



中国科学院气溶胶化学与物理重点实验室

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2012年发表论文列表

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序号	题目	作者	期刊	年、卷(期)、页码
1	Impacts of aerosol compositions on visibility impairment in Xi'an, China (./W020150319586009297542.pdf)	Cao, J., Wang, Q., Chow, J. C. et al.	Atmospheric Environment	2012, 59, 559-566
2	Diurnal Variation and Spatial Distribution Effects on Sulfur Speciation in Aerosol Samples as Assessed by X-Ray Absorption Near-Edge Structure (XANES) (./W020150319590688087999.pdf)	Pongpiachan, Siwatt; Thum-anu, Kanjana; Pattalung, Warangkana Na; et al.	Journal of Analytical Methods in Chemistry	2012
3	Reconstructed light extinction coefficients using chemical compositions of PM2.5 in winter in Urban Guangzhou, China (./W020150319609212845164.pdf)	Tao, J., Cao, J.J., Zhang, R. J., et al.	Advance in Atmospheric Science	2012, 29, 2, 359-368
4	An environmental chamber study of the characteristics of air pollutants released from environmental tobacco smoke (./W020150319610248974428.pdf)	Wang, B., Ho, S.S.H., Ho, K.F., et al.	Aerosol & Air Quality Research	2012, 12, 6, 1269-1281
5	Real-time characterization of particle-bound polycyclic aromatic hydrocarbons at a heavily trafficked roadside Site (./W020150326619205394944.pdf)	Cheng, Y., Ho, K.F., Wu, W.J., et al.	Aerosol & Air Quality Research	2012, 12, 6, 1181-1188
6	Characterization of Particulate-phase High molecular weight mono-carbonyls (C#>5) and dicarbonyls in urban atmosphere of Xi'an, China (./W020150320313994205672.pdf)	Dai, W.T., Ho, S.S.H., Ho, K.F., et al.	Aerosol & Air Quality Research	2012, 12, 5, 892-901
7	Size-differentiated characterization of individual atmospheric aerosol particles during winter in Xi'an, China	Hu, T.F., Cao, J.J., Shen, Z. X., et al.	Aerosol and Air Quality Research	2012, 12, 5, 951-960

