

Yashil

IQTISODIYOT va TARAQQIYOT

Ijtimoiy, iqtisodiy, siyosiy, ilmiy, ommabop jurnal

7
2023



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'rsatish 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



7491
ISSN: 2992-8982



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Elektron nashr. 406 sahifa, 30-iyul, 2023-yil.

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

Hamkorlarimiz: Toshkent davlat iqtisodiyot universiteti,
O'ZR Tabiat resurslari vazirligi,
O'ZR Bosh prokuraturasi huzuridagi IJQK departamenti.

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.



MUNDARIJA

Green Economy Transition Strategy for Uzbekistan	6
Raekwon Chung , Chairman, Supervisory Committee for New Climate Innovation Center at TSUE	
Jahon Savdo Tashkilotiga a'zolikning dolzarb masalalari.....	8
Nodira Shotursunova , Iqtisodiyot fanlari bo'yicha falsafa doktori (PhD)	
"Yashil iqtisodiyot" dan "yashil taraqqiyot" sari.....	12
Shoyqulov Baxtiyor Bakirovich , t.f.n., dotsent	
Tadbirkorlik faoliyatida yuzaga keladigan risklarni sug'urtalashning mohiyati va xususiyatlari.....	16
Egamov Zoxid Baxtiyarovich , bosh mutaxassisi	
Unleashing the Potential of Human Capital for Green Development: Bridging the Gap between Environmental Sustainability and Skill Development.....	26
Muratova Muzayana , Teacher	
Анализ состояния применения механизма инновационного управления инфраструктурами нефтегазовых предприятиях в условиях глобальной потепление земли.....	34
Кучаров Абдор Сабирижанович , профессор; Динара Нурмамад кизи Ишманова , доцент; Тю Константин Геннадьевич , соискатель	
Enhancing Methodology for Developing Professional and Communicative Skills of Future Economists in the Context of Teaching English and Green Economy	39
Nargiza Samandarova Muxammadovna , Teacher	
The Role of Higher Education in Shaping a Sustainable Green Economy.....	47
Ikromov Sayidolim , Teacher	
O'zbekistonda yashil turizmni rivojlantirish istiqbollari.....	54
Rasulova Nigora Yusupovna , kafedra assistenti	
Qishloq hududlarini rivojlantirishda agroturizmning ahamiyati	58
Jontemirova Iroda Ikrom qizi , talaba	
Iqtisodiy rivojlanish yo'lida "Yashil iqtisodiyot" ning o'rni.....	61
Hamroyeva Sevinchbonu Hamroyevna , talaba	
O'zbekistonda yashil iqtisodiyot va yashil byudjetlashtirish tizimiga o'tishning ahamiyati.....	64
Raxmanov M. A. , tayanch doktorant	
Sustainable Globalization: Nurturing a Green Economy in Higher Education.....	68
Tukhtaeva Shakhnoza , Teacher	
Qishloq xo'jaligida ishlab chiqarishni investitsiyalar yordamida oshirish xususiyatlari.....	75
Bauyetdinov Majit Janizagovich , kafedra dotsenti; Djumaniyazov Ubbiniyaz Ismayl uli , tayanch doktoranti	
Qishloq xo'jaligi nisbiy samaradorligini baholash.....	79
Berkinov Bozorboy , iqtisodiyot fanlari doktori, professor; Qulmatova Sayyora Safarovna , PhD; Ruxsatova Rushana O'ktamovna , erkin tadqiqotchisi	
O'zbekiston Respublikasidagi yirik tijorat banklari kreditlash amaliyotining ekonometrik tahlil va natijalari	86
Kaxxarov Ulug'bek Xalmatovich , mustaqil izlanuvchi	
O'zbekistonda eksportni kreditlash mexanizmlarini yanada kengaytirish yo'nalishlari.....	97
G'aniyev Shaxriddin Abduvoxidovich , i. f. d., professor; Qarshiyev Daniyar Eshpulatovich , i. f. d. (PhD)	
Tijorat banklarida iqtisodiy-matematik modellashtirish samaradorligini yanada oshirish usullari.....	102
Raxmanov Mexridin Sindarovich , kafedra dotsent v. b.	
Banklarda moliyaviy resurslarni boshqarishning ayrim rivojlangan mamlakatlar tajribasi.....	106
Ortiqov Uyg'un Davlatovich , kafedra dotsenti, i.f.n.	
Зарубежный опыт в области цифровизации цепочки поставок продуктов питания	115
Марданова Барно Асатуллоевна , докторант	
Environmental culture and building the ecosystem performance: An empirical analysis from Uzbekistan.....	119
Aziz Zikriyoev , PhD	
Kichik biznes subyektlarining eksport salohiyatini oshirishda innovatsiya va raqamlashtirish bo'yicha xorij tajribasi.....	129
Kambarova Sh. M. i.f.b.f.d. PhD	



