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(Institute of Energetic Materials, 1 November 2010) "The work is clearly and appropriately divided into six chapters, and leads the reader through

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The resulting Mg/Ti codoped LiNiO₂

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delivers a material-level specific energy of ~ 780 W h/kg at C/10 with 96% retention after 50 cycles. The specific energy reaches ~ 680 W h/kg at 1C with 77% retention after 300 cycles. Furthermore, the Mg/Ti dual dopants improve the rate capability, thermal stability, and self-discharge resistance of LiNiO₂.

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future energy-storage systems, representing significant barriers to progress. In this regard, intermolecular interactions in SPEs have attracted attention, and they can significantly impact on the Li⁺ motion and frontier orbital energy level of SPEs.

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"Organic Chemistry of Explosives, Wiley, 2007.

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In this work, the ternary hybrid structure VSe₂/SWCNTs/rGO is reported for supercapacitor applications. The ternary composite exhibits a high specific

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capacitance of 450 F g^{-1} in a symmetric cell configuration, with maximum energy density of 131.4 Wh kg^{-1} and power density of 27.49 kW kg^{-1} . The ternary hybrid also shows a cyclic stability of 91 % after 5000 cycles.

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