Law Enforcement Role in the Management of Sustainable Natural Resources

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Abstract

This study aims to analyze the role of law enforcement in sustainable natural resource management. By examining the linkages between regulations, legal compliance, and their impact on the environment, this study strives to identify factors that influence the effectiveness of law enforcement and provide urgent recommendations to improve natural resource management practices. The study discusses the challenges, including limited resources and institutional capacity, legal complexity and inconsistency, the importance of support from local communities, and international cooperation in law enforcement. This research, conducted using the literature study method, gathers data and information from various academic sources such as journal articles, books, research reports, and relevant policy documents. The results of the literature research show that law enforcement plays a key role in ensuring the sustainability of natural resource management but is faced with various challenges, such as capacity limitations, corruption, and legal complexity. Community participation proves important in streamlining law enforcement, as policies involving local stakeholders are more likely to be accepted and followed. Better international cooperation and regulatory harmonization are urgently needed to address weaknesses in transnational law enforcement. There is a pressing need to implement a more integrated approach to law enforcement, which includes public education, institutional capacity building, and increased transparency and accountability in law implementation.

Keywords: Role, Law enforcement, Management, Sustainable Natural Resources.

Introduction

In the era of globalization and rapid industrial growth, sustainable management of natural resources has become one of the major challenges for the world. Natural resources, including water, air, minerals, forests, and biodiversity, are essential assets for the survival of humans and the earth's ecosystems. However, overexploitation and irresponsible management have led to environmental degradation, biodiversity loss, climate change, and many other negative impacts on our planet and future life.

Sustainable natural resource management aims to meet current needs without compromising the ability of future generations to meet their own needs (Ahmad et al., 2020).

Natural resources are the foundation that sustains human life and the ecosystem of this world as a whole. Water, air, soil, minerals, and forests serve as sources of basic human needs and are important pillars for ecological and economic sustainability (Khan et al., 2020). Humans obtain food, energy, and raw materials from natural resources for various industrial needs. Furthermore, the stability and health of ecosystems that depend on the sustainability of natural resources are fundamental to mitigating climate change, maintaining biodiversity, and ensuring access to clean water and clean air for current and future generations (Yang et al., 2022). It means that sustainable natural resource management is not only an environmental issue but also a social, economic, and intergenerational justice issue.

However, the challenges in natural resource management are many and complex. Pressures from population growth, industrial expansion, and overconsumption have led to unsustainable exploitation of natural resources. Deforestation, pollution, overfishing, and extracting minerals without regard to environmental impacts are some examples of activities that damage ecosystems (Wang et al., 2021). In addition, inequities in access to and distribution of benefits from natural resources often affect the most vulnerable communities, both economically and socially. In this regard, the biggest challenge is to strike a balance between meeting the needs of people today without depriving future generations of the ability to meet

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their needs, which requires innovative approaches, global cooperation, and strong commitment from all concerned (Khan et al., 2021).

Law enforcement plays a crucial role in sustainable natural resource management. Well-designed legal regulations and policies serve as guidelines in the exploitation and management of natural resources and as important tools to prevent environmental degradation, protect biodiversity, and ensure equitable distribution of natural resource benefits among communities (Klein et al., 2022). Through effective law enforcement, an accountability system can be created that ensures all parties, be it individuals, communities, or corporations, comply with the standards and conditions that have been set. This accountability system is important to avoid irreversible environmental damage and ensure that natural resource exploitation is done in a way that does not harm future generations (Prasetyo et al., 2021).

Furthermore, without strong law enforcement, natural resource management policies and regulations risk becoming nothing more than paper without any real effect on the ground. Challenges in law enforcement are often related to insufficient resources, corruption, and a lack of public awareness and understanding of the importance of sustainable natural resource management (Blanco et al., 2011). Therefore, law enforcement efforts must also be accompanied by increased capacity of law enforcement officials, effective public awareness campaigns, and active participation from civil society (Dernbach, 2020). In the global context, international cooperation is also crucial to address transboundary issues related to natural resources, such as climate change and illegal trade in endangered species. Through consistent law enforcement and supported by these collaborative efforts, the goal of sustainable natural resource management can be achieved (Harriri et al., 2020).

Effective law enforcement requires policy transformation that is adaptive and responsive to changing ecological and socio-economic conditions. As natural resources are often shared between regions and fall under different jurisdictions, harmonization of interregional regulations and policies is crucial (Gümplová, P. 2020). Through regional and international cooperation, countries can share best practices, strengthen enforcement capacity, and support each other in addressing common challenges. This includes a shared commitment to greater transparency, information sharing, and cross-border surveillance, all of which are vital elements in preventing lawlessness and addressing natural resource issues globally (Khan et al., 2023).

