



## **Influence of Geography on the Formation of Ancient Civilizations: An Analysis of the Role of the Natural Environment in the Development of Early Societies**

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### **ABSTRACT**

This article examines the role of geography in the formation of ancient civilizations such as Egypt, Mesopotamia, the Indus Valley, and China. By analyzing environmental factors such as rivers, fertile soil, climate, and geographic location, we demonstrate how these factors acted as primary drivers in the development of agriculture, trade, and social organization. The research methodology of this article is based on historical-geographical analysis utilizing library resources, historical documents, and archaeological data. The findings indicate that rivers, as vital arteries, enabled sustainable agriculture and trade, while climate and fertile soil contributed to economic and population growth. Furthermore, strategic geographic locations acted as key factors in shaping political boundaries and cultural interactions. This article concludes that geography not only served as an environmental factor but also acted as a driving force in the evolution of human societies. Future research is suggested to focus on the impact of geography on lesser-known civilizations and the role of technology in overcoming geographical limitations.

**Keywords:** Geography, Ancient Civilizations, Rivers, Climate, Fertile Soil, Geographical Location

### **INTRODUCTION**

Geography has always played a fundamental role in the formation and development of ancient civilizations. Environmental factors such as geographical location, water resources, climatic conditions, and geological features had a direct impact on settlement patterns, livelihoods, and the advancement of early societies. For instance, major civilizations, including Mesopotamia, Ancient Egypt, the Indus Valley, and Ancient China, emerged along large riverbanks, underscoring the significance of water resources in their development (Angelakis et al., 2020a). Archaeological studies and historical geography have demonstrated that favorable environmental conditions—such as fertile soil, a suitable climate, and access to natural resources—played a crucial role in the formation and sustainability of civilizations (Yar et al., 2022).

For instance, the region of Shahdad in Iran, despite its proximity to the Lut Desert, hosted an advanced civilization in the fourth millennium BCE due to the availability of water resources and suitable soil (Eskandari et al., 2021). However, adverse environmental factors could also lead to the decline or displacement of civilizations. Climate change, droughts, floods, and other natural disasters have significantly impacted the social and economic structures of societies, sometimes even leading to their collapse. For example, changes in river courses or the depletion of water resources have often forced populations to abandon settlements and migrate to more hospitable regions (Ibarrarán et al., 2009).

Although much research has been done, there is still a lack of understanding regarding the geographical differences between civilizations and their impact on social development. Many studies focus on well-known civilizations, while lesser-known civilizations are often overlooked. This research aims to fill this gap by exploring more deeply the influence of geography on lesser civilizations.

The novelty of this research lies in the historical-geographical analysis approach that combines archaeological data, historical documents, and library resources. In this way, this research will not only provide new insights into better-known ancient civilizations but will also help expand the scope of research into less explored civilizations.

The purpose of this research is to analyze the role of geography in the formation and development of ancient civilizations, focusing on factors such as rivers, climate, fertile land, and strategic location. It also aims to understand how early societies adapted to the challenges of their environment. The benefits of this research are extensive. Besides contributing to the academic understanding of human history, the results of this research can also be used to build awareness regarding the importance of the environment in the development of modern societies. By understanding history, we can be wiser in managing natural resources and preparing for future environmental challenges.