8	Effect of Aerosols on Visibility and Radiation in Spring 2009 in Tianjin, China (./W020150326619205434798.pdf)	Han, S.Q., Bian, H., Zhang, Y.F., et al.	Aerosol and Air Quality Research	2012, 12, 2, 211-217
9	Indoor and Outdoor Chemical Components of PM_{2.5} in the Rural Areas of Northwestern China-Case Study (./W020150320328038703080.pdf)	Zhu, C.S., Cao, J.J., Shen, Z.X., et al.	Aerosol and Air Quality Research	2012, 12, 6, 1157-1165
10	Characterization of atmospheric organic and elemental carbon of PM_{2.5} in a typical semi-arid area of northeastern China (./W020150320330984099570.pdf)	Zhang, R.J., Tao, J., Ho, K.F., et al.	Aerosol and Air Quality Research	2012, 12, 5, 792-802
11	Aerosol and Air Quality Research in Asia Preface of Special Issue (./W020150326619205468898.pdf)	Cao, J.J.	Aerosol and Air Quality Research	2012, 12, 6, 1037-1039
12	Regression Analyses between Recent Air Quality and Visibility Changes in Megacities at Four Haze Regions in China (./W020150320339320818134.pdf)	Lin, M., Tao, J., Chan, C.Y., et al.	Aerosol and Air Quality Research	2012, 12, 6, 1049-1061
13	Indoor#Outdoor Relationships for Organic and Elemental Carbon in PM_{2.5} at Residential Homes in Guangzhou, China (./W020150320340513069846.pdf)	Cao, J.J., Huang, H., Lee, S.C., et al.	Aerosol and Air Quality Research	2012, 12, 5, 902-910
14	Carbonaceous and Ionic Components of Atmospheric Fine Particles in Beijing and their Impact on Atmospheric Visibility (./W020150320344599358246.pdf)	Zhou, J.M., Cao, J.J., Zhang, R.J., et al.	Aerosol & Air Quality Research	2012, 12, 492-502
15	Numerical Simulation of the Micro Environment in the Han Yang Mausoleum Museum via Fluent (./W020150320347330020082.pdf)	Cao, L.N.Y., Cao, J.J., Lee, S.C., et al.	Aerosol & Air Quality Research	2012, 12, 4, 544-552
16	Water-soluble Ions in PM _{2.5} on the Qianhu Campus of Nanchang University, Nanchang City: Indoor-Outdoor Distribution and Source Implications (./W020150320348688388410.pdf)	Huang, H., Zou, C.W., Cao, J.J., et al.	Aerosol & Air Quality Research	2012, 12, 3, 435-439
17	The Influence of Dust on Quantitative Measurements of Black Carbon in Ice and Snow when Using a Thermal Optical Method (./W020150320350395460821.pdf)	Wang, M., Xu, B.Q., Cao, J.J., et al.	Aerosol Science & Technology	2012, 46, 1, 60-69
18	Seasonal Variation of Chemical Species Associated with Short-term Mortality Effects of PM_{2.5} in Xi'an, A Central City in China (./W020150320356252372801.pdf)	Huang, W., Cao, J.J., Tao, Y.B., et al.	American Journal of Epidemiology	2012, 175, 6, 556-566
19	Optimization of solid-phase microextraction (SPME) to determine airborne biogenic volatile organic compounds (BVOCs): An application for measurement of household cleaning products (./W020150320357200924236.pdf)	Huang, Y., Ho, S.S.H., Ho, K.F., et al.	Analytical Methods.	2012, 4, 277-283
20	Quantification of carbonate carbon in aerosol filter samples using a modified thermal#optical carbon analyzer (M-TOCA) (./W020150320358277925689.pdf)	Ho, S.S.H., Ho, K.F., Cao, J.J., et al.	Analytical Methods	2012, 4, 2578-2584
21	Contribution of garbage burning to chloride and PM_{2.5} in Mexico City (./W020150320359386048425.pdf)	Li, G.H., Lei, W., Bei, N., et al.	Atmospheric Chemistry and Physics	2012, 12, 18, 8751-8761
22	Carbonaceous aerosols in China: top-down constraints on primary sources and estimation of secondary contribution (./W020150320360215440422.pdf)	Fu, T.M., Cao, J.J., Zhang, X.Y., et al.	Atmospheric Chemistry and Physics	2012, 12, 2725-2746
23	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 (./W020150320361525804814.pdf)	Wang, G.H., Li, J.J., Cheng, C.L., et al.	Atmospheric Chemistry and Physics	2012, 12, 4065-4080
24	Soot reference materials for instrument calibration and intercomparisons: A workshop summary with recommendations (./W020150326619205494440.pdf)	Baumgardner D., Popovich, O., Cao, J.J., et al.	Atmospheric Measurement Techniques	2012, 5, 1869-1887

