

# **Improved Silicon Solar Cells by Tuning Angular Response to Solar Trajectory**

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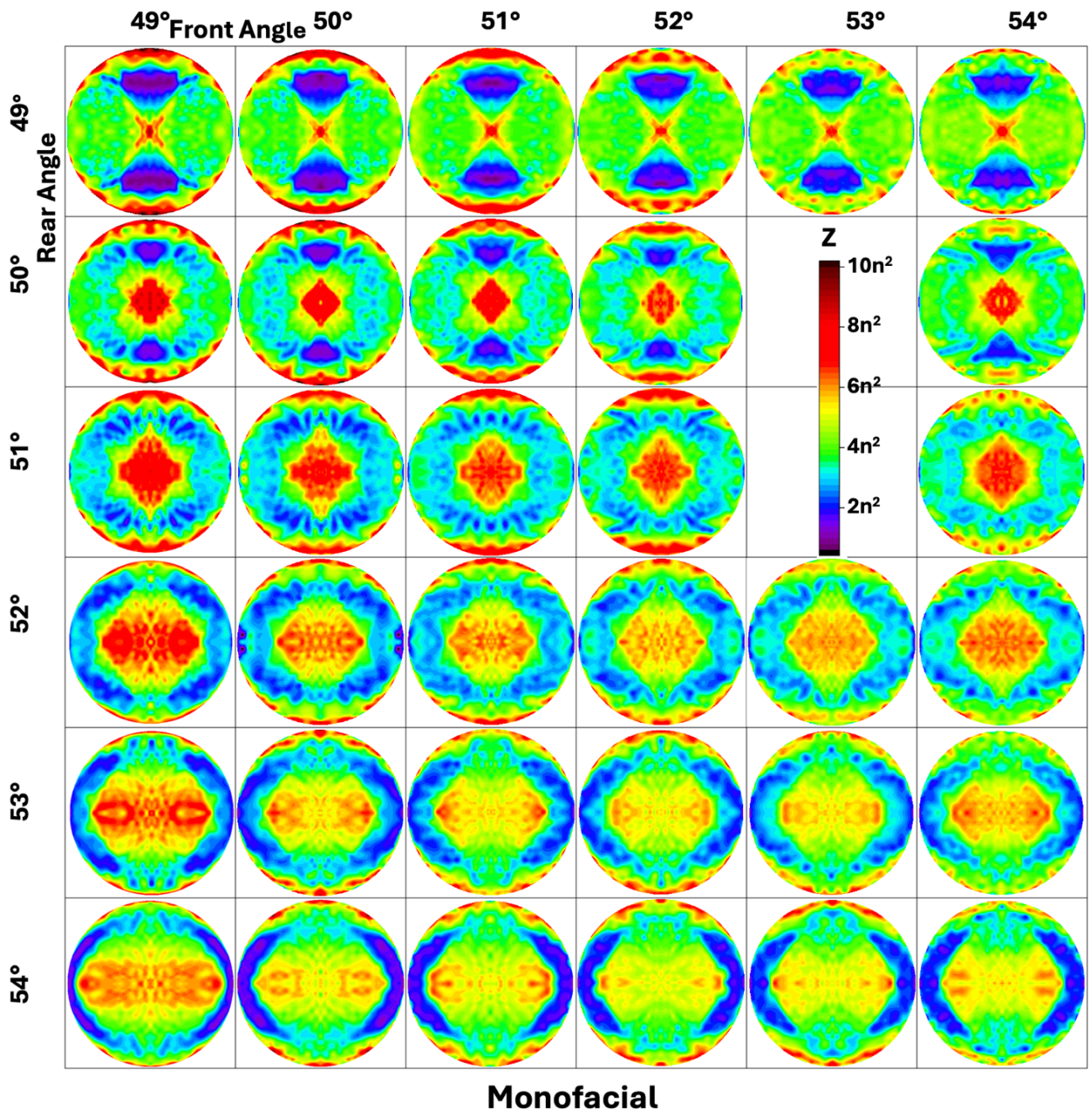
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## **SUPPLEMENTARY INFORMATION**

