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## Publications

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### Green extraction of palm provitamin A carotenoids: Sustainable solvents and intensified processes

ALWI GERY AGUSTAN SIREGAR , RENITA MANURUNG , SRI ZAHRANI DWI MAULIYAH PARINDURI

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### Waste-derived and functionalized silica catalysts for low-carbon biodiesel production: A systematic review of performance, reusability, and circular-economy potential

RENITA MANURUNG , SRI ZAHRANI DWI MAULIYAH PARINDURI , ALWI GERY AGUSTAN SIREGAR

2026
Buku referensi

### The Potential of Oil Palm Solid Waste in Industrial Processes to Support Sustainable Industrial Growth: Theory and Case Studies

SRI ZAHRANI DWI MAULIYAH PARINDURI

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### Optimized Lithium-Impregnated Silica Catalyst from Corn Cob Waste for Enhanced Biodiesel Production: StructuralTuning and Circular Economy Application

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### Enhancing frass fertilizer efficiency with rice husk biochar and chicken manure via black soldier fly (Hermetia illucens) larvae composting

SITI FATIMAH BATUBARA , SYARIFA MAYLY BOELIAN DACHBAN SP MP , DINI MUFRIAH , LISDAYANI , FITRA SYAWAL HARAHAP , BENNY HIDAYAT , SRI ZAHRANI DWI MAULIYAH PARINDURI

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### Transesterification reaction of palm oil catalyzed by nano- CaO/SiO2 derived from waste chicken eggshell and palm oil mill boiler ash

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### Influence of Parameters on Adsorption Process and Adsorption Isotherms of Commercial Activated Carbon for $CO_2$ Capture

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### Reactivated Spent Bleaching Earth as a New Path in Waste Resource Utilization for the Crude Palm Oil Bleaching Process

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### Reactivated Spent Bleaching Earth as a New Path in Waste Resource Utilization for the Crude Palm Oil Bleaching Process

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## Researches

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Penelitian Fundamental

### Sinergi Bioaditif Metil Ester Minyak Biji Karet dan Nanobiochar untuk Optimalisasi Kinerja dan Emisi Biodiesel B40

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### MICROWAVE-ASSISTED CO-PYROLYSIS TANDAN KOSONG KELAPA SAWIT DAN LIMBAH PLASTIK SEBAGAI BAHAN BAKAR UNTUK MENDUKUNG EKONOMI SIRKULAR DALAM KONSEP GREEN ECONOMY

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### PROSES PEMBUATAN KATALIS BASA PADAT NANO-KALSIUM OKSIDA YANG DIIMPREGNASI DENGAN SILIKA DARI CANGKANG TELUR DAN ABU CANGKANG SAWIT

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