

Peking University Bioaerosol Laboratory Bulletin (PKU-BLB)

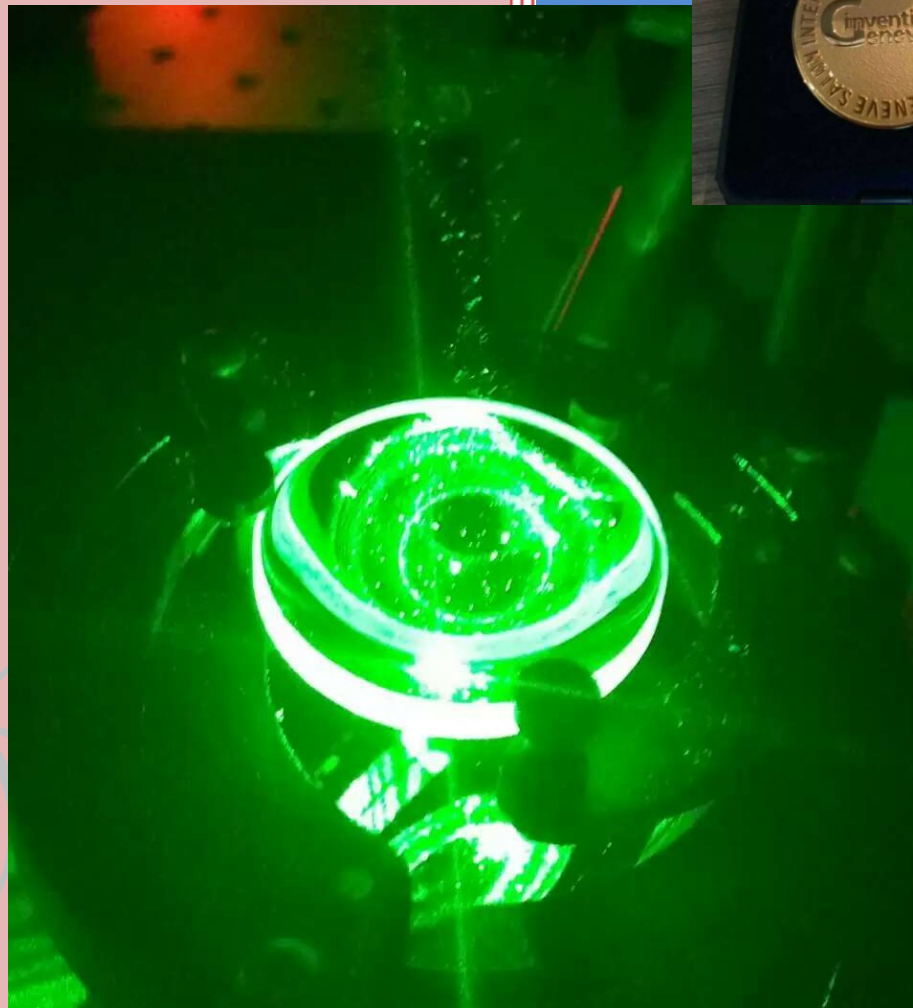
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Congratulations to Prof. Maosheng Yao for winning the **God Medal w/ congratulations of the jury** from 44th International Exhibition of Inventions of Geneva



Our laboratory has developed the laser aerosol trapping facility that can easily trap both biological (fungal spores) and non-biological PM particles.



