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Title: Columbia High Temperature Solar System

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**Why do scientists study temperatures across the Solar System?**

Studying temperatures across the solar system provides insights into planetary formation, climate systems, and the potential for life beyond Earth. Recent missions and telescopic observations have allowed scientists to measure surface, atmospheric, and even subsurface temperatures of planets with remarkable accuracy.

**Should a high-bandgap solar cell be used for high-temperature operation?**

For high-temperature operation, as discussed before, a high-bandgap solar cell material would be preferred, but the blue-deficient spectrum puts a limit on the availability of short-wavelength photons.

**Can solar cells work at high temperatures?**

If future missions designed to probe environments close to the Sun will be able to use photovoltaic power generation, solar cells that can function at high temperatures under high light intensity and high radiation conditions must be developed. The significant problem is that solar cells lose performance at high temperatures.

**What is the hottest planet in our Solar System?**

But Venus is shrouded in clouds and has a dense atmosphere that acts as a greenhouse and heats the surface to above the melting point of lead. It has a mean surface temperature of 867°F (464°C). So Venus - not Mercury - is the hottest planet in our solar system.

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