In addition, law enforcement efforts must always be balanced with social justice. This means that in any natural resource management policy, there should be an emphasis on distributive justice and inclusiveness. The sustainability of resource management rests not only on compliance with the law but also on justice and equality in access to and benefits from natural resources (Djayaputra et al., 2021). By including local communities, especially those traditionally dependent on natural resources, in planning and decision-making, management can be more sustainable and ethical. Law enforcement in this context prevents environmental damage, strengthens social coherence, and builds a stronger foundation for sustainable and inclusive economic development (Wenar et al., 2020).

Law enforcement in sustainable natural resource management is multidimensional and requires an integrated approach. Encompassing environmental, social, and economic aspects, law enforcement must be a strong foundation for building a more sustainable and equitable future. Without this, global efforts to preserve the planet may fail, jeopardizing not only ecosystems but also humanity's survival. Therefore, effective regulations and policies are essential tools to regulate the utilization of natural resources, ensure equitable distribution of natural wealth, and ensure environmental protection (Blumm et al., 2021). However, various challenges to effective law implementation and enforcement exist, including weaknesses in the judicial system, lack of public awareness and understanding of laws and regulations, and insufficient resources and capacity for law monitoring and implementation (Klein et al., 2022).

In the context of Indonesia, as a mega biodiversity country with abundant natural resources, these challenges are even more complex. Indonesia faces a variety of problems, ranging from deforestation, land conflicts, and illegal mining to environmental pollution, all of which require special attention in law enforcement and policy (Zheng, X. 2020). Tackling these problems requires inter-agency cooperation, increased law enforcement capacity, as well as active involvement from civil society.

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This research explores law enforcement's role in Indonesia's sustainable natural resource management efforts. Through a multidisciplinary approach involving legal and policy analysis, it seeks to identify successes, challenges, and opportunities for strengthening law enforcement's role in achieving sustainable natural resource management goals. Understanding the crucial role of law enforcement in this context is expected to provide applicable and impactful recommendations for policymakers, legal practitioners, and civil society to strengthen the sustainability of natural resource management for current and future generations.

Research Method

The research method used in this study is literature. The literature research method is a series of activities related to collecting data from library sources, including reading, recording, and managing research materials relevant to the problems and research objectives set (Adi, 2021; Soekanto, 2007). Some techniques that can be used in the literature study method include searching for relevant keywords in catalogs, indexes, and search engines to find other research references from various trusted sources (Arikunto, 2013; Reay, 2014).

The research used secondary data, which are data available to the public and easily accessible using Google search with specific keywords. The analysis will be conducted through qualitative methods.

Result and Discussion

Concept of Natural Resource Management

Natural resource management is the process of planning, operating, and maintaining natural resources in a sustainable manner to maximize benefits for humans while maintaining environmental balance (Ahmad et al., 2020). It encompasses a range of activities aimed at regulating and utilizing resources such as water, land, minerals, flora, and fauna in a responsible manner. The concept focuses on meeting current human needs without compromising the ability of future generations to meet their needs. To achieve sustainable development, natural resource management must consider social, economic, and environmental aspects (Khan et al., 2020).

Within this, the concept of natural resource management also involves equity, efficiency, and conservation considerations. This includes the need for equitable resource allocation between various stakeholders, using resources to optimize benefits and reduce wastage, and ecosystem protection and restoration efforts to maintain biodiversity (Yang et al., 2022). This concept requires an inclusive and participatory approach, where local communities, stakeholders, and governments work together to achieve common goals related to resource management. Therefore, successful natural resource management relies on science-based policies, transparent decision-making, and active involvement of all sectors of society (Wang et al., 2021).

In practice, effective natural resource management requires the application of innovative policies and technologies. One approach that is often applied is green economy principles, which encourage the production of goods and services with minimal environmental impact (Khan et al., 2021). This approach includes using renewable energy, energy efficiency, pollution reduction, and sustainable resource utilization. Achieving this requires multidisciplinary collaboration involving natural, social, and technological sciences (Klein et al., 2022).

Education and public awareness are also important in supporting effective natural resource management. Environmental education can increase public understanding of the importance of conservation and sustainable development and motivate behavior change toward more responsible consumption patterns (Prasetyo et al., 2021). Through information, dialog, and public participation, people can actively contribute to natural resource conservation and sustainable development (Blanco et al., 2011).

Finally, global efforts and international cooperation are crucial in natural resource management, as environmental issues such as climate change and biodiversity loss do not recognize national borders. International agreements, such as the Paris Agreement on Climate Change and the Sustainable

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Development Goals (SDGs), establish a framework for countries worldwide to collaborate on reducing emissions, adapting to climate change, and protecting natural resources (Dernbach, 2020). Successful natural resource management, therefore, requires commitment and action from all levels of government, the private sector, local communities, and individuals to work together towards a sustainable and equitable future for all.

