

- ▶ The hybrid structures show a dramatic improvement compared to those prepared with silicon alone.
- ▶ Measurements suggest that these composites have an overall lower active layer resistance compared to a silicon-only case and are demonstrating the full utilization of the active material.
- ▶ The effectiveness of this simple, low-cost approach suggests that if used in combination with more advanced structures, it may provide the critical improvement necessary to finally realize a silicon-based next-generation anode.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	11,152,608	10/19/2021	2016-350

RELATED MATERIALS

- ▶ [Zhong, L., et al. Tin Nanoparticles as an Effective Conductive Additive in Silicon Anodes. Nature Scientific Reports 2016 \(6\) 30952 - 08/03/2016](#)

INVENTIONS BY PROF. MANGOLINI

Please review all [inventions by Prof. Mangolini and his team at UCR](#).

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