



**Unveiling the Ecological and Naturalistic Views in Zhuangzi's
Daoism: Exploring the Concept of "The Usefulness of Uselessness"**

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Journal of Psychology & Education • Vol. 1, No. 2 (2026)

DOI: <https://doi.org/10.66581/qe3sex97>

Received 13 March 2026 • Accepted: 23 March 2026 • Published 31 March 2026

CITATION

Liang, T. (2026). Unveiling the Ecological and Naturalistic Views in Zhuangzi's Daoism: Exploring the Concept of "The Usefulness of Uselessness". Journal of Psychology & Education, 1(2). <https://doi.org/10.66581/qe3sex97>

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Abstract

This study delves into Zhuangzi's philosophy to uncover the ecological and naturalistic views it presents. The focus is on understanding the concept of "The Usefulness of Uselessness" and its implications for environmental conservation and sustainable development. Through literature analysis and conceptual interpretation, the original texts of Zhuangzi are examined to explore his discussions on nature, ecology, and "The Usefulness of Uselessness." Their relevance to the ecological environment is revealed by comparing and analyzing these concepts. The findings suggest that Zhuangzi's philosophy aligns with contemporary ecological perspectives, emphasizing the inherent functions of all things in nature, even those that may appear useless. These seemingly useless elements play a vital role in maintaining ecological balance and ecosystem health. Zhuangzi advocates for humility, harmony with nature, and the responsible use of natural resources, promoting sustainable development of the ecological environment. The insights provided by Zhuangzi's philosophy can inspire modern environmental conservation and sustainable development practices. By appreciating the value of seemingly useless organisms and phenomena in the natural world and recognizing their significance to the ecosystem, people can adopt Zhuangzi's approach of "acting without action." This mindset fosters a humble and rational co-existence with nature, promoting harmonious and sustainable ecological development.

Keywords: Zhuangzi; ecological philosophy; The Usefulness of Uselessness;

view of nature; sustainable development

1. Introduction

Ecological protection is a pressing concern in modern society, necessitating the exploration of sustainable strategies. Zhuangzi's philosophy, an integral component of ancient Chinese philosophy, offers profound insights into ecological ethics, including concepts of harmonious co-existence with nature, respect for the equality of life, adherence to natural laws, and the unity of knowledge and action (Rahman, 2022; Wang, 2023). Given the escalating ecological crisis, it is crucial to draw inspiration from Zhuangzi's philosophy regarding ecological protection and examine its practical implications.

Both domestic and international scholars have extensively researched and discussed the ecological ethics found in Zhuangzi's philosophy. In China, Zhang Ke (2022) explored Heidegger's interpretation of the section "Observing Fish on the Háo" in the book *Zhuangzi* in the journal *Philosophical Research*, investigating the connection between the joy of fish and the fundamental nature of truth. Wang (2022) argues that Zhuangzi's emphasis on "uselessness" aims to advocate for a dialectical perspective on the relationship between utility and futility. In situations resembling Zhuangzi's predicament, where we face powerlessness against adversity, displaying our usefulness becomes futile and potentially detrimental. Instead, adopting Zhuangzi's approach of concealing our abilities and patiently waiting allows us to be

useful without actively seeking acknowledgment. Paradoxically, this practice of embracing “uselessness” actually yields greater effectiveness and utility. Embracing “uselessness” enables the realization of even greater utility, exemplifying the essence of the concept known as “The Usefulness of Uselessness.” According to Liu (2022), in examining the significance of “The Usefulness of Uselessness,” it is argued that Zhuangzi’s acceptance of his place in the world stems from his reverence for the natural order, leading to a profound emotional connection with life. This perspective resonates with certain elements of Confucian thought (Liu, 2022). In foreign scholarship, Mishra (2022) highlighted that Zhuangzi’s debates with Huizi or other individuals in this book are founded on his utilization of the perspectives of “is” or “is not”. Rošker (2023) performed an analysis centered on the notions of “self,” “transcendence,” and “truth” and reached the conclusion that Chinese thought diverges from Western thought in its interpretation of the concept of “self.” Rather than perceiving the self as a purely individual and autonomous entity, Chinese thought situates it within a specific domain.

