[4]

[5]

[6]



Open Access						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
ŀ	Home Journals	Books	Conferences	News	About Us	Jobs	
Home > Journal > Earth & Environmental Sciences > JEP					Open Special Issues		
Indexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges					Published Special Issues		
JEP>	EP> Vol.3 No.7, July 2012				Special Issues Guideline		
Measurement of Cooling Effect of Building Environment Greening					JEP Subscription		
PDF (Size: 143KB) PP. 569-572 DOI: 10.4236/jep.2012.37068					Most popular papers in JEP		
Author(s) Qinghai Luo, Jun Zou, Xiufei Yang ABSTRACT A series of measurements showed that community greening and trees shading had different degree of cooling effect. The cooling effect of wall greening was related to factors such as heat storage capacity and the orientation of the wall, climatic conditions. As compared to the heat reduced by sheltering the solar					About JEP News		
					Frequently Asked Questions		
					Recommend to Peers		
radiation, the heat absorbed by plant transpiration had greater cooling contribution. Comprehensive considering environment, technology and economics factors, the building district greening should take trees as the priority. The trees shading can significantly drop indoor temperature and temperature fluctuation, also created better condition for night-time natural ventilation.				Recommend to Library			
				Contact Us			
KEYWORDS Wall Greening; District Greening; Trees Shading; Cooling Effect				Downloads:	300,258		
Cite this paper					Visits:	671,356	
Q. Luo, J. Zou and X. Yang, "Measurement of Cooling Effect of Building Environment Greening," <i>Journal of Environmental Protection</i> , Vol. 3 No. 7, 2012, pp. 569-572. doi: 10.4236/jep.2012.37068. References [1] R. Kumar and S. C. Kaushik, "Performance Evaluation of Green Roof and Shading for Thermal				Sponsors, Associates, and Links >>			
	Protection of Buildings," Building and Environment, Vol. 40, No. 11, 2005, pp. 1505-1517 doi:10.1016/j.buildenv.2004.11.015			, pp. 1505-1511.	The International Conference on Pollution and Treatment		
[2]	M. Tang, Z. Yang and L. Li, "There Heating Ventilating & Air Conditioning			n Natural State,"	State," Technology (PTT 2013)		
[3]	X. Chen and X. Zhang, "Study or Metope Greening by Sedum Linear pp. 12163-12164.		•				

Y. Li and Q. Shi, "Research on Decreasing Temperature and Increasing Relative Humidity of Housing

S. Li, Y. Zhao, X. Li, et al., " Effect of Urban Forests on Heat pollution and Comfortable Degree of

J. Zhao, X. Ma and Y. Xiao, " CFD Simulation of the Indoor Thermal Environment of Building Surface

Wall Greening," Meteorological and Environmental Sciences, Vol. 30, No. 1, 2007, pp. 23-25.

Human Body," Journal of Agriculture University of Henan, Vol. 29, No. 1, 1995, pp. 11-18.

Planting," Fluid Machinery, Vol. 35, No. 6, 2007, pp. 5-80.