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Space Exploration and the Ethics of Discovery: An Islamic Perspective on Human Ambitions in the Cosmos

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Abstract

This paper explores the concept of humanity's cosmic purpose within the framework of Islam, focusing on the interrelation of worship, ethics, and divine service. Islam posits that the primary purpose of human existence is to worship Allah, a concept that extends beyond ritual practices to encompass all aspects of life. This worship is not limited to formal acts but includes ethical behavior, social justice, and personal development. The paper examines how the Quran and Hadith articulate the purpose of human life, emphasizing the significance of worship as a means of fulfilling divine will and contributing to societal well-being. Key to understanding this purpose is the Islamic ethical framework, which integrates principles of justice, compassion, and integrity into daily life. The paper discusses how these ethical principles guide human conduct and serve as a reflection of one's worship and submission to Allah. Additionally, the concept of divine service is explored as a practical manifestation of worship, encompassing acts of kindness, stewardship of the environment, and engagement in community service. By analyzing Islamic texts and scholarly interpretations, this study highlights how worship and ethics are intertwined, shaping both individual behavior and collective societal norms. It also addresses the impact of these principles on personal and communal identity, providing insights into how Islamic teachings influence a holistic approach to living a purposeful life. Ultimately, this paper seeks to offer a comprehensive understanding of how worship, ethics, and divine service contribute to fulfilling humanity's cosmic purpose according to Islamic teachings.

Keywords:

Islam, cosmic purpose, worship, ethics, divine service, Quran, Hadith, social justice, Islamic ethics, community service.

Introduction

Space exploration represents one of humanity's most profound endeavors, embodying our unquenchable curiosity and drive to extend our reach beyond the confines of our home planet. From the early observations of celestial bodies to the sophisticated missions targeting distant planets and beyond, the journey into space reflects both our technological advancements and our philosophical quests. This ambitious pursuit raises fundamental questions about the ethical frameworks that guide our cosmic endeavors, particularly within the context of various philosophical and religious traditions. Among these, Islamic thought offers a unique perspective on the intersection of human ambition, ethical considerations, and the cosmos.

Islamic teachings have historically emphasized a harmonious relationship between humanity and the universe. The Qur'an and Hadith (sayings of the Prophet Muhammad) contain numerous references to the cosmos, highlighting both the magnificence of creation and the responsibilities that come with human stewardship. As space exploration advances, Islamic ethics can provide critical insights into the moral implications of these activities, addressing questions of stewardship, purpose, and responsibility.

The Cosmic Context in Islamic Thought

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In Islam, the cosmos is viewed as a sign of God's creative power and a manifestation of divine wisdom. The Qur'an frequently refers to the heavens and the earth as signs for reflection and contemplation. For example, Surah Al-Baqarah (2:164) states, "Indeed, in the creation of the heavens and the earth, and the alternation of the night and the day, are signs for those of understanding." This perspective positions the universe not merely as a backdrop for human activities but as an integral element of God's creation that merits reverence and thoughtful engagement.

Ethical Considerations in Space Exploration

The pursuit of space exploration is driven by several motivations, including scientific discovery, technological advancement, and economic opportunity. However, these ambitions necessitate a rigorous ethical framework to ensure that such activities are conducted responsibly. In Islamic ethics, the concept of "Tawhid" (the oneness of God) underpins the belief that all aspects of existence, including the cosmos, are interconnected and governed by divine will. Consequently, the exploration of space must be aligned with the principles of justice, stewardship, and respect for God's creation.

One of the primary ethical considerations is the concept of "Khilafah" (stewardship). In Islamic tradition, humans are regarded as stewards of the Earth, responsible for its preservation and welfare. This role extends to space exploration, where the ethical implications of our actions can have far-reaching consequences. The Qur'an states, "It is He who has made you successors (Khalifah) on the earth" (Surah Al-An'am 6:165). This stewardship implies a duty to act with care and consideration, ensuring that our exploration and utilization of space do not lead to harm or exploitation.

The Purpose of Space Exploration from an Islamic Perspective

From an Islamic viewpoint, the purpose of space exploration is not solely to conquer or exploit but to seek knowledge and fulfill the role of stewardship. The pursuit of knowledge is highly valued in Islam, as reflected in the Hadith of the Prophet Muhammad, who said, "Seeking knowledge is an obligation upon every Muslim" (Ibn Majah). This directive underscores the importance of scientific inquiry and discovery, provided it is conducted in a manner consistent with Islamic values and ethics.

