

## Review

# Pathways for the Valorization of Animal and Human Waste to Biofuels, Sustainable Materials and Value-Added Chemicals

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**Abstract:** Human and animal waste, including waste products originating from human or animal digestive systems such as urine, feces, and animal manure, have constituted a nuisance to the environment. Inappropriate disposal and poor sanitation of human and animal waste often cause negative impacts on human health through contamination of the terrestrial environment, soil, and water bodies. Therefore, it is necessary to convert these wastes into useful resources to mitigate their adverse environmental effect. The present study provides an overview and research progress of different thermochemical and biological conversion pathways for the transformation of human- and animal-derived waste into valuable resources. The physicochemical properties of human and animal waste are meticulously discussed as well as nutrient recovery strategies. In addition, a bibliometric analysis is provided to identify the trends in research and knowledge gaps. The results reveal that the U.S.A, China and England are the dominant countries in the research areas related to resource recovery from human or animal waste. In addition, researchers from the University of Illinois, the University of California Davis, the Chinese Academy of Sciences and Zhejiang University are front runners in research related to these areas. Future research should be centered on developing technologies for the on-site recovery of resources, exploring integrated resource recovery pathways, and exploring different safe waste processing methods.

**Keywords:** Thermochemical conversion; biological conversion; human excreta; waste-to-energy; livestock manure

## Background Statement

Human and animal waste contains pathogens that can spread disease, making it hazardous to the environment and public health. Animal manure can also release greenhouse gases, contributing to climate change. Research related to resource recovery from human or animal waste can help to reduce the environmental impact of waste and create more

# Added Value Chemicals And Biofuels

**David Kirk**



## **Added Value Chemicals And Biofuels:**

This book delves into Added Value Chemicals And Biofuels. Added Value Chemicals And Biofuels is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Added Value Chemicals And Biofuels, encompassing both the fundamentals and more intricate discussions.

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- Chapter 5: Conclusion

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