Principles of Sustainable Natural Resource Management

The principles of sustainable natural resource management focus on integrating environmental, social, and economic aspects to ensure that current resource use does not reduce the ability of future generations to meet their needs (Wilmer et al., 2021). One of the key principles is applying the ecosystem approach, which recognizes the interconnectedness and interdependence between humans and nature. In this context, management decisions should consider the whole ecosystem, including maintaining essential ecological processes and biodiversity sustainability. The second principle is the precautionary principle, which states that in the face of scientific uncertainty, precautions should be taken to avoid potentially serious or irreversible environmental damage (Litvinenko et al., 2022).

Furthermore, intergenerational and intragenerational equity principles are important in sustainable natural resource management. Intergenerational equity underscores the need to maintain natural resources for future generations, while intragenerational equity emphasizes the fair distribution of natural resource benefits and burdens among the current population (Ramli, R.M., 2020). The principle of participation is also crucial, supporting the active involvement of all stakeholders, including local communities, in decision-making processes, ensuring that diverse perspectives and values are respected and heard. By applying these principles, natural resource management can achieve its main goal, which is to maintain the function and productivity of nature to realize sustainable development (Gruber, J.S., 2010).

Implementing sustainable natural resource management should also follow the principles of efficiency and integration. Efficiency relates to the frugal and productive use of resources to limit waste and emphasize added value. It leads to innovations in technologies and practices that reduce environmental impacts and add economic value (Klimovskikh et al., 2023). The principle of integration emphasizes the importance of a coherent approach where environmental policies are coordinated with economic and social policies. This ensures that economic activities do not interfere with but rather support efforts to conserve and protect natural resources (Rashidin et al., 2024).

Finally, the sustainability of natural resources depends on accountability and transparency. Accountability ensures that involved parties are responsible for their decisions and actions that impact natural resources. Transparency enables access to information about environmental and resource conditions, decision-making processes, and resource management, all of which are essential for building trust and facilitating effective public participation (Cumming et al., 2020). With these principles as a foundation, sustainable natural resource management can advance human well-being while ensuring that our natural wealth is preserved for future generations to enjoy.

Study on Law Enforcement

Law enforcement refers to the process of applying and complying with rules, laws, and standards established by legislative bodies or regulatory authorities to ensure order and justice in society. It encompasses various activities, from preventing, detecting, and investigating law violations to prosecution and adjudication (Jennings et al., 2020). It involves coordination between various legal entities and law enforcement, including police, prosecutors, courts, and correctional institutions. Law enforcement aims to protect the rights and freedoms of citizens, maintain public order, and guarantee the fair and non-discriminatory application of the law (Southby et al., 2022).

In practice, law enforcement should follow basic principles of law and human rights, ensuring that all actions are professional, proportionate, and evidence-based. It also involves proactive efforts to address underlying social issues, such as poverty, education, and health, which can contribute to crime rates

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(Cortright et al., 2020). Effective law enforcement strategies often require cross-sector cooperation and community participation, building relationships of trust between communities and law enforcement officials. In an era of globalization and technological advancement, law enforcement faces new challenges, such as cyber and transnational crime, which require closer international coordination and cooperation (Kugler et al., 2020). Finally, to achieve the goal of sustainable law enforcement, continuous education, and training for law enforcers is essential, coupled with transparent performance assessment and accountability to ensure that they act within the confines of the law and ethical standards.

Law enforcement plays an important role in various sectors, especially in natural resource management, as it helps implement policies and regulations designed to maintain the sustainability and integrity of the natural environment (Dewey et al., 2021). Through effective law enforcement, governments and relevant agencies can ensure that natural resource exploration, extraction, and utilization activities are conducted to minimize environmental damage, prevent overexploitation, and support conservation efforts. In addition, strict enforcement of laws against offenses such as poaching, forest encroachment, and environmental pollution is an important step in protecting biodiversity and maintaining ecological well-being (Sener et al., 2021). Law enforcement, therefore, not only creates a framework that regulates rights and obligations but also affirms the commitment of communities and governments to the principles of sustainable development and responsible use of natural resources (Fine et al., 2020).

Furthermore, effective law enforcement for natural resource management is key in a multi-stakeholder approach to managing conflicts that can arise among various stakeholders, including industry, local communities and government agencies. Through clear regulation and fair enforcement, all parties feel protected under the law, which can foster dialog and cooperation. This increases the ability to reach sustainable solutions and strengthens public trust in the management process (Okhrimenko et al., 2023). Furthermore, law enforcement transparency helps prevent corruption and ensure that resource allocation is done fairly and effectively, influencing data-driven decision-making and oriented towards positive outcomes for both the environment and society. Law enforcement in natural resource management is not only limited to policy implementation but also as a foundational support in building a sustainable and equitable future for all (Tarlow, P. E. 2023).

The Role of Law Enforcement in Managing Sustainable Natural Resource

In the global context, various regulations and policies are designed to govern the responsible and sustainable management of natural resources. International conventions such as the Convention on Biological Diversity (CBD) and the Framework Convention on Climate Change (UNFCCC) are the foundation for countries to develop their domestic policies to protect the natural environment and manage natural resources sustainably (DOMAN, D. A. Y. 2018). These policies cover various aspects, ranging from biodiversity conservation, forest management, and land use to emission control and adaptation to climate change. By supporting the implementation of this global policy, countries are committing to meet sustainable development goals, ensuring that today's utilization of natural resources does not compromise the ability of future generations to meet their needs (United et al., 1992).

