

# Waste Disposal & Sustainable Energy

## Topic: Energy storage and low-carbon fuels

Zhang, J., Yang, H., Huang, Z. *et al.* Pore-structure regulation and heteroatom doping of activated carbon for **supercapacitors** with excellent rate performance and power density. *Waste Dispos. Sustain. Energy* 5, 417–426 (2023). <https://doi.org/10.1007/s42768-023-00155-1>

**Full free-text:** <https://rdcu.be/dwXNU>

Prasad, A., Verma, J., Suresh, S. *et al.* Recent advancements in the applicability of SnO<sub>2</sub>-based photo-catalysts for **hydrogen production**: challenges and solutions. *Waste Dispos. Sustain. Energy* 4, 179–192 (2022). <https://doi.org/10.1007/s42768-022-00105-3>

**Full free-text:** <https://rdcu.be/dwXNX>

\* Dulta, K., Adeola, A.O., Ashaolu, S.E. *et al.* **Biohydrogen production and its bioeconomic impact**: a review. *Waste Dispos. Sustain. Energy* 4, 219–230 (2022). <https://doi.org/10.1007/s42768-022-00109-z>

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Mengesha, A., Angassa, K., Worku, Z. *et al.* Characterization and production of **briquettes fuel** from brewery wastewater sludge and sawdust. *Waste Dispos. Sustain. Energy* 4, 243–256 (2022). <https://doi.org/10.1007/s42768-022-00099-y>

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Mumtha, C., Kabiriyel, J. & Mahalingam, P.U. Enhancing the **biological hydrogen production** in a novel way of using co-substrates. *Waste Dispos. Sustain. Energy* 5, 511–524 (2023). <https://doi.org/10.1007/s42768-023-00160-4>

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Yimeng, Z., Jiabao, L., Yaqi, P. *et al.* Ar-plasma enhanced copper-nickel alloy catalysis for **ammonia synthesis**. *Waste Dispos. Sustain. Energy* 4, 149–155 (2022). <https://doi.org/10.1007/s42768-022-00095-2>

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Parimi, K.B., Kaur, B.S., Lankapalli, S.V.P. *et al.* Performance, combustion, and emission characteristics of on a diesel engine fuelled with hydrogen compressed natural gas and Kusum seed **biodiesel**. *Waste Dispos. Sustain. Energy* 5, 151–163 (2023). <https://doi.org/10.1007/s42768-022-00132-0>

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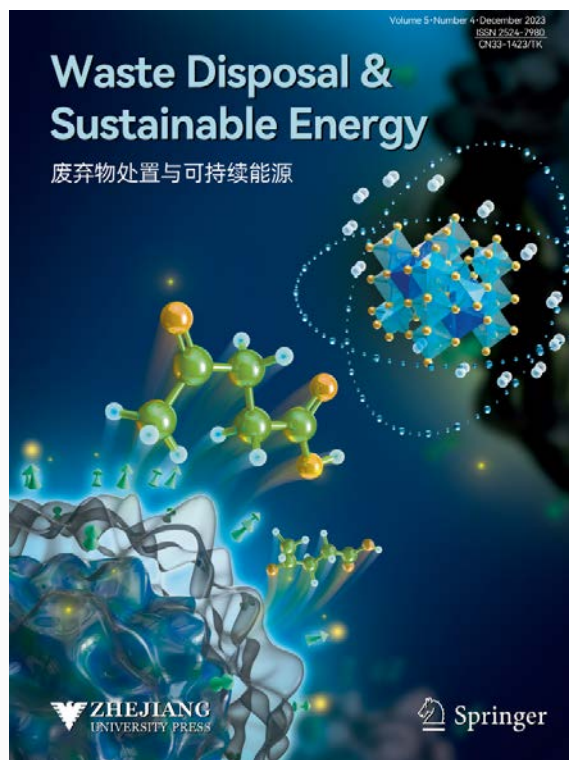
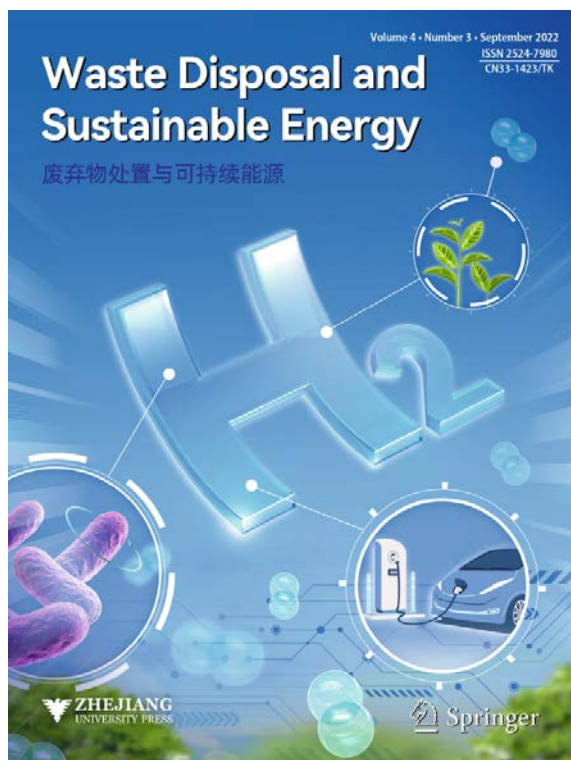
Kanaujia, N., Rawat, S. & Singh, J. Oxidative chemical pretreatment by piranha solution for enhanced **methane yield** of wheat straw: mechanism and kinetic study. *Waste Dispos. Sustain. Energy* 5, 351–366 (2023). <https://doi.org/10.1007/s42768-023-00151-5>

**Full free-text:** <https://rdcu.be/dwXOM>

\* Li, T., Su, H., Zhu, L. *et al.* **Hydrogen production** from steam reforming of biomass-derived levulinic acid over highly stable spinel-supported Ni catalysts. *Waste Dispos. Sustain. Energy* 5, 427–438 (2023). <https://doi.org/10.1007/s42768-023-00154-2>

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\*: Selected as issue cover paper (free of charge) as follows.



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