## **RESEARCH METHODS**

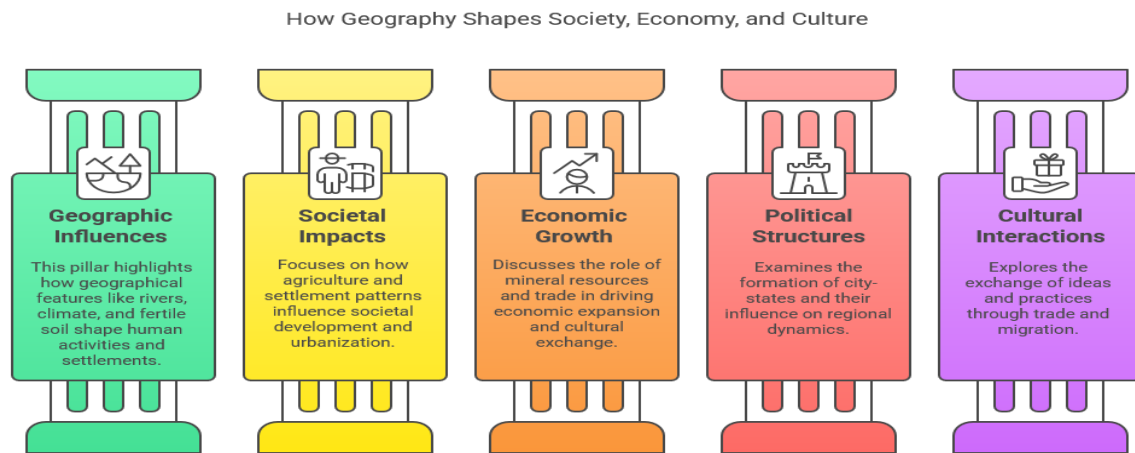
Geography, as one of the fundamental factors in the formation and development of ancient civilizations, has played a decisive role in shaping political, economic, and cultural structures. The natural environment, including rivers, mountains, climate, and natural resources, has not only influenced settlement patterns and livelihoods but also acted as a key driver in the development of civilizations (Chew & Sarabia, 2016). For example, great civilizations such as ancient Egypt, Mesopotamia, the Indus Valley, and ancient China all emerged in specific geographic regions that provided access to water resources, fertile soil, and strategic locations (Long, 2022). This highlights that geography not only served as an environmental factor but also acted as a driving force in the evolution of human societies.

This article aims to analyze the role of geography in the formation and development of early civilizations. By examining the impact of geographical factors such as rivers, climate, soil, and strategic locations, this paper demonstrates how the natural environment acted as a key factor in the development of agriculture, trade, social organization, and cultural interactions. This analysis contributes to a better understanding of the relationship between humans and the natural

environment, highlighting how early societies adapted to their environmental challenges and opportunities (Alberti & Marina, 2003).

This paper seeks to answer the following questions:

1. How have geographical factors such as rivers and climate influenced the formation of civilizations?
  - For instance, how did the Nile River in ancient Egypt and the Tigris and Euphrates rivers in Mesopotamia contribute to the development of agriculture and trade?
  - How did the hot and dry climate of ancient Egypt and the temperate climate of ancient Greece impact settlement patterns and economic activities?
2. What are the differences in the impact of geography on various civilizations?
  - How did the geographical location of Phoenician civilization in maritime trade differ from the mountainous location of ancient China?
  - What roles did the fertile soils of the Indus Valley and the mineral resources of ancient Persia play in economic and industrial development?



**Figure-1. The Interconnectedness of Geography, Society, and Economy**

Literature Review Several studies have examined the impact of geography on ancient civilizations. For example, Jared Diamond in *Guns, Germs, and Steel* (1997) argues that geographical factors such as access to natural resources and favorable climates allowed some societies to develop earlier than others. Recent studies also indicate that advanced irrigation systems in civilizations such as Egypt and Mesopotamia were shaped based on the specific geographical conditions of these regions (Angelakts et al., 2020b). Furthermore, research such as that of Patel et al. (2021) emphasizes the role of fertile soils and mineral resources in the development of early civilizations. However, there remain gaps in understanding the geographical differences between civilizations and their impact on societal development, which this paper seeks to address.

**Comparative Table 1: Impact of Geography on Ancient Civilizations**

<b>Civilization</b>	<b>Key Geographical Factors</b>	<b>Impact on Agriculture</b>	<b>Impact on Trade</b>	<b>Impact on Social Organization</b>
<b>Ancient Egypt</b>	Nile River, Hot & Dry Climate	Advanced Irrigation	Nile as a Trade Route	Centralized Governance
<b>Mesopotamia</b>	Tigris & Euphrates Rivers	Fertile Alluvial Soil	Trade Hub	City-States
<b>Indus Valley</b>	Indus River, Fertile Soil	Large-Scale Farming	Maritime Trade	Urban Planning
<b>Ancient China</b>	Yellow & Yangtze Rivers	Loess Soil for Farming	Internal Trade	Dynastic Rule

