Curriculum Vitae

Name: Ru-Jin Huang, Prof. Dr. (Chinese Academy of Sciences, Institute of Earth Environment)

Date of Birth: 18 Dec 1979

E-mail: rujin.huang@ieecas.cn

Academic Qualifications

2006.06-2009.05, PhD, Atmospheric Analytical Chemistry, University of Mainz, Germany, Mentor: Prof. Dr. Thorsten Hoffmann

2002.09-2005.07, Master, Analytical Chemistry, Xiamen University, China, Mentor: Prof. Dr. Xiaoru Wang/Prof. Zhixia Zhuang

1998.09-2002.07, Bachelor, Analytical Chemistry, Xiamen University, China, Mentor: Prof. Zhixia Zhuang

Professional Experience

2015.01-to date, Professor, Key Laboratory of Aerosol Chemistry and Physics, Institute of Earth Environment, Chinese Academy of Sciences

2013.01-2016.12, PSI Fellow/visiting Scientist, Laboratory of Atmospheric Chemistry, Paul Scherrer Institute, Switzerland, Dr. Andre Prevot/Prof. Dr. Urs Baltensperger group

2012, Three months Visiting Scientist, Department of Atmospheric Sciences, Center for Atmospheric Chemistry and Environment, Texas A&M University, USA, Prof. Dr. Renyi Zhang group

2011.01-2012.12, Government of Ireland Research Fellow, Centre for Climate & Air Pollution Studies, National University of Ireland, Galway, Prof. Dr. Colin O'Dowd group

2010.01-2010.12, Postdoctoral, Institute for Atmospheric and Environmental Science, University of Frankfurt, Prof. Dr. Andreas Engel group

2009.06-2009.12, Postdoctoral, Institute for Inorganic and Analytical Chemistry, University of Mainz, Prof. Dr. Thorsten Hoffmann group

2005-2006, Research Assistant, Key lab of Analytical Sciences of the Ministry of Education, China, Prof. Dr. Xiaoru Wang group

Research Experience

- Chemical characterization and source apportionmen8Tof thETQq0.000008871 0 595.32 841.92 reW* nBT/F1 9.96 Tf1 0 0 1
- Formation and aging of secondary organic aerosol
- Brown carbon and black carbon
- New particle formation
- Marine and urban atmosphere
- Air pollution and health
- Analytical chemistry and mass spectrometry

Honor, Awards and Professional Service

2020 China Youth Science and Technology Award (Distinguished)

2019 National Science Fund for Distinguished Young Scholars

2019 National Leading Scientists for the Ten-Thousand Talents Program

2019 "Excellence" in the final review of the CAS Hundred Talents Program

2019 Awardee of the “from 0 to 1” innovation program (10-year excellence) of the Chinese Academy of Sciences

2018 Young Scientist Award of the Chinese Academy of Sciences

2018 Schmauss Award (GAeF)

2017 Asian Young Aerosol Scientist Award

2016 China Young Scientist Award of Particuology

2016 Awardee of the one-hundred talents program of Shannxi province

2015 Awardee of the One-Thousand Young Talents Program of China

2015 China Young Aerosol Scientist Award

2010 rated 1st in the IRC EMPOWER Fellowship Award in Earth/Environment (2009-2010 call, success rate <8%)

2009 Chinese Government Award for Outstanding Student Abroad

2006-2009 3-year scholarship awarded by the German Research Foundation (DFG)

Peer reviewer of journal papers for *Mch mol mol Aimch mol iggohc mihm ngimblc bgomls h Jbsmcm ngimblc mol g hnN bhcom hpdihg hnfMch N bhifas Aibsmc f Lmlb mnlmiolh fi Aibsmc fLmlb ngimblmiolh fi limifMch ngimblc hpdihg hn ngimblc Lmlb hpdihg hnfChnlh mih f hpdihg hnfJiffomih l h fcg n Mch imb Nin f hpdihg hn n*

Peer reviewer of proposals from the Research Grants Council (RGC) of Hong Kong, the National Natural Science Foundation of China (NSFC), Poland National Science Center, European Research Council (ERC).

Projects (PI and Co-PI, > 30 M CNY)

1. “Organic aerosol” National Science Fund for Distinguished Young Scholars, National Scientific Foundation of China (NSFC), 4.0 M CNY, 2020.01-2025.12 (PI).
2. “Formation of secondary organic aerosol in the air pollution complex in northern China”, from 0 to 1 innovation program (10-year excellence) of the Chinese Academy of Sciences, 6.0 M CNY, 2019.09-2028.12 (PI).

15. "The key formation mechanisms of SOA and effects on haze pollution", Priority Program of the Chinese Academy of Sciences, 2.0 M CNY, 2014-2015 (Co-PI).
16. The Ubbo Emmius Programme for joint PhD student (The Netherlands), 2014 (Co-PI).
17. "Aircraft exhaust: Primary emissions and secondary aerosol production potential", European Commission-PSI COFUND, 01.2013-12.2014 (PI).
18. "Particle precursor gases in the coastal atmosphere", IRC Foundation, Ireland, 01.2011-12.2012 (PI).
19. "Atmospheric inorganic and organic halogen compounds from surface seawater", the EU-FP7 "ASSEMBLE" short-term visiting grant, 2012.
20. "Reaction cycling of particulate iodine in the marine boundary layer-a chamber study", the EU COST-735 "short term scientific missions", 02.2011-04.2011.
21. "Activated halogen compounds release from seaweed", the EU-FP7 "ASSEMBLE" short-term visiting grant, 2010.

Publication (H-index 48, cites >9800)

High profile

1. Huang, R. J., Zhang, Y. L., Bozzetti, C., Ho, K. F., Cao, J. J., Han, Y. M., Dällenbach, K. R., Slowik, J. G., Platt, S. M., Canonaco, F., Zotter, P., Wolf, R., Pieber, S. M., Bruns, E. A., Crippa, M., Ciarelli, G., Piazzalunga, A., Schwikowski, M., Abbaszade, G., Schnelle-Kreis, J., Zimmermann, R., An, Z. S., Szidat, S., Baltensperger, U., El Haddad, I., Prévôt, A. S. H.: High secondary aerosol contribution to particulate pollution during haze events in China, , 514, 218-222, 2014. (cites >2100)
2. Lin, C., Huang, R. J.*, Ceburnis, D., Buckley, P., Preissler, J., Wenger, J., Rinaldi, M., Facchini, M. C., O'Dowd, C.*, Ovadnevaite, J.: Extreme air pollution from residential solid fuel burning, , 1, 512-517, DOI:10.1038/s41893-018-0125-x, 2018.
3. Platt, S. M., El Haddad, I., Pieber, S. M., Huang, R. J., Zardini, A. A., Clairotte, M., Suarez-Bertoa, R., Barmet, P., Pfaffenberger, L., Wolf, R., Slowik, J. G., Fuller, S. J., Kalberer, M., Chirico, R., Dommen, J., Astorga, C., Zimmermann, R., Marchand, N., Hellebust, S., Temime-Roussel, B., Baltensperger, U., Prévôt, A. S. H.: Two-stroke scooters are a dominant source of air pollution in many cities, , 5, 3749, DOI: 10.1038/ncomms4749, 2014.
4. An, Z. S., Huang, R. J., Zhang, R. Y., Tie, X. X., Li, G. H., Cao, J. J., Zhou, W. J., Shi, Z. G., Han, Y. M., Gu, Z. L., Ji, Y. M.: Severe haze in Northern China: A synergy of anthropogenic emissions and atmospheric processes, , 116, 8657-8666, 2019.