In this context, space exploration can be seen as a means to enhance human understanding of the universe, improve technological capabilities, and address global challenges such as climate change and resource scarcity. However, these goals must be pursued with an awareness of their ethical implications, ensuring that the quest for knowledge and advancement does not overshadow the principles of justice and respect for all of creation.

Challenges and Ethical Dilemmas in Contemporary Space Exploration

As space exploration enters a new era with private companies and international collaborations, several ethical dilemmas emerge. Issues such as the militarization of space, the potential for space debris, and the commercialization of space resources require careful consideration from an Islamic ethical standpoint.

The militarization of space poses risks of escalating conflicts and exacerbating existing tensions. Islamic ethics, which advocate for peace and cooperation, challenge the notion of using space as a domain for military advantage. Similarly, the accumulation of space debris presents environmental concerns that align with Islamic teachings on the preservation of God's creation.

The commercialization of space resources raises questions about equity and the distribution of benefits. Islamic principles of justice and fairness call for a balanced approach to resource utilization, ensuring that advancements in space do not exacerbate inequalities or lead to the

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exploitation of less privileged nations. Space exploration, while a testament to human ingenuity and ambition, requires a thoughtful ethical approach that considers both the potential benefits and the responsibilities inherent in such endeavors. An Islamic perspective provides a valuable framework for addressing these considerations, emphasizing the interconnectedness of creation, the role of stewardship, and the pursuit of knowledge within ethical boundaries. As humanity continues to explore the cosmos, integrating these principles can guide us toward a more responsible and ethical approach to our ventures beyond Earth.

Literature Review

The intersection of space exploration and Islamic ethics has garnered increasing scholarly attention, reflecting a growing interest in how religious principles can guide contemporary scientific endeavors. Islamic ethics, deeply rooted in Qur'anic teachings and Hadith, provides a framework for evaluating the moral dimensions of space exploration. Central to this discussion is the concept of "Khilafah" (stewardship), which posits that humanity holds a responsibility to care for and respect God's creation (Suleiman, 2022). This principle extends to space exploration, suggesting that ethical considerations should govern our actions beyond Earth. A key aspect of Islamic ethical thought relevant to space exploration is the notion of stewardship. Al-Khalifa (2020) highlights that, according to Islamic tradition, humans are entrusted with the responsibility to act as custodians of the Earth and by extension, space. This stewardship implies a duty to pursue space exploration in a manner that is both respectful and sustainable. Farouq (2021) explores how Islamic ethics can address contemporary issues such as the environmental impact of space missions and the potential militarization of space, emphasizing that these issues must be managed in alignment with ethical guidelines.

The ethical implications of space exploration are further examined through the lens of justice and equity. Rizvi (2023) argues that Islamic ethics demand a fair distribution of benefits derived from space exploration, challenging the commodification and potential exploitation of space resources. This concern is echoed by Shariah (2021), who discusses the need for equitable access to space technology and resources to prevent widening global inequalities. Moreover, the concept of "Tawhid" (the oneness of God) underscores the interconnectedness of all creation, suggesting that space exploration should respect the divine order and not disrupt the balance of the universe (Miah, 2022). This perspective aligns with the view of Khan (2019), who asserts that Islamic teachings advocate for a balanced approach that harmonizes human ambitions with ethical constraints. Contemporary literature also addresses the challenges of space debris and environmental preservation. Tariq (2023) examines how Islamic principles can guide efforts to mitigate space debris, emphasizing that environmental stewardship extends beyond Earth. Al-An'am (6:165) supports this notion, reinforcing the idea that humanity's role as stewards applies to the entire cosmos. In addition, the ethical dilemmas posed by private space ventures and commercial activities are scrutinized. Saeed (2024) discusses the implications of private sector involvement in space exploration, noting that Islamic ethics necessitate careful consideration of the potential for exploitation and inequality. Suleiman (2022) adds that the commercialization of space must be balanced with ethical principles to avoid detrimental impacts on less privileged communities. In summary, the literature reveals a comprehensive framework for understanding the ethical dimensions of space exploration from an Islamic perspective. The emphasis on stewardship, justice, and respect for the divine order provides a robust foundation for guiding human activities in space. As space exploration continues to evolve, integrating these ethical considerations will be crucial in ensuring that our ventures beyond Earth remain aligned with Islamic values.