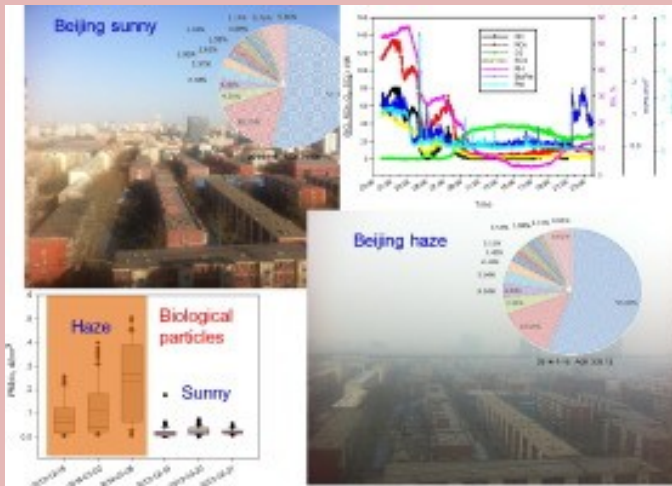
Our laboratory has successfully assisted in screening infectious agents for a child patient from an ICU in Huhehot, Inner Mongolia.

北京大学生物气溶
胶实验室

Beijing, China

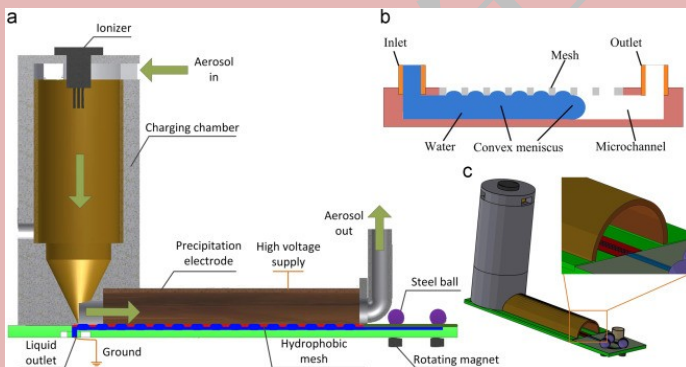
Scientific Publications

1. Our work “Ambient Bioaerosol Particle Dynamics Observed During Haze and Sunny Days in Beijing” by Wei et al 2016 was published in Science of the Total Environment.



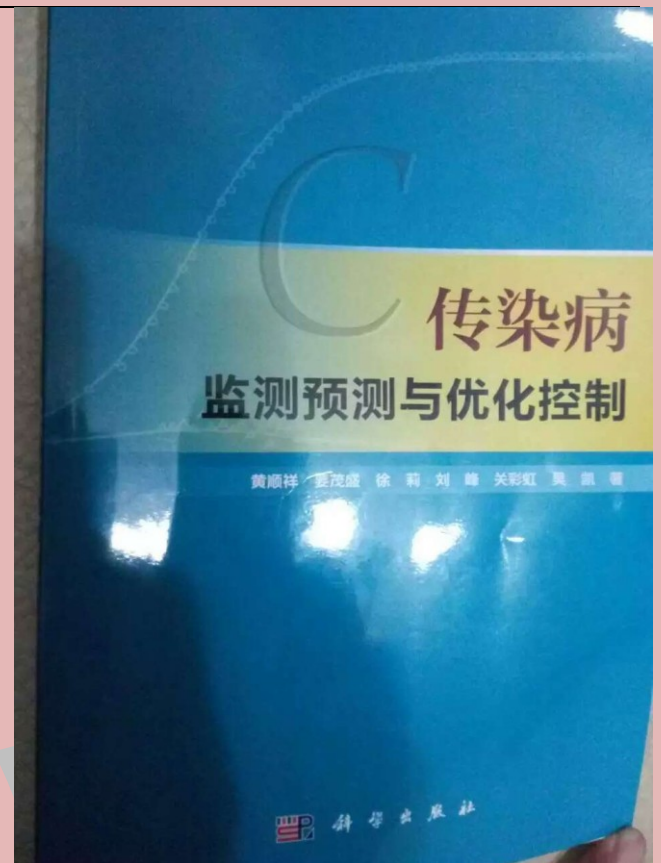
Volume 550, 15 April 2016, Pages 751–759, Science of The Total Environment.

2. Our collaboration work with Tsinghua University entitled “Development of an Integrated Microfluidic Electrostatic Sampler for Bioaerosol” by Ma et al 2016 was published in Journal of Aerosol Science.