Year 2021

5. Ni, H. Y., Huang, R. J.*, Pieber, S., Corbin, J., Stefenelli, G., Pospisilova, V., Klein, F., Gysel-Beer, M., Yang, L., Baltensperger, U., El Haddad, I., Slowik, J., Cao, J. J., Prevot, A., Dusek, U.: Brown carbon in primary and aged coal combustion emission, , 55, 5701-5710, 2021.
6. Ni, H. Y., Huang, R. J.*, Yao, P., Cosijn, M. M., Kairys, N., Zhong, H. B., Dusek, U.*: Organic aerosol formation and aging processes in Beijing constrained by size-resolved measurements of radiocarbon and stable isotopic 13C, , DOI: 10.1016/j.envint.2021.106890, 2021.
7. Lin, C. S., Huang, R. J.*, Duan, J., Xu W.: Primary and secondary organic nitrate in northwest China: A case study, , https://doi.org/10.1021/acs.estlett.1c00692, 2021.
8. Wang, K., Huang, R. J.*, Brüggemann, M., Zhang, Y., Yang, L., Ni, H., Guo, J., Wang, M., Han, J., Bilde, M., Glasius, M., Hoffmann, T.*: Urban organic aerosol composition in Eastern China differs from North to South: Molecular insight from a liquid chromatography-Orbitrap mass spectrometry study, , 21, 9089-9104, 2021.
9. Yuan, W., Huang, R. J.*, Yang, L., Wang, T., Duan, J., Guo, J., Ni, H., Chen, Y., Chen, Q., Li, Y., Dusek, U., O'Dowd, C., Hoffmann, T.: Measurement report: $PM_{2.5}$-bound nitrated aromatic compounds in Xi'an, Northwest China: Seasonal variations and contributions to optical properties of brown carbon, 21, 3685-3697, 2021.
10. Xu, W., Fossum, K. N., Ovadnevaite, J., Lin, C., Huang, R. J.*, O'Dowd, C.*, Ceburnis, D.: The impact of aerosol size-dependent hygroscopicity and mixing state on the cloud condensation nuclei potential over the north-east Atlantic. , 21, 8655-8675, 2021.

11. Yuan, W., Huang, R. J.*, Yang, L., Ni, H. Y., Wang, T., Cao, W. J., Duan, J., Guo, J., Huang, H. B., Hoffmann, T.: Concentrations, optical properties and sources of humic-like substances (HULIS) in fine particulate matter in Xi'an, Northwest China, , 789, 147902, 2021
12. Duan, J., Huang, R. J.*, Gu, Y. F., Lin, C. S., Zhong, H. B., Wang, Y., Yuan, W., Ni, H. Y., Yang, L., Chen, Y., Worsnop, D. R., O'Dowd, C.: The formation and evolution of secondary organic aerosol during summer in Xi'an: Aqueous phase processing in fog-rain days, , 756, 144077, 2021
13. Duan, J., Huang, R. J.*, Chang, Y. H., Zhong, H. B., Gu, Y. F., Lin, C. S., Hoffmann, T., O'Dowd, C.: Measurement report of the change of PM2.5 composition during the COVID-19 lockdown in urban Xi'an: enhanced secondary formation and oxidation, , 791, 148126, 2021
14. Zhong, H. B., Huang, R. J.*, Chang, Y. H., Duan, J., Lin, C. S., Chen, Y.: Enhanced formation of secondary organic aerosol from photochemical oxidation during the COVID-19 lockdown in a background site in Northwest China, , 778, 144947, 2021.
15. Huang, R. J.*, Yuan, W., Wang, T., Cao, W., Wang, Y., Lin, C., Yang, L., Guo, J., Ni, H., Wu, F.: Chemical signature and fractionation of trace elements in fine particles from anthropogenic and natural sources. , 2021.
16. Yao, P., Ni, H. Y., Paul, D., Masalaite, A., Huang, R. J.*, Meijer, H. A. J., Dusek, U.*: An automated method for thermal-optical separation of aerosol organic/elemental carbon for 13C analysis at the sub-μgC level: A comprehensive assessment, , 804, 150031, 2021.
17. Zhang, Y., Wang, K., Tong, H. J., Huang, R. J., Hoffmann, T.: The maximum carbonyl ratio (MCR) as a new index for the structural classification of secondary organic aerosol components, , https://doi.org/10.1002/rcm.9113, 2021.
18. Zhu, C. S., Qu, Y., Huang, H., Chen, J., Dai, W. T., Huang, R. J., Cao, J. J.: Black carbon and secondary brown carbon, the dominant light absorption and direct radiative forcing contributors of the atmospheric aerosols over the Tibetan Plateau, Geophys. Res. Lett., 48, e2021GL092524. https://doi.org/10.1029/2021GL092524, 2021.
19. Wu, Y. F., Xia, Y. J., Zhou, C., Tian, P., Tao, J., Huang, R. J., Liu, D. T., Wang, X., Xia, X. G., Han, Z. W., Zhang, R. J.: Effect of source variation on the size and mixing state of black carbon aerosol in urban Beijing from 2013 to 2019: Implication on light absorption, , 270, 116089, 2021.
20. Wu, Y. F., Li, J. W., Jiang, C., Xia, Y. J., Tao, J., Tian, P., Zhou, C., Wang, C. Y., Xia, X. G., Huang, R. J., Zhang, R. J.: Spectral absorption properties of organic carbon aerosol during a polluted winter in Beijing, China, 755, 142600, 2021.
21. Wang, L. W., Slowik J. G., Yandong Tong, Y., Gu, Y. F., Rai, P., Qi, L., Stefenelli, G., Baltensperger, U., Huang, R. J., Cao, J. J., Prévôt, A. S. H.: Characteristics of wintertime VOCs in urban Beijing: Composition and source apportionment, , 9, 100100, 2021.
22. Canonaco, F., Tobler, A., Chen, G., Sosedova, Y., Slowik, J. G., Bozzetti, C., Daellenbach, K. R., ElHaddad, I., Crippa, M., Huang, R. J., Furger, M., Baltensperger, U., Prévôt, A. S. H.: A new method for long-term source apportionment with time-dependent factor profiles and uncertainty assessment using SoFi Pro: application to one year of organic aerosol data, , 14, 923-943, 2021.
23. Rai, P., Slowik, J. G., Furger, M., El Haddad, I., Visser, S., Tong, Y., Singh, A., Wehrle, G., Kumar, V., Tobler, A. K., Bhattu, D., Wang, L., Ganguly, D., Rastogi, N., Huang, R. J., Necki, J., Cao, J., Tripathi, S. N., Baltensperger, U., Prévôt, A. S. H.: Highly time-resolved measurements of element concentrations in PM_{10} and $PM_{2.5}$: Comparison of Delhi, Beijing, London, and Krakow, , 21, 717-730, 2021.
24. Rai, P., Furger, M., Slowik, J. G., Zhong, H., Tong, Y., Wang, L., Duan, J., Gu, Y. F., Qi, L., Huang, R. J., Cao, J. J., Prévôt, A. S. H.: Characteristics and sources of hourly elements in PM_{10} and $PM_{2.5}$ during wintertime in Beijing, , 278, 116865, 2021.
25. Peng, C., Razafindrambinina, P. N., Malek, K. A., Chen, L., Wang, W., Huang, R. J., Zhang, Y., Ding, X., Ge, M., Wang, X., Asa-Awuku, A. A., Tang, M.: Interactions of organosulfates with water vapor under sub- and supersaturated conditions, , 21, 7135-7148, 2021.
26. Liao, K. R., Chen, Q., Liu, Y., Li, Y. J., Lambe, A. T., Zhu, T., Huang, R. J., Zheng, Y., Cheng, X., Miao, R. Q., Huang, G. C., Khuzestani, R. B., Jia, T. J.: Secondary organic aerosol formation of fleet vehicle emissions in China: Potential seasonality of spatial distributions, , 55, 7276-7286, 2021.
27. Tong, Y., Pospisilova, V., Qi, L., Duan, J., Gu, Y., Kumar, V., Rai, P., Stefenelli, G., Wang, L., Wang, Y., Zhong, H., Baltensperger, U., Cao, J., Huang, R.

