

Publication lists: Zongbo Shi

1. Li, W., **Shi, Z.**, Zhang, D., Zhang, X., Li, P., Feng, Q., Yuan, Q., Wang, W., 2012. Haze particles over a coal-burning region in the China Loess Plateau in winter: three flight missions in December 2010. *Journal of Geophysical Research-Atmosphere*, accepted on May 2012, <http://dx.doi.org/10.1029/2012JD017720>.
2. **Shi, Z.**, Krom, M., Jickells, T., Bonneville, S., Carslaw, K.S., Mihalopolous, N., Baker, A.R., Benning, L.G., 2012. Impacts on iron solubility in the mineral dust by processes in the source region and the atmosphere: A review. *Aeolian Research*, 21-42, <http://dx.doi.org/10.1016/j.aeolia.2012.03.001>.
3. Tan, J.H., Guo, S.J., Ma, Y.L., Yang, F.M., He, K.B., Yu, Y.C., Wang, J.W., **Shi, Z.B.**, Chen, G.C., 2012. Non-methane hydrocarbons and their ozone formation potentials in Foshan, China. *Aerosol and Air Quality Research*, 12: 383–394, <http://dx.doi.org/10.4209/aaqr.2011.08.0127>.
4. Yang, F., Tan, J., **Shi, Z.B.**, Cai, Y., He, K., Ma, Y., Duan, F., Okuda, T., Tanaka, S., Chen, G., Bai, L., 2012. Five-year record of atmospheric precipitation chemistry in urban Beijing, China. *Atmospheric Chemistry Physics*, 12, 2025-2035, <http://dx.doi.org/10.5194/acp-12-2025-2012>.
5. He, K., Zhao, Q., Ma, Y., Duan, F., Yang, F., **Shi, Z.B.**, Chen, G., 2012. Spatial and seasonal variability of PM_{2.5} acidity at two Chinese megacities: insights into the formation of secondary inorganic aerosols. *Atmospheric Chemistry Physics*, 12, 1377–1395, <http://dx.doi.org/10.5194/acp-12-1377-2012>.
6. **Shi, Z.B.**, Woodhouse, M., Carslaw, K., Krom M., Mann, G., Baker A., Savov, I., Fones, G., Brooks, B., Drake, N., Jickells T., Benning L., 2011. Minor effect of physical size sorting on iron solubility of transported mineral dust, *Atmospheric Chemistry and Physics*, 11, 8459-8469, <http://dx.doi.org/10.5194/acp-11-8459-2011>.
7. Nenes, A., Krom, M., Mihalopoulos, N., Van Cappellen, P., **Shi, Z.**, Bougiatioti, A., Zampas, P., Herubt, B., 2011. Atmospheric acidification of mineral aerosols: A source of bioavailable phosphorus for the oceans *Atmospheric Chemistry and Physics*, 11, 6265–6272, <http://dx.doi.org/10.5194/acp-11-6265-2011>.
8. **Shi, Z.**, Krom, M., Bonneville, S., Baker, A., Bristow, C., Drake, N., Mann, G., Carslaw, K., McQuaid, J., Jickells, T., Benning, L., 2011. Influence of chemical weathering and aging of iron oxides on the potential iron solubility of Saharan dust during simulated atmospheric processing. *Global Biogeochemical Cycles*, 25, GB2010, <http://dx.doi.org/10.1029/2010GB003837>.
9. **Shi, Z.**, Bonneville, S., Krom, M., Carslaw K., Jickells, T., Baker, A., Benning, L., 2011. Dissolution kinetics of iron in the mineral dust at low pH during simulated atmospheric processing. *Atmospheric Chemistry and Physics*, 11, 995-1007, <http://dx.doi.org/10.5194/acp-11-995-2011>.
10. **Shi, Z.**, Krom, M., Bonneville, S., Baker, A., Jickells, T., Benning, L., 2009. Formation of iron nanoparticles and increase in iron reactivity in the mineral dust during simulated cloud processing. *Environmental Science & Technology*, 43, 6592-6596, <http://dx.doi.org/10.1021/es901294g>.
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17. **Shi, Z.**, Shao, L., Jones, T.P., Whittaker, A.G., Lu, S., Bérubé, K.A., He, T. and Richards, R. J., 2003. Characterization of airborne individual particles collected in an urban area, a satellite city and a clean air site in Beijing, 2001. *Atmospheric Environment*, 37, 4097-4108, [http://dx.doi.org/10.1016/S1352-2310\(03\)00531-4](http://dx.doi.org/10.1016/S1352-2310(03)00531-4).
18. Shao, L., Li, W., Yang, S., **Shi, Z.**, Lu, S., 2007. Mineralogical characteristics of airborne particles collected in Beijing during a severe dust storm period in spring 2002. *Science in China-D*, 50, 953-959.
19. Whittaker, A.G., Jones, T. P., Shao, L. Y., **Shi, Z. B.** & Richards, R.J., 2003, Mineral dust in urban air, Beijing, China. *Mineralogical Magazine*, 67, 171-180.
20. Shao, L., **Shi, Z.**, Jones, T. P., Li, J., Whittaker, A. G., Bérubé, K. A., 2006. Bioreactivity of particulate matter in