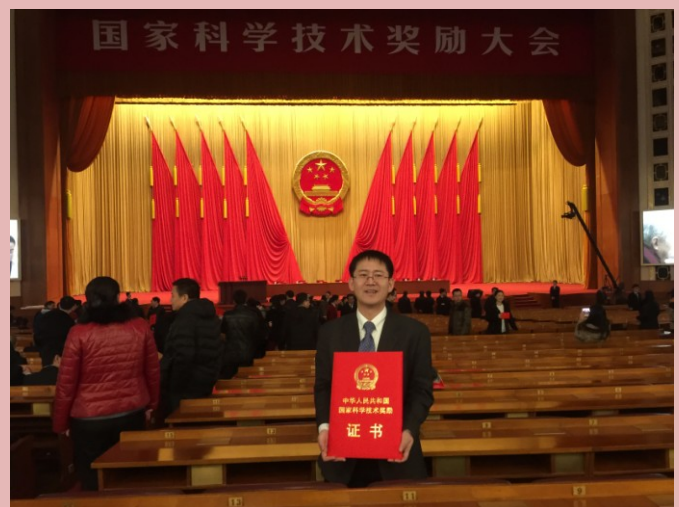
Volume 95, May 2016, Pages 84–94, Journal of Aerosol Science.

3. Together with other colleagues, Dr. Yao co-authored a book entitled “Monitoring, Prediction, and Optimized Control of Infectious Diseases” which was published by Science Press.



Academic Honors

1. Prof. Yao was awarded the second prize for “**Sate Technological Innovation Award**” at Great Hall of the People on Jan 8, 2016. The leaders of the Chinese government including President Xi attended the ceremony.





2. During the 44th International Exhibition of Inventions of Geneva held in Geneva, Dr. Yao along with his colleagues won the Gold Medal with the congratulations of the jury. The exhibition has attracted 695 participants from 40 countries exhibiting around 1000 inventions. Details about the exhibition can be found at http://www.inventions-geneva.ch/images/pdf/E_N2016-SCoPresFinal.pdf



Dr. Yao holding the Gold Medal outside the Geneva Exhibition Hall

Research Grants

1. Our group has won an international collaboration grant jointly sponsored by NSFC and French National Research Center. The proposal is designed to study microbial composition differences both for the ambient air and also from human respiratory samples.

Academic Conferences

1. Dr. Yao gave a talk regarding use of single living yeast cell for monitoring ambient PM toxicity during a conference specially designed for studying air pollution in China in Shen zhen.

Other Selected Scientific Activities

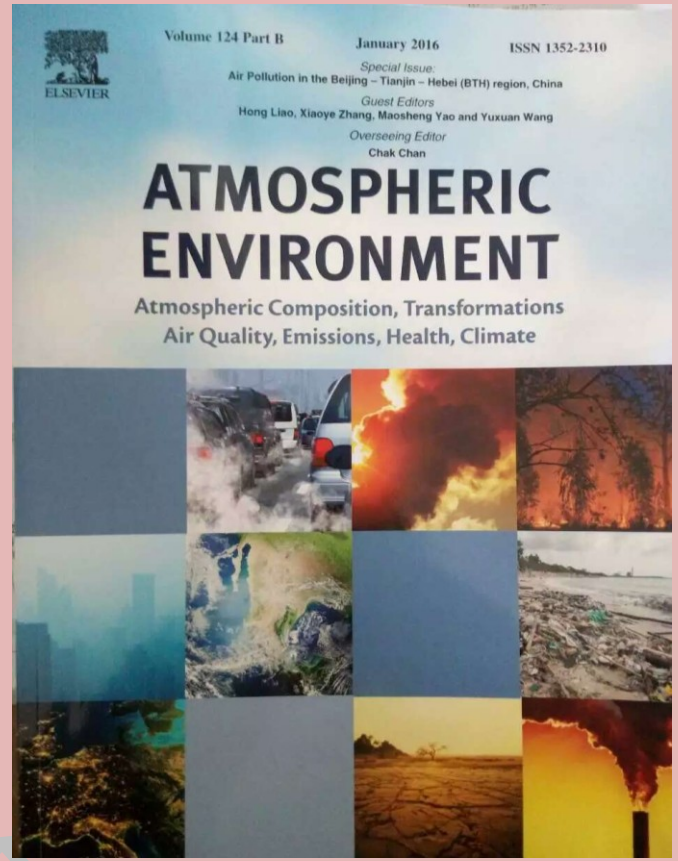
1. On March 22, 2016, our team including Prof. Maosheng Yao and graduate student Yunhao Zheng fled with our onsite infection screening system to Huhehot in response to an emergent ICU 2-year-old case with an unknown infection. Using our onsite sample processing technology together with a commercial LAMP-based equipment, our team has successfully indentified the main pathogens. Details about the report can be found [here](http://dzb.fawan.com/html/2016-03/30/content_597567.htm)



