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(a) Transition metal oxyfluorides for rechargeable batteries; (b) Trash to treasure: waste eggshells as reactor and template for synthesis of nanorod arrays on carbon fibers for energy storage; (c) Mixed nanoparticles simultaneously encapsulated in carbon microcubes for lithium storage; (d) Transforming waste polystyrene cups into electrode materials for sodium batteries; (e) From harmful algal blooms to high-performance electrodes for sodium batteries; (f) Microrod arrays on substrates for microdroplet transfer.