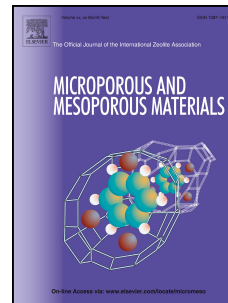


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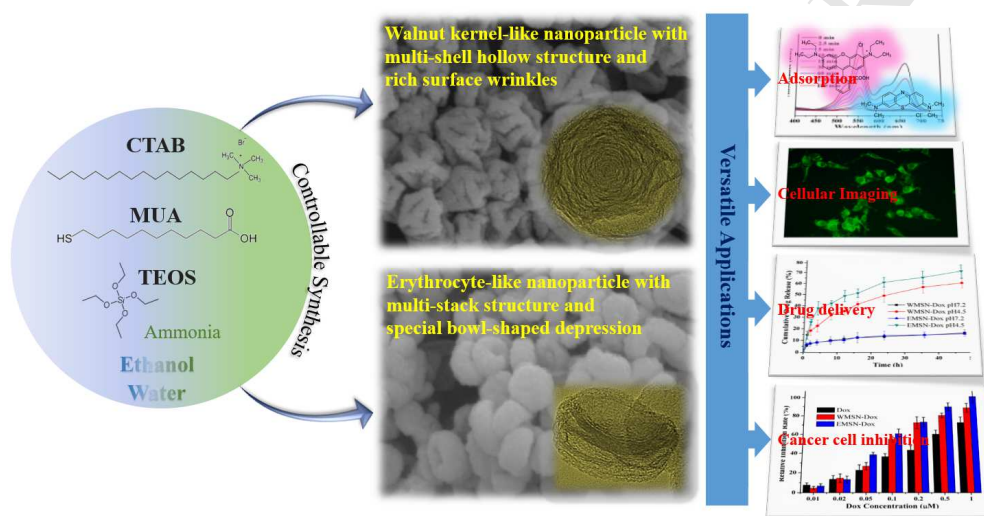
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Graphical abstract

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Hierarchical walnut kernel-like and erythrocyte-like mesoporous silica nanomaterials were engineered in a controllable and tunable way for versatile applications.

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