

# Accepted Manuscript

Porous Zr<sub>2</sub>SC-carbon composite microspheres: Possible radiation tolerant sorbents and transmutation hosts for technetium-99

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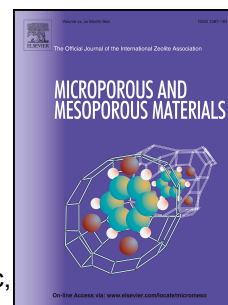
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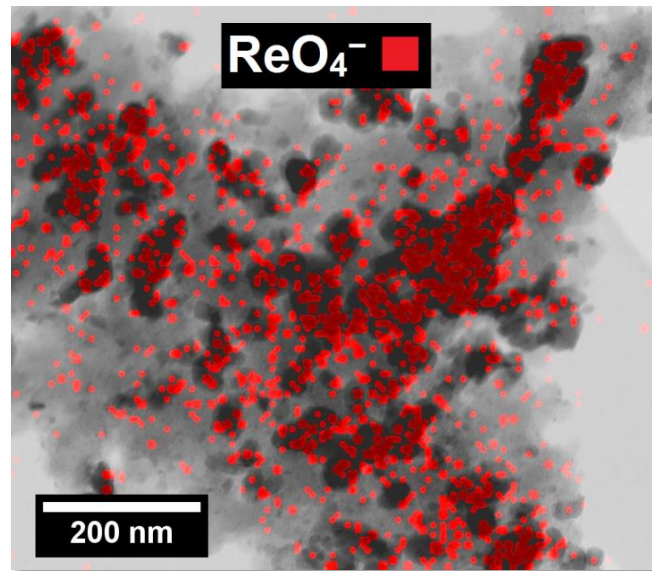
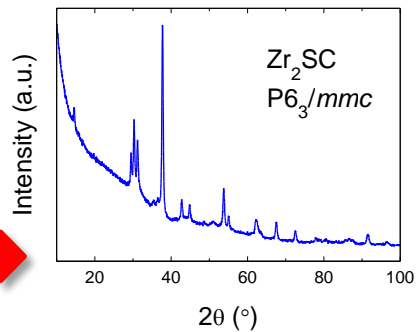
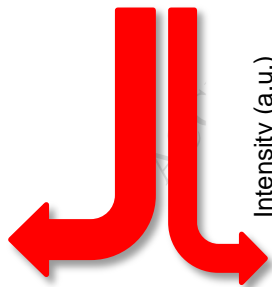
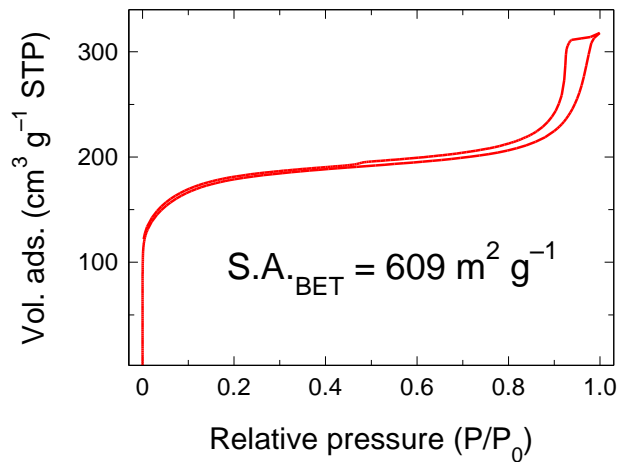
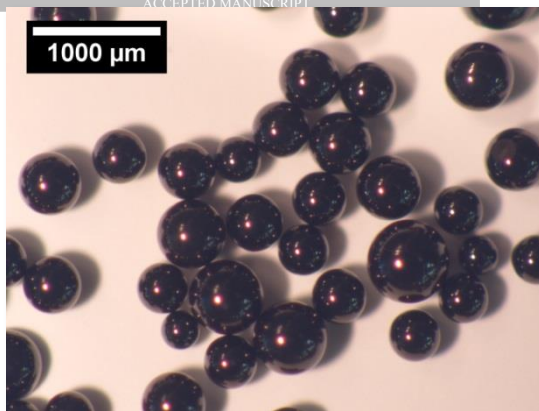
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1. Cation exchange /  $[\text{Zr}_4(\text{OH})_8]^{8+}$
2. Carbothermal reduction /  $1350\text{ }^\circ\text{C}$



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