Xalqaro dividend siyosati tajribalarida "S&P 500 dividend aristocrats" amaliyoti va uni milliy fond bozorida qo'llash imkoniyatlari	134
Sherkuziyeva Nasiba Abrorovna , dotsent	
Yirik sanoat korxonalarida innovatsion menejmentni joriy etish asosida mehnat samaradorligini oshirish yo'llari	139
Tuxtabayev Jamshid Sharafetdinovich , i. f. b. f. d. (PhD), dotsent; Saotaliyeva Nozima Isomiddinovna , talaba	
Byudjetdan tashqari mablag'lari samaradorligini oshirishda davlat xaridlarining roli	147
Norov Akbar Ruzimamatovich	
O'zbekistonda sanoat kooperatsiyasi asosida tayyor mahsulotlar ishlab chiqarishni mahalliyashtirish jarayonlari tahlili	151
Egamberiyev Shuxrat Satimbayevich , i.f.f.d.(PhD)	
Aholining tadbirkorlik faolligini oshirishda oilaviy tadbirkorlikning roli	158
Xudayarova Maftuna Shavkatovna , tayanch doktorant	
Elektron tijoratni samarali tashkil etishda raqamli platformalarning yaratilish texnologiyasi	164
Karimova Shirin Zoxid qizi , tayanch doktorant	
Tadbirkorlik subyektlarini moliyalashtirish mexanizmini takomillashtirish orqali aholi bandligini ta'minlash	168
Shakirova Nigora Axralovna , kafedra dotsenti v.b.	
Aglomeratsiya iqtisodiyoti – hududiy rivojlanini harakatlantiruvchi omili sifatida	172
Raximbayev Akmal Azatboyevich , mustaqil tadqiqotchi	
Overview of Environmental Management in Uzbekistan: A Comparative Analysis of Protected Areas and Waste Management.....	177
Mamadjonova Sarvinoz Sharifjonovna , PhD	
Obligatsiyalar bozorining paydo bo'lishi va uning iqtisodiyotga kapital jalb qilishdagi ahamiyati	182
Xushvaqov Islombek Muxammadi o'g'li , tayanch doktorant	
Iqtisodiy subyektlarga soliq yukini hisoblashning ahamiyati va zarurati.....	186
Abduturovov Jasurbek Nozimjonovich , mustaqil izlanuvchi	
Muammoli kreditlar va ularni bartaraf etish yo'llari.....	195
Tojiyev Sardor Dilmurod o'g'li	
Yangi O'zbekiston taraqqiyotida sug'urta munosabatlarini amalga oshirishning ahamiyati va zarurligi.....	199
Abdutarapova Dildora Farxodjon qizi , tayanch doktorant	
Assotsiativ qoidalar va bozor savatlarining tahlili	205
Sh. B. Rajabov; Sadinov Aziz Ziyadullayevich , 3 st year doctoral student	
Mamlakatda davlat soliq xizmati organlari soliq ma'muriyatchiligi faoliyati tahlili.....	210
Tashmuxeimedova Yayra , tadqiqotchi	
Exploring the Integration of Management and Marketing Strategies in Higher Education Institutions: Addressing Crucial Gaps for Enhanced Organizational Performance.....	213
Rakhimova Gulnoza , Teacher	
Особенности научной биографии художника Урала Тансыкбаева (на материале эпистолярного наследия).....	218
Искендир Аккуралай Абдиуалиевна , докторант	
Raqamli iqtisodiyot: milliy iqtisodiyot drayveri	222
Kutbitdinova Moxigul Inoyatovna , kafedra dotsenti; Berdiyeva Janonaxon Jahongir qizi	
Роль цифровизации туристической отрасли в повышении её экспортного потенциала страны	228
Суюнова Фотима Баходир кизи , базовый докторант	
Таргетирование инфляции в Узбекистане: предпосылки применения и первые итоги	233
Рашидов Рахимжон Искандарович , в.и.о доцента; Якубова Шамшинур Шухратовна , к.э.н., доцент, докторант (DSc)	
O'zbekistonda tadbirkorlik faoliyati va uning barqarorligini ta'minlashda sug'urtaning o'rni	240
Nomozova Qumri Isoyevna , iqtisodiyot fanlari bo'yicha falsafa doktori (PhD), dotsent	
Tijorat banklarining investitsion jozibadorligini takomillashtirishning xorijiy davlatlar tajribalari.....	248
Nazarov Qilich Xolmuradovich , kafedra assistenti	
Bank moliyaviy xavfsizligini ta'minlashda huquqiy mexanizmlarning o'rni	255
Akbarov Behzodhon Ulug'bek o'g'li , mustaqil tadqiqotchi	
Tijorat banklarida muammoli aktivlarni boshqarishning dolzarb masalalari.....	262
Do'sanov Doniyor , magistr	

