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Planar-type concentrating photovoltaics with cylindrical lenses on which flexible GaAs solar cells are directly integrated on the curvilinear surfaces. Minimal single-axis rotational motion of the combined lenses and solar cells maintains focused incident light onto the integrated solar cells throughout the day.

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PV modules based on single-junction crystalline silicon solar cells dominate industrial manufacturing and commercial PV deployment today and will remain the dominant technology for the foreseeable future, possibly over coming decades. 2 Power production yield from PV power plants can be affected by module quality and integrity in multiple ways ...

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