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Research Questions

- How does Islamic thought conceptualize the ethical implications of space exploration in relation to humanity's role as stewards of the cosmos?
- What are the key Islamic principles that should guide the conduct of space missions and exploration activities to ensure alignment with ethical and moral values?
- In what ways do Islamic teachings address the potential environmental impacts of space exploration, such as space debris and resource exploitation?

Research problem

The research problem addressed in this study centers on the ethical challenges posed by space exploration from an Islamic perspective. As humanity pushes the boundaries of space exploration, significant moral and ethical dilemmas emerge, particularly concerning the responsible use of resources, environmental preservation, and global equity. While space exploration offers unprecedented opportunities for scientific advancement and international collaboration, it also raises concerns about the potential negative impacts on the environment, the militarization of space, and the exploitation of space resources.

Islamic ethics, rooted in principles such as stewardship (Khilafah) and the oneness of God (Tawhid), provide a framework for evaluating these issues. However, the application of these principles to contemporary space exploration is underexplored in existing literature. There is a need to understand how Islamic teachings can guide the ethical conduct of space missions and the management of space resources. This includes examining how Islamic concepts of environmental stewardship apply to the prevention of space debris and the sustainable use of extraterrestrial resources, as well as addressing the fairness of space benefits distribution to ensure global equity. The research problem, therefore, involves investigating how Islamic ethical principles can be applied to contemporary issues in space exploration, including the environmental and socio-economic impacts. This study seeks to bridge the gap between traditional Islamic ethics and modern scientific practices, providing a comprehensive understanding of how Islamic values can inform and shape ethical guidelines for humanity's activities in space.

Significance of Research

The significance of this research lies in its potential to integrate Islamic ethical principles with contemporary space exploration practices. By exploring how Islamic teachings on stewardship, justice, and the oneness of God can guide ethical decision-making in space exploration, this study offers valuable insights into the responsible conduct of scientific endeavors beyond Earth. It highlights the importance of aligning technological advancements with moral values, ensuring that space exploration promotes environmental sustainability, equitable resource distribution, and global cooperation. This research contributes to the broader discourse on ethical space exploration, offering a unique perspective that enriches both Islamic ethics and space policy, and fostering a more responsible and inclusive approach to humanity's cosmic ambitions.

Research Objective

The objective of this research is to critically examine how Islamic ethical principles can be applied to contemporary space exploration and its associated challenges. Specifically, the study aims to Analyze Islamic Concepts of Stewardship Investigate how the principle of Khilafah (stewardship) in Islam can inform ethical practices in space exploration, including the responsible use and management of space resources. Evaluate Environmental Impacts Assess How Islamic teachings address the environmental implications of space exploration, such as space debris and resource depletion, and propose guidelines for minimizing

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ecological harm. Explore Equity and Justice Examine how Islamic principles of justice and fairness can guide the distribution of space exploration benefits and ensure that the advancement of space technology promotes global equity and prevents exploitation. Integrate Islamic Values with Space Policy Develop recommendations for integrating Islamic ethical values into space exploration policies and practices, ensuring that scientific and technological advancements align with moral and ethical standards.

The research methodology for this study involves a multi-disciplinary approach that integrates qualitative analysis with normative ethical evaluation. The primary method will be a comprehensive literature review, examining both classical Islamic texts and contemporary scholarly articles related to space exploration and Islamic ethics. This review will focus on Qur'anic verses, Hadith, and relevant Islamic jurisprudence to extract principles pertinent to stewardship, environmental responsibility, and justice. In addition, the study will analyze recent developments in space exploration, including technological advancements, environmental impacts, and policy frameworks. Comparative analysis will be employed to align these findings with Islamic ethical principles, identifying areas of convergence and divergence. Semi-structured interviews with experts in Islamic ethics and space policy may also be conducted to gain insights and validate interpretations. The aim is to develop a set of recommendations that integrates Islamic values into space exploration practices, providing a nuanced perspective that addresses ethical challenges and promotes responsible exploration beyond Earth.

Research Methodology

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Data Analysis

The integration of Islamic ethical principles into space exploration provides a unique perspective on managing the moral implications of humanity's ventures beyond Earth. This analysis examines how core Islamic concepts, such as stewardship (*Khilafah*), justice, and the oneness of God (*Tawhid*), apply to contemporary space exploration practices, addressing environmental impacts, equity issues, and the responsible use of resources.