In conclusion, the current research on the ecological ethics of Zhuangzi’s philosophy exhibits certain limitations. Firstly, the current research on the ecological ethics perspective of Zhuangzi’s philosophy is primarily confined to the theoretical realm, with a notable dearth of comprehensive investigations into its practical applications. Secondly, both domestic and international scholarly endeavors have yet to establish a cohesive research framework and methodological system. To rectify

these issues, it is imperative to enhance academic exchanges and foster collaborations, thereby facilitating the exploration and implementation of Zhuangzi's philosophy in the realm of ecological conservation. In light of these considerations, this study highlights the imperative of integrating Zhuangzi's ecological ethics perspective with modern science and technology while simultaneously emphasizing the exploration of practical applications. Moreover, it aims to establish a more comprehensive research framework and methodological system. By conducting thorough research and engaging in practical endeavors, this study aims to explore the significance of Zhuangzi's philosophy in ecological conservation. Through these efforts, it strives to make substantial contributions to promoting sustainable development and fostering the construction of an ecological civilization.

2. Ecological View in Zhuangzi's Daoist Philosophy

(1) An overview of Zhuangzi's philosophical thought

Zhuangzi (369 BC - 286 BC) stands as a prominent philosopher and writer from ancient China. His philosophical ideas align with the Daoist school of thought, and he is respectfully recognized as Zhuangzi (Espinoza, 2022). Zhuangzi's philosophy is intricately linked with his renowned work, "Zhuangzi," considered a significant Daoist classic (Liu, 2022). Central to his philosophy is the exploration of human existence and its intricate relationship with nature, emphasizing the pursuit of freedom, the transcendence of worldly constraints, and the importance of harmonious co-

existence with the natural world (Li, 2022). A concise summary of Zhuangzi's philosophical ideas is presented in Table 1 (Chung, 2023; Singh, 2023; Lai, 2022).

Table 1 Main content of Zhuangzi's philosophical thought

Zhuangzi's point of view	Interpretation and meaning	Application field	Related concepts
Pursue Dao	Zhuangzi's philosophical perspective posits that Dao serves as the fundamental and governing principle of the universe, emphasizing the importance of humans attaining unity with the Dao.	Ecology, philosophy	Natural law, ecological wisdom, ecological ethics
Acting without action	Zhuangzi advocates for individuals to relinquish utilitarianism, desires, and artificial intervention and instead embrace a non-interfering attitude towards life, aligning themselves with the natural Wu Wei (non-interference or non-action).	Ecology, psychology	Ecological agriculture, natural restoration, low-carbon life
Equality and	All things in the universe are	Ecoethics,	Environmental

selflessness regarded as equal and sociology, justice, ecological undifferentiated. Individuals philosophy equality, social are encouraged to transcend equity the limitations of the self and merge harmoniously with the entirety of the universe.

Reflection and illusionary realm Zhuangzi employs fables to articulate humanity's contemplation of reality and critique of illusion. Philosophy, psychology, environmental education Ecological reflection, environmental awareness, sustainable lifestyle

Aesthetic appreciation and liberated state of mind Zhuangzi's literary works embody the quest for the beauty of nature and the realm of life, emphasizing the significance of aesthetic experiences and a liberated state of mind. Aesthetics, literature, environmental art Ecological aesthetics, environmental literature, natural art

(2) Importance and significance of the ecological view of nature

The ecological view of nature encompasses recognizing and comprehending the interconnectedness and interdependence of the natural world, emphasizing the harmonious co-existence between humans and nature (Jumanov & Tolibjonovna, 2022). The importance and significance of adopting an ecological view of nature can

be summarized as outlined in Table 2 (Bakhronovna, 2022; Abduganiev & Makhkamov, 2022).

Table 2 Importance and significance of the ecological view of nature

Importance	Interpretation	Significance
Maintaining ecological balance	The ecological view of nature emphasizes the importance of ecosystem stability and health. Changes in organisms or environmental elements can have ripple effects on the entire ecosystem.	Recognizing and maintaining ecological balance is crucial for the long-term survival and well-being of both humans and the natural world.
Promoting sustainable development	The ecological view of nature highlights the interconnection between ecological environments and human society. It advocates for sustainable development that respects nature and ensures the responsible use of resources.	Promoting sustainable development based on the ecological view of nature is essential for preserving ecosystems, protecting biodiversity, and ensuring human well-being for present and future generations.
Enhancing ecological ethics	The ecological view of nature promotes respect and care for the natural world. It emphasizes human responsibility in	Embracing ecological ethics encourages sustainable behaviors, responsible decision-making, and the conservation of

	protecting and preserving the environment.	natural resources, safeguarding the integrity and stability of ecosystems.
Raising ecological awareness	The ecological view of nature fosters a deeper understanding and awareness of the environment. It raises concerns about environmental issues and inspires action.	Promoting ecological awareness is essential for inspiring positive change in behavior, encouraging environmentally friendly lifestyles, and addressing pressing environmental challenges.

