

快报

南京市空气中花粉特征及其与气象条件关系

张军^{1,2},徐新²,张增信²,张强³,闫少峰²

1. 南京市气象局, 江苏 南京 210008; 2. 南京林业大学江苏省林业生态工程重点实验室, 江苏 南京 210037; 3. 中山大学水资源与环境系, 广东 广州 510275

收稿日期 2009-3-27 修回日期 2009-5-12 网络版发布日期 2009-10-28 接受日期 2009-5-12

摘要 根据2003-2004年南京市气象局花粉观测数据,对南京市空气中花粉浓度变化规律进行研究。结果表明,南京市花粉浓度呈双峰型分布,花粉浓度最高的月份分别出现在4-5月和9-10月,其中以4-5月份花粉浓度最高,浓度最低月份出现在12月至翌年1月。悬铃木花粉为春季最主要的致敏性花粉,其花粉数量占全年花粉总数的27%,其次为枫杨和藜科;秋季花粉污染主要是葎草和豚草,分别占全年花粉总数的3.03%和1.00%。研究发现,风速、风向会影响空气中花粉传播距离,温度和降水会影响空气中花粉浓度。

关键词 [南京市](#) [花粉浓度](#) [花粉污染](#) [致敏性](#) [气象因子](#)

分类号 [X831](#)

Allergic pollen characteristics in air and its relationship with meteorological factors in Nanjing

ZHANG Jun^{1,2},XU Xin²,ZHANG Zeng-xin², ZHANG Qiang³, YAN Shao-feng²

1. Nanjing Meteorological Bureau, Nanjing 210008, China; 2. Jiangsu Key Laboratory of Forestry Ecological Engineering, Nanjing Forestry University, Nanjing 210037, China; 3. Department of Water Resources and Environment, Sun Yat-sen University, Guangzhou 510275, China

Abstract Based on the pollen observation data from 2003 to 2004 in Nanjing, pollen concentrations changes in air were analyzed. The results indicate that monthly pollen concentrations display double peaks from April to May and from September to October. The maximum value of the pollen concentration appears from April to May, and the minimum from December to January. In spring, the major allergenic pollen of Nanjing is from chinara and accounts for 27% of all kinds of allergenic pollens, followed by the pollens of Pterocarya stenoptera and Artemisia L.. In autumn, it is from Humulus scandens and Ambrosia artemisiifolia and they account for 3.03% and 1.00% of the annual total pollens, respectively. Wind velocity and wind direction can influence the distances of pollen dispersal in air, while air temperature and precipitation can influence the pollen concentrations.

Key words [Nanjing](#) [Pollen concentration](#) [Allergenic pollen pollution](#) [Allergenicity](#) [Meteorological factors](#)

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