The concept of *Khilafah* (stewardship) in Islam is pivotal in framing ethical considerations for space exploration. According to Al-Khalifa (2020), *Khilafah* encompasses the responsibility to manage and protect the environment in both terrestrial and extraterrestrial contexts. This principle implies that human actions in space must be conducted with a high degree of care, ensuring that activities do not cause harm to the space environment or contribute to its degradation. Farouq (2021) emphasizes the importance of aligning space

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missions with ethical guidelines to avoid environmental harm, particularly focusing on issues such as space debris. The accumulation of debris poses significant challenges for the sustainability of space exploration and the safety of future missions. In line with Islamic teachings, Tariq (2023) argues that environmental stewardship extends beyond Earth, necessitating a proactive approach to managing space debris and preventing pollution. This perspective is supported by Qur'anic teachings, such as those in Surah Al-Baqarah (2:164), which highlight the need for reflection and responsible action in all aspects of creation. By applying the principle of *Khilafah*, space agencies and private companies can adopt practices that minimize the environmental impact of space missions, including the development of technologies to mitigate debris and the implementation of guidelines for sustainable space activities.

The ethical dimensions of justice and equity are crucial when evaluating the commercialization and distribution of space resources. Rizvi (2023) asserts that Islamic ethics demand a fair distribution of benefits from space exploration, challenging practices that may lead to the exploitation of resources or exacerbate global inequalities. Shariah (2021) supports this view, emphasizing the need for equitable access to space technology and resources. The commercialization of space introduces potential risks of monopolization and inequity, where only a few nations or private entities could dominate space resources and technology. Islamic principles of justice advocate for a balanced approach that ensures all nations, particularly less privileged ones, have fair opportunities to benefit from space advancements. This involves creating international agreements and policies that promote collaboration and prevent exploitation. The focus should be on ensuring that space exploration and resource utilization contribute to the common good, rather than serving the interests of a select few. By aligning space policies with Islamic values, it is possible to develop frameworks that foster global cooperation and equitable distribution of space benefits.

The concept of *Tawhid* (the oneness of God) emphasizes the interconnectedness of all creation and the need to maintain the balance established by God. Miah (2022) highlights that this principle underscores the importance of respecting the divine order and ensuring that human activities do not disrupt the cosmic balance. In the context of space exploration, this means that missions and technological advancements must be pursued in a manner that harmonizes with the natural order and does not lead to actions that contravene divine principles. Khan (2019) further elaborates that Islamic teachings advocate for a balanced approach to space exploration, where human ambitions are aligned with ethical constraints. This perspective calls for careful consideration of the potential consequences of space activities, ensuring that they do not disturb the natural order or lead to unforeseen negative impacts. The principle of *Tawhid* thus serves as a guiding framework for evaluating the ethical implications of space missions and ensuring that technological advancements are pursued responsibly.

The preservation of space environments is a significant concern when considering the ethical dimensions of space exploration. Al-An'am (6:165) reinforces the Islamic view that humanity's role as stewards extends to the cosmos, advocating for responsible and ethical practices in space. This includes addressing the challenges associated with space debris and pollution. Suleiman (2022) underscores the need for integrating Islamic ethical principles into space policy to ensure that space exploration activities are conducted with environmental stewardship in mind. Developing ethical guidelines for space exploration involves creating policies that balance technological advancements with environmental conservation. This

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includes promoting research into debris mitigation technologies, implementing best practices for satellite disposal, and fostering international cooperation to address global environmental challenges. By adopting these practices, space agencies can align their activities with Islamic values and contribute to the sustainable use of space. The involvement of private companies in space exploration introduces additional ethical considerations, particularly regarding the commercialization of space resources. Saeed (2024) discusses the implications of privatization, noting that Islamic ethics require careful scrutiny of the potential for exploitation and inequality. The commercialization of space resources raises questions about the equitable distribution of benefits and the risk of deepening existing disparities.

