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Radiative cooling by tailoring surfaces with microstructures:
Association of a grating and a multi-layer structure

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Highlights

- We propose using gratings for a radiative cooling application.
- Considered gratings have emission peaks in the atmosphere transparency window.
- Association of gratings with multi-layers complete emission spectrum.
- A radiative cooling power density up to 80 W.m^{-2} at night is produced.
- A simplified structure for fabrication is shown.

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