At the national level, governments implement specific regulations and policies tailored to their local conditions and development priorities. These can include environmental protection laws, mineral resource extraction license regulations, and sustainable water management and forestry policies. For example, some countries have adopted environmental labeling systems for products from sustainable forestry or fisheries conservation and implemented tax or fiscal incentives to reduce the carbon footprint of industries (Pudjiastuti, S.R., 2021). In addition, improved access to information, public participation in decision-making, and strict law enforcement against environmental violations are other important aspects of natural resource management policies. Through innovative and inclusive approaches, these regulations and policies are designed to balance economic growth, social justice, and environmental protection (Robbins, P. 2000).

To improve the effectiveness of policies and regulations related to natural resource management, intersectoral collaboration is very important. It involves cooperation between the government, private sector, local communities, and non-governmental organizations in designing and implementing

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comprehensive management strategies (Pardede et al., 2023). This approach allows different perspectives and expertise to contribute to creating balanced and inclusive solutions. For example, the participation of local communities in forest management can aid in preserving ecosystems while ensuring that using natural resources provides social and economic benefits to them. Similarly, collaboration with industry can promote technological innovation for more efficient and sustainable natural resource extraction and use practices (Rist et al., 2007).

Finally, the importance of public education and awareness in supporting successful natural resource management policies cannot be overlooked. Raising awareness about environmental issues, community rights and obligations, and sustainable practices can encourage behavioral changes that support these policy objectives (Singleton, S. 2000). Education programs and awareness campaigns can help build public consensus and increase community participation in conservation and responsible use of natural resources. This is where information technology comes in, providing a platform for information dissemination, knowledge exchange, and mobilization of public support for natural resource management policies. It means that every individual and community group becomes part of the collective effort in environmental conservation for a sustainable future (Clarke et al., 2010).

Regulations that support natural resource sustainability are designed to ensure that resource utilization is done responsibly and sustainably, anticipating the needs of future generations. These regulations include restrictions on resource extraction, the use of environmentally friendly technologies, and the maintenance of ecosystems (Patlis, J.M., 2005). The government plays a role in implementing policies that promote conservation and efficient resource use, as well as enforcing laws governing extractive activities and ensuring environmental rehabilitation after extraction. With these regulations, sustainability goals not only protect the environment and biodiversity but also support sustainable economic growth and social justice for all communities (Kyllönen et al., 2006).

In order to support the effectiveness of sustainable natural resource management regulations, technological adaptation, and innovation are crucial. Advanced technologies such as satellite monitoring, geographic information systems (GIS), and big data can be utilized to monitor environmental conditions in real time, improve efficiency in resource use, and facilitate early detection of potential environmental damage. Technological innovations also enable the development of renewable energy, better waste management, and sustainable farming and fishing techniques, all of which support efforts to minimize negative environmental impacts (Jones et al., 2013).

In addition, international participation and cooperation play an important role in encouraging the fulfillment of global standards related to natural resource sustainability. Through multilateral forums, countries can share knowledge, technology and best practices and collaborate in addressing global environmental issues such as climate change and biodiversity loss (Shen et al., 2002). Such cooperation not only strengthens national capacity in natural resource management but also ensures that efforts are inclusive and equitable, considering the needs and capacities of developing countries (Sterner et al., 2013).

The implementation of regulations to support natural resource sustainability, therefore, must involve a holistic and integrated approach, incorporating policy, technology, and local and international collaboration. Through these measures, we can ensure that natural resources are safeguarded and used responsibly, supporting the well-being of humanity and the health of our planet now and in the future.

Challenges and obstacles in law enforcement implementation

In the implementation of law enforcement related to natural resource management, there are various challenges and obstacles that often reduce the effectiveness of existing policies. One of the main challenges is the lack of resources and institutional capacity. This includes limitations in trained human resources, infrastructure, and technology, all of which are important in the process of monitoring, surveillance, and enforcement of violations (Custers et al., 2015). For example, in many developing countries, environmental monitoring agencies may not have sufficient equipment to conduct effective monitoring or face constraints in accessing remote locations where natural resources are often extracted (Arsad, R. 2023).

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Another challenge is related to corruption and political interests that can hamper law enforcement efforts. Large economic interests in natural resource extraction often lead to corrupt practices where decision-makers sacrifice sustainable natural resource management policies for short-term gains (Suramin, S. 2021). This not only lowers public trust in law enforcement agencies but also undermines evidence-based and transparent policy-making processes. Under these conditions, law enforcement efforts become very challenging because they can clash with powerful and entrenched interests in government and industry (Long et al., 2002).

