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**Perovskite Structured Oxide Thin Film as Photocapacitor**

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INRS - Energie et Materiaux — Photocapacitor is a device that converts solar energy through photovoltaic effect, and stores the converted energy by maintaining the charge concentration difference across a membrane upon light irradiation. It eliminates additional storage devices, for example, extra battery towards device miniaturization by enabling generated charge storage facilities in the same system. Till to date published reports show those devices that used artificial layer within single structure to make storage facility. Here we show some preliminary results on Bi-Mn-O thin film systems that differ from others in such a way that it will employ self-assembled system to convert and to store solar energy.

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