

Mesoporous, Monolithic, Free-Standing Carbon Electrode for Capacitive Water Purification and Other Applications

Disclosure Number

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Technology Summary

Capacitive deionization (CDI) is a method that can be used to remove ions from salty water. CDI works best with high conductivity electrode materials. This invention is used to purify salt water to make clean drinking water and may also be used to remove harmful contaminants from solutions that need remediation. It may be used also to concentrate valuable materials that are dissolved in waste waters or solutions ie rare earths in tailing solutions.

Inventor

KIGGANS JR, JAMES O
Materials Science and Technology Div

Licensing Contact

CALDWELL, JENNIFER T
Rm 137, Bldg 4500N
1 Bethel Valley Road 6196
Oak Ridge, TN 37831

Office Phone: (865) 574-4180
E-Mail: CALDWELLJT@ORNL.GOV
