Moscow's new liquid flow battery

Building on the first work, we develop Multiple Redox Semi-Solid-Liquid (MRSSL) flow catholyte that takes advantage of both highly soluble active materials in the liquid phase and high-capacity active materials in the solid phase, to form a biphase MRSSL catholyte (Fig. 1b).2 We used liquid lithium iodide (LiI) electrolyte and solid S/C composite as an example to demonstrate a LiI-S/C MRSSL catholyte, which achieved the highest catholyte volumetric capacity (550 Ah/Lcatholyte) to date with superior energy density (580 Wh/Lcatholyte+lithium) with high columbic efficiency (>95%). The breakthrough in flow batteries: A step Jan 6, Flow batteries, which store energy in liquid electrolytes housed in separate tanks, offer several advantages over traditional lithium-ion Advancing Flow Batteries: High Energy Dec 17, A high-capacity-density (635.1 mAh g-1) aqueous flow battery with ultrafast charging (

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