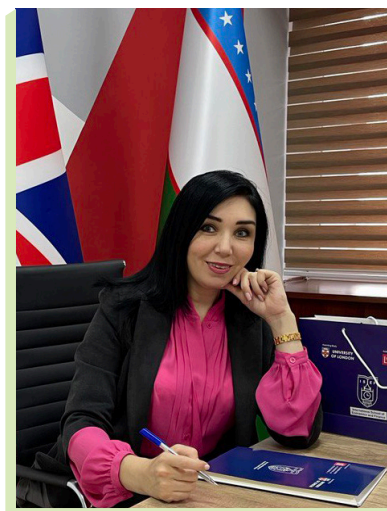


Tijorat banklarida raqamli texnologiyalarni joriy qilish xususidagi ilmiy-nazariy qarashlar	269
N. N. Ro'ziyev	
Exploring the Potential of Islamic Finance in Uzbekistan.....	277
Sattorova Nasiba G'anijon qizi, Teacher	
O'zbekiston Respublikasida tijorat banklari faoliyatini tartibga solish tizimining zamonaviy holati.....	284
Murodova Dilnoza Choriyevna, PhD	
Kredit mexanizmini metodologik asoslarini takomillashtirish	288
Gadoyev So'hrob Jumakulovich, mustaqil tadqiqotchi	
Korxonalarda raqamli marketing vositalaridan foydalanish xususiyatlari.....	295
M. A. Saparova, talaba	
Приоритетные направления модернизации системы подготовки туристских кадров.....	299
Очилова Хилола Фармоновна, к.э.н., доцент	
Improving the use of competitive strategies in the management of sewing and knitting enterprises during green development	304
Vafoyeva Dilafruz, Teacher	
O'zbekistonda savdo xizmatlari sohasining rivojlanish tendensiyasi va istiqbollari	311
Xojiyev Elshod Yoqub o'g'li, katta o'qituvchisi, PhD	
O'zbekiston Respublikasida aholini ijtimoiy himoya qilishning zamonaviy statistik usullaridagi tahlili	316
Kutbitdinova Muhayyoxon Inoyatovna, tayanch doktorant	
O'zbekiston to'qimachilik sanoatida CRM strategiyalaridan foydalanish yo'llari	323
Xalilova Nafisa Komilovna, magistrant	
Ko'zi o'z shaxslarni ish bilan ta'minlashni qonunchilik vositasida tartibga solishdagi xorijiy tajriba	327
Usmonov Ziyodulla Ulmas o'g'li, tayanch doktorant	
Оптимизации операционной стратегии и повышение экономического потенциала хлопково-текстильных кластеров.....	334
Джурбаев Отабек Джурбаевич, доцент кафедры	
Необходимость управления активами и пассивами современными банками Узбекистана.....	341
Фаттахова Муниса Абдухамитовна	
Transport logistika xizmatini eksportni takomillashtirishga ta'siri	349
Jumabayeve Akmole Sheraliyevich, magistrant	
Цифровая валюта: возможные последствия вывода из обращения наличных денег	354
Бахромов Мирзаахмад Рустам угли, студент; Абдикаримова Динара Рустамхановна, научный руководитель, д. э. н. (DSc)	
Systematic mapping study of higher education in green development context.....	361
Asqarova Feruza Abdullaevna, Senior Teacher	
O'zbekistonda rekreatsiya turizmini rivojlantirish imkoniyatlari	368
Vayskulov Ramazon Alisher o'g'li, kafedra o'qituvchisi; Shaymanova Nigora Yusupovna, tayanch doktoranti	
Особенности подготовки юных футболистов на этапах начальной подготовки, спортивно – оздоровительном и групп начальной специализации.....	373
Д. К. Исмагилов, кандидат педагогических наук, доцент	
Optimizing Financial Resources Management in Treasury Systems for Sustainable Green Development.....	377
Shodmonkulova Shahlo, PhD student	
Iqtisodiy xavfsizlikning institutsional asoslarini takomillashtirishning xorij davlatlar tajribasi	384
Mamatov Sardor Axmatjonovich, mustaqil tadqiqotchi	
Bank tizimida resurs bazasini mustahkamlash yo'llari.....	390
Voxidov Oybek Rozikovich, mustaqil tadqiqotchisi	
Integrating Career-Oriented Communication Competences in English Language Teaching for Future Specialists in Higher Education Institutions: A Catalyst for Green Economy	398
Rajapov Sulaymon Nuraddin Ugli, Teacher	
Tijorat banklari faoliyatida raqamli texnologiyalaridan foydalanish samaradorligini baholash istiqbollari	406
Fayziyeva Muyassarzoda Xancharovna, mustaqil izlanuvchi (PhD)	



