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Wang, Yong; Liang, Jixin; Hu, Guangye; Zhen, Yumeng; Zhang, Xu; et al.
Green Chemistry

With the advancement of industrialization, the environmental burden caused by non-biodegradable petroleum-based plastics has become increasingly severe. Biodegradable plastics have attracted considerable attention due to their inherent d...

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ผลงานวิจัยของกนกพร

จำนวน 1 เรื่อง

Springer nature แจ้งว่า มี ผลงาน วิจัย เรื่อง “Microbial production of polyhydroxyalkanoates and lactate-based biopolymers from C1 resources: current advances and trends” ได้ citation งานของกนกพร สิ่งมีชีวิต จำนวน 1 บทความ ได้แก่

1. ชื่องานวิจัย “Exploring potential aspect of microbial fuel cell (MFC) for simultaneous energy, polyhydroxyalkanoate (PHA) production and textile wastewater (TW) treatment”

เรื่องที่น่าผลงานไปอ้างอิง

Microbial production of polyhydroxyalkanoates and lactate-based biopolymers from C1 resources: current advances and trends

By Wang, Y (Wang, Yong) ; Wang, H (Wang, Hui) ; Hu, D (Hu, Dongjie) ; Zhou, W (Zhou, Yumei) ; Cheng, X (Cheng, Xu) ; Cai, B (Cai, Bin) ; Wang, B (Wang, Bin) ; Sun, J (Sun, Jiahong) ; Kang, B (Kang, Dejing)
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Abstract With the advancement of industrialization, the environmental burden caused by non-biodegradable petroleum-based plastics has become increasingly severe. Biodegradable plastics have attracted considerable attention due to their inherent degradability and environmental compatibility, with significant potential for applications across food, agriculture, industry and medicine. However, the high production cost of biodegradable plastics remains a critical barrier to their large-scale commercialization. And the synthesis of bioplastics using cost-effective C1 resources has emerged as a promising solution. This review highlights recent progress in the microbial production of polyhydroxyalkanoates (PHA) and lactate-based biopolymers derived from C1 substrates. Key advancements in microbial strain and process innovations are addressed, and characterization techniques and

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ฐานข้อมูล

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ตีพิมพ์ในวารสาร Green Chemistry

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