

论文

## 不同气象条件下廊坊城市热岛效应变化特征

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**摘要** 利用2005年9月—2008年8月廊坊市区域加密自动站逐时气温资料,采用城、郊气温对比法研究了不同气象条件对廊坊城市热岛效应的影响。结果表明:廊坊城市热岛强度夜间大于白天,但变化幅度白天大于夜间;在四季不同时段存在“城市冷岛”现象。不同气象条件下,廊坊城市热岛强度及变化存在明显差异,晴朗无风时城市平均热岛强度最大,平均强度达1.25℃,阴雨气象条件下城市平均热岛强度最小,平均强度仅有0.10℃。

**关键词** [城市热岛效应](#) [气象条件](#) [昼夜变化](#) [廊坊](#)

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## Urban heat island effect under different meteorological conditions over Langfang, Hebei province

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**Abstract** Based on hourly air temperature data from intensive automatic weather station from September 2005 to August 2008 in Langfang, the effects of different meteorological conditions on urban heat island (UHI) were analyzed by the difference of urban and rural air temperature method. The results show that UHI at nighttime is higher than that in the daytime, while the variation range of UHI in the daytime is larger than that at nighttime. There is “urban cold island” in difference period of difference seasons. UHI is of obvious difference under different meteorological conditions in Langfang. The average UHI is strongest under clear and calm conditions and could reach 1.25 °C, while it is the weakest under rain conditions and is only 0.10 °C.

**Key words** [Urban heat island effect](#) [Meteorological conditions](#) [Daily and nocturnal variations](#) [Langfang](#)

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