(3) Zhuangzi’s discussion on ecological nature

In the study of Zhuangzi’s philosophy, the exploration of ecological and naturalistic perspectives revolves around his profound understanding of nature and his contemplation of the intricate relationship between humans and the natural world. This discourse encompasses various aspects, which are summarized as Table 3 (Ennen, 2022; D’Ambrosio, 2023).

Table 3 Zhuangzi’s views on ecological philosophy

Zhuangzi’s Views	Discourse
Natural Wu Wei	Learn from the natural state of Wu Wei, avoiding excessive intervention and alteration of nature’s inherent state.
The Usefulness of	Emphasize the significance of seemingly useless organisms

Uselessness	and phenomena for the ecological system.
Natural self-sufficiency	Pursue natural self-sufficiency and freedom, renouncing excessive pursuit of material wealth and utilitarian behavior.
Harmony with nature	Adapt to the natural laws and rhythms, and coexist harmoniously with nature.

3. Connotation of Zhuangzi’s “Uselessness of the Useful” Thought

(1) Analysis of the concept of “The Usefulness of Uselessness.”

First, “The Uselessness of the Useful” is a prominent concept within Zhuangzi’s philosophical framework. It serves to illustrate the existence of entities or actions that may initially seem devoid of utility but hold significant roles and functions in the natural realm. This concept finds extensive mention and elaboration in Zhuangzi’s renowned work, *Zhuangzi: Free and Easy Wandering* (Ding & Yu, 2022). Zhuangzi further elucidates the notion of “Uselessness of the Useful” through the use of fables and metaphors. By drawing examples from the natural world, he elucidates the distinctive functions and roles played by organisms and phenomena within the intricate fabric of the natural system. Despite their outward appearance of insignificance, these entities are indispensable for the maintenance of ecological equilibrium and the proper functioning of ecosystems (Ko, 2019).

Second, the concept of “Uselessness of the Useful” embodies the idea of manifestation and withdrawal as an integrated thought. Zhuangzi put forward the notion of manifestation and withdrawal, stating that the world’s manifestation and

withdrawal are interdependent and mutually reinforcing. Within this thought, the “Uselessness of the Useful” represents the aspect of withdrawal, where things or behaviors that may seem useless play essential roles in a state of withdrawal. Just like some overlooked organisms and phenomena in the natural world, they may not flaunt themselves but contribute and influence the entire ecosystem in their unique way. Through the concept of “Uselessness of the Useful,” Zhuangzi expresses the complementary nature of manifestation and withdrawal, reminding people to recognize and cherish those seemingly useless existences.

Third, the concept of “Uselessness of the Useful” within Zhuangzi’s natural philosophy entails the transformative potential of the seemingly useless. Zhuangzi’s perspective on nature underscores the significance of transformation, whereby things or behaviors that may appear devoid of utility can be imbued with usefulness. According to Zhuangzi, aligning oneself with the inherent laws and rhythms of nature is vital, fostering a harmonious co-existence with the natural world. Through profound comprehension and reverence for the diversity and distinctiveness of nature, individuals can effectuate the conversion of ostensibly futile elements into valuable contributions to the ecosystem. This transformative outlook holds profound implications for the sustainable development of ecology, guiding proactive engagement in environmental preservation and sustainable practices. By achieving a harmonious co-existence between humans and nature, this perspective paves the way for the preservation and flourishing of our shared environment.

(2) Multifaceted significance of Zhuangzi's "Uselessness of the Useful."

1) "Non-worldly and non-utilitarian use."

The concept of "Uselessness of the Useful" in Zhuangzi's philosophy challenges the prevailing emphasis on secularization and utilitarianism during his time. Zhuangzi lived in an era where both objects and individuals were predominantly valued for their practicality and utilitarian functions. Various social classes, including craftsmen and figures like Huizi and Nanbo Ziqi, viewed things from a utilitarian perspective, assessing their worth based on these criteria. In one instance, Zhuangzi, in the form of an oak tree, illustrated the potential risks faced by individuals like Ziqi, who were considered "materially useful." In contrast, he highlighted the peaceful existence and freedom attained by "ornamental trees" that served no practical purpose (Mickey, 2019). Zhuangzi's exploration of the "Uselessness of the Useful" challenges the narrow utilitarian viewpoint of his time, inviting a deeper reflection on the value and significance of things beyond their mere practical utility.

2) "Transcending perspectives and overcoming limitations of use."