Beijing air: Results from plasmid DNA assay. *Science of the Total Environment*, 367, 261-272, <http://dx.doi.org/10.1016/j.scitotenv.2007.08.016>.

The following papers are in Chinese, most of which with English Abstract.

21. **Shi, Z.**, He, K., Chen, Y., Yang, F., Zhang, J., Liu, Y., Ma, Y., 2008. Influence of fog processes on characteristics of individual particles in the urban atmosphere of Beijing. *Huanjing Kexue (Environmental Sciences)*, 29, 551-556. (In Chinese with English abstract)
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25. Li, W., Shao, L., **Shi, Z.**, Li, J., Yang, S., 2008. Physical and chemical characteristics of individual mineral particles in an urban fog episode. *Environmental Sciences*, 29, 254-258. (In Chinese with English abstract)
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27. Ji, H., Zhang, D., Shinohara, R., Fujiie, W., Koga, M., **Shi, Z.**, and Nomiyama, K., 2007. Particulate polycyclic aromatic hydrocarbons in the urban atmosphere of Kumamoto, Japan under mild weather. *Eaorozu Kenkyu (Aerosol Research)*, 22(2), 135-142
28. Lu, S., Shao, L., **Shi, Z.**, 2004. XRD analysis of mineral compositions in inhalable particulate matter (PM₁₀). *Environmental Monitoring in China*, 20(1), 9-11. (In Chinese with English abstract)
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30. Lu, S., Shao, L., **Shi, Z.**, Li, H., Xiao, Z., 2003. Mineralogy study of inhalable particles in environmental atmosphere. *Journal of Liaoning Technical University*, 22(5), 707-710. (In Chinese with English abstract)
31. Li, H., Zeng, F., Shao, L., **Shi, Z.**, 2002. Current status of study on the human health effects of inhalable particulates. *Journal of Environmental Health*, 19(1), 85-87. (In Chinese with English abstract)
32. Li, H., Shao, L., Shan, Z., **Shi, Z.**, 2001. The advances and prospects of study on particulate organics in the atmosphere. *Environmental Monitoring in China*, 17, 62-67. (In Chinese with English abstract)
33. Shao, L., **Shi, Z.**, Huang, Q., 2000. A Study of Inhalable particles in the urban ambient air. *Environmental Protection*, 2000(1), 24-29. (In Chinese)
34. Hao, L., Shao, L., **Shi, Z.**, Zhang, P., 2000. The application of depositional cycle frequency curve to episodic coal accumulation: with an example from the Upper Permian in southwest China. *Journal of Palaeogeography*, 2(4), 12-19. (In Chinese with English abstract)
35. Peng, S., He, H., Shao, L., **Shi, Z.**, Gao, Y., 2002. Carbon isotopic compositions of the Cambrian-Ordovician carbonates in Tarim Basin. *Journal of China University of Mining & Technology*, 31(4): 353-357. (In Chinese with English abstract)
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Shao, L., Yang, S., **Shi, Z.**, Lu, S., 2006. A study on physico-chemistry and bioreactivity of inhalable particulates in urban air. Meteorological Publishing House, China, 209pp. (In Chinese with English Abstract)