OAK RIDGE NATIONAL LABORATORY
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Mesoporous Carbon-Coated, Coated Electrode Structures for Capacitive Water Purification and Other Applications

Disclosure Number

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Technology Summary

The present invention relates to mesoporous carbon placed on 3D structures for use in water purification. The dimension relates to water purification using mesoporous carbon coatings that are placed on 3D structures to allow flow through and higher reaction rates. Capacitive deionization is the process used to assist the ion flow into the mesoporous carbon structures. Capacitive deionization allows the coating to be regenerated and good or bad ions removed to a separate stream.

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