

ABSTRACT

The increasing demand for sustainable energy sources has led to the exploration of biofuels as alternatives to fossil fuels. Biofuel blended nano particles represent a promising avenue in this quest, combining the benefits of biofuels with the catalytic properties of nanoparticles. This abstract delves into the synthesis, characterization, and applications of biofuel blended nano particles, highlighting their potential to mitigate environmental impact while enhancing energy efficiency. Through a comprehensive review of current work elucidates the mechanisms underlying their synthesis, their unique properties, and their diverse applications across various sectors including transportation, power generation, and industrial processes. Furthermore, the environmental and economic implications of integrating biofuel blended nano particles into existing energy infrastructure are discussed, emphasizing their role in transitioning towards a more sustainable and greener future.

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software