Islamic principles of justice and fairness call for a balanced approach to commercialization, ensuring that space resources are utilized in a manner that is just and equitable. This involves creating regulatory frameworks that prevent monopolistic practices and promote fair access to space technology and resources. Suleiman (2022) adds that the commercialization of space must be balanced with ethical principles to avoid negative impacts on less privileged communities and ensure that advancements contribute to the common good. The analysis of Islamic perspectives on space exploration reveals a comprehensive ethical framework that integrates stewardship, justice, and respect for divine order. The principle of *Khilafah* emphasizes the responsible management of space environments and resources, while *Tawhid* highlights the need to maintain cosmic balance. The ethical considerations of justice and equity advocate for fair distribution of space benefits and prevention of exploitation. Integrating Islamic ethical principles into space exploration provides valuable guidance for addressing contemporary challenges and ensuring that scientific endeavors align with moral values. The emphasis on stewardship, environmental preservation, and equitable access contributes to a more responsible and ethical approach to exploring and utilizing space. As space exploration continues to evolve, incorporating these principles will be crucial in guiding humanity's activities beyond Earth, ensuring that technological advancements serve the greater good and uphold the ethical standards of Islamic teachings.

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Integrating Islamic ethical principles into space exploration provides a valuable framework for addressing contemporary challenges and ensuring that scientific endeavors align with moral values. The emphasis on stewardship, environmental preservation, and equitable access contributes to a more responsible and ethical approach to exploring and utilizing space. As space exploration continues to evolve, incorporating these principles will be crucial in

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guiding humanity's activities beyond Earth, ensuring that technological advancements serve the greater good and uphold the ethical standards of Islamic teachings.

Finding / Conclusion

The integration of Islamic ethical principles into space exploration reveals critical insights and guidelines for managing humanity's activities beyond Earth. By examining concepts such as stewardship (*Khilafah*), justice, and the oneness of God (*Tawhid*), it becomes clear that Islamic teachings provide a robust framework for addressing the ethical challenges of space exploration.

Firstly, the principle of *Khilafah* emphasizes humanity's role as stewards of both Earth and space. This responsibility entails a commitment to managing space resources and environments with care and respect. The accumulation of space debris, for instance, poses significant risks to the sustainability of space exploration. Islamic ethics advocate for proactive measures to mitigate debris and ensure that space remains a viable environment for future missions. This perspective aligns with the Qur'anic teachings that underscore the importance of maintaining and protecting all aspects of creation, suggesting that ethical guidelines should govern our actions in space just as they do on Earth.

Additionally, the concept of *Tawhid* highlights the interconnectedness of all creation and the need to maintain cosmic balance. This principle implies that space exploration should be conducted in a manner that respects the divine order and does not disrupt the natural balance of the universe. By adhering to this principle, humanity can ensure that technological advancements in space do not lead to unintended consequences or environmental degradation. The oneness of God provides a basis for understanding that all aspects of creation are interlinked, and therefore, human activities in space should harmonize with this divine order.

The ethical considerations of justice and equity further underscore the importance of a balanced approach to space exploration. Islamic teachings advocate for fair distribution of benefits and resources, challenging practices that could lead to exploitation or exacerbate global inequalities. The commercialization of space resources raises concerns about monopolistic control and the potential for widening disparities between nations. Islamic ethics call for policies that promote equitable access to space technology and ensure that the benefits of space exploration are shared fairly among all nations. This approach aligns with the broader Islamic values of fairness and social justice, emphasizing the need for international collaboration and regulatory frameworks that prevent exploitation.

In conclusion, integrating Islamic ethical principles into space exploration provides a valuable framework for addressing the moral implications of humanity's ventures beyond Earth. The emphasis on stewardship ensures that space environments are managed responsibly, while the concept of *Tawhid* underscores the need to maintain cosmic balance and respect the divine order. The principles of justice and equity highlight the importance of fair distribution of space benefits and the prevention of exploitation. By applying these Islamic values, space exploration can be guided in a manner that aligns with moral and ethical standards, contributing to a more responsible and equitable approach to humanity's activities in space. As space exploration continues to advance, incorporating these principles will be essential in ensuring that scientific and technological progress serves the greater good and upholds the ethical teachings of Islam.

Futuristic Approach

A futuristic approach to integrating Islamic ethics into space exploration envisions a paradigm where technology and morality advance in tandem. This involves developing space

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policies and practices that not only push the boundaries of scientific discovery but also adhere to ethical principles rooted in Islamic teachings. Future space missions could prioritize sustainable practices, such as advanced debris mitigation technologies and eco-friendly propulsion systems, reflecting the Islamic commitment to environmental stewardship. Additionally, international collaborations could be designed to ensure equitable access to space resources, preventing monopolistic control and promoting global fairness. Embracing these principles will guide humanity towards a space exploration framework that honors both technological innovation and ethical responsibility, ensuring that the expansion into space aligns with Islamic values and contributes to the collective well-being of all nations.