### **Definition of Key Concepts**

- **Civilization:** Civilization refers to the collective material and intellectual achievements of a human society over time, encompassing social, cultural, economic, and political systems (Masood & Arshad, 2023). These achievements reflect a society's progress and development in various domains.
- **Geography:** Geography is the scientific study of the Earth and its related phenomena, including physical features, the environment, human societies, and their interactions (Suwandi, 2022). This field is broadly categorized into physical geography and human geography.
- **Natural Environment:** The natural environment comprises all elements and processes that influence human life and other living organisms, such as climate, geology, water resources, and vegetation (Goudie & Andrew S., 2018).

### **Related Theories**

**Geographical Determinism:** The theory of geographical determinism asserts that the natural environment plays a decisive role in shaping the cultural, social, and economic development of human societies (LEWTHWAITE, 1966). According to this theory, geographical features such as climate, natural resources, and location fundamentally determine the fate of civilizations.

**Geographical Possibilism:** Conversely, the theory of geographical possibilism argues that although the natural environment influences human activities, humans, through creativity and technological advancements, can modify and adapt their surroundings (Næss, 2016). This theory emphasizes the active role of humans in shaping their environment and driving cultural development.

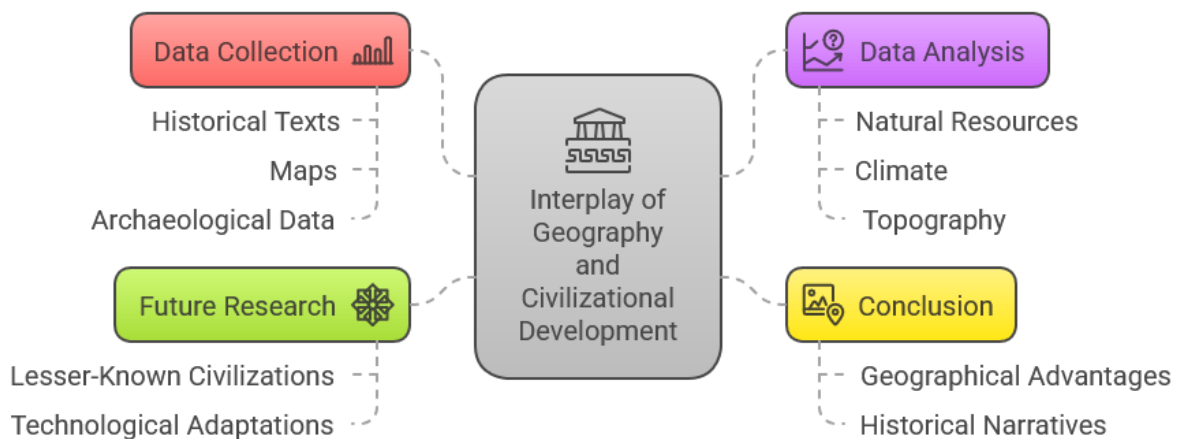
**The Role of the Environment in Shaping Culture and Economy:** The natural environment plays a crucial role in the development of culture and economy. For instance, access to water resources fosters agricultural expansion, which in turn influences the formation of agrarian-based cultures (Bebbington, 1999). Furthermore, climatic conditions impact the types of agricultural products, livelihood strategies, and even social structures (Ibarrarán et al., 2009).

## RESEARCH METHOD

**Research Approach:** This study employs a historical-geographical analysis to examine the impact of the natural environment on the formation of ancient civilizations. This method enables the analysis of historical transformations within a geographical context, clarifying the role of environmental factors in shaping civilizational dynamics (Masood & Arshad, 2023). By utilizing library resources, historical records, and archaeological data, this study explores the interaction between the natural environment and civilizational development.