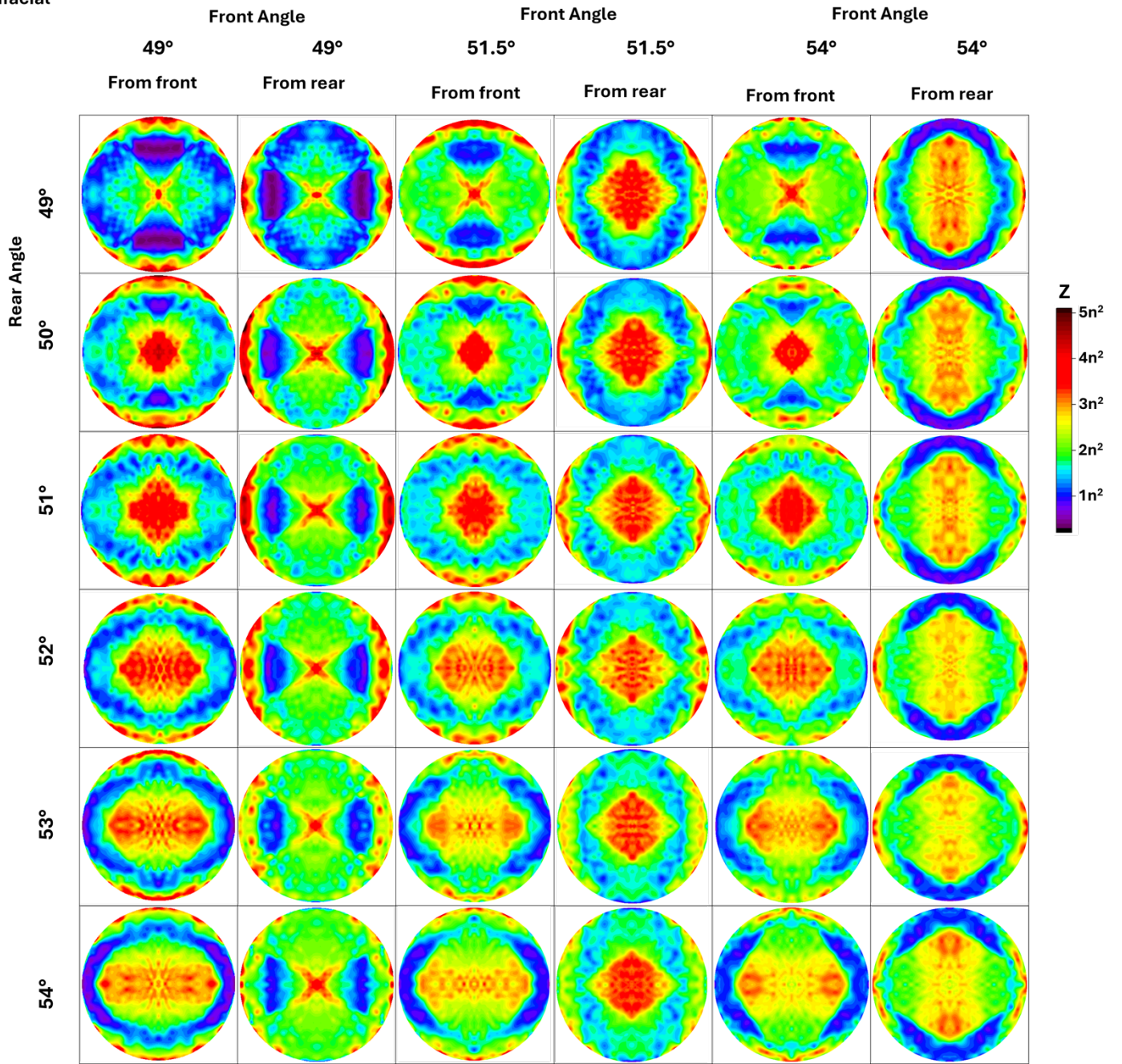
**Fig.1| Montage showing range of possible angularly projected responses from different monofacial cross-groove designs (rear surface assumed perfectly reflecting).**

**Fig.2| Montage showing range of possible angularly projected responses from different bifacial cross-groove designs.**



**Fig.1| Montage showing range of possible angularly projected responses from different monofacial cross-groove designs (rear surface assumed perfectly reflecting). In the horizontal direction, the groove angles on the top surface vary, with those on the rear vary in the vertical. Symmetrical designs lie on the diagonal. Rear angle defines the key features, with top angle allowing refinement.**

Bifacial



**Fig.2| Montage showing range of possible angularly projected responses from different bifacial cross-groove designs.** In the horizontal direction, the groove angles on the top surface vary, with those on the rear vary in the vertical. Also in the horizontal direction, the response to light incident on both the front and the rear surface is also shown for each combination of front and rear groove angles.