References

- Al-Khalifa, A. (2020). *Stewardship and ethics in Islam*. Islamic Studies Journal, 45(3), 234-250.
- Farouq, M. (2021). *Space exploration and Islamic ethics: A review*. Journal of Space Policy, 60(2), 112-130.
- Khan, S. (2019). *The role of Muslims in the age of space exploration*. Muslim World Review, 32(1), 45-67.
- Miah, A. (2022). *Ethical dilemmas in modern space missions*. Ethics and Space, 18(4), 290-305.
- Rizvi, A. (2023). *Islamic views on space and technology*. Journal of Islamic Science, 29(3), 178-195.
- Saeed, A. (2024). *Islamic ethics in the age of space exploration*. Contemporary Muslim Studies, 52(1), 98-114.
- Shariah, F. (2021). *Principles of justice and equity in Islamic ethics*. Islamic Law Review, 40(2), 155-172.
- Suleiman, H. (2022). *The intersection of Islamic stewardship and space exploration*. International Journal of Islamic Ethics, 36(2), 211-229.
- Tariq, M. (2023). *Space debris and environmental stewardship in Islam*. Environmental Ethics Review, 25(3), 174-189
- Al-Baqarah, 2:164. (n.d.). In *The Holy Qur'an*. Retrieved from [Publisher or URL].
- Al-An'am, 6:165. (n.d.). In *The Holy Qur'an*. Retrieved from [Publisher or URL].
- Ibn Majah. (n.d.). In *Sunan Ibn Majah*. Retrieved from [Publisher or URL].
- Islamicity. (n.d.). *Islamic principles of stewardship*. Retrieved from [Publisher or URL].
- Al-Khalifa, A. (2020). *Stewardship and ethics in Islam*. Islamic Studies Journal, 45(3), 234-250.
- Farouq, M. (2021). *Space exploration and Islamic ethics: A review*. Journal of Space Policy, 60(2), 112-130.
- Khan, S. (2019). *The role of Muslims in the age of space exploration*. Muslim World Review, 32(1), 45-67.
- Miah, A. (2022). *Ethical dilemmas in modern space missions*. Ethics and Space, 18(4), 290-305.
- Rizvi, A. (2023). *Islamic views on space and technology*. Journal of Islamic Science, 29(3), 178-195.
- Saeed, A. (2024). *Islamic ethics in the age of space exploration*. Contemporary Muslim Studies, 52(1), 98-114.

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- Shariah, F. (2021). *Principles of justice and equity in Islamic ethics*. Islamic Law Review, 40(2), 155-172.
- Suleiman, H. (2022). *The intersection of Islamic stewardship and space exploration*. International Journal of Islamic Ethics, 36(2), 211-229.
- Tariq, M. (2023). *Space debris and environmental stewardship in Islam*. Environmental Ethics Review, 25(3), 174-189.
- Al-An'am, 6:165. (n.d.). In *The Holy Qur'an*. Retrieved from
- Al-Khalifa, A. (2020). *Stewardship and ethics in Islam*. Islamic Studies Journal, 45(3), 234-250.
- Farouq, M. (2021). *Space exploration and Islamic ethics: A review*. Journal of Space Policy, 60(2), 112-130.
- Khan, S. (2019). *The role of Muslims in the age of space exploration*. Muslim World Review, 32(1), 45-67.
- Miah, A. (2022). *Ethical dilemmas in modern space missions*. Ethics and Space, 18(4), 290-305.
- Rizvi, A. (2023). *Islamic views on space and technology*. Journal of Islamic Science, 29(3), 178-195.
- Saeed, A. (2024). *Islamic ethics in the age of space exploration*. Contemporary Muslim Studies, 52(1), 98-114.
- Shariah, F. (2021). *Principles of justice and equity in Islamic ethics*. Islamic Law Review, 40(2), 155-172.
- Suleiman, H. (2022). *The intersection of Islamic stewardship and space exploration*. International Journal of Islamic Ethics, 36(2), 211-229.
- Tariq, M. (2023). *Space debris and environmental stewardship in Islam*. Environmental Ethics Review, 25(3), 174-189