**Data Collection Methods:** Data collection is based on the study of historical texts, geographical maps, and archaeological findings. Written sources include books, scholarly articles, and credible research reports published from 2020 onwards (John, 2021; Lozić & Štular, 2021). Geographical maps are used to identify the locations of civilizations and analyze their natural characteristics (Anderson, 2023). Additionally, archaeological data contributes to a deeper understanding of settlement patterns, environmental adaptations, and cultural transformations over time.

### Geography and Civilizational Development: Exploration and Analysis



**Figure 2: Exploring the Interplay of Geography and Civilizational Development**

## RESULTS AND DISCUSSION

**The Impact of Rivers on the Formation of Civilizations:** Rivers have played a crucial role as lifelines of ancient civilizations, significantly contributing to the development of early societies. These water sources not only supported sustainable agriculture but also served as major trade and transportation routes. Ancient Egypt is a prime example of how rivers influenced civilization. The Nile River, with its annual floods, deposited fertile silt onto surrounding plains, enabling extensive agriculture (Masood & Arshad, 2023). This stable food supply allowed Egypt to establish one of the most enduring civilizations, even maintaining agricultural productivity during periods of drought (Halawa, 2023).

Similarly, in Mesopotamia, the Tigris and Euphrates Rivers played a comparable role. These rivers provided essential irrigation for agriculture and functioned as trade routes connecting different regions (Angelakis et al., 2020c; Khan, 2025). Recent research highlights the advanced irrigation systems in Mesopotamia, built around these rivers, which significantly boosted

agricultural output, leading to population growth and urban expansion (Nayee, 2024). Additionally, rivers facilitated long-distance trade, which contributed to economic and cultural development (Taylor, 2021).

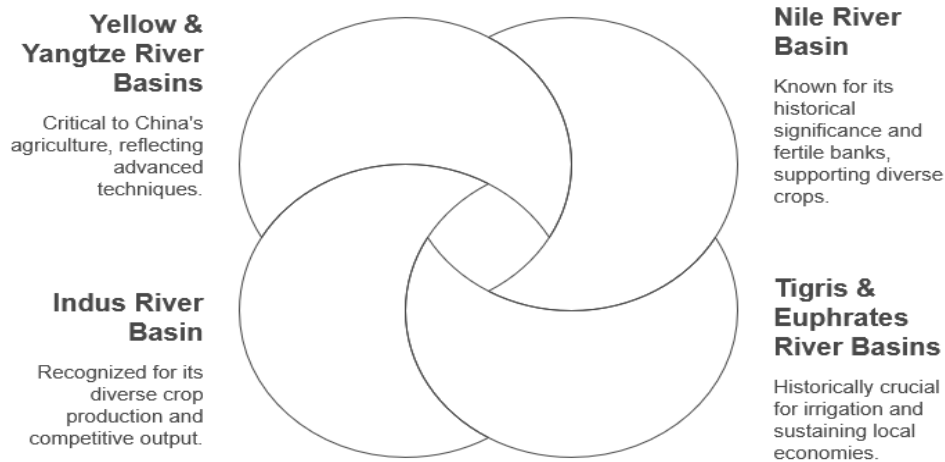
**The Influence of Climate and Weather:** Climate and weather have been fundamental in shaping and sustaining ancient civilizations. The hot and arid climate of Ancient Egypt, while challenging, was transformed into an advantage due to the presence of the Nile. Agricultural activities heavily depended on the river's annual flooding, which led to the development of sophisticated water management systems (Allen, 1997). Recent studies indicate that Egypt's dry climate also contributed to the preservation of historical artifacts, as the arid conditions prevented their rapid deterioration (Ismael et al., 2024).

Conversely, the mild climate of Ancient Greece supported diverse agricultural and economic activities. This climate allowed for the cultivation of crops like olives and grapes, which fueled trade and industry (Martín Casas et al., 2020). Research shows that Greece's temperate climate also contributed to the emergence of independent city-states (polis), as favorable environmental conditions enabled cities to develop economically and culturally without relying on centralized control (TRIDIMAS, 2019).