25	Spatial and seasonal variability of water-soluble ions in PM_{2.5} aerosols over 14 major cities in China (/W020150320364425568177.pdf)	Cheng, M.C., You, C.F., Cao, J.J., et al.	Atmospheric Environment	2012, 60, 182–192
26	Impacts of aerosol compositions on visibility impairment in Xi'an, China (/W020150326619205582112.pdf)	Cao, J.J., Wang, Q.Y., Chow, J.C., et al.	Atmospheric Environment	2012, 59, 559–566
27	Effect of ammonia on ozone-initiated formation of indoor secondary products with emissions from cleaning products (/W020150320370966388954.pdf)	Huang, Y., Lee, S.C., Ho, K.F., et al.	Atmospheric Environment	2012, 59, 224–231
28	Lead concentrations in fine particulate matter after the phasing out of leaded gasoline in Xi'an, China (/W020150320372052570472.pdf)	Xu, H.M., Cao, J.J., Ho, K.F., et al.	Atmospheric Environment	2012, 46, 217–224
29	Positive sampling artifacts of organic carbon fractions for fine particles and nanoparticles in a tunnel environment (/W020150320373343986898.pdf)	Zhu, C.S., Tsai, C.J., Chen, S.C., et al.	Atmospheric Environment	2012, 54, 225–230
30	Chemical characteristics of PM_{2.5} and organic aerosol source analysis during cold front episodes in Hong Kong, China (/W020150320374292053726.pdf)	Li, Y.C., Yu, J.Z., Ho, S.S.H., et al.	Atmospheric Research	2012, 118, 41–51
31	Long-term trends in chemical composition of precipitation at Lijiang, southeast Tibetan Plateau, south western China (/W020150320375767852264.pdf)	Zhang, N.N., He, Y.Q., Cao, J.J., et al.	Atmospheric Research	2012, 106, 50–60
32	Elemental and morphological analyses of filter tape deposits from a beta attenuation monitor (/W020150320377559200041.pdf)	Watson, J.G., Chow, J.C., Chen, L.W.A., et al.	Atmospheric Research	2012, 106, 181–189
33	Chemical characterization of aerosol collected at Mt. Yulong in wintertime on the southeastern Tibetan Plateau (/W020150320379606934155.pdf)	Zhang, N.N., Cao, J.J., Ho, K.F., et al.	Atmospheric Research	2012, 107, 76–85
34	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 (/W020150320380538827812.pdf)	Li, J.J., Wang, G.H., Zhou, B.H., et al.	Atmospheric Research	2012, 106, 108–119
35	Seasonal and diurnal variations of mono- and dicarboxylic acids in Xi'an, China (/W020150320382956211644.pdf)	Dai, W.T., Ho, S.S.H., Cao, J.J., et al.	Atmospheric Research	2012, 113, 102–112
36	Characteristics of carbonaceous aerosol in PM_{2.5}: Pearl Delta River Region, China (/W020150320386323783041.pdf)	Huang, H., Ho, K.F., Lee, S.C., et al.	Atmospheric Research	2012, 104, 227–236
37	Seasonal variations and chemical characteristics of sub-micrometer particles (PM₁) in Guangzhou, China (/W020150326619205626915.pdf)	Tao, J., Shen, Z.X., Zhu, C.S., et al.	Atmospheric Research	2012, 118, 222–231
38	Fine Particulate Matter Constituents and Cardio-pulmonary Mortality in a Heavily-Polluted Chinese City (/W020150320389205861198.pdf)	Cao, J.J., Xu, H.M., Xu, Q., et al.	Environmental Health Perspectives	2012, 120, 3, 373–378
39	Post-depositional enrichment of black soot in snow-pack and accelerated melting of Tibetan glaciers (/W020150320393071669083.pdf)	Xu, B.Q., Cao, J.J., Li, Z.Q., et al.	Environmental Research Letters (http://erl.iop.org/)	2012, 7, 014022
40	Molecular Distribution and Stable Carbon Isotopic Composition of Dicarboxylic Acids, Keto-carboxylic Acids, and alpha-Dicarbonyls in Size-Resolved Atmospheric Particles From Xi'an City, China (/W020150320394635140299.pdf)	Wang, G.H., Kawamura, Cao, J.J., et al.	Environmental Science & Technology	2012, 46, 4783–4791
41	Rapid formation of secondary organic aerosol from the photolysis of 1-nitronaphthalene: Role of naphthoxy radical self-reaction	Healy, R.M., Chen, Y., Kourchev, I., et al.	Environmental Science & Technology	2012, 46, 21, 11813–11820
42	Soil-derived sulfate in atmospheric dust particles at Taklimakan desert (/W020150326619205679096.pdf)	Wu, F., Zhang, D.Z., Cao, J.J., et al.	Geophysical Research Letters	2012, 39

43	Holocene linkages between char, soot, biomass burning and climate from Lake Daihai, China (/W020150326619205695163.pdf)	Han, Y.M., Marlon, J., Cao, J.J., et al.	Global Biogeochemical Cycles	2012, 26, 4
44	Characteristics of surface ozone at an urban site of Xi'an in Northwest China (/W020150320400179367070.pdf)	Wang, X., Shen, Z.X., Cao, J.J., et al.	Journal of Environmental Monitoring	2012, 14, 116–126
45	Geochemistry and environmental assessment of major and trace elements in the surface sediments of the Wei River, China	Han, Y.M., Cao, J.J., Wu, F., et al.	Journal of Environmental Monitoring	2012, 14, 10, 2762–2771
46	Chemical composition, sources, and deposition fluxes of inorganic ions obtained from precipitation chemistry water-soluble measurements collected at an urban site in northwest China	Shen, Z.X., Zhang, L.M., Cao, J.J., et al.	Journal of Environmental Monitoring	2012, 14, 11, 3000–3008
47	Carbonyl emissions from vehicular exhausts sources in Hong Kong (/W020150320403840827265.pdf)	Ho, S.S.H., Ho, K.F., Lee, S.C., et al.	Journal of the Air & Waste Management Association	2012, 62, 2, 221–234
48	Winter and Summer PM_{2.5} Chemical Compositions in Fourteen Chinese Cities (/W020150320404685299882.pdf)	Cao, J.J., Shen, Z.X., Chow, J.C., et al.	Journal of the Air & Waste Management Association	2012, 62, 10, 1214–1226
49	Discovery and study of silver sulfate mineral in S₂S in the eastern suburb of Xi'an (/W020150320405371582704.pdf)	Zhao, J.B., Cao, J.J., Shao, T.J., et al.,	Science China Earth Sciences	2012, 55, 3, 456–463

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