HuWang, Y., Zhong, H.,

aqueous chemistry contributions to secondary organic aerosol during wintertime haze events in Beijing, , 21, 9859-9886, 2021.

Year 2020 (15*)

28. Huang, R. J.*, Yang, L., Shen, J. C., Yuan, W., Gong, Y. Q., Guo, J., Cao, W. J., Duan, J., Ni, H. Y., Zhu, C. S., Dai, W. T., Li, Y. J., Chen, Y., Chen, Q., Wu, Y. F., Zhang, R. J., Dusek, U., O'Dowd, C., Hoffmann, T.: Water-insoluble organics dominate brown carbon in wintertime urban aerosol of China: Chemical characteristics and optical properties, , 54, 7836-7847, 2020.
29. Huang, R. J.*, He, Y., Duan, J., Li, Y. J., Chen, Q., Zheng, Y., Chen, Y., Hu, W. W., Lin, C. S., Ni, H. Y., Dai, W. T., Cao, J. J., Wu, Y. F., Zhang, R. J., Xu, W., Ovadnevaite, J., Ceburnis, D., Hoffmann, T., O'Dowd, C. D.: Contrasting sources and processes of particulate species in haze days with low and high relative humidity in winter time Beijing, , 20, 9101-9114, 2020.
30. Huang, R. J.*, Duan, J., Li, Y. J.*, Chen, Q.*, Chen, Y., Tang, M., Yang, L., Ni, H. Y., Lin, C. S., Xu, W., Liu, Y., Chen, C. Y., Yan, Z., Ovadnevaite, J., Ceburnis, D., Dusek, U., Cao, J. J., Hoffmann, T., O'Dowd, C. D.: Effects of NH_3 and alkaline metals on the formation of particulate sulfate and nitrate in wintertime Beijing, 717, 137190, 2020.
31. Duan, J., Huang, R. J.*, Li, Y. J., Chen, Q.*, Zheng, Y., Chen, Y., Lin, C., Ni, H., Wang, M., Ovadnevaite, J., Ceburnis, D., Chen, C., Worsnop, D. R., Hoffmann, T., O'Dowd, C., Cao, J. J.: Summertime and wintertime atmospheric processes of secondary aerosol in Beijing, , 20, 3793-3807, 2020.
32. Yuan, W., Huang, R. J.*, Yang, L., Guo, J., Chen, Z., Duan, J., Wang, T., Ni, H., Han, Y., Li, Y. J., Chen, Q., Chen, Y., Hoffmann, T., O'Dowd, C.: Characterization of the light absorbing properties, chromophores composition and sources of brown carbon aerosol in Xi'an, Northwest China, , 20, 5129-5144, 2020.
33. Gu, Y. F., Huang, R. J.*, Li, Y. J., Duan, J., Chen, Q.*, Hu, W. W., Zheng, Y., Lin, C. S., Ni, H. Y., Dai, W. T., Cao, J. J., Liu, Q., Chen, Y., Chen, C. Y., Ovadnevaite, J., Ceburnis, D., O'Dowd, C.: Chemical nature and sources of fine particles in urban Beijing: Seasonality and formation mechanisms, 140, 105732, 2020.
34. Zhong, H. B., Huang, R. J.*, Duan, J., Lin, C. S., Gu, Y. F., Wang, Y., Li, Y. J., Zheng, Y., Chen, Q., Chen, Y., Dai, W. T., Ni, H. Y., Chang, Y. H., Worsnop, D. R., Xu, W., Ovadnevaite, J., Ceburnis, D., O'Dowd, C.: Seasonal variations in the soures of organi aerosol in Xi'an, Northwest China: The importance of biomass burning and secondary formation, , 737, 139666, 2020.
35. Wang, T., Huang, R. J.*, Li, Y. J., Chen, Q., Chen, Y., Yang, L., Guo, J., Ni, H. Y., Hoffmann, T., Wang, X. M., Mai, B. X.: One-year characterization of organic aerosol markers in urban Beijing: Seasonal variation and spatiotemporal comparison, 743, 140689, 2020.
36. Lin, C. S., Huang, R. J.*, Xu, W., Duan, J., Zheng, Y., Chen, Q., Hu, W. W., Li, Y. J., Ni, H. Y., Wu, Y. F., Zhang, R. J., Cao, J. J., O'Dowd, C.: Comprehensive source apportionment of submicron aerosol in Shijiazhuang, China: secondary aerosol formation and holiday effects, , 4, 947-957, 2020.
37. Lin, C. S., Ceburnis, D., Xu, W., Heffernan, E., Hellebust, S., Gallagher, J., Huang, R. J.*, O'Dowd, C., Ovadnevaite, J.: The impact of traffic on air quality in Ireland: insights from simultaneous kerbside and sub-urban monitoring of submicron aerosols, , 20, 10513-10529, 2020.
38. Wang, K., Huang, R. J.*, Brüggemann, M., Zhang, Y., Yang, L., Ni, H., Guo, J., Wang, M., Han, J., Bilde, M., Glasius, M., Hoffmann, T.: Urban organic aerosol composition in Eastern China differs from North to South: Molecular insight from a liquid chromatography-Orbitrap mass spectrometry study, , 20, 2020.
39. Xu, W., Ovadnevaite, J., Fossum, K. N., Lin, C., Huang, R. J.*, O'Dowd, C., Ceburnis, D.: Aerosol hygroscopicity and its link to chemical composition in coastal atmosphere of Mace Head: marine and continental air masses, , 20, 3777-3791, 2020.
40. Chang, Y. H., Huang, R. J.*, Ge, X. L., Huang, X. P., Hu, J. L., Duan, Y. S., Zou, Z., Liu, X. J., Lehmann, M. F.: Puzzling haze events in China during the Coronavirus (COVID-19) shutdown, , 47, e2020GL088533, 2020.
41. Lian, X. B., Huang, J. P., Huang, R. J.*, Liu, C. W., Wang, L. N., Zhang, T. H.: Impact of city lockdown on the air quality of COVID-19-hit of Wuhan city, 742, 140556, 2020.
42. Ni, H., Huang, R. J.*, Cosijn, M. M., Yang, L., Guo, J., Cao, J., Dusek, U.: Measurement report: Dual-carbon isotopic characterization of carbonaceous aerosol in Beijing and Xi'an: distinctions in primary versus secondary sources, 20, 16041-16053, 2020.

