

[首页](#) | [实验室介绍](#) | [研究方向](#) | [人才队伍](#) | [学术交流](#) | [研发能力](#) | [发表论文](#) | [AAQR刊物](#) | [数据及信息中心](#)

  [GO](#)

当前位置：首页 > 发表论文

## 2012年发表论文

时间：2012-12-17 来源： 作者： 点击：次

- 1.Cao, J.J., Wang, Q.Y., Chow, J.C., et al. Impacts of aerosol compositions on visibility impairment in Xi'an, China. *Atmospheric Environment*, 2012, 59, 559–566  
Article Full Text PDF (468 KB)
- 2.Cao, J.J., Xu, H.M., Xu, Q., et al. Fine Particulate Matter Constituents and Cardiopulmonary Mortality in a Heavily-Polluted Chinese City. *Environmental Health Perspectives*, 2012, 120, 3, 373–378  
Article Full Text PDF (500 KB)
- 3.Cao, J.J., Zhu, C.S., Tie, X.X., et al. Characteristics and sources of carbonaceous aerosols from Shanghai, China. *Atmospheric Chemistry and Physics Discussions*, 2012, 12, 16811–16849-220  
Article Full Text PDF (1.04 MB)
- 4.Cao, J.J., Huang, H., Lee, S.C., et al. Indoor/outdoor relationships for organic and elemental carbon in PM<sub>2.5</sub> at residential homes in Guangzhou, China. *Aerosol & Air Quality Research*, 2012, 12: 902–910  
Article Full Text PDF (252 KB)
- 5.Cao, J.J., Shen, Z.X., Chow, J.C., et al. Winter and summer PM<sub>2.5</sub> chemical composition in fourteen Chinese cities. *Journal of the Air & Waste Management Association*, 2012, DOI: 10.1080/10962247.2012.701193  
Article Full Text PDF (1.50 MB)
- 6.Cao, L.N.Y., Cao, J.J., Lee, S.C., et al. Numerical Simulation of the Micro Environment in the Han Yang Mausoleum Museum via Fluent. *Aerosol & Air Quality Research*, 2012, 12, 4, 544–552  
Article Full Text PDF (732 KB)
- 7.Cheng, M.C., You, C.F., Cao, J.J., et al. Spatial and seasonal variability of water-soluble ions in PM<sub>2.5</sub> aerosols over 14 major cities in China. *Atmospheric Environment*, 2012, 60, 182–192  
Article Full Text PDF (1.21 MB)
- 8.Baumgardner D., Popovicheva, O., Cao, J.J., et al. Soot reference materials for instrument calibration and intercomparisons: A workshop summary with recommendations. *Atmospheric Measurement Techniques*, 2012, 5, 1869–1887  
Article Full Text PDF (1.75 MB)
- 9.Dai, W.T., Ho, S.S.H., Cao, J.J., et al. Seasonal and diurnal variations of mono- and di-carbonyls in Xi'an, China. *Atmospheric Research*, 2012, 113, 102–112  
Article Full Text PDF (480 KB)
- 10.Dai, W.T., Ho, S.S.H., Cao, J.J. et al. Characterization of particulate-phase high molecular weight mono-carbonyls (C<sub>#</sub>>5) and dicarbonyls in urban atmosphere of Xi'an, China. *Aerosol & Air Quality Research*, 2012, 12: 892–901  
Article Full Text PDF (690 KB)
- 11.Fu, T.M., Cao, J. J., Zhang, X. Y., et al. Carbonaceous aerosols in China: top-down constraints on primary sources and estimation

of secondary contribution. *Atmospheric Chemistry and Physics*, 2012, 14, 2762-2771

Article Full Text PDF (2.36 MB)

12. Han, Y.M., Cao, J.J., Wu, F., et al. Geochemistry and environmental assessment of major and trace elements in the surface sediments of the Wei River, China. *Journal of Environmental Monitoring*, 2012, 14, 2762-2771

Article Full Text PDF (1.79 MB)

13. Ho, S.S.H., Ho, K.F., Cao, J.J., et al. Quantification of carbonate carbon in aerosol filter samples using a modified thermal/optical carbon analyzer (M-TOCA). *Analytical Methods*, 2012, 4, 2578-2584