The concept of "use" extends beyond narrow perspectives and limitations. It encompasses both utilitarian and humanistic viewpoints, converging to a broader perspective that reveals their inherent interconnectedness. In this broader context, seemingly "useless" entities can be understood as having latent value. Zhuangzi emphasizes the importance of considering the whole, enabling us to unlock the full potential of these seemingly unremarkable elements. Nothing in the world is truly

devoid of purpose; rather, it is our limited subjective consciousness that fails to recognize the value within. Evaluating something as “useful” should not be solely based on its practicality in human activities. Even the most seemingly insignificant entities possess inherent equality. Zhuangzi rejects confined and specific forms of utility, urging us to transcend narrow perspectives and seek a use that encompasses diverse viewpoints. From alternative angles, objects that may initially appear useless can acquire profound significance. It is crucial to refrain from assessing the usefulness or uselessness of individuals, objects, or life solely based on subjective intentions and biases. Only by doing so can we avoid perceiving fragments of reality and truly grasp their holistic richness (Wu, 2022).

3) Dialectical unity of usefulness and uselessness

The terms “useful” and “useless” are often juxtaposed to indicate the presence or absence of value or significance. Understanding the dialectical relationship between these concepts involves exploring two distinct levels. Firstly, at the subjective level, factors that fulfill individual human needs are considered “useful,” whereas those that fail to fulfill such needs are labeled as “useless.” This dichotomy reflects the intricate interplay between subjective human needs and objective necessities. This set of contradictions exhibits two key attributes: contradictory unity and contradictory opposition. “Useful” and “useless” represent two contrasting aspects that coexist, interact, permeate, and encompass each other. Notably, under certain circumstances, these two aspects can undergo a transformation, transitioning from one to the other. In

essence, “useful” and “useless” are mutually dependent, forming an interconnected dynamic (Khoirunnisaa & Widyastuti, 2022).

Furthermore, the demarcation between “useful” and “useless” is not absolute or fixed. On the one hand, usefulness and uselessness are indeed contradictory and mutually exclusive. In the realm of practicality, a useful path and a useless path stand in opposition to one another, constituting an unalterable contradiction. The notions of possession and absence are employed to ascertain the value of something. However, from another standpoint, these two contradictions also possess a mutually exclusive and opposing relationship. An interdependent and permeating connection exists within the realm of their co-existence. The transformation and transition between these opposing forces occur precisely due to their contradictory nature. Hence, usefulness and uselessness are complementary; without “uselessness,” there would be no “usefulness,” and uselessness serves as the foundation or prerequisite for usefulness. In addition, “useful” and “useless” rely on each other and remain unaffected by one’s perception of “uselessness”; without “uselessness,” there would be no “usefulness.” This concept can be metaphorically compared to a road that serves a purpose and a road that lacks purpose. As Zhuangzi aptly conveyed, both roads would be dug three feet deep, leaving only one road in the end. Nevertheless, this remaining road would lose its initial purpose. Therefore, whether in theory or in practical life, it is impossible to disentangle the interdependent relationship between “useful” and “useless.” The notions of possession and uselessness can permeate one

another and undergo transformation. As Zhuangzi expounded, a valuable path must be built upon a path without value, and a path without value can also be transformed into a valuable one. If a useful path does not receive adequate utilization, it will eventually lose its value (Hu, 2022).

(3) The Concept of “The Usefulness of Uselessness” and Zhuangzi’s ideological system

1) “The Usefulness of Uselessness” and Zhuangzi’s epistemology

The concept of “The Usefulness of Uselessness” in Zhuangzi’s philosophy is intricately linked to his epistemology, forming a harmonious and complementary relationship within his overarching philosophical system. Zhuangzi’s epistemology places emphasis on the interplay between subjective consciousness and the objective world, asserting that human comprehension is hindered by subjective biases and preconceived notions, thereby impeding a complete apprehension of the essence of objective phenomena. Zhuangzi argues against the excessive pursuit of utility and practicality, cautioning against an exclusive focus on superficial aspects while disregarding the intrinsic value inherent in all things. This predilection for utility and utilitarian thinking gives rise to deviations and misconceptions in our understanding of reality.

In contrast, the concept of “The Usefulness of Uselessness” serves as a reminder to transcend utilitarian perspectives and approach phenomena with an open and receptive mindset. Zhuangzi employs this concept to elucidate the distinctive

functions and roles that seemingly futile entities or actions play within the natural world, underscoring their value and significance within the broader ecological system. This notion aligns with Zhuangzi's epistemology, as it highlights how subjective biases and utilitarian viewpoints restrict our ability to grasp the true essence and inherent worth of things.

Ultimately, through the concept of "The Usefulness of Uselessness," Zhuangzi presents a realm that transcends utilitarian perspectives, encouraging a holistic approach that encompasses both the external manifestations and the internal nature and effects of phenomena. Zhuangzi contends that only by observing and understanding things with an open and detached mindset can individuals begin to approach the authentic essence of phenomena and attain genuine comprehension (Harte, 2022).

