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Nanomaterials Design for Energy Storage

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Materials design at nanoscale has enabled novel technologies which can address critical energy problems. My group's research in the past decade has been focused on innovative ideas in this area. Here I will show multiple examples how nanomaterials design can allow us to enable new battery chemistries. Examples include: 1) Si anodes 2) Li metal anodes 3) Sulfur cathodes 4) Solid electrolyte.

Contribution: Invited