43. Chen Y., Zhang, S. M., Peng, C., Shi, G. M., Tian, M., Huang, R. J., Guo, D. M., Wang, H. B., Yao, X. J., Yang, F. M.: Impact of COVID-19 pandemic and control measures on air quality and aerosol light absorption in Southwestern China, 749, 141419, 2020.
44. Fossum, K.N., Ovadnevaite, J., Ceburnis, D., Preißler, J., Snider, J. R., Huang, R. J., Zuend, A., O'Dowd, C. D.: Sea-spray regulates sulfate cloud droplet activation over oceans, , 3, 14, 2020.
45. Peng, C., Yang, F. M., Tian, M., Shi, G. M., Li, L., Huang, R. J., Yao, X. J., Luo, B., Zhai, C. Z., Chen, Y.: Brown carbon aerosol in two megacities in the Sichuan Basin of southwestern China: Light absorption properties and implications, 719, 137483, 2020.
46. Peng C., Tian, M., Wang, X. L., Yang, F. M., Shi, G. M., Huang, R. J., Yao, X. J., Wang, Q. Y., Zhai, C. Z., Zhang, S. M., Qian, R. Z., Cao, J. J., Chen, Y.: Light absorption of brown carbon in $PM_{2.5}$ in the three gorges reservoir region, southwestern China: Implications of biomass burning and secondary formation, , 229, 117409, 2020.
47. Qian, R. Z., Zhang, S. M., Peng, C., Zhang, L. Y., Yang, F. M., Tian, M., Huang, R. J., Wang, Q. Y., Chen, Q. C., Yao, X. J., Chen, Y.: Characteristics and potential exposure risks of environmentally persistent free radicals in $PM_{2.5}$ in the three gorges reservoir area, Southwestern China, , 252, 126425, 2020.
48. Xia, Y. J., Wu, Y. F., Huang, R. J., Xia, X. G., Tang, J., Wang, M., Zhang, R. J.: Variation in black carbon concentration and aerosol optical properties in Beijing: Role of emission control and meteorological transport variability, , 254, 126849, 2020.
49. Zheng, Y., Cheng, X., Liao, K., Li, Y., Li, Y. J., Huang, R. J., Hu, W., Liu, Y., Zhu, T., Chen, S., Zeng, L., Worsnop, D. R., Chen, Q.: Characterization of anthropogenic organic aerosols by TOF-ACSM with the new capture vaporizer, , 13, 2457–2472, 2020.
50. Xu, H. M., He, K. L., Feng, R., Shen, Z. X., Cao, J. J., Liu, S. X. Ho, K. F., Huang, R. J., Guinot, B., Wang, Q. Y., Zhou, J. M. Shen, M. X. Xiao, S. Zhou, B. H., Sonke, J. E.: Metallic elements and Pb isotopes in $PM_{2.5}$ in three Chinese typical megacities: spatial distribution and source apportionment, , 22, 1718-1730, 2020.
51. Peng, C., Wang, Y., Wu, Z., Chen, L., Huang, R. J., Wang, W., Wang, Z., Hu, W., Zhang, G., Ge, M., Hu, M., Wang, X., Tang, M.: Tropospheric aerosol hygroscopicity in China, , 20, 13877-13903, 2020.
52. Zhu, C. S., Li, L. J., Huang, H., Dai, W. T., Lei, Y. L., Qu, Y.,

595m0 5 Tm(595me1 0 595.32 841.92 reW* W* n841.926(M)-4eW* nBT/F4 9.96 T 9.96 19.05 438.67 Tm0 g0 G[Hu)-5(a)5(ng)4(.)-8( )-8(

76. Tong, H. J., Zhang, Y., Filippi, A., Wang, T., Li, C. P., Liu, F. B., Leppla, D., Kourtchev, I., Wang, K., Keskinen, H. M., Levula, J. T., Arangio, A. M., Shen, F. X., Ditas, F., Martin, S. T., Artaxo, P., Godoi, R. H. M., Yamamoto, C. I., de Souza, R. A. F. Huang, R. J., Berkemeier, T., Wang, Y. S., Su, H., Cheng, Y. F., Pope, F. D., Fu, P. Q., Yao, M. S., Pöhlker, C., Petaja, T., Kulmala, M., Andreae, M. O., Shiraiwa, M., Pöschl, U., Hoffmann, T., Kalberer, M.: Radical formation by fine particulate matter associated with highly oxygenated molecules, , 53, 12506-12518, 2019.
77. *, , , . . . 2019, 38, 1-8.

Year 2018 (7*)

78. Huang, R. J.*, Cheng, R., Jing, M., Yang, L., Li, Y. J., Chen, Q., Chen, Y., Yan, J., Lin, C., Wu, Y., Zhang, R., El Haddad, I., Prevot, A. S. H., O'Dowd, C. D., Cao, J.: Source-Specific Health Risk Analysis on Particulate Trace Elements: Coal Combustion and Traffic Emission As Major Contributors in Wintertime Beijing, , 52, 10967-10974, 2018.
79. Huang, R. J.*, Yang, L., Cao, J., Chen, Y., Chen, Q., Li, Y. J., Duan, J., Zhu, C., Dai, W., Wang, K., Lin, C., Ni, H., Corbin, J. C., Wu, Y., Zhang, R., Tie, X., Hoffmann, T., O'Dowd, C., Dusek, U.: Brown Carbon Aerosol in Urban Xi'an, Northwest China: The Composition and Light Absorption Properties, , 52, 6825-6833, 2018.
80. Huang, R. J.*, Cao, J., Chen, Y., Yang, L., Shen, J., You, Q., Wang, K., Lin, C., Xu, W., Gao, B., Li, Y. J., Chen, Q., Hoffmann, T., O'Dowd, C. D., Bilde, M., Glasius, M.: Organosulfates in atmospheric aerosol: synthesis and quantitative analysis of $PM_{2.5}$ from Xi'an, northwestern China, 11, 3447-3456, 2018.
81. Klein, F., Pieber, S. M., Ni, H. Y., Stefenelli, G., Bertrand, A., Kilic, D., Pospisilova, V., Temime-Roussel, B., Marchand, N., El Haddad, I., Slowik, J. G., Baltensperger, U., Cao, J. J., Huang, R. J.*, Prevot, A. S. H.*: Characterization of gas-phase organics using proton transfer reaction time-of-flight mass spectrometry: Residential coal combustion, , 52, 2612-2617, 2018.
82. Zhang, Y.-L.*, El-Haddad, I., Huang, R. J.*, Ho, K.-F., Cao, J.-J., Han, Y., Zotter, P., Bozzetti, C., Daellenbach, K. R., Slowik, J. G., Salazar, G., Prévôt, A. S. H.*, Szidat, S.*: Large contribution of fossil fuel derived secondary organic carbon to water soluble organic aerosols in winter haze in China, 18, 4005-4017, 2018.
83. Wang, K., Zhang, Y., Huang, R. J.*, Cao, J., Hoffmann, T.*: UHPLC-Orbitrap mass spectrometric characterization of organic aerosol from a central European city (Mainz, Germany) and a Chinese megacity (Beijing), 189, 22-29, 2018.
84. Ni, H. Y., Huang, R. J.*, Cao, J. J., Zhang, T., Wang, M., Meijer, H. A. J., Dusek, U.: Source apportionment of carbonaceous aerosols in Xi'an, China: insights from a full year of measurements of radiocarbon and the stable isotope ^{13}C, , 18, 16363-16383, 2018.
85. Zhu, C. S., Cao, J. J., Huang, R. J., Shen, Z. X., Wang, Q. Y., Zhang, N. N.: Light absorption properties of brown carbon over the southeastern Tibetan Plateau, , 625, 246-251, 2018.
86. Zhang, N. N., Cao, J. J., Wang, Q. Y., Huang, R. J., Zhu, C. S., Xiao, S., Wang, L. L.: Biomass burning influences determination based on $PM_{2.5}$ chemical composition combined with fire counts at southeastern Tibetan Plateau during pre-monsoon period, , 206, 108-116, 2018.
87. Li, X., Wu, J., Elser, M., Feng, T., Cao, J., El-Haddad, I., Huang, R. J., Tie, X., Prévôt, A. S. H., Li, G.: Contributions of residential coal combustion to the air quality in Beijing–Tianjin–Hebei (BTH), China: a case study, ., 18, 10675-10691, 2018.
88. Li, J., Cao, J., Zhu, Y. G., Chen, Q. L., Shen, F., Wu, Y., Xu, S., Fan, H., Da, G., Huang, R. J Wang, J., de Jesus, A. L., Morawska, L., Chan, C. K., Peccia, J., Yao, M.: Global Survey of Antibiotic Resistance Genes in Air, , 52, 10975-10984, 2018.
89. Kiliç, D., El Haddad, I., Brem, B. T., Bruns, E., Bozetti, C., Corbin, J., Durdina, L., Huang, R. J., Jiang, J., Klein, F., Lavi, A., Pieber, S. M., Rindlisbacher, T., Rudich, Y., Slowik, J. G., Wang, J., Baltensperger, U., Prévôt, A. S. H.: Identification of secondary aerosol precursors emitted by an aircraft turbofan, 18, 7379-7391, 2018.
90. Chen, Y., Liu, H., Yang, F., Zhang, S., Li, W., Shi, G., Wang, H., Tian, M., Liu, S., Huang, R. J.,