In conclusion, the concept of "The Usefulness of Uselessness" and Zhuangzi's epistemology harmoniously intertwine, supporting and reinforcing one another. "The Usefulness of Uselessness" serves as a reminder to transcend utilitarianism, urging individuals to adopt an open-minded approach to observing and comprehending the intrinsic nature of things. This cognitive attitude, which transcends utilitarian perspectives, aligns with Zhuangzi's epistemological stance on the interplay between subjective consciousness and the objective world. Collectively, these ideas form a crucial component of Zhuangzi's philosophical system.

2) "The Usefulness of Uselessness" and Zhuangzi's ideal realm

The concept of “The Usefulness of Uselessness” in conjunction with Zhuangzi’s ideal realm constitutes the exploration and portrayal of a philosophical domain within Zhuangzi’s philosophy. Firstly, Zhuangzi’s notion of “The Usefulness of Uselessness” underscores the need to transcend utilitarianism, recognizing and comprehending the profound value and intrinsic functions of seemingly useless phenomena. Zhuangzi contends that excessive emphasis on utility and practicality leads people to fixate solely on surface-level appearances, disregarding the essence and profound significance of things. The true ideal realm transcends utilitarian perspectives, inviting an open mindset to observe, understand, and grasp the essence of life and the universal Dao. Secondly, within Zhuangzi’s ideal realm, individuals surpass the confines of utilitarianism and pursue inner tranquility and freedom. They embody a transcendent state of mind, capable of transcending the fluctuations of joy, anger, sorrow, and pleasure and maintaining equanimity when faced with worldly matters. In this ideal realm, individuals can savor the beauty of existence and unravel the mysteries of the universe while harmoniously coexisting with nature. They relinquish the pursuit of external fame and gain, focusing instead on inner cultivation and spiritual elevation. They approach all matters with tolerance and equanimity, liberating themselves from the entanglements of utilitarianism and desires, thereby attaining inner peace and liberation. Lastly, the link between “The Usefulness of Uselessness” and Zhuangzi’s ideal realm lies in Zhuangzi’s conviction that through transcending utilitarian perspectives and adopting an open-minded approach to

comprehending the essence of things, individuals can gradually progress towards this ideal realm. Embracing the concept of “The Usefulness of Uselessness,” individuals transcend the limitations of utilitarianism, freeing themselves from the entanglement of superficial interests. Instead, they prioritize inner cultivation and spiritual elevation. Such a realm empowers individuals to transcend restlessness and turmoil, attaining a state of inner tranquility and equanimity. This state of being aligned with Zhuangzi’s pursuit of freedom, non-action, and desirelessness, ultimately led to the realization of his philosophical ideals (Kreis, 2023).

(4) The relationship between “The Usefulness of Uselessness” and ecological protection

The concept of “The Usefulness of Uselessness” has a significant relationship with ecological conservation, highlighting the critical functions and significance of seemingly useless elements within the ecosystem. The connection between “The Usefulness of Uselessness” and ecological conservation is presented in Table 4.

Table 4 The relationship between “The Usefulness of Uselessness” and ecological protection

Aspect	Relation
Shift in values	Remind people to transcend utilitarian perspectives, recognizing the unique roles and functions of all existences in nature, promoting respect and conservation of the ecological environment
Ecological balance	Emphasize the important role of seemingly useless things or actions in maintaining ecological balance and stability, promoting

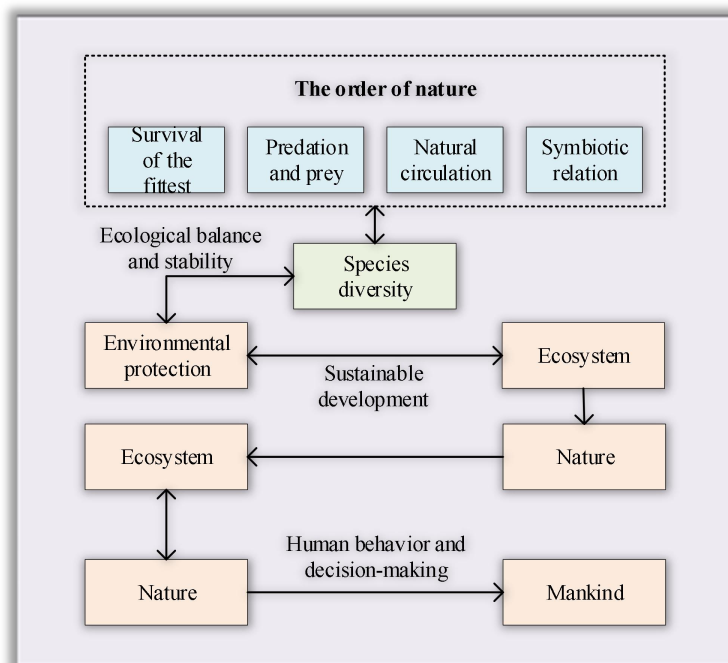


Figure 1: The Relationship between ecological balance and natural laws in the natural world