Article Full Text PDF (381 KB)

14. Ho, S.S.H., Ho, K.F., Lee, S.C., et al. Carbonyl emissions from vehicular exhausts sources in Hong Kong. *Journal of the Air & Waste Management Association*. 2012, 62, 2, 221-234

Article Full Text PDF (900 KB)

15. Tafeng Hu, Junji Cao, Zhenxing Shen, Gehui Wang, Shuncheng Lee, Kinlai Ho, Size Differentiation of Individual Atmospheric Aerosol during Winter in Xi'an, China. *Aerosol and Air Quality Research*, 2012, 12: 951-960

Article Full Text PDF (720 KB)

16. Huang, H., Zou, C.W., Cao, J.J., et al. Water-soluble ions in PM<sub>2.5</sub> on the Qianhu Campus of Nanchang University, Nanchang City: Indoor-Outdoor Distribution and Source Implications. *Aerosol & Air Quality Research*, 2012, 12, 3, 435-439

Article Full Text PDF (878 KB)

17. Huang, W., Cao, J.J., Tao, Y.B., et al. Seasonal Variation of Chemical Species Associated with Short-term Mortality Effects of PM<sub>2.5</sub> in Xi'an, A Central City in China. *American Journal of Epidemiology*, 2012, 175, 6, 556-566

Article Full Text PDF (168 KB)

18. Huang, Y., Ho, S.S.H., Ho, K.F., et al. Optimization of solid-phase microextraction (SPME) to determine airborne biogenic volatile organic compounds (BVOCs): An application for measurement of household cleaning products. *Analytical Methods*, 2012, 4, 277-283

Article Full Text PDF (324 KB)

19. Huang, Y., Lee, S.C., Ho, K.F., et al. Effect of ammonia on ozone-initiated formation of indoor secondary products with emissions from cleaning products. *Atmospheric Environment*, 2012, 58, 224-231

Article Full Text PDF (793 KB)

20. Lee, Y.H., Lamarque, J.F., Flanner, M.G., Jiao, C., Shindell, D.T., Berntsen, T., Bisiaux, M.M., Cao, J.J., et al. Evaluation of preindustrial to present-day black carbon and its albedo forcing from ACCMIP (Atmospheric Chemistry and Climate Model Intercomparison Project). *Atmospheric Chemistry and Physics Discussions*, 2012, 12, 21713-21778

Article Full Text PDF (6.23 MB)

21. Li, G.H., Lei, W., Bei, N., et al. Contribution of garbage burning to chloride and PM<sub>2.5</sub> in Mexico City. *Atmospheric Chemistry and Physics Discussions*, 2012, 12, 13667-13689

Article Full Text PDF (2.27 MB)

22. Li, J.J., Wang, G.H., Zhou, B.H., et al. Airborne particulate organics at the summit (2060 m, a.s.l.) of Mt. Hua in central China during winter: Implications for biofuel and coal combustion. *Atmospheric Research*, 2012, 106, 108-119

Article Full Text PDF (1.26 MB)

23. Li, Y.C., Yu, J.Z., Ho, S.S.H., et al. Chemical characteristics of PM<sub>2.5</sub> and organic aerosol source analysis during cold front episodes in Hong Kong, China. *Atmospheric Research*, 2012, 118, 41-51

Article Full Text PDF (733 KB)

24. Li, Y.S., Cao, J.J., Li, J.J., et al. Molecular distribution and seasonal variation of aliphatic and polycyclic aromatic hydrocarbons in PM<sub>2.5</sub> in Beijing during 2006. *Particuology*, 2012, accepted

