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The principal goal of the present research is to create an electrode architecture for electrochemical capacitors (ECs) that possesses both the high specific power of carbon supercapacitors and the high specific energy of pseudocapacitive materials. The design and fabrication of these electrodes are based on the nanoscale deposition of transition metal oxides onto mesoporous carbon-based supports. Extraction of metals from carbides can generate a broad range of carbon nanostructures, which are known as