Figure 1 visually represents the intricate relationship between diverse natural laws and the maintenance of ecological balance in the natural world. The influences of different natural laws on ecological balance are further elucidated in Table 5, which highlights their respective roles and contributions.

Table 5 Effects of different natural laws on ecological balance in the natural world

Natural law	Effects and roles
Survival of the fittest	Organisms that adapt to the environment are more likely to survive and reproduce offspring. Organisms not well adapted to the environment face the risk of competition failure and extinction.

	Maintain the adaptability and diversity of biological populations, promoting species evolution and ecological adaptability.
	Maintain the balance and stability of ecosystems, preventing over-reproduction of a particular species that can lead to ecological imbalance.
Predator-prey relationship	Predators obtain energy and nutrients by preying on other organisms, maintaining the stability of food chains and food webs. Prey limits the growth of predators, controlling the relative stability of species populations. Balance the populations of organisms at different levels in the food chain, avoiding over-reproduction or extinction of a particular species, and maintaining ecological balance.
Natural cycles	Processes such as the water cycle, carbon cycle, and nitrogen cycle enable the recycling of matter in the biosphere. Maintain a balance between various components, ensuring stability in the material cycles within ecosystems. Provide nutrient supply and energy conversion, supporting biological growth and ecosystem functioning.
Symbiotic relationships	Interdependence between different species that promotes species diversity and ecosystem stability. Examples include pollination relationships between plants and bees and symbiotic relationships between trees and fungi. Provide opportunities for mutualistic symbiosis, increasing species adaptability and survival chances, maintaining diversity and stability

of ecosystems.

(2) The impact of “The Usefulness of Uselessness” on the ecosystem

Zhuangzi’s concept of “The Usefulness of Uselessness” has significant implications for the ecosystem, as depicted in Figure 2.