Moreover, climate played a decisive role in settlement patterns and economic activities. In colder regions such as Northern Europe, societies leaned toward livestock farming and hunting, whereas warmer regions focused on agriculture as the primary economic activity (Taylor, 2021). These climatic differences significantly influenced the development of distinct cultural and social structures across civilizations.

**Impact of Soil and Natural Resources:** Fertile soil and natural resources have been key factors in the formation and development of ancient civilizations. In ancient India, the fertile soils of the Indus Valley played a crucial role in the development of agriculture and population growth. This region, with its soil rich in minerals and river sediments, allowed for the cultivation of a variety of crops, including wheat, barley, and cotton (Kullu & Arpita, 2021). Recent research indicates that the advanced irrigation systems in the Indus Valley, built on these fertile soils, contributed to increased agricultural production, which in turn supported economic and social growth (Irfan et al., 2019). In ancient Persia, mineral resources such as copper, iron, and gold played an essential role in the development of industry and trade. These resources not only helped in the production of advanced tools but also served as valuable commodities in international trade (Flückiger & Matthias, 2024). Studies suggest that access to these mineral resources enabled ancient Persia to become one of the significant economic and military powers in the region (Ghorbani & Mansour, 2013). Additionally, natural resources such as oil and gas later contributed to the development of industry and trade in subsequent periods.

## River Basins and Agricultural Production



**Figure 3: Agricultural Production Analysis**

**Impact of Geographical Location:** Geographical location was also a determining factor in the formation and development of ancient civilizations. The Phoenician civilization, with its strategic position on the eastern coast of the Mediterranean Sea, served as one of the most important commercial centers in the ancient world. This location allowed the Phoenicians to easily trade with other civilizations and establish extensive trade networks (Scott, 2018). Recent studies show that the geographical location of Phoenicia also contributed to the development of advanced maritime and shipbuilding techniques, which, in turn, expanded trade and cultural influence (Scott, 2018). In China, natural barriers such as the Himalayas and the Gobi Desert played a significant role in shaping and preserving the civilization. These natural obstacles not only acted as defensive barriers against foreign invasions but also helped preserve Chinese culture and identity (Wang & Li, 2022). Studies indicate that China's geographical location also facilitated the development of advanced irrigation and agricultural systems, which contributed to economic and social growth (Angelakis et al., 2020). Moreover, geographical location influenced security patterns and cultural interactions. In regions with strategically important locations, such as straits and mountain passes, societies tended to develop advanced defense systems, whereas in areas with easy access to seas and rivers, cultural and commercial interactions flourished (Ameer, 2024). These geographical differences, in turn, contributed to the formation of diverse cultures and social structures.

### Case Studies

This section analyzes the impact of geography on the formation and development of major ancient civilizations, focusing on Ancient Egypt, Mesopotamia, the Indus Valley, and Ancient China. A comparative analysis will be conducted to better understand the role of geography in shaping these civilizations.

**Ancient Egyptian Civilization:** The Nile River played a crucial role in the development of Ancient Egypt. This river was not only the primary water source for agriculture but also served as a major trade and transportation route. Its annual floods deposited fertile soil onto surrounding

lands, enabling sustainable agriculture (Reid & Andrew, 2016). Recent studies indicate that advanced irrigation systems based on these floods significantly boosted agricultural production and population growth (Mallareddy et al., 2023). Moreover, Egypt’s geographical location in Northeastern Africa, with access to the Mediterranean Sea and the Sahara Desert, allowed it to serve as a regional trade and cultural hub (MAKKI, 2011). The natural barriers, including deserts on both sides, provided protection from invasions, contributing to the civilization’s stability.

**Mesopotamian Civilization:** Located between the Tigris and Euphrates Rivers, Mesopotamian civilization thrived due to its rich alluvial soil and advanced irrigation systems (POZNYAK & Ivaniuk, 2022). These rivers supplied water for agriculture and facilitated trade and transportation. Similar to Egypt, the flooding of these rivers enriched the soil, allowing for increased food production and urban expansion (Taylor, 2021). Mesopotamia’s central geographical position, in what is now Iraq, made it a hub for trade and cultural exchange. This advantage contributed to the rise of major cities such as Babylon and Ur (Moore & Lewis, 2000). However, unlike Egypt, Mesopotamia lacked natural protective barriers, making it more vulnerable to invasions and conflicts.