91. Liu, Q., Ding, D., Huang, M., Tian, P., Zhao, D., Wang, F., Li, X., Bi, K., Sheng, J., Zhou, W., Liu, D., Huang, R. J., Zhao, C.: A study of elevated pollution layer over the North China Plain using aircraft measurements, ,190, 188-194, 2018.

Year 2017 (8*)

92. Huang, R. J.*, Yang, L., Cao, J. J., Wang, Q. Y., Tie, X. X., Ho, K. F., Shen, Z. X., Zhang, R. J., Li, G. H., Zhu, C. S., Zhang, N. N., Dai, W. T., Zhou, J. M., Liu, S. X., Chen, Y., Chen, J., O'Dowd, C. D.: Concentration and sources of atmospheric nitrous acid (HONO) at an urban site in Western China, , 593-594, 165-172, 2017.
93. Wang, Y. C., Huang, R. J.*, Ni, H. Y., Chen, Y., Wang, Q. Y., Li, G. H., Tie, X. X., Shen, Z. X., Huang, Y., Liu, S. X., Dong, W. M., Xue, P., Fröhlich, R., Canonaco, F., Elser, M., Daellenbach, K. R., El Haddad, I., Prevot, A. S. H., Canagaratna, M. R., Worsnop, D. R., Cao, J. J.: Chemical composition, sources and secondary processes of aerosols in Baoji city of northwest China, , 158, 128-137, 2017.
94. Wang, Q. Y., Huang, R. J.*, Zhao, Z. Z., Cao, J. J., Ni, H. Y., Tie, X. X., Zhu, C. S., Shen, Z. X., Wang, M., Dai, W. T., Han, Y. M., Zhang, N. N., Prevot, A. S. H.: Effects of photochemical oxidation on the mixing state and light absorption of black carbon in the urban atmosphere of China, , 12, 044012, DOI: 10.1088/1748-9326/aa64ea, 2017.
95. Li, G., Bei, N., Cao, J., Huang, R. J.*, Wu, J., Feng, T., Wang, Y., Liu, S., Zhang, Q., Tie, X., Molina, L.: A Possible Pathway for Rapid Growth of Sulfate during Haze Days in China, , 17, 3301-3316, 2017.
96. Lin, C. S., Ceburnis, D., Hellebust, S., Buckley, P., Wenger, J., Canonaco, F., Prevot, A. S. H., Huang, R. J.*, O'Dowd C., Ovadnevaite, J.: Characterization of primary organic aerosol from domestic wood, peat, and coal burning in Ireland, , 51, 10624-10632, 2017.
97. Zhou, Y. Q., Wang, Q. Y., Huang, R. J.*, Liu, S. X., Tie, X. X., Su, X. L., Niu, X. Y., Zhao, Z. Z., Ni, H. Y., Wang, M., Zhang, Y. G., Cao, J. J.: Optical properties of aerosols and implications for radiative effects in Beijing during the Asia-Pacific Economic Cooperation Summit 2014,