Another obstacle often faced by law enforcement in the field of natural resource sustainability is the scalability and complexity of the law itself. Existing regulations may be complex and difficult to understand by all parties concerned, from industry players to local communities. This poses concrete problems in implementation, where laws are not consistently applied or are only weakly sanctioned due to an inability to understand or detect violations (Chau et al., 2001). In addition, existing laws may not be comprehensive and do not cover all aspects necessary for environmental protection, such as climate change or biodiversity issues, making law enforcement fragmented and less effective (Lucia et al., 2020).

Socioeconomic factors also play a role in determining the success of law enforcement in this area. In many cases, local communities may be highly dependent on natural resources for their daily lives, so restrictions on resource use without providing viable alternatives can lead to conflict and civil disobedience (McGinnis, D. 2019). An approach that considers the social and economic conditions of surrounding communities is necessary to ensure that law enforcement efforts have the support of those most affected. Hence, participation and empowerment of local communities in decision-making is crucial to encourage compliance and support the achievement of broader environmental sustainability goals (Ahmed et al., 2023).

Globally, differences in rules across jurisdictions and a lack of international cooperation are also barriers to environmental law enforcement. While international conventions bind countries to certain commitments, implementation at the national level is diverse and sometimes inconsistent. As a result, effective law enforcement requires uniform global commitments, where countries collaborate to address common challenges in natural resource management (Andreopoulos, G. (Ed.). 2012). Through improving institutional capacity, curbing corruption, simplifying and harmonizing laws, and involving local communities in decision-making processes, we can reduce existing challenges and barriers, strengthen law enforcement, and ultimately maintain the balance between environmental protection and economic growth (Salim et al., 2021).

Conclusion

Law enforcement plays a critical role in ensuring sustainable natural resource management. Through effective implementation and enforcement, countries can limit the overexploitation of natural resources, prevent environmental degradation, and secure the rights of communities and species that depend on these ecosystems. Challenges to this enforcement include limited resources, corruption, barriers to applying complex and diverse laws, and the need for local community participation and support. Addressing these challenges requires not only innovation and collaboration between sectors but also a global commitment to foster international cooperation to protect natural resources universally.

Achieving the goal of sustainable natural resource management requires a holistic and integrative approach to law enforcement. This means strengthening institutions, improving transparency and accountability, and developing adequate technical capacity for monitoring and enforcement. In addition, recognizing and supporting local communities rights and developing policies that favor long-term environmental conservation are important foundations. Through these measures, law enforcement can be an effective catalyst in promoting fair, responsible, and sustainable natural resource management practices looking to the future.

In the global context, law enforcement must also consider aspects of strong international cooperation. With differences in policy and law enforcement capacity between countries, synergy, and harmonization of

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regulations are important to prevent "forum shopping" for business actors who seek countries with the weakest regulations for their operations. This cooperation can take the form of information exchange, technical assistance, or the development of universally applicable international standards to ensure that conservation and natural resource management efforts are not hampered by geographical or political boundaries. It is then that law enforcement in natural resource management does not only operate at the national level but also requires global commitment and collaboration.

Finally, successful law enforcement in sustainable natural resource management relies heavily on community engagement and awareness. Education and advocacy are vital in increasing public understanding of the importance of natural resource sustainability and the consequences of overexploitation. As the public becomes more aware and engaged, public pressure on the government and private sector to operate responsibly increases. This, in turn, strengthens the demand for transparency, accountability, and ethics in natural resource management. Therefore, law enforcement must be accompanied by community education and empowerment efforts as part of a comprehensive strategy to achieve long-term sustainability of natural resources.