**Indus Valley Civilization:** The Indus Valley Civilization, located in present-day Pakistan and India, flourished due to its fertile lands and advanced irrigation techniques. The Indus and Ganges Rivers provided water for agriculture, supported large-scale settlements, and facilitated trade networks (Ramesh & Sangaralingam, 2023). Recent research highlights the sophisticated urban planning in the Indus Valley, with well-structured cities like Harappa and Mohenjo-Daro featuring drainage systems and grid layouts (Shaikh & Javaria, 2023). The region’s proximity to the Indian Ocean also enabled extensive maritime trade (Zarei, 2022).

**Ancient Chinese Civilization:** Ancient China’s development was significantly influenced by its geographical features. Natural barriers such as the Himalayas, the Gobi Desert, and dense forests provided protection from invasions and contributed to China’s relative isolation. The Yellow and Yangtze Rivers played a fundamental role in agriculture and urbanization. The fertile loess soil in the Yellow River Basin allowed for extensive wheat and millet cultivation, supporting population growth and economic stability (Li & Zhang, 2021). Furthermore, China’s river networks facilitated internal trade and communication, aiding the rise of dynasties (Wang, 2022).

**Comparative Table 2: Comparative Impact of Geography on Egypt, Mesopotamia, Indus Valley, and China**

Civilization	Key Geographical Factors	Impact on Agriculture	Impact on Trade	Impact on Social Organization
<b>Ancient Egypt</b>	Nile River, Hot & Dry Climate	Advanced Irrigation	Nile as a Trade Route	Centralized Governance
<b>Mesopotamia</b>	Tigris & Euphrates Rivers	Fertile Alluvial Soil	Trade Hub	City-States
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<b>Ancient China</b>	Yellow & Yangtze Rivers	Loess Soil for Farming	Internal Trade	Dynastic Rule

## CONCLUSION

This paper has examined the role of geography in the formation and development of ancient civilizations. The findings indicate that geographical factors such as rivers, climate, fertile soil, and strategic locations played a decisive role in the formation and evolution of early civilizations. For instance, the Nile River in ancient Egypt and the Tigris and Euphrates rivers in Mesopotamia acted as vital arteries, facilitating sustainable agriculture, trade, and transportation. Climate also served as a key factor in shaping settlement patterns and economic activities, such that the hot and dry climate of ancient Egypt led to the development of advanced irrigation systems, while the temperate climate of ancient Greece facilitated the cultivation of diverse crops and the expansion of trade. Additionally, the fertile soils of the Indus Valley and the mineral resources of ancient Iran acted as economic drivers, contributing to the growth of industry and trade.

