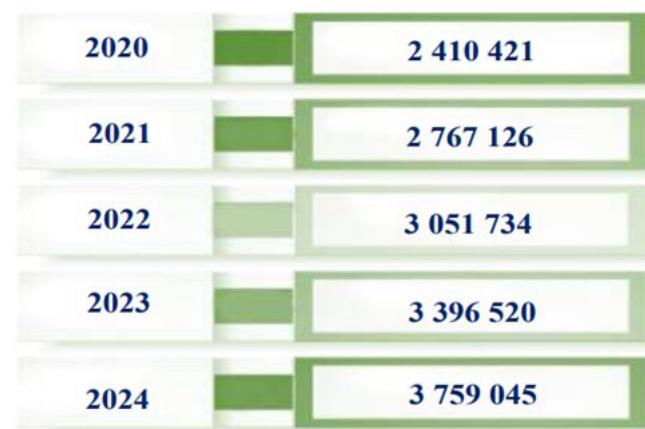


Fig.1: Number of passenger cars owned by individuals in the Republic of Uzbekistan (as of January 1, 2024, units)¹

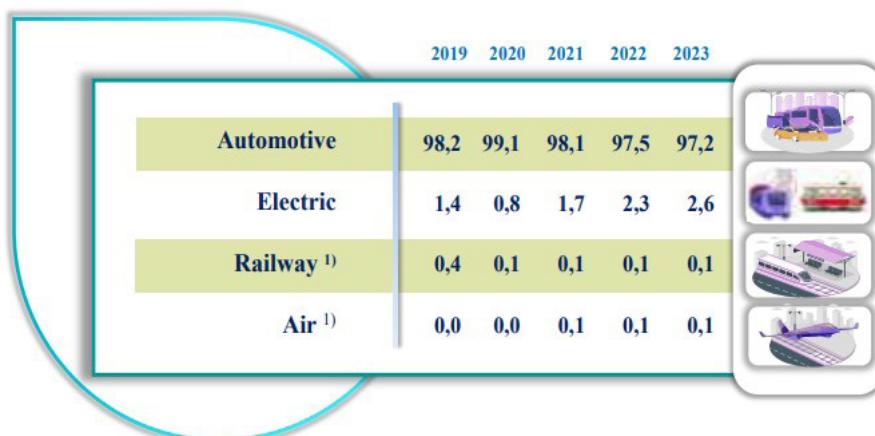


Fig.2: Structure of passenger transportation by mode of transport for January-December (in %)

CONCLUSIONS

As a conclusion, the authors recommend the following directions for reducing greenhouse gas (GHG) emissions in transport within the framework of economic decarbonization:

- 1) Updating the existing fleet of vehicles;
- 2) Transition to cleaner energy sources;

¹ <https://stat.uz/en/quarterly-reports/39036-2023-eng-2#january-december>



- 3) A significant reduction in the movement of people around the city by transport due to smart planning of urban space (mixed zoning), the development of e-commerce;
- 4) Encouraging the urban population to switch from personal cars to public transport by improving the public transport infrastructure and improving the quality of service in public transport, developing a smart public transport system, as well as increasing the cost of using personal vehicles using methods such as increasing the cost of gasoline, parking, and road taxes and other measures.

Thus, the creation of specific measures and the development of a roadmap for the implementation of the above measures will contribute to a real reduction in the level of air pollution from transport.

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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.