References

- Abbas, M., Jam, F. A., & Khan, T. I. (2024). Is it harmful or helpful? Examining the causes and consequences of generative AI usage among university students. International Journal of Educational Technology in Higher Education, 21(1), 10.
- Adi, R. (2021). Metodologi Penelitian Sosial Dan Hukum. Yayasan Pustaka Obor Indonesia.
- Ahmad, M., Jiang, P., Majeed, A., Umar, M., Khan, Z., & Muhammad, S. (2020). The dynamic impact of natural resources, technological innovations and economic growth on ecological footprint: an advanced panel data estimation. Resources Policy, 69, 101817.
- Ahmed, I., Farooq, W., & Khan, T. I. (2021). Customers' Perceptions and their Responses to Objectives of Islamic Banks–A Three-Wave Investigation. Asian Economic and Financial Review, 11(1), 43. al politics and job outcomes.
- Ahmed, T., Malik, G. M., Mustafa, N., Memon, H. A., & Abro, A. A. (2023). Exploring The Challenges Encountered by Women Working In Law Enforcement Agency: A Case Study Of Dadu Police Force. PalArch's Journal of Archaeology of Egypt/Egyptology, 20(2), 989-1008.
- Andreopoulos, G. (Ed.). (2012). Policing across borders: Law enforcement networks and the challenges of crime control. Springer Science & Business Media.
- Arikunto, S. (2013). Prosedur penelitian suatu pendekatan praktik.
- Arsad, R. (2023). Obstacles And Challenges In Law Enforcement Against Corruption In Public Services. Russian Law Journal, 11(3), 3331-3339.
- Bangsa-Bangsa, K. P. (1992). Kerangka Kerja Perubahan Iklim (United Nations Framework Convention on Climate Change/UNFCCC).
- Blanco, E., & Razzaque, J. (2011). Globalisation and natural resources law: challenges, key issues and perspectives. Edward Elgar Publishing.
- Blumm, M. C., & Wood, M. C. (2021). The public trust doctrine in environmental and natural resources law.
- Chau, M., Atabakhsh, H., Zeng, D., & Chen, H. (2001). Building an infrastructure for law enforcement information sharing and collaboration: Design issues and challenges.
- Clarke, P., & Jupiter, S. D. (2010). Law, custom and community-based natural resource management in Kubulau District (Fiji). Environmental Conservation, 37(1), 98–106.
- Cortright, C. E., McCann, W., Willits, D., Hemmens, C., & Stohr, M. K. (2020). An analysis of state statutes regarding the role of law enforcement. Criminal Justice Policy Review, 31(1), 103–132.
- Cumming, G. S., Epstein, G., Anderies, J. M., Apetrei, C. I., Baggio, J., Bodin, Ö., ... & Weible, C. M. (2020). Advancing understanding of natural resource governance: a post-Ostrom research agenda. Current Opinion in Environmental Sustainability, 44, 26-34.
- Custers, B., & Vergouw, B. (2015). Promising policing technologies: Experiences, obstacles and police needs regarding law enforcement technologies. Computer Law & Security Review, 31(4), 518-526.
- Dernbach, J. C. (2020). The Role of Trust Law Principles in Defining Public Trust Duties for Natural Resources. U. Mich. JL Reform, 54, 77.
- Dewey, M., Woll, C., & Ronconi, L. (2021). The political economy of law enforcement (No. 21/1). MaxPo Discussion Paper. Djayaputra, D. G. (2021). Analysis of Natural Resources Management in Indonesia: Environmental Law Perspective. Int. J. Soc. Sci. Public Policy, 3.
- DOMAN, D. A. Y. (2018). Status Hukum Intergenerational Equity Principle (IGE) Dalam Konvensi Keanekaragaman Hayati (Convention on Biological Diversity (CBD)) 1992 Dan Implementasinya Di Indonesia.
- Fine, A. D., Donley, S., Cavanagh, C., & Cauffman, E. (2020). Youth perceptions of law enforcement and worry about crime from 1976 to 2016. Criminal justice and behavior, 47(5), 564-581.
- Gruber, J. S. (2010). Key principles of community-based natural resource management: a synthesis and interpretation of identified effective approaches for managing the commons. Environmental management, 45, 52-66.
- Gümplová, P. (2020). Sovereignty over natural resources—A normative reinterpretation. Global Constitutionalism, 9(1), 7—37.

