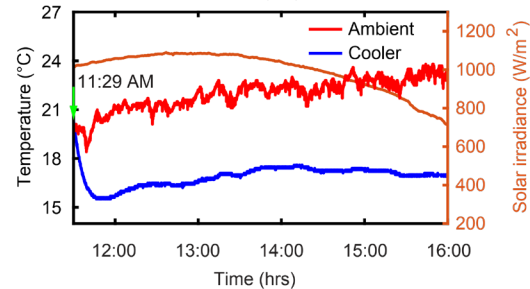
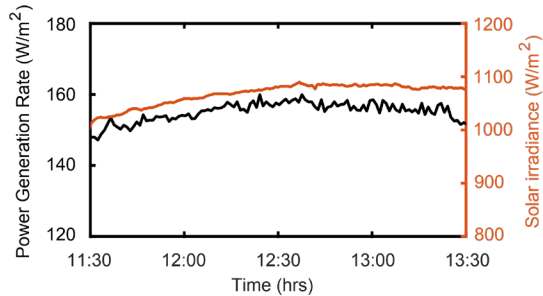
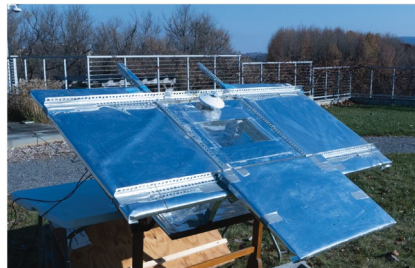
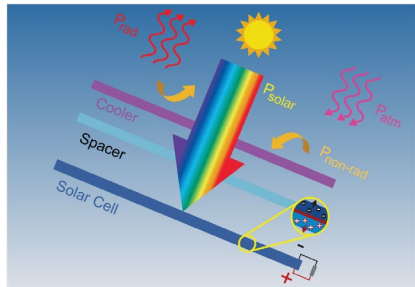
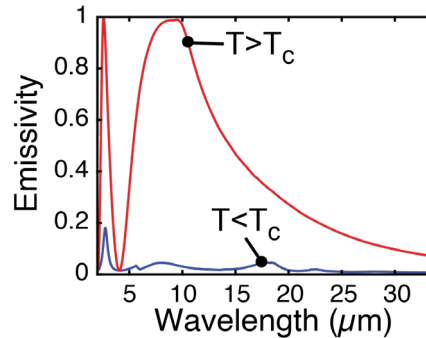


- Design, fabricate and test radiative thermal management of solar cells for enhanced efficiency and lifespan, using electromagnetic modeling, nanofabrication, spectroscopic and thermal characterization, and field testing.
- Dual-harvesting systems for solar and other sources to enhance energy harvesting per unit area.
- Thermochromics for dynamic control of optical and thermal properties.
- Photonic design for spectral, angular control of optical and thermal properties.

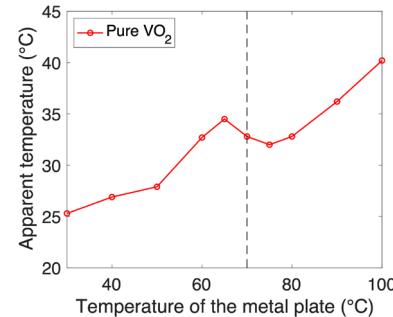
Co-harvesting sunlight and universe for energy



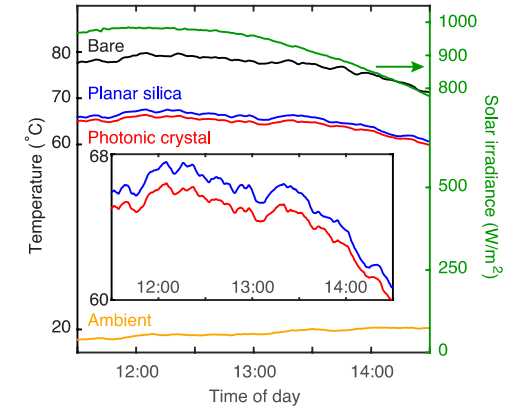
Nanophotonic thermo-chromatic design



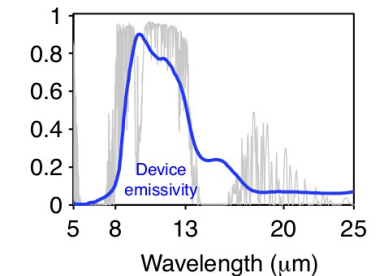
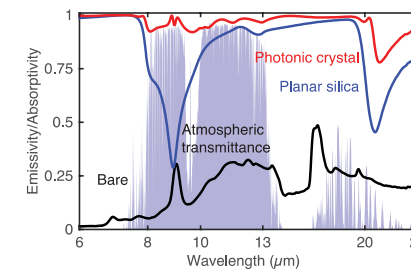
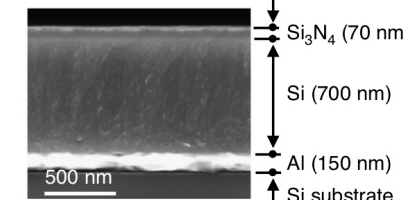
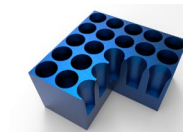
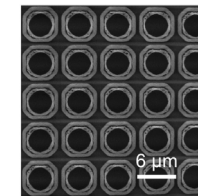
Switching of radiation



Radiative Cooling of Solar Absorber by 13 °C



Spectral Control of Thermal Emission



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 Pramit Ghosh et al., *Cell Rep. Phys. Sci.* 5, 101876 (2024)
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