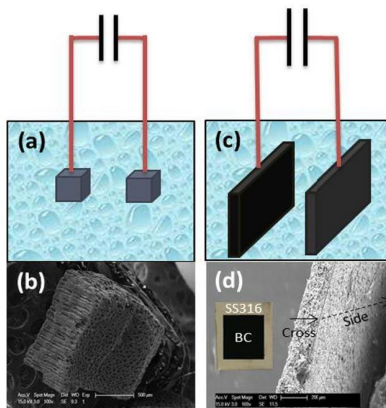




Other Alternative Energy

Besides the well-known alternative energy categories such as wind/solar energy and biofuels/biodiesel, alternative energy also includes chemically stored electricity in batteries, capacitors, and fuel cells that could be made with some or all renewable materials. Researchers at ISTC have worked on batteries and supercapacitors for energy storage using renewable or waste materials. For additional information on renewable energy, visit the United States Environmental Protection Agency's page on **Renewable Energy**.



One of ISTC's previous projects was using biochar (pyrolyzed biomass) as the carbon source for the electrodes in supercapacitors. The top two diagrams show a schematic of a (a) biochar mini-chunk and (c) thin-film supercapacitor, and the bottom photos show low-resolution scanning electron microscope images of a (b) biochar mini-chunk and (d) thin-film electrode.

Energy

Biofuels & Biodiesel

Carbon Capture

Waste to Energy

Other Alternative Energy

From waste to energy: Rice husks and Li-ion batteries

Pollutants

Waste Utilization

Water Use and Reuse

Hazardous Waste Research Fund



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