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- Hariri, A., Irawan, A. D., & Purwo, A. Q. (2020). Authority dynamic law of central and regional governments in managing natural resources. Authority Dynamic Law of Central and Regional Governments in Managing Natural Resources, 499.
- Iqbal Khan, T., Kaewsaeng-on, R., Hassan Zia, M., Ahmed, S., & Khan, A. Z. (2020). Perceived organizational politics and age, interactive effects on job outcomes. SAGE Open, 10(3), 2158244020936989.
- Jamil, R. A., Qayyum, U., ul Hassan, S. R., & Khan, T. I. (2023). Impact of social media influencers on consumers' well-being and purchase intention: a TikTok perspective. European Journal of Management and Business Economics, (ahead-of-print).
- Jennings, W. G., & Perez, N. M. (2020). The immediate impact of COVID-19 on law enforcement in the United States. American journal of criminal justice, 45(4), 690-701.
- Jones, B., & Murphree, M. W. (2013). Community-based natural resource management as a conservation mechanism: Lessons and directions. In Parks in transition (pp. 63–103). Routledge.
- Khan, F. A. J. T. I., Anwar, F., Sheikh, R. A., & Kaur, S. (2012). Neuroticism and job outcomes: Mediating effects of perceived organizational politics. African Journal of Business Management, 6(7), 2508.
- Khan, I., Hou, F., & Le, H. P. (2021). The impact of natural resources, energy consumption, and population growth on environmental quality: Fresh evidence from the United States of America. Science of the Total Environment, p. 754, 142222.
- Khan, M. A., Gu, L., Khan, M. A., & Oláh, J. (2020). Natural resources and financial development: The role of institutional quality. Journal of Multinational Financial Management, 56, 100641.
- Khan, M. T., Khan, T. I., & Khan, S. (2020). Innovation & Its Diffusion in Business: Concept, Stages & Procedural Practices. sjesr, 3(4), 174-186.
- Khan, T. I., & Akbar, A. (2014). Job involvement-predictor of job satisfaction and job performance-evidence from Pakistan. World Applied Sciences Journal, 30(30), 8-14.
- Khan, T. I., & Akbar, A. (2015). Impact of stressors on employee performance: Moderating role of big five traits. Islamabad: Mohammad Ali Jinnah University.
- Khan, T. I., Akbar, A., Jam, F. A., & Saeed, M. M. (2016). A time-lagged study of the relationship between big five personality and ethical ideology. Ethics & Behavior, 26(6), 488-506.
- Khan, T. I., Kaewsaeng-on, R., & Saeed, I. (2019). Impact of workload on innovative performance: Moderating role of extrovert. Humanities & Social Sciences Reviews, 7(5), 123-133.
- Khan, T. I., Kaewsaeng-On, R., & Saeed, I. (2019). Impact of workload on innovative performance: Moderating role of extrovert. Humanities & Social Sciences Reviews, 7 (5), 123-133.
- Khan, T. I., Khan, A. Z., & Khan, S. (2019). Effect of time pressure on organizational citizenship behavior: Moderating role of agreeableness. Sir Syed Journal of Education and Social Research (SJESR), 2(1), 140-156.
- Khan, T. I., Khan, S., & Zia, M. H. (2019). Impact of personality traits on workplace deviance–a pakistani perspective. Global Regional Review, Humanity only, 4(2), 85-92.
- Khan, T. I., Nisar, H. G., Bashir, T., & Ahmed, B. (2018). Impact of aversive leadership on job outcomes: Moderation and mediation model. NICE Research Journal, 56-73.
- Khan, Y., Hassan, T., Guiqin, H., & Nabi, G. (2023). Analyzing the impact of natural resources and rule of law on sustainable environment: A proposed policy framework for BRICS economies. Resources Policy, 86, 104070.
- Klein, C. A., Birdsong, B. C., Klass, A. B., Biber, E., & Owen, D. (2022). Natural resources law: a place-based book of problems and cases. Aspen Publishing.
- Klein, C. A., Birdsong, B. C., Klass, A. B., Biber, E., & Owen, D. (2022). Natural resources law: a place-based book of problems and cases. Aspen Publishing.
- Klimovskikh, N., Sekerin, V., Makushkin, S., Kuzmicheva, A., Leontev, M., & Kochetkov, E. (2023). Impact of human resource management on improving the innovation potential of an enterprise to achieve the principles of sustainable development. Journal of Law and Sustainable Development, 11(1), e0274-e0274.
- Kugler, M. B., Oliver, M., Chu, J., & Lee, N. R. (2020). American law enforcement responses to COVID-19. J. Crim. L. & Crimin. Online, 111, 19.
- Kuo, Y. K., Khan, T. I., Islam, S. U., Abdullah, F. Z., Pradana, M., & Kaewsaeng-On, R. (2022). Impact of green HRM practices on environmental performance: The mediating role of green innovation. Frontiers in Psychology, 13, 916723.
- Kuo, Y. K., Khan, T. I., Islam, S. U., Abdullah, F. Z., Pradana, M., & Kaewsaeng-On, R. (2022). Impact of green HRM practices on environmental performance: The mediating role of green innovation. Frontiers in Psychology, 13, 916723.
- Kyllönen, S., Calpaert, A., Heikkinen, H., Jokinen, M., Kumpula, J., Marttunen, M., ... & Raitio, K. (2006). Conflict management as a means to the sustainable use of natural resources.
- Li, H. X., Hassan, K., Malik, H. A., Anuar, M. M., Khan, T. I., & Yaacob, M. R. (2022). Impulsive and compulsive buying tendencies and consumer resistance to digital innovations: the moderating role of perceived threat of COVID-19. Frontiers in Psychology, 13, 912051.
- Litvinenko, V., Bowbrick, I., Naumov, I., & Zaitseva, Z. (2022). Global guidelines and requirements for professional competencies of natural resource extraction engineers: Implications for ESG principles and sustainable development goals. Journal of Cleaner Production, 338, 130530.
- Long, J., Wells, W., & De Leon-Granados, W. (2002). Implementation issues in a community and police partnership in law enforcement space: Lessons from a case study of a community policing approach to domestic violence. Police Practice and Research, 3(3), 231-246.
- Lucia, D. G., & Halloran, M. J. (2020). An investigation of the efficacy of programs to prevent stress in law enforcement officers: A program manager's perspective. Journal of police and criminal psychology, 35(1), 35-47.
- McGinnis, D. (2019). The challenges faced by women law enforcement officers.
- Mushtaq, R., Jabeen, R., Begum, S., Khan, A., & Khan, T. (2021). Expanded job scope model and turnover intentions: A moderated mediation model of Core-Self Evaluation and job involvement. Management Science Letters, 11(5), 1473-1480.