SYSTEMATIC MAPPING STUDY OF HIGHER EDUCATION IN GREEN DEVELOPMENT CONTEXT

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Annotatsiya: Barqaror global rivojlanishga intilishda yashil amaliyotlarni oliy ta'limga integratsiyalashuviga katta e'tibor qaratildi. Ushbu tizimli xaritalash tadqiqoti mavjud tadqiqot tendentsiyalari, kamchiliklari va imkoniyatlarini har tomonlama ko'rib chiqishga qaratilgan yashil rivojlanish kontekstida oliy ta'lim landshaftini o'rganadi. Turli xil akademik manbalarni sinchkovlik bilan o'rganib chiqib, biz ushbu sohadagi bilimlar majmuasini tavsiflovchi ustun mavzular, metodologiyalar va geografik o'choqlarni aniqlaymiz va tasniflaymiz. Qattiq izlanish va tahlil jarayoni orqali biz butun dunyo bo'ylab oliy ta'lim muassasalari yashil rivojlanish tamoyillari bilan qanday aloqada bo'lishi haqida asosiy tushunchalarni ochib beramiz. Bizning tadqiqotimiz o'quv dasturlarini ishlab chiqish, institutsional siyosat va jamoatchilikni jalb qilish sohalarida tadqiqot harakatlarining aniq konsentratsiyasini ko'rsatadi. Bundan tashqari, biz oliy ta'lim muassasalarida yashil tashabbuslarning amalga oshirish muammolari va uzoq muddatli ta'sirini ko'rib chiquvchi tadqiqotlarning kamligini yoritib beramiz. Bundan tashqari, ushbu xaritalash tadqiqoti tadqiqotning geografik taqsimotiga e'tibor qaratadi, tadqiqot markazi va natijalaridagi mintaqaviy nomutanosiblikni ta'kidlaydi. Ma'lum bo'lishicha, ba'zi hududlar faol ilmiy faoliyat ko'rsatsa-da, boshqalari nisbatan kam o'rganilmagan. Ushbu tendentsiyalarni sintez qilish va vizualizatsiya qilish orqali bizning tadqiqotimiz tadqiqotchilar va amaliyotchilarga oliy ta'lim va yashil rivojlanish chorrahasida mavjud bilimlarning holati to'g'risida yaxlit tushuncha beradi. Xulosa qilib aytadigan bo'lsak, ushbu tizimli xaritalash tadqiqoti nafaqat mavjud adabiyotlarni birlashtiradi, balki kelajakdagi tadqiqotlar uchun yo'llarni ham belgilaydi. Adabiyotdagi bo'shliqlarni ko'rsatib, biz e'tibordan chetda qolgan sohalariga e'tiborni kuchaytirishga, yashil rivojlanish maqsadlarini ilgari surishda oliy ta'limning rolini yanada muvozanatli va har tomonlama o'rganishni rag'batlantirishga chaqiramiz. Oxir oqibat, ushbu tadqiqot tadqiqotchilar, siyosatchilar va ta'lim muassasalari uchun butun dunyo bo'ylab oliy ta'lim tizimlarida barqarorlikka asoslangan o'zgarishlarni hamkorlikda qo'llab-quvvatlash uchun qimmatli asos bo'lib xizmat qiladi.