107. Niu, X. Y., Ho, S. S. H., Ho, K. F., Huang, Y., Cao, J. J., Shen, Z. X., Sun, J., Wang, X. M., Wang, Y., Lee, S. C., Huang, R. J.: Indoor secondary organic aerosols formation from ozonolysis of monoterpene: An example of D-limonene with ammonia and potential impacts on pulmonary inflammations, , 579, 212-220, 2017.
108. Su, X., Tie, X. X., Li, G. H., Cao, J. J., Huang, R. J., Feng, T., Long, X., Xu, R. G.: Effect of hydrolysis of N2O5 on nitrate and ammonium formation in Beijing, China: WRF-Chem model simulation, , 579, 221-229, 2017.
109. Xu, H. M., Ho, S. S. H., Cao, J. J., Guinot, B., Kan, H. D., Shen, Z. X., Ho, K. F., Liu, S. X., Zhao, Z. Z., Li,. J. J., Zhang, N. N., Zhu, C. S., Zhang, Q., Huang, R. J.: A 10-year observation of $PM_{2.5}$-bound nickel in Xi'an, China: Effects of source control on its trend and associated health risks. , 7, 41132, 2017.
110. Wu, J., Li, G., Cao, J., Bei, N., Wang, Y., Feng, T., Huang, R. J., Liu, S., Zhang, Q., Tie, X.: Contributions of trans-boundary transport to the summertime air quality in Beijing, China, , 17, 2035-2051, 2017.
111. Wu, Y., Wang, X., Tao, J., Huang, R. J., Tian, P., Cao, J., Zhang, L., Ho, K.-F., Zhang, R.: Size distribution and source of black carbon aerosol in urban Beijing during winter haze episodes, 17, 7965-7975, 2017.
112. Platt S. M., El Haddad, I., Pieber, S. M., Zardini, A. A., Suarez-Bertoa, R., Clairotte, M., Daellenbach, K. R., Huang, R. J., Slowik, J. G., Hellebust, S., Temime-Roussel, B., Marchand, N., de Gouw, J., Jimenez, J. L., Hayes, P. L., Robinson, A. L., Baltensperger, U., Astorga, C., Prevot, A. S. H.: Gasoline cars produce more carbonaceous particulate matter than modern filter-equipped diesel cars, , 7, 4926, 2017.
113. Gao, W., Tie, X. X., Xu, J. M., Huang, R. J., Mao, X. Q., Zhou, G. Q., Chang, L. Y.: Long-term trend of O_3 in a mega city (Shanghai), China: Characteristics, causes, and interactions with precursors, , 603-604, 425-433, 2017.
114. Wang, J. Z., Cao, J. J., Dong, Z. B., Guinot, B., Gao, M. L., Huang, R. J., Han, Y. M., Huang, Y., Ho, S. S. H. Shen, Z. X.: Seasonal variation, spatial distribution and source apportionment for polycyclic aromatic hydrocarbons (PAHs) at nineteen communities in Xi'an, China: The effects of suburban scattered emissions in winter, , 231, 1330-1343, 2017.
115. Tian, J., Ni, H. Y., Cao, J. J., Han, Y. M., Wang, Q. Y., Wang, X. L., Chen, L. W. A., Chow, J. C., Watson, J. G., Wei, C., Sun, J., Zhang, T., Huang, R. J.: Characteristics of carbonaceous particles from residential coal combustion and agricultural biomass burning in China, , 8, 521-527, 2017.
116. Chen, J., Luo, Y. Q., Xia, J. Y., Wilcox, K. R., Cao, J. J., Zhou, X. H., Jiang, L. F., Niu, S. L., Estera, K. Y., Huang, R. J., Wu, F., Hu, T. F., Liang, J. Y., Shi, Z., Guo, J. F.: Warming effects on ecosystem carbon fluxes are modulated by plant functional types, , 20, 515-526, 2017.
117. Bei, N., Wu, J., Elser, M., Feng, T., Cao, J., El-Haddad, I., Li, X., Huang, R. J., Li, Z., Long, X., Xing, L., Zhao, S., Tie, X., Prevot, A. S. H., Li, G.: Impacts of Meteorological Uncertainties on the Haze Formation in Beijing-Tianjin-Hebei (BTH) during Wintertime: A case study, ,17, 14579-14591, 2017
118. Chen, Y., Yang, F. M., Tian, M., Cao, J. J., Shi, G. M., Huang, R. J., Wang, H. B., Chen, J., Lou, S. R., Wang, Q. Y.: Characterizing the composition and evolution of urban particles in Chongqing (China) during summertime, , 187, 84-94, 2017.

Year 2016(7*)

119. Long, X., Li, N., Tie, X. X., Cao, J. J., Zhao, S. Y., Huang, R. J.*, Zhao, M. D., Li, G. H., Feng, T.: Urban dust in the Guanzhong Basin of China, Part I: A regional distribution of dust sources retrieved using satellite data, , 541, 1603-1613, 2016.
120. Wang, Q. Y., Huang, R. J.*, Cao, J. J., Tie, X. X., Shen, Z. X., Zhao, S. Y., Han, Y. M., Li. G. H., Li, Z. Q., Ni, H. Y., Zhou, Y. Q., Wang, M., Chen, Y., Su, X. L.: Contribution of regional transport to the black carbon aerosol during winter haze period in Beijing, , 132, 11-18, 2016.
121. Elser, M., Huang, R. J.*, Wolf, R., Slowik, J. G., Wang, Q. Y., Canonaco, F., Li, G. H., Bozzetti, C., Daellenbach, K. R., Huang, Y., Zhang, R. J., Li, Z. Q., Cao, J. J., Baltensperger, U., Prevot, A. S. H.: New insights into $PM_{2.5}$ chemical composition and sources in two major cities in China during extreme haze events using aerosol mass spectrometry, , 16, 3207-3225, 2016. ('highly cited paper')
122. Tie, X. X., Huang, R. J.*, Dai, W. T., Cao, J. J., Long, X., Su, X. L., Zhao, S. Y., Wang, Q. Y., Li, G. H.: Effect of heavy haze and aerosol pollution on rice and wheat productions in China, , 6, DOI: 10.1038/srep29612, 2016.

123. Wang, Q. Y., Huang, R. J.*, Zhao, Z. Z., Zhang, N. N., Wang, Y. C., Ni, H. Y., Tie, X. X., Han, Y. M., Zhuang, M. Z., Wang, M., Zhang, J. R., Zhang, X. M., Dusek, U., Cao, J. J.: Size distribution and mixing state of refractory black carbon aerosol from a coastal city in South China, , 181, 163-171, 2016.

124. Long, X., Tie, X. X., Cao, J. J., Huang, R. J.*, Feng, T., Li, N., Zhao, S. Y., Tian, J., Li, G. H., Zhang, Q.: Impact of crop field burning and mountains on heavy haze in the North China Plain: A case study, , 16, 9675-9691, 2016.

125. Wang, Q. Y., Huang, R. J.*, Zhao, Z. Z., Cao, J. J., Ni, H. Y., Tie, X. X., Zhao, S. Y., Su, X. L., Han, Y. M., Shen, Z. X., Wang, Y. C., Zhang, N. N., Zhou, Y. Q., Corbin, J. C.: Physicochemical characteristics of black carbon aerosol and its radiative impact in a polluted urban area of China, , 121, 20, 12505-12519, 2016.

126. Li, N., Long, X., Tie, X. X., Cao, J. J., Huang, R. J., Zhang, R., Feng, T., Liu, S. X., Li, G. H.: Urban dust in the Guanzhong basin of China, part II: A case study of urban dust pollution using the WRF-Dust model, , 541, 1614-1624, 2016.

127. Ho, K. F., Ho, S. S. H., Huang, R. J., Chuang, H. C., Cao, J. J., Han, Y. M., Lui, K. H., Ning, Z., Chuang, K. J., Cheng, T. J., Lee, S. C., Hu, D., Wang, B., Zhang, R. J.: Chemical composition and bioreactivity of $PM_{2.5}$ during 2013 haze events in China, , 126, 162-170, 2016.

128. Shen, Z. X., Cao, J. J., Zhang, L. M., Zhang, Q., Huang, R. J., Liu, S. X., Zhao, Z. Z., Zhu, C. S., Lei, Y. L., Xu, H. M., Zheng, C. L.: Retrieving historical ambient $PM_{2.5}$ concentrations using existing visibility measurements in Xi'an, Northwest China, , 126, 15-20, 2016.

129. Xu, H. M., Cao, J. J., Chow, J. C., Huang, R. J., Shen, Z. X., Chen, L. W. A., Ho, K. F., Watson, J. G.: Inter-annual variability of wintertime $PM_{2.5}$ chemical composition in Xi'an, China: Evidences of changing source emissions, , 545-546, 546-555, 2016.

130. Han, Y. M., Wei, C., Huang, R. J., Bandowe, B. A. M., Ho, S. S. H., Cao, J. J., Jin, Z. D., Xu, B. Q., Gao, S. P., Tie, X.

