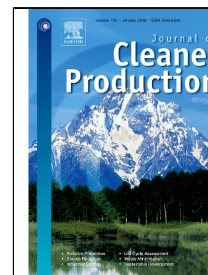


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Activated carbon recycled from bitter-tea and palm shell wastes for capacitive desalination of salt water

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Highlights

- The activated carbons (ACs) recycled from shell wastes for capacitive deionization (CDI) of salt water are chemically feasible.
- The electrosorption efficiency of the recycled AC electrodes can be increased up to 40%.
- The AC-based CDI electrodes dispersed with Ag@C core-shell nanoparticles have additional disinfection ability during desalination of salt water.

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