## BIBLIOGRAPHY

- Ahmed, A. T., El Gohary, F., Tzanakakis, V. A., & Angelakis, A. N. (2020). Egyptian and Greek Water Cultures and Hydro-Technologies in Ancient Times. *Sustainability*, *12*(22), 9760. <https://doi.org/10.3390/su12229760>
- Alberti, & Marina. (2003). Integrating humans into ecology: opportunities and challenges for studying urban ecosystems. *BioScience*, *53*(12), 1169–1179.
- Allen, R. C. (1997). Agriculture and the Origins of the State in Ancient Egypt. *Explorations in Economic History*, *34*(2), 135–154. <https://doi.org/10.1006/exeh.1997.0673>
- Ameer, Zahid. (2024). *Exploring the Northern Hemisphere: Humanity's Dominant Habitat*.
- Angelakis, A. N., Zaccaria, D., Krasilnikoff, J., Salgot, M., Bazza, M., Roccaro, P., Jimenez, B., Kumar, A., Yinghua, W., Baba, A., Harrison, J. A., Garduno-Jimenez, A., & Fereres, E. (2020a). Irrigation of World Agricultural Lands: Evolution through the Millennia. *Water*, *12*(5), 1285. <https://doi.org/10.3390/w12051285>
- Angelakis, A. N., Zaccaria, D., Krasilnikoff, J., Salgot, M., Bazza, M., Roccaro, P., Jimenez, B., Kumar, A., Yinghua, W., Baba, A., Harrison, J. A., Garduno-Jimenez, A., & Fereres, E. (2020b). Irrigation of World Agricultural Lands: Evolution through the Millennia. *Water*, *12*(5), 1285. <https://doi.org/10.3390/w12051285>
- Angelakis, A. N., Zaccaria, D., Krasilnikoff, J., Salgot, M., Bazza, M., Roccaro, P., Jimenez, B., Kumar, A., Yinghua, W., Baba, A., Harrison, J. A., Garduno-Jimenez, A., & Fereres, E. (2020c). Irrigation of World Agricultural Lands: Evolution through the Millennia. *Water*, *12*(5), 1285. <https://doi.org/10.3390/w12051285>
- Bebbington, A. (1999). Capitals and Capabilities: A Framework for Analyzing Peasant Viability, Rural Livelihoods and Poverty. *World Development*, *27*(12), 2021–2044. [https://doi.org/10.1016/S0305-750X\(99\)00104-7](https://doi.org/10.1016/S0305-750X(99)00104-7)
- Chew, S., & Sarabia, D. (2016). Nature–Culture Relations: Early Globalization, Climate Changes, and System Crisis. *Sustainability*, *8*(1), 78. <https://doi.org/10.3390/su8010078>
- Eskandari, Nasir, Kamal Aldin Niknami, & Massimo Vidale. (2021). The Bronze Age center of Shahdad, South-East Iran. *East and West* *2.1*, 31–46.
- Flückiger, & Matthias. (2024). *The Dawn of Civilization: Metal Trade and the Rise of Hierarchy*.
- Ge, J., & Hu, Y. (2021). *The Yellow River Civilization and Other River Civilizations of the World* (pp. 85–112). [https://doi.org/10.1007/978-981-33-4481-5\\_3](https://doi.org/10.1007/978-981-33-4481-5_3)

- Ghorbani, & Mansour. (2013). The economic geology of Iran. *Mineral Deposits and Natural Resources*, 1–450.
- Goudie, & Andrew S. (2018). *Human impact on the natural environment: Past, present and future*.
- Halawa, A. (2023). Influence of the traditional food culture of Ancient Egypt on the transition of cuisine and food culture of contemporary Egypt. *Journal of Ethnic Foods*, 10(1), 11. <https://doi.org/10.1186/s42779-023-00177-4>
- Ibarrarán, María Eugenia, Matthias Ruth, Sanjana Ahmad, & Marisa London. (2009). Climate change and natural disasters: macroeconomic performance and distributional impacts. *Environment, Development and Sustainability*, 11, 549–569.
- Irfan, M., Qadir, A., Ali, H., Jamil, N., & Rashid Ahmad, S. (2019). Vulnerability of Environmental Resources in Indus Basin after the Development of Irrigation System. In *Irrigation - Water Productivity and Operation, Sustainability and Climate Change*. IntechOpen. <https://doi.org/10.5772/intechopen.86722>
- Ismael, H., Abdel-Motamed, M., & Ghaly, H. (2024). Climate change and its impacts on selected archeological sites in Egypt. In *Hydroclimatic Extremes in the Middle East and North Africa* (pp. 275–298). Elsevier. <https://doi.org/10.1016/B978-0-12-824130-1.00006-0>
- John, R. (2021). Sand geographies: Disentangling the material foundations of the built environment. *Geography Compass*, 15(5). <https://doi.org/10.1111/gec3.12560>
- Khan, Z. (2025). Rivers, Roads, and Empires: A Historical Perspective on Connectivity and Expansion. *International Research Journal of Arts, Humanities and Social Sciences*, 2(02), 588–607.
- Kullu, & Arpita. (2021). Soil type as one of the major contributing factors for top ten agri-producing states of India. *Journal ISSN 2766*.
- Lewthwaite, G. R. (1966). Environmentalism And Determinism: A Search For Clarification. *Annals of the Association of American Geographers*, 56(1), 1–23. <https://doi.org/10.1111/j.1467-8306.1966.tb00540.x>
- Long, H. (2022). Theorizing land use transitions: A human geography perspective. *Habitat International*, 128, 102669. <https://doi.org/10.1016/j.habitatint.2022.102669>
- Lozić, E., & Štular, B. (2021). Documentation of Archaeology-Specific Workflow for Airborne LiDAR Data Processing. *Geosciences*, 11(1), 26. <https://doi.org/10.3390/geosciences11010026>
- Makki, F. (2011). The Spatial Ecology of Power: Long-Distance Trade and State Formation in Northeast Africa. *Journal of Historical Sociology*, 24(2), 155–185. <https://doi.org/10.1111/j.1467-6443.2011.01394.x>
- Mallareddy, M., Thirumalaikumar, R., Balasubramanian, P., Naseeruddin, R., Nithya, N., Mariadoss, A., Eazhilkrishna, N., Choudhary, A. K., Deiveegan, M., Subramanian, E., Padmaja, B., & Vijayakumar, S. (2023). Maximizing Water Use Efficiency in Rice Farming: A Comprehensive Review of Innovative Irrigation Management Technologies. *Water*, 15(10), 1802. <https://doi.org/10.3390/w15101802>
- Martín Casas, N., AbuMezied, A., & Sterrett, C. L. (2020). *Climate Change, Agriculture and Gender in Gaza: Assessing the implications of the climate crisis for smallholder farming and gender within olive and grape value chains in Gaza*. <https://doi.org/10.21201/2020.6270>