141. Bei, N. F., Li, G. H., Huang, R. J., Cao, J. J., Meng, N., Feng, T., Liu, S. X., Zhang, T., Zhang, Q., Molina, L. T.: Typical synoptic situations and their impacts on the wintertime air pollution in the Guanzhong basin, China, , 16, 7373-7387, 2016.
142. Zhang, N. N., Cao, J. J., Huang, R. J., He, Y. Q., Wang, Q. Y., Zhu, C. S.: Seasonal Variation, Sources and Transport of Aerosols at Lijiang, Southeast Tibetan Plateau, , 16, 1579-1590, 2016.
143. Wang, J. Z., Ho, S. S. H., Huang, R. J., Gao, M. L., Liu, S. X., Zhao, S. Y., Cao, J. J., Wang, G. H., Shen, Z. X., Han, Y. M.: Characterization of parent and oxygenated-polycyclic aromatic hydrocarbons (PAHs) in Xi'an, China during heating period: An investigation of spatial distribution and transformation, , 159, 367-377, 2016.
144. Shen, Z. X., Sun, J., Cao, J. J., Zhang, L. M., Zhang, Q., Lei, Y. L., Gao, J. J., Huang, R. J., Liu, S. X., Huang, Y., Zhu, C. S., Xu, H. M., Zheng, C. L., Liu, P. P., Xue, Z. G.: Chemical profiles of urban fugitive dust $PM_{2.5}$ samples in Northern Chinese cities, , 569-570, 619-626, 2016.
145. Feng, T., Li, G. H., Cao, J. J., Bei, N. F., Shen, Z. X., Zhou, W. J., Liu, S. X., Zhang, T., Wang, Y. C., Huang, R. J., Tie, X. X., Molina, L. T.: Simulations of organic aerosol concentrations during springtime in the Guanzhong Basin, China, , 16, 10045-10061, 2016.
146. Chen, Y., Cao, J. J., Huang, R. J., Yang, F. M., Wang, Q. Y., Wang, Y. C.: Characterization and mixing state of urban single particles in Xi'an (China) during wintertime haze days, , 573, 937-945, 2016.
147. Niu, X. Y., Cao, J. J., Shen, Z. X., Ho, S. S. H., Tie, X. X., Zhao, S. Y., Xu, H. M., Zhang, T., Huang, R. J.: $PM_{2.5}$ from the Guanzhong Plain: Chemical composition and implications for emission reductions, , 147, 458-469, 2016.
148. Zhang, N. N., Zhuang, M. Z., Tian, J., Tian, P. S., Zhang, J. R., Wang, Q. Y., Zhou, Y. Q., Huang, R. J., Zhu, C. S., Zhang, X. M., Cao, J. J.: Development of source profiles and their application in source apportionment of $PM_{2.5}$ in Xiamen, China, , 10(5):17, 2016.

Year 2015 (3*)

149. Ho, K. F.*, Huang, R. J.*, Kawamura, K., Tachibana, E., Lee, S. C., Ho, S. S. H., Zhu, T., Tian, L.: Dicarboxylic acids, ketocarboxylic acids, α-dicarbonyls, fatty acids and benzoic acid in $PM_{2.5}$ aerosol collected during CAREBeijing-2007: an effect of traffic restriction on air quality, , 15, 3111-3123, 2015.
150. Wang, Q. Y., Gao, R. S., Cao, J. J.*, Schwarz, J. P., Fahey, D. W., Shen, Z. X., Xu, X. B., Zhou, W. F., Huang, R. J.*: Observations of high level of ozone at Qinghai Lake basin in the northeastern Qinghai-Tibetan Plateau, western China, , 72, 19-26, 2015.
151. Wang, Q. Y., Huang, R. J.*, Cao, J. J.*, Tie, X. X., Ni, H. Y., Zhou, Y. Q., Han, Y. M., Hu, T. F., Zhu, C. S., Feng, T., Li, N., Li, J. D.: Black carbon aerosol in winter northeastern Qinghai-Tibetan Plateau, China: the source, mixing state and optical property, , 15, 13059-13069, 2015.
152. Wei, C., Han, Y. M., Bandowe, B. A. M., Cao, J. J., Huang, R. J., Ni, H. Y., Tian, J., Wilcke, W.: Occurrence, gas/particle partitioning and carcinogenic risk of polycyclic aromatic hydrocarbons and their oxygen and nitrogen containing derivatives in Xi'an, central China, 505, 814-822, 2015.
153. Tao, J., Zhang, L. M., Zhang, Z. S., Huang, R. J., Wu, Y. F., Zhang, R. J., Cao, J. J., Zhang, Y. H.: Control of $PM_{2.5}$ in Guangzhou during the 16th Asian Games period: implication for hazy weather prevention, , 508, 57-66, 2015.
154. Wang, P., Cao, J. J., Shen, Z. X., Han, Y. M., Lee, S. C., Huang, Y., Zhu, C. S., Wang, Q. Y., Xu, H. M., Huang, R. J.: Spatial and seasonal variations of $PM_{2.5}$ mass and species during 2010 in Xi'an, China, , 508, 477-487, 2015.
155. Wang, Q. Y., Liu, S. X., Zhou, Y. Q., Cao, J. J., Han, Y. M., Ni, H. Y., Zhang, N. N., Huang, R. J.: Characteristics of black carbon aerosol during the Chinese lunar year and weekdays in Xi'an, China, , 6, 195-208, 2015.
156. Zhang, Y. L., Huang, R. J., El Haddad, I., Ho, K. F., Cao, J. J., Han, Y., Zotter, P., Bozzetti, C., Daellenbach, K. R., Canonaco, F., Slowik, J. G., Salazar, G., Schwikowski, M., Schnelle-Kreis, J., Abbaszade, G., Zimmermann, R., Baltensperger, U., Prévôt, A. S. H., Szidat, S.: Fossil vs. non-fossil sources of fine carbonaceous aerosols in four Chinese cities during the extreme winter haze episode in 2013, , 15, 1299-1312, 2015.
157. Ho, K. F., Ho, S. S. H. Huang, R. J., Dai, W. T., Cao, J. J., Tian, L. W., Deng, W. J.: Spatiotemporal distribution of carbonyl compounds in China, ., 197, 316-324, 2015.
158. Ho, K. F., Ho, S. S. H., Huang, R. J., Liu, S. X., Cao, J. J., Zhang, T., Chuang, H. C., Chan, C. S., Hu, D., Tian, L. W.: Characteristics of water-soluble organic nitrogen and free amino compounds in fine particulate matter in the continental area of China. , 106, 252-261, 2015.

159. Zhang, C. L., Cao, J. J., Han, Y. M., Wang, P., Huang, R. J., Wei, C, Hu, W. G., Zhang, J. Q.: Spatial patterns, storages and sources of black carbon in soils from the catchment of Qinghai Lake, China, , 66, 525-534, 2015.

160. Xu, H. M., Guinot, B., Shen, Z. X., Ho, K. F., Niu, X. Y., Xiao, S., Huang, R. J., Cao, J. J.: Characteristics of organic and elemental carbon in $PM_{2.5}$ and $PM_{0.25}$ in indoor and outdoor environmental of middle school: Identification of secondary organic carbon and sources, , 6, 361-379, 2015.