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- Okhrimenko, I., Lyakhova, N., Pasko, O., Horoshko, V., Prudka, L., Matiienko, T., & Serednytska, I. (2023). Psychoemotional state and health level of law enforcement officers in the process of their professional training.
- Pardede, M., Situmorang, M., Aristeus, S., Rumadan, I., Lumban Toruan, H. D., Diogenes, ... & Nugrahani, E. L. P. (2023).

 Perspectives of sustainable development vs. law enforcement on damage, pollution and environmental conservation management in Indonesia. Journal of Water and Climate Change, 14(10), 3770-3790.
- Patlis, J. M. (2005). The role of law and legal institutions in determining the sustainability of integrated coastal management projects in Indonesia. Ocean & Coastal Management, 48(3-6), 450-467.
- Prasetyo, H., & Diniyanto, A. (2021). Law Enforcement in the Aspects of Natural Resources and Environmental Damage. Law Research Review Quarterly, 7(1), 43-52.
- Pudjiastuti, S. R. (2021). Global issues of environmental law enforcement impact on sustainable development. JHSS (Journal of Humanities and Social Studies), 5(1), 56-62.
- Ramli, R. M. (2020). The Principle Of Natural Resources Management Based On Maqasid Al-Shari'ah: A Conceptual Framework. International Journal of Islamic Economics and Finance Research, 3(1 July), pp. 57–74.
- Rashidin, T., Mahdi, U., & Junaidi, J. (2024, January). Implementation of Sustainable Principles In Natural Resource Management And Environmental Law. In International Conference on Educational Technology and Social Science (ICoETS, 2023) (pp. 33–38). Atlantis Press.
- Reay, T. (2014). Publishing qualitative research. Sage Publications Sage CA: Los Angeles, CA.
- Rist, S., Chidambaranathan, M., Escobar, C., Wiesmann, U., & Zimmermann, A. (2007). Moving from sustainable management to sustainable governance of natural resources: The role of social learning processes in rural India, Bolivia and Mali. Journal of Rural Studies, 23(1), 23–37.
- Robbins, P. (2000). The rotten institution: corruption in natural resource management. Political Geography, 19(4), 423–443. Salim, A., & Palullungan, L. (2021). The challenges of environmental law enforcement to implement SDGs in Indonesia. International Journal of Criminology and Sociology, 10, 517–524.
- Sarwat, N., Ali, R., & Khan, T. I. (2021). Challenging, hindering job demands and psychological well-being: The mediating role of stress-related presenteeism. Research Journal of Social Sciences and Economics Review, 2(1), 135-143.
- Sener, H., Arikan, I., Gündüz, N., & Gülekci, Y. (2021). Detecting the relationship between the stress levels and perceived burnout in law-enforcement officers during the COVID-19 outbreak: A cross-sectional study. Social Work in Public Health, 36(4), 486-495.
- Shen, L., Cheng, S., Gu, S., & Lu, Y. (2002). Environmental policy and law for sustainable natural resources development-issues and challenges. Envtl. Pol'y & L., 32, 91.
- Singleton, S. (2000). Co-operation or capture? The paradox of co-management and community participation in natural resource management and environmental policy-making. Environmental Politics, 9(2), 1-21.
- Soekanto, S. (2007). Penelitian Hukum Normatif: Suatu Tinjauan Singkat.
- Southby, R. F., & del Pozo, B. (2022). Challenges and opportunities in educating law enforcement officers: 2020 and beyond. Law Enforcement and Public Health: Partners for Community Safety and Wellbeing, pp. 65–73.
- Sterner, T., & Coria, J. (2013). Policy instruments for environmental and natural resource management. Routledge.
- Suramin, S. (2021). Indonesian anti-corruption law enforcement: current problems and challenges. Journal of Law and Legal Reform, 2(2), 225–242.
- Tarlow, P. E. (2023). Law Enforcement in the Midst of National Crime Waves and Political Instability: 2020–2022. In Challenges to US and Mexican Police and Tourism Stability (pp. 89–111). Emerald Publishing Limited.
- Wang, R., Tan, J., & Yao, S. (2021). Are natural resources a blessing or a curse for economic development? The importance of energy innovations. Resources Policy, 72, 102042.
- Wenar, L., & Gilbert, J. (2020). Fighting the Resource Curse: The Rights of Citizens Over Natural Resources. Nw. UJ Int'l Hum. Rts., 19, 30.
- Wilmer, H., Meadow, A. M., Brymer, A. B., Carroll, S. R., Ferguson, D. B., Garba, I., ... & Peck, D. E. (2021). Expanded ethical principles for research partnership and transdisciplinary natural resource management science. Environmental Management, 68(4), 453–467.
- Yang, F., Yuan, H., & Yi, N. (2022). Natural resources, environment and the sustainable development. Urban Climate, 42, 101111.
- Zheng, X. (2020). Natural resources and human rights: an appraisal.