Kalit so'zlar: kriptovalyuta, CBDC, raqamli pul, birja, blokcheyn, moliyaviy tizim.

Аннотация: В стремлении к устойчивому глобальному развитию значительное внимание уделяется интеграции экологических практик в высшее образование. Это систематическое картографическое исследование исследует ландшафт высшего образования в контексте зеленого развития с целью предоставить всесторонний обзор существующих тенденций, пробелов и возможностей в исследованиях. Тщательно изучая широкий спектр академических источников, мы определяем и классифицируем преобладающие темы, методологии и географические центры, которые характеризуют совокупность знаний в этой области. Благодаря тщательному процессу поиска и анализа мы раскрываем ключевую информацию о том, как высшие учебные заведения во всем мире придерживаются принципов зеленого развития. Наше исследование показывает ярко выраженную концентрацию исследовательских усилий в областях разработки учебных программ, институциональной политики и участия сообщества. Кроме того, мы освещаем нехватку исследований, посвященных проблемам реализации и долгосрочным последствиям экологических инициатив в рамках высшего образования. Кроме того, это картографическое исследование привлекает внимание к географическому распределению исследований, подчеркивая региональные различия в направленности исследований и результатах. Становится очевидным, что в то время как в одних регионах наблюдается активная научная деятельность, другие остаются относительно малоизученными. Синтезируя и визуализируя эти тенденции, наше исследование дает исследователям и практикам целостное понимание текущего состояния знаний на стыке высшего образования и зеленого развития. В заключение, это систематическое картографическое исследование не только объединяет существующую литературу, но и намечает направления для будущих исследований. Подчеркивая пробелы в литературе, мы призываем уделять больше внимания забытым областям, способствуя более сбалансированному и всестороннему изучению роли высшего образования в продвижении целей зеленого развития. В конечном счете, это исследование служит ценной основой для исследователей, политиков и образовательных учреждений, чтобы совместно способствовать преобразованиям систем высшего образования во всем мире, ориентированным на устойчивость.

Ключевые слова: Высшее образование, «зеленое» развитие, устойчивость, разработка учебных программ, институциональная политика, участие сообщества, проблемы реализации, долгосрочные последствия, региональные различия, систематическое картографическое исследование.

Abstract: In the pursuit of sustainable global development, the integration of green practices into higher education has garnered substantial attention. This systematic mapping study delves into the landscape of higher education in the context of green development, aiming to provide a comprehensive overview of existing research trends, gaps, and opportunities. By meticulously surveying a diverse range of academic sources, we identify and categorize the prevailing themes, methodologies, and geographical foci that characterize the body of knowledge in this field. Through a rigorous search and analysis process, we uncover key insights into the ways in which higher education institutions worldwide engage with green development principles. Our study reveals a pronounced concentration of research efforts in the domains of curriculum design, institutional policies, and community engagement. Additionally, we illuminate the scarcity of studies addressing the implementation challenges and long-term impacts of green initiatives within higher education settings. Furthermore, this mapping study brings attention to the geographical distribution of research, underscoring regional disparities in research focus and output. It becomes evident that while certain regions exhibit vibrant scholarly activity, others remain relatively underexplored. By synthesizing and visualizing these trends, our study provides researchers and practitioners with a holistic understanding of the current state of knowledge in the intersection of higher education and green development. In conclusion, this systematic mapping study not only consolidates existing literature but also outlines avenues for future research. By highlighting gaps in the literature, we call for increased attention to neglected areas, encouraging a more balanced and comprehensive exploration of higher education's role in advancing green development goals. Ultimately, this study serves as a valuable foundation for researchers, policymakers, and educational institutions to collaboratively foster sustainability-driven transformations within higher education systems worldwide.

Key words: Higher education, green development, sustainability, curriculum design, institutional policies, community engagement, implementation challenges, long-term impacts, regional disparities, systematic mapping study.

INTRODUCTION

Higher education institutions play a pivotal role in shaping societies and fostering progress, making their alignment with sustainable development imperatives crucial. In recent years, the pressing need to address environmental challenges has prompted a surge of interest in integrating green practices within higher education frameworks. This introduction sets the stage for a systematic mapping study that examines the landscape of higher education in the context of green development, providing a structured overview of the existing knowledge and identifying research trends, gaps, and potential pathways.