161. Zhao, Z. Z., Cao, J. J., Shen, Z. X., Huang, R. J., Hu, T. F., Wang, P., Zhang, T., Liu, S. X.: Chemical composition of $PM_{2.5}$ at a high-altitude regional background site over Northeast of Tibet Plateau, , 6, 815

176. Ho, K. F., Engling, G., Ho, S. S. H., Huang, R. J., Lai, S. C., Cao, J. J., Lee, S. C.: Seasonal variations of anhydrosugars in $PM_{2.5}$ in the Pearl River Delta region, China, , 66, 22577, 2014.
177. Zhang, Y. L., Li, J., Zhang, G., Zotter, P., Huang, R. J., Tang, J. H., Wacker, L., Prevot, A. S. H., Szidat, S.: Radiocarbon-based source apportionment of carbonaceous aerosols at a regional background site on Hainan Island, South China. , 48, 2651-2659, 2014.
178. Wang, Q. Y., Schwarz, J. P., Cao, J. J., Gao, R. S., Fahey, D. W., Hu, T. F., Huang, R. J., Han, Y. M., Shen, Z. X.: Black carbon aerosol characterization in a remote area of Qinghai-Tibetan Plateau, western China. 479-480, 151-158, 2014.
179. Ho, K. F., Ho, S. S. H., Dai, W. T., Cao, J. J., Huang, R. J., Tian, L. W., Deng, W. J.: Seasonal variations of mono- and di-carbonyls in urban and sub-urban area of Xi'an, China. , 186, 2835-2849, 2014.
180. Bandowe, B. A. M., Meusel, H., Huang, R. J., Ho, K. F., Cao, J. J., Hoffmann, T., Wilcke, W.: $PM_{2.5}$-bound oxygenated PAHs, nitro-PAHs and parent-PAHs from the atmosphere of a Chinese megacity: Seasonal variation, sources and cancer risk assessment. , 473-474, 77-87, 2014.
181. Sonibare, O. O., Huang, R. J., Nie, Y. Y., Kleine-Benne, E., Hoffmann, T., Foley, S. F.: Terpenoid composition and chemotaxonomic aspects of Cretaceous amber from the Koroglu mountains. , 105, 100-107, 2014.
182. Zhang, T., Cao, J. J., Chow, J. C., Shen, Z. X., Ho, K. F., Ho, S. S. H., Liu, S. X., Han, Y. M., Watson, J. G., Wang, G. H., Huang, R. J.: Characterization and seasonal variations of $PM_{2.5}$ levoglucosan in Xi'an, China. , 64, 1317-1327, 2014.

Year 2013 (1*)

183. Huang, R. J.*, Thorenz, U. R., Kundel, M., Venables, D. S., Ceburnis, D., Ho. K. F., Chen, J., Vogel, A. L., Kupper, F. C., Smyth, P. P. A., Nitschke, U., Stengel, D. B., Berresheim, H., O'Dowd, C. D., Hoffmann, T.: The seaweeds Fucus vesiculosus and Ascophyllum nodosum are significant contributors to coastal iodine emissions. , 13, 5255-5264, 2013.

Year 2012

184. Atkinson, H. M., Huang, R. J., Chance, R., Roscoe, H. K., Hughes, C., Davison, B., Schönhardt, A., Mahajan, A. S., Saiz-Lopez, A., Hoffmann, T., Liss, P. S.: Iodine emissions from the sea ice of the Weddell Sea. , 12, 11229-11244, 2012.
185. Kundel, M., Huang, R. J., Thorenz, U. R., Bosle, J., Mann, M. J. D., Ries, M., Hoffmann, T.: A novel application of time-of-flight aerosol mass spectrometry for the online measurement of gaseous molecular iodine. , 84, 1439-1445, 2012.
186. Kundel, M., Thorenz, U. R., Petersen, J. H., Huang, R. J., Bings, N. H., Hoffmann, T.: Application of mass spectrometric techniques for the trace analysis of short-lived iodine-containing volatiles emitted by seaweed. , 402, 3345-3357, 2012.

Year 2011

187. Hoffmann, T., Huang, R. J., Kalberer, M.: Atmospheric analytical chemistry, , Invited Review Article, 83, 4649-4664, 2011.
188. Smyth, P. P. A., Burns, R., Huang, R. J., Hoffmann, T., Mullan, K., Graham, U., Seitz, K., Platt, U., O'Dowd, C.: Does iodine gas released from seaweed contribute to dietary iodine intake? , 33, 389-397, 2011.

Year 2010

189. Huang, R. J., Seitz, K., Neary, T., O'Dowd, C. D., Platt, U., Hoffmann T.: Observations of high concentrations of I_2 and IO in coastal air supporting iodine-oxide driven coastal new particle formation, , 37, L03803, 2010.
190. Huang, R. J., Seitz, K., Buxmann, J., Hornsby, K. E., Carpenter, L. J., Platt, U., Hoffmann, T.: In situ measurements of molecular iodine in the marine boundary layer: the link to macroalgal species and the implications for O_3, IO, OIO and NO_x, , 10, 4823-4833, 2010.
191. Huang, R. J., Hou, X. L., Hoffmann, T.: Extensive evaluation of a diffusion denuder for the quantification of atmospheric stable and radioactive molecular iodine, , 44, 5061-5066, 2010.

192. Huang, R. J., Hoffmann, T.: Diffusion technique for the generation of gaseous halogen standards, , 1217, 2065-2069, 2010.

Year 2008-2009

193. Huang, R. J., Hoffmann, T.: Development of a coupled diffusion denuder system combined with gas chromatography/mass spectrometry for the separation and quantification of molecular iodine and the activated iodine compounds iodine monochloride and hypoiodous acid in the marine atmosphere, , ASAP article, 81, 1777-1783, 2009.

194. Huang, R. J., Hoffmann, T.: A denuder–impinger system with in situ derivatization followed by gas chromatography–mass spectrometry for the determination of gaseous iodine-containing halogen species, , 1210, 135-141, 2008.

Before 2008

195. Huang, R. J., Zhuang, Z. X., Tai, Y., Wang, X. R., Lee, F. S. C.: Direct analysis of mercury in traditional Chinese medicines using thermolysis coupled with on-line atomic absorption spectrometry, , 68, 728-734, 2006.

196. Yang, H. L., Huang, R. J., Wang, Y. R., Wang, X. R.: Analysis of chlorophyll in plant leaves using solid–phase microextraction coupled with ultraviolet–visible absorption spectroscopy, *dh bdh m* , 45, 522-524, 2006.

197. Huang, R. J., Zhuang, Z. X., Yang, M. F., Zhang, S. Q., Wang, X. R.: Pyrolysis coupled with atomic absorption spectrometry for the determination of mercury in hair, *dh bdh m* , 24, 93-95, 2005.

198. Huang, R. J., Zhuang, Z. X., Zhang, S. Q., Shen, J. C., Wang, X. R.: Determination of mercury in Chinese medicinal material and biological samples using pyrolysis atomic absorption spectrometry, , 25, 1708-1710, 2005.

199. Huang, R. J., Zhuang, Z. X., Wang Y. R., Wang, X. R., Lee, F. S. C.: An analytical study of bioaccumulation and the binding forms of mercury in rat body using thermolysis coupled with atomic absorption spectrometry, , 538, 313-321, 2005.

Book chapter

Huang, R. J., Cao, J. J., Worsnop, D. R.: Sources and Chemical Composition of Particulate Matter during Haze Pollution Events in China, In *d iffonidh mt hChnal n J lm mp* , Springer, pp. 49-68, 2017.