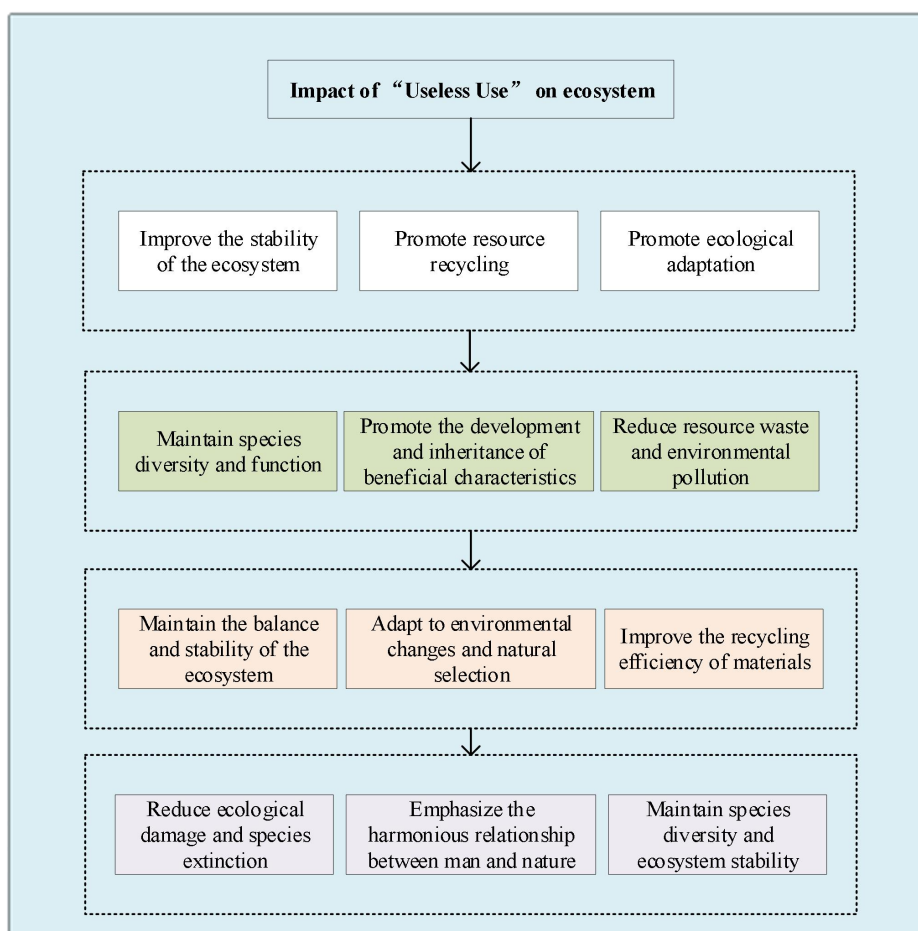


Figure 2: The impact of “The Usefulness of Uselessness” on ecosystems

Figure 2 illustrates the multi-level role of “The Usefulness of Uselessness” in the ecological environment. Firstly, “The Usefulness of Uselessness” significantly contributes to maintaining biodiversity, ecosystem functions, and overall stability. Secondly, the active utilization of seemingly useless elements promotes resource recycling, reducing resource waste and environmental pollution. Additionally,

harnessing the potential of “useless” components enhances resource reuse and adaptability to the environment, further bolstering ecosystem stability. Notably, while upholding biodiversity and ecosystem stability, the concept of “Useless” emphasizes the harmonious interaction between humanity and nature, leading to reduced consumption of biological resources. Collectively, these aspects support the ecosystem’s healthy and sustainable development.

(3) Ecological ethics viewpoint in Zhuangzi’s philosophy

Zhuangzi’s philosophy highlights the significance of harmonious co-existence between humans and nature, along with a deep sense of reverence and respect for the natural world. Figure 3 presents several key ecological ethics viewpoints within Zhuangzi’s philosophy.

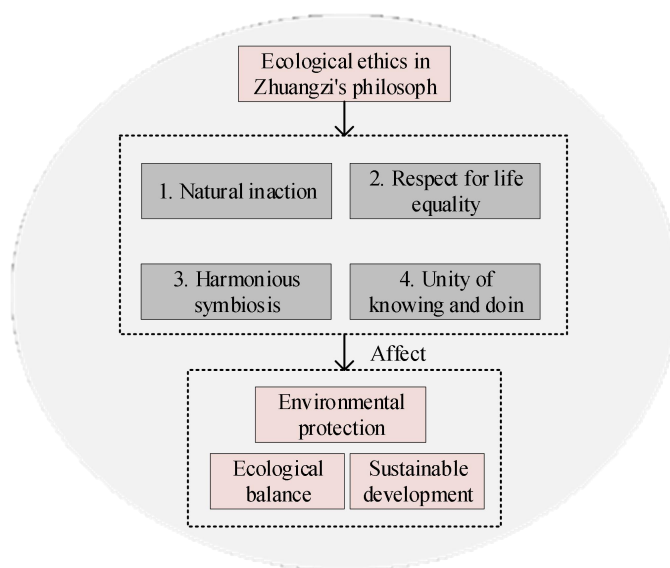


Figure 3: Display of ecological ethics in Zhuangzi’s philosophy

Building upon these principles, Zhuangzi’s ecological ethics framework focuses on environmental protection, promoting ecological balance, and striving for

sustainable development. He emphasized the importance of protecting and respecting all living beings to maintain ecological balance. Additionally, Zhuangzi emphasized the relationship between humans and their environment, as well as interpersonal relationships, highlighting the need to view objects not merely as objects but as interconnected entities. He advocated the “unity of knowledge and action,” promoting experiential communication with nature to gain insights into its wisdom and achieve harmony between humans and the natural world. Building upon these principles, Zhuangzi proposed an ecological ethics framework that prioritizes environmental protection, ecological balance, and sustainable development.

5. Enlightenment and Application of Zhuangzi’s Philosophy

(1) Challenges of modern ecological protection and sustainable development

Modern ecological protection and sustainable development encounter various challenges that necessitate attention and action. The principal challenges include the following key issues:

1) Climate change

Climate change stands as one of the paramount challenges of our era. The emission of greenhouse gases and widespread deforestation contribute to climatic warming, rising sea levels, and other consequential phenomena, profoundly affecting ecosystems and human society at large.

2) Biodiversity loss

The escalation of species extinction and the erosion of biodiversity represents another critical challenge. Human activities, such as habitat destruction, overfishing, and illegal wildlife trade, have inflicted severe harm upon species and ecosystems in the natural world.

3) Overexploitation of natural resources

The excessive utilization of natural resources by humans, including over-extraction of water resources, over-cultivation of land, over-fishing, and more, has resulted in resource depletion and ecosystem degradation. These practices pose significant challenges to the sustainable development of human societies.

