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Parameter Analysis Method for Enhancing Efficiency of Photovoltaic Cells

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Abstract: A Photovoltaic(PV) cell is a device which generates electricity directly from visible light. Their efficiency is fairly low due to environmental changes and nature of material. So, the PV cells are expensive according to other energy resources products. Several parameters affect solar cell efficiency. This paper presents the most important parameters that affect efficiency of PV cells. These are cell temperature, Irradiation, MPPT (maximum power point tracking) and energy conversion efficiency. PV cell efficiency is improved by changing these parameters.
Keywords: PV Cell, Efficiency, PV Cell Factor, PV Cell Temperature, Irradiation.

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