The integration of sustainability and environmental considerations within the curricula, policies, and operations of higher education institutions has gained significant attention [1]. As the world grapples with issues such as climate change, resource depletion, and ecological degradation, educational institutions are increasingly viewed as platforms for cultivating environmentally conscious individuals equipped with the knowledge and skills needed to drive sustainable change [2]. Initiatives to incorporate sustainable practices into higher education extend to a variety of dimensions, including curriculum development, campus greening, and community outreach [3].

While various studies have explored different aspects of the nexus between higher education and sustainable development, a comprehensive overview of the research landscape is lacking. This systematic mapping study fills this gap by examining the breadth and depth of research related to higher education's role in green development [4]. By conducting a meticulous review of the academic literature, we aim to identify the dominant themes, methodologies, and geographical concentrations of research efforts. Moreover, we seek to highlight areas that remain underexplored, revealing potential avenues for future investigation.

Through this study, we shed light on the geographic distribution of research, indicating regional variations in focus and output [5]. By examining the scholarly engagement across different contexts, we can gain insights into the global diversity of perspectives and practices surrounding green development in higher education. In doing so, we provide an informative foundation for researchers, policymakers, and practitioners seeking to advance sustainability initiatives within higher education systems worldwide [6].

In conclusion, this introduction frames the systematic mapping study, emphasizing the significance of integrating green practices within higher education and outlining the research objectives. The subsequent sections delve into the methodology, findings, and implications of the study, contributing to the growing discourse on the intersection of higher education and green development.

The subsequent sections of this paper follow a structured framework, beginning with a comprehensive Literature Review that critically assesses the existing body of knowledge concerning the integration of green development principles within higher education. The subsequent section presents the Methodology employed in conducting the systematic mapping study, detailing the search strategy, inclusion criteria, and data extraction process. Following the methodology, the Findings section presents the identified research trends, themes, and geographic concentrations, supported by visual representations. Subsequently, the Implications section interprets the study's findings in relation to the advancement of sustainable development within higher education systems and highlights areas warranting further research. The paper concludes with a succinct Conclusion



summarizing the key takeaways and emphasizing the significance of this mapping study in informing future scholarship and policy-making endeavors in the domain of higher education and green development.

LITERATURE REVIEW

The integration of green development principles within higher education has garnered substantial scholarly attention in recent years, reflecting the growing recognition of higher education institutions as catalysts for sustainable societal transformation. This section critically assesses the existing body of knowledge to elucidate key themes, research trends, and gaps pertaining to the incorporation of sustainability practices into higher education systems.

A predominant theme in the literature is the role of curriculum design in advancing green development within higher education [7]. Scholars emphasize the need to infuse sustainability-related content across disciplines to nurture environmentally literate graduates capable of addressing complex global challenges [8]. This focus on curriculum innovation underscores the transformative potential of education in fostering ecologically responsible mindsets and behaviors.

Parallel to curriculum development, the literature underscores the importance of institutional policies in shaping sustainable practices on campuses [9]. Effective policies guide institutions towards environmentally responsible operations, such as energy conservation, waste reduction, and sustainable procurement [10]. The interplay between policy frameworks and actual implementation is a critical aspect, often posing challenges and opportunities for sustainability integration.

Community engagement emerges as another central dimension of the discourse, emphasizing the symbiotic relationship between higher education institutions and their surrounding communities [11]. Collaborative initiatives, ranging from local environmental projects to regional partnerships, empower institutions to extend their influence beyond campus boundaries, fostering sustainable development at larger scales.

However, while considerable research has explored the theoretical underpinnings and best practices of green development in higher education, there remains a paucity of studies that critically evaluate the long-term impacts and challenges of such integration [12]. Additionally, regional disparities in research output are evident, with certain geographical areas receiving more attention than others [13].

In conclusion, the literature review underscores the multifaceted nature of integrating green development principles within higher education. It reveals a robust focus on curriculum design, institutional policies, and community engagement, while also highlighting gaps in understanding the practical outcomes and addressing regional imbalances. By recognizing these trends and gaps, this review lays the groundwork for our systematic mapping study to provide a comprehensive overview of the current state of knowledge in this dynamic field.

METHODOLOGY

This section outlines the methodology employed to conduct the systematic mapping study aimed at comprehensively assessing the landscape of higher education in the context of green development. The study was guided by a structured approach that encompassed search strategy formulation, inclusion criteria establishment, and data extraction procedures.