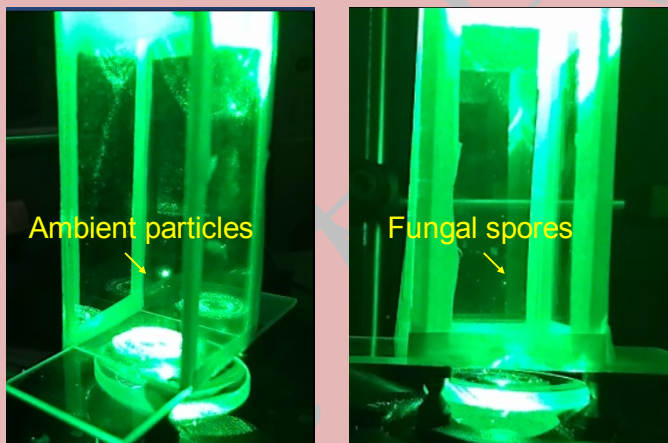
Dr. Yao helping outside an ICU



New report by Fazhi Daily



2. Our laboratory has developed the laser aerosol trapping facility that can be used to trap both biological and non-biological particles.

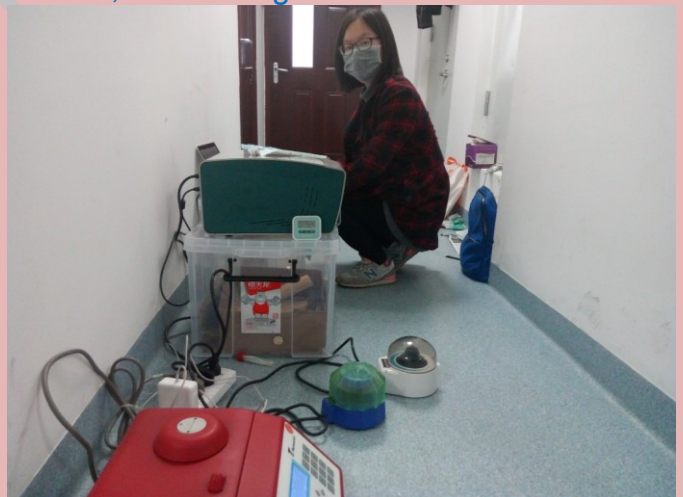


Aerosol particles trapped by single laser beam

3. Dr. Yao was one of the Guest Editors for a special issue in Atmospheric Environment.

Student News

1. Graduate student Yunhao Zheng also participated in the ICU patient helping effort in Huehot, Inner Mongolia.



Our next issue is expected to be in August 2016 & we look forward to exciting news from our group. For other information, please visit our laboratory web site: www.yaopkulab.com. All contents contained in this document are copyrighted and explained by PKU Bioaerosol Laboratory.