

Review of: "Blockchain EV Payment Systems: A Systematic Literature Review in Retail Energy Trading"

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Potential competing interests: No potential competing interests to declare.

The study focuses on conducting a systematic literature review of blockchain technology in the electric vehicle (EV) industry from a retail business-process perspective. The article aims to identify key themes, implications, and applications of blockchain technology in EV charging systems, and propose future research directions.

The authors begin by highlighting the growing popularity of blockchain technology due to its security and anonymity features. They suggest that blockchain can be beneficial for digitalizing EV networks and improving operational efficiency. The article emphasises the need for safe and efficient EV payment systems, and how blockchain technology can address these requirements.

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The discussion section of the article explores the implications and applications of blockchain technology in the EV charging industry. It highlights the need for privacy, security, and scalability in EV payment systems. The authors emphasise the challenges related to privacy protection, transaction traceability, and the balance between anonymity and accountability. They also discuss the importance of secure communication and validation in decentralised systems.

Shortcomings of this article:

Limited sample size: The article includes a final sample of only 21 papers, which may be considered relatively small for a systematic literature review. A larger sample size could have provided a more comprehensive overview of the research in the field.

Limited discussion of limitations: The article briefly mentions the technical challenges and limitations of blockchain technology but does not extensively discuss the limitations of the literature review or the technical challenges. Providing a more thorough discussion of the limitations could enhance the transparency and reliability of the study.

Lack of critical analysis: The article mainly focuses on summarising and categorising the existing literature, but it does not critically evaluate the quality or rigour of the included papers. A more critical analysis of the strengths and weaknesses of the reviewed studies could have provided a deeper understanding of the research landscape.

By addressing these areas, the article could be improved and potentially increase its contribution to the field.