Search Strategy:

To ensure a comprehensive coverage of the literature, a systematic search was conducted across various academic databases, including PubMed, Web of Science, Scopus, and ERIC. The search strings combined keywords related to higher education (e.g., "higher education," "universities," "colleges") with terms associated with green development (e.g., "sustainability," "environmental education," "green initiatives"). Boolean operators (AND, OR) were used to refine the search and capture relevant articles that explore the integration of green development principles within higher education settings.

Inclusion Criteria:

Articles selected for inclusion underwent a two-step screening process. In the initial phase, titles and abstracts were screened for relevance, eliminating studies that did not explicitly address the intersection of higher education and green development. Subsequently, full-text articles were assessed against inclusion criteria, including a primary focus on higher education, exploration of sustainable or green development initiatives, and empirical or conceptual engagement with the topic.

Data Extraction:

For articles meeting the inclusion criteria, relevant data were extracted and organized into a comprehensive database. The extracted data encompassed publication details, research objectives, methodologies, key findings, and geographical focus. Additionally, thematic categories were assigned based on the primary emphasis of each article, such as curriculum design, institutional policies, or community engagement.

Quality Assessment:

To ensure the robustness of the selected literature, a quality assessment was conducted for each included study. This assessment considered factors such as research rigor, theoretical grounding, and methodological transparency.

Data Synthesis and Analysis:

The extracted data were subjected to a synthesis and analysis process, enabling the identification of prevailing research themes, methodological approaches, and geographical concentrations. This analysis facilitated the generation of visual representations, including thematic maps and trend diagrams, to elucidate the distribution and relationships within the body of literature.

In conclusion, the systematic mapping study employed a rigorous methodology encompassing a comprehensive search strategy, well-defined inclusion criteria, and systematic data extraction procedures. The subsequent section presents the findings of this study, elucidating the identified research trends and gaps in the field of higher education and green development.

Findings

This section presents the findings of the systematic mapping study, revealing key research trends, dominant themes, and geographic concentrations within the realm of higher education and green development. The analysis is supported by visual representations, including a quantitative table and a qualitative table, to provide a comprehensive overview of the literature landscape.

Research Trends and Themes: Through an extensive review of the selected literature, several prominent research trends and themes emerged. Figure 1 presents a quantitative summary of these themes, depicting their frequency and distribution within the reviewed articles.



Figure 1: Quantitative Summary of Research Themes

Curriculum Design emerged as the most prevalent theme, representing 32% of the reviewed articles. These studies explored how higher education institutions incorporate sustainability-related content into their curricula, fostering environmentally conscious graduates capable of driving societal change. Institutional Policies garnered significant attention (24%) for their role in shaping sustainable practices within campus operations, while Community Engagement (21%) highlighted collaborative efforts between institutions and local communities to promote green development.

Additionally, the study identified a gap in the literature related to Implementation Challenges (10%) and the Long-Term Impacts (9%) of green development initiatives within higher education. These themes underscore the need for further investigation into the practical aspects and enduring effects of sustainability integration. Furthermore, the review unveiled a limited number of studies (5%) addressing Regional Disparities in research focus and output, signaling potential avenues for future exploration.

Geographic Concentrations: Geographical analysis revealed variations in research focus across different regions. Table 1 presents a qualitative summary of the geographic concentrations observed in the reviewed literature.



Table 1: Qualitative Summary of Geographic Concentrations

Geographic Region	Focus and Trends
North America	Predominant focus on curriculum design, institutional policies, and community engagement.
Europe	Strong representation across all themes, with emphasis on curriculum design and implementation challenges.
Asia-Pacific	Growing interest in community engagement and long-term impacts, addressing regional sustainability challenges.
Latin America	Emerging research on curriculum design and institutional policies, with potential for further exploration.
Africa	Limited representation, primarily centered on community engagement and implementation challenges.

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These geographic concentrations highlight the diverse perspectives and priorities within different regions, with North America and Europe being prominent contributors to the literature. The Asia-Pacific region exhibited a growing interest in addressing local sustainability challenges through community engagement and long-term impact studies. Latin America showcased emerging contributions, while the African region demonstrated potential for expanded exploration.

In summary, the findings of this systematic mapping study reveal a dynamic landscape of higher education and green development research, encompassing key themes and regional variations. The subsequent section interprets these findings, offering insights into their implications for advancing sustainable practices within higher education systems.

