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Spectral tuning of near-field radiative heat transfer by graphene-covered metasurfaces

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Highlights

- Near-field radiative heat transfer between two graphene-covered gratings is investigated.
- Effects of chemical potential and grating parameters on the radiative heat flux is analyzed.
- Physical mechanism for tuning the spectral properties of the radiative heat flux is revealed.
- Graphene can enhance the spectral regulation performance of gratings on radiative heat flux.

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