- Masood, F. Bin, & Arshad, R. (2023). Exploring Civilization: Analyzing Siraj Munir's Conception of Islamic Civilization. *Journal of Islamic Thought and Civilization*, 13(1). <https://doi.org/10.32350/jitc.131.15>
- Moore, K. J., & Lewis, D. C. (2000). Multinational Enterprise in Ancient Phoenicia. *Business History*, 42(2), 17–42. <https://doi.org/10.1080/000767900000000219>
- Næss, P. (2016). Built environment, causality and urban planning. *Planning Theory & Practice*, 17(1), 52–71. <https://doi.org/10.1080/14649357.2015.1127994>
- Nayee, H. V. (2024). Impact of Ancient Water Management Systems on Agricultural Productivity and Sustainability. *Research Review Journal of Indian Knowledge Systems*, 1(1), 11–16. <https://doi.org/10.31305/rrijks.2024.v1.n1.002>
- Poznyak, S., & Ivaniuk, H. (2022). Knowledge About Soils In The Civilizations Of The Ancient World. *The Scientific Issues Of Ternopil Volodymyr Hnatiuk National Pedagogical University. Series: Geography*, 52(1), 4–13. <https://doi.org/10.25128/2519-4577.22.1.1>
- Ramesh, & Sangaralingam. (2023). Before the Indus Valley Civilisation: 5000 BC to 2999 BC. *The Political Economy of India's Economic Development: 5000BC to 2022AD, Volume I: Before the Indus Civilisation to Alexander the Great*, 1–35.
- Reid, & Andrew. (2016). Ancient Egypt and the Source of the Nile." *Ancient Egypt in Africa. Routledge*, 55–76.
- Scott, J. C. (2018). The Phoenicians and the formation of the western world. *Comparative Civilizations Review*, 4, 78–78.
- Shaikh, & Javaria. (2023). Prototype Of Grid In Urban History Of Sindh, Pakistan. *Archaeology 3.1*, 69–84.
- Suwandi, W. S. (2022). Do Economic Growth, Income Distribution, and Investment Reduce Poverty Level? *Jurnal Berkala Ilmiah Efisiensi*, 1(1).
- Tridimas, G. (2019). The failure of ancient Greek growth: institutions, culture and energy cost. *Journal of Institutional Economics*, 15(2), 327–350. <https://doi.org/10.1017/S1744137418000188>
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