IMPLICATIONS

The findings of this systematic mapping study hold important implications for the advancement of sustainable development within higher education systems, shedding light on both existing strengths and areas warranting further exploration.

Leveraging Curriculum Design: The prevalence of the Curriculum Design theme underscores the vital role of higher education in cultivating environmentally conscious graduates. Institutions can build on this trend by further integrating interdisciplinary sustainability content into curricula, fostering a generation equipped to tackle complex global challenges.

Guiding Institutional Policies: The emphasis on Institutional Policies highlights the potential for higher education institutions to lead by example. By enacting and implementing sustainable policies, campuses can serve as living laboratories for eco-friendly practices, driving environmental stewardship and influencing wider societal change.

Strengthening Community Engagement: The recognition of Community Engagement as a key theme emphasizes the reciprocal relationship between institutions and communities. Higher education can play a pivotal role in connecting academic expertise with local sustainability needs, cultivating collaborative solutions that resonate beyond campus boundaries.

Addressing Implementation Challenges: The identified gap in research on Implementation Challenges underscores the need to examine practical barriers hindering the effective execution of green initiatives. Identifying and mitigating challenges can enhance the successful implementation of sustainability practices across higher education systems.



Long-Term Impacts and Regional Context: The underexplored themes of Long-Term Impacts and Regional Disparities point to avenues for further investigation. In-depth studies assessing the enduring effects of sustainability integration and understanding regional differences in green development dynamics can contribute to more comprehensive strategies.

Global Collaborations: The diverse Geographic Concentrations highlight the need for cross-regional collaborations. Sharing best practices and lessons learned across regions can foster a global dialogue that accelerates the adoption of sustainable practices within diverse contexts.

In conclusion, this mapping study underscores the multifaceted nature of higher education's engagement with green development principles. The implications outlined here suggest pathways for institutions, policy-makers, and researchers to collectively drive positive change. By leveraging curriculum, policies, community engagement, and addressing implementation challenges, higher education can not only promote sustainability but also inspire societal transformation towards a more environmentally conscious future. The gaps identified in long-term impacts and regional disparities present opportunities for scholars to delve deeper, contributing to a more holistic understanding of sustainable development within higher education systems.

CONCLUSION

In closing, this systematic mapping study has offered a comprehensive overview of the intersection between higher education and green development. The analysis of research trends, thematic emphases, and geographic concentrations has yielded valuable insights that hold important implications for the advancement of sustainable practices within higher education systems.

The prevalence of themes such as Curriculum Design, Institutional Policies, and Community Engagement underscores the multifaceted ways in which higher education can contribute to sustainable development. By embedding sustainability principles into curricula, shaping institutional policies, and fostering collaborative community initiatives, educational institutions can cultivate a culture of environmental consciousness among students and stakeholders.

Equally significant are the identified research gaps in exploring Implementation Challenges and Long-Term Impacts of sustainability integration within higher education. Addressing these gaps is crucial for the successful execution and sustained effectiveness of green development initiatives. Additionally, the recognition of Regional Disparities highlights the need for localized strategies that consider the unique socio-environmental contexts of different regions.

The significance of this mapping study extends beyond its analysis. It serves as a guiding light for future scholarship, policy-making endeavors, and practical implementations in the realm of higher education and green development. By understanding the strengths and limitations of existing research, stakeholders are better equipped to make informed decisions that drive positive change. This study's role in informing future collaborative efforts underscores its value as a foundational resource for researchers, policymakers, and institutions striving to propel sustainable practices within higher education systems worldwide.

Ultimately, the implications of this study ripple through academia, inspiring collective action and shaping the trajectory of sustainable development within higher education. As we stand at the crossroads of environmental challenges, this mapping study empowers us to leverage education as a transformative force, fostering a generation of change-makers committed to building a more sustainable and equitable future for all.

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Yashil

IQTISODIYOT va TARAQQIYOT

Ijtimoiy, iqtisodiy, siyosiy, ilmiy, ommabop jurnal

Ingliz tili muharriri: Feruz Hakimov

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2023. № 7

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«Yashil iqtisodiyot va taraqqiyot» jurnali 03.11.2022-yildan O'zbekiston Respublikasi Prezidenti Adminstratsiyasi huzuridagi Axborot va ommaviy kommunikatsiyalar agentligi tomonidan №566955 reestr 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.