Article Full Text PDF

- 25.Lin, M., Chan, C.Y., Cao, J.J., et al. Recent rapid changes of atmospheric visibility in four major megacities over China: Effects of air quality and meteorological condition. *Aerosol & Air Quality Research*, 2012, in Press  
Article Full Text PDF
- 26.Liu, L.B., Wu, S., Cao, J.J., et al. Monitoring of atmospheric radionuclides from the fukushima nuclear accident and its impact on the Xi'an, China. *Chinese Science Bulletin*, 2012, accepted  
Article Full Text PDF
- 27.Pongpiachan, S., Thumanu, K., Cao, J.J., et al. Diurnal variation and spatial distribution effects on sulfur speciation in aerosol samples as assessed by X-Ray absorption near-edge structure (XANES). *Journal of Analytical Methods in Chemistry*, 2012, 696080, 10 pages  
Article Full Text PDF (3.96 MB)
- 28.Tao, J., Cao, J.J., Zhang, R.J., et al. Reconstructed light extinction coefficients using chemical compositions of PM<sub>2.5</sub> in winter in Urban Guangzhou, China. *Advance in Atmospheric Science*, 2012, 29, 2, 359–368  
Article Full Text PDF (689 KB)
- 29.Wang, B., Ho, S.S.H., Ho, K.F., et al. An environmental chamber study of the characteristics of air pollutants released from environmental tobacco smoke. *Aerosol & Air Quality Research*, 2012, in press139\_WangB\_AAQR\_2012.pdf  
Article Full Text PDF (1.63 MB)
- 30.Wang, G.H., Li, J.J., Cheng, C.L., et al. Observation of atmospheric aerosols at Mt. Hua and Mt. Tai in central and east China during spring 2009-Part 2: Impact of dust storm on organic aerosol composition and size distribution. *Atmospheric Chemistry and Physics*, 2012, 12, 4065–4080  
Article Full Text PDF (7.43 MB)
- 31.Wang, G.H., Kawamura, Cao, J.J., et al. Molecular Distribution and Stable Carbon Isotopic Composition of Dicarboxylic Acids, Ketocarboxylic Acids, and alpha-Dicarbonyls in Size-Resolved Atmospheric Particles From Xi'an City, China. *Environmental Science & Technology*, 2012, 46, 4783–4791  
Article Full Text PDF (940 KB)
- 32.Wang, G.H., Zhou, B.H., Cheng, C.L., et al. Impact of Gobi desert dust on aerosol chemistry of Xi'an, inland China: Differences in composition and size distribution between the urban ground surface and the mountain atmosphere. *Atmospheric Chemistry and Physics Discussions*, 2012, 12, 21355–21397  
Article Full Text PDF (12.7 MB)
- 33.Wang, M., Xu, B.Q., Cao, J.J., et al. The Influence of Dust on Quantitative Measurements of Black Carbon in Ice and Snow when Using a Thermal Optical Method. *Aerosol Science & Technology*, *Aerosol Science & Technology* 46:60–69, 2012.  
Article Full Text PDF (542 KB)
- 34.Wang, Q.Y., Schwarz, J.P., Cao, J.J., et al. Single particle characterization of black carbon aerosol in the Northeast Tibetan Plateau, China. *Atmospheric Chemistry and Physics Discussions*, 2012, 12, 21947–21976  
Article Full Text PDF (1.33 MB)
- 35.Wang, X., Shen, Z.X., Cao, J.J., et al. Characteristics of surface ozone at an urban site of Xi'an in Northwest China. *Journal of Environmental Monitoring*, 2012, 14, 116–126  
Article Full Text PDF (940 KB)
- 36.Watson, J.G., Chow, J.C., Chen, L.W.A., et al. Elemental and morphological analyses of filter tape deposits from a beta attenuation monitor. *Atmospheric Research*, 2012, 106, 181–189  
Article Full Text PDF (1.21 MB)
- 37.Xu, B.Q., Cao, J.J., Li, Z.Q., et al. Post-depositional enrichment of black soot in snow-pack and accelerated melting of Tibetan glaciers. *Environmental Research Letters*, 2012, 7, 014022  
Article Full Text PDF (1.25 MB)
- 38.Xu, H.M., Cao, J.J., Ho, K.F., et al. Lead concentrations in fine particulate matter after the phasing out of leaded gasoline in Xi'an,

China. Atmospheric Environment, 2012, 46, 217–224

Article Full Text PDF (452 KB)

39.Zhang, N.N., He, Y.Q., Cao, J.J., et al. Long-term trends in chemical composition of precipitation at Lijiang, southeast Tibetan Plateau, southwestern China. Atmospheric Research 2012, 106, 50–60

Article Full Text PDF (893 KB)

40.Zhang, N.N., Cao, J.J., Ho, K.F., et al. Chemical characterization of aerosol collected at Mt. Yulong in wintertime on the southeastern Tibetan Plateau. Atmospheric Research, 2012, 107, 76–85

