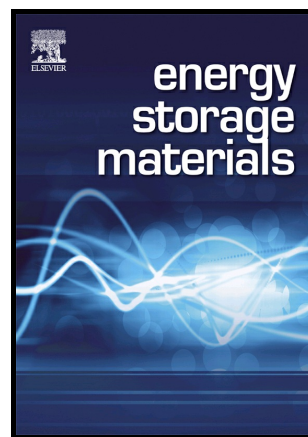


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Spatially Uniform Deposition of Lithium Metal in 3D Janus Hosts

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Abstract

Three-dimensional (3D), high-specific-surface-area, and porous current collectors are strongly considered as the hosts of lithium deposition to avoid dendrite growth of lithium metal in rechargeable batteries. However, a major hurdle in these hosts is the poor affinity of lithium in non-polar framework and favorable lithium deposition toward the conductive separator-facing surface while leaving the interior voids empty. Herein, we demonstrate an effective strategy to address the issue of spatially

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