4) Urbanization and land development

The process of urbanization, characterized by extensive land development, construction, and industrialization, significantly impacts the natural environment. The effects of urban expansion, industrial pollution, and land conversion present substantial challenges to the integrity and functionality of ecosystems.

5) Socioeconomic inequalities

Socioeconomic inequalities magnify the challenges of achieving sustainable development. Issues such as the unequal distribution of resources, poverty, and social exclusion contribute to heightened obstacles in the realms of ecological protection and sustainable development.

(2) The ecological significance of Zhuangzi's philosophy

Zhuangzi's philosophical ideas hold substantial relevance for ecological

conservation. Central to his philosophy is the concept of “harmony,” which focuses on the interconnectedness between “humans” and “nature” as well as between “objects” and “objects.” Zhuangzi advocates for “equality among all living beings” and places great emphasis on the preservation and reverence of diverse organisms in nature to uphold biodiversity and ecological equilibrium. Moreover, Zhuangzi’s notion of Wu Wei serves as a guiding principle for the development of the natural world, discouraging excessive manipulation or alteration of nature. In practical terms, he emphasizes the unity of “knowledge” and “action,” seeking to gain insight into the wisdom of nature through personal experiences and interactions with the natural world.

Furthermore, Zhuangzi’s philosophical ideas offer valuable guidance for fostering harmonious co-existence between human beings and nature, preserving biodiversity, and achieving sustainable development. In essence, Zhuangzi’s ecological thinking serves as a constant reminder to respect nature, seek harmony between humanity and the natural world, uphold the equality of all life forms, adhere to the laws governing nature’s evolution, and gain profound insights into the intricacies of nature through personal experiences and interactions. Such awareness of the interplay between humans and nature holds significant practical implications for protecting the natural environment, preserving ecological balance, and realizing sustainable development.

(3) Practical applications and promotion of Zhuangzi’s philosophy

The practical applications and dissemination of Zhuangzi's philosophy encompass a range of areas. Firstly, Zhuangzi's philosophical ideas serve as a crucial theoretical foundation for contemporary ecological conservation and sustainable development. Integrating Zhuangzi's ecological concepts with moral values can foster environmental protection, restoration, and sustainable economic and social development. Secondly, Zhuangzi's teachings hold enlightening significance for individual physical and mental development. By drawing inspiration from the path of self-cultivation and nurturing the mind depicted in the *Zhuangzi*, it becomes possible to alleviate stress, enhance the quality of life, and facilitate personal growth. Furthermore, Zhuangzi's philosophy, which places a strong emphasis on creativity, holds practical relevance in educational settings and entrepreneurial endeavors. Such applications serve to nurture creativity among students and practitioners while also contributing to societal progress and development. Lastly, Zhuangzi's advocacy for "intrinsic freedom" and "self-growth" is conducive to mental liberation, personal growth, and the improvement of individual happiness and life quality. By incorporating Zhuangzi's philosophy into real-life contexts, individuals can benefit from the wisdom and values it embodies, thereby promoting social harmony and overall development.

6 Conclusion

This study delves into the significance of Zhuangzi's philosophy in the realm of

ecological conservation. Through an examination of Zhuangzi's ecological ethics, the study reveals the profound implications and guiding principles that his philosophical ideas offer for contemporary ecological conservation. Zhuangzi emphasizes the importance of harmonious co-existence between humans and nature, reminding individuals to respect the natural world, protect ecosystems, and strive for balance and symbiosis between humanity and nature. The philosophy emphasizes equal respect for all life forms, emphasizing the need to protect and show reverence towards diverse organisms in the natural world, thereby preserving biodiversity and maintaining ecological balance. Zhuangzi's concept of Wu Wei guides individuals to align with the natural laws of development, discouraging excessive interference or alteration of biological systems while preserving the autonomy and spontaneity of nature. The philosophy also highlights the unity of knowledge and action, encouraging individuals to gain insights into the wisdom of nature through personal experiences and interactions with the natural world. Zhuangzi's philosophical ideas provide valuable perspectives for modern ecological conservation. However, it is vital to acknowledge the limitations of this study, which warrant further integration of contemporary science and technology to expand the application of Zhuangzi's philosophy. Moving forward, continued research and practical implementation of Zhuangzi's ecological, ethical viewpoints will facilitate their integration into contemporary ecological conservation practices and the exploration of scientifically sound and feasible strategies for ecological preservation. Through ongoing comprehensive research and

practical implementation, individuals can effectively draw upon Zhuangzi's philosophical ideas, making significant contributions to the protection and sustainable development of the ecological environment.

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