Article Full Text PDF (1.40 MB)

41.Zhao, J.B., Cao, J.J., Shao, T.J., et al., Discovery and study of silver sulfate mineral in S-5 in the eastern suburb of Xi'an. Science China Earth Sciences, 2012, 55, 3, 456–463

Article Full Text PDF (1.83 MB)

42.Zhou, J.M., Cao, J.J., Zhang, R.J., et al. Carbonaceous and Ionic Components of Atmospheric Fine Particles in Beijing and their Impact on Atmospheric Visibility. Aerosol & Air Quality Research, 2012, 12, 492–502

Article Full Text PDF (437 KB)

43.Zhu, C.S., Tsai, C.J., Chen, S.C., et al. Positive sampling artifacts of organic carbon fractions for fine particles and nanoparticles in a tunnel environment. Atmospheric Environment, 2012, 54, 225–230

Article Full Text PDF (323 KB)

44.Zhu, C.S., Cao, J.J., Shen, Z.X., et al. The indoor and outdoor chemical components of PM 2.5 in rural area of northwestern China-Case study. Aerosol & Air Quality Research, 2012, in press

Article Full Text PDF (894 KB)

45.Zhang, R.J., Tao, J., Cao J.J., et al. Characterization of springtime atmospheric organic and elemental carbon of PM 2.5 in a typical semi-arid area of northeastern China. Aerosol & Air Quality Research, 2012, 12: 792–802, 2012

Article Full Text PDF (694 KB)

46.Han, Y. M., J. R. Marlon, J. J. Cao, Z. D. Jin, and Z. S. An, Holocene linkages between char, soot, biomass burning and climate from Lake Daihai, China, Global Biogeochem. Cycles, 2012, 26, GB4017, doi:10.1029/2011GB004197.

Article Full Text PDF (371 KB)

47.Zhenxing Shen, Leiming Zhang, Junji Cao, Jing Tian, Li Liu, Geihui Wang, Zhuzi Zhao, Xin Wang, Renjian Zhang, Suixin Liu, Chemical composition, sources, and deposition fluxes of water-soluble inorganic ions obtained from precipitation chemistry measurements collected at an urban site in northwest China, Journal of Environmental Monitoring, 2012, 14, 3000-3008

Article Full Text PDF (679KB)

48.Changlin Zhan, Junji Cao, Yongming Han, Shaopeng Huang, Xiaming Tu, Ping Wang, Zhisheng An, Spatial distributions and sequestrations of organic carbon and black carbon in soils from the Chinese loess plateau, Science of the Total Environment, 2012, in press

Article Full Text PDF (1.57MB)

49.H. Huang, K.F. Ho, S.C. Lee, et al. Characteristics of carbonaceous aerosol in PM2.5: Pearl Delta River Region, China. Atmospheric Research 2012, 104-105, 227 - 236

Article Full Text PDF (720 KB)

50.Mang Lin, Jun Tao, Chuen-Yu Chan, et al. Characterization of Regression Relationship between Recent Air Quality and Visibility Changes in Megacities at Four Haze Regions of China.

Article Full Text PDF (2.39 MB)

51.Jiannong Quana, b, Yang Gaoa, Qiang Zhanga, Evolution of planetary boundary layer under different weather conditions, and its impact on aerosol concentrations. Particology, 2012, 1-7

Article Full Text PDF (1003 KB)

52. Qiyuan Wang, Junji Cao, Jun Tao, Zhenxing Shen, Xinying Tang, Lei Luo. Chemical characteristics of PM2.5 on dust storms and air pollution events at Chengdu, China. *Particuology*, 11, 70-77, 2012.

[Article Full Text PDF \(863 KB\)](#)

53. Li Y.S., Cao J.J., et al., Molecular distribution and seasonal variation of aliphatic and polycyclic aromatic hydrocarbons in PM2.5 in Beijing during 2006. *Particuology*, 11, 78-85, 2012.

[Article Full Text PDF \(893 KB\)](#)

---

[【打印本页】](#) [【关闭本页】](#)

版权所有 © 中国科学院地球环境研究所粉尘与环境研究室