PEER-REVIEWED PUBLICATIONS

Citation Metrics

World Top 2% Scientists (2019-2024) (Earth & Environmental Science) (Stanford University-Elsevier-SciTech Strategies)

As of 2025.07.05., by Web of Science, total citations: 15,289, h-index = 72

As of 2025.07.05., by Google Scholar, total citations: 20,286, h-index = 82, i10-index = 218

- Corresponding authors are **underlined** and marked with *;
- *** in the 1st column denotes corresponding author paper by J. Z. Yu**

Seq#	Authors |Title	Source
	2025	
#264 *	Liang, S., Wang, Y., Chen, H., Chan, W., **Yu, J. Z.*** Accurate Quantification of Multifunctional C_{2-3} Organosulfates in Atmospheric Aerosols Using Liquid Chromatography-Electrospray Ionization Mass Spectrometry: Overcoming Matrix Effects and Underestimation	Environ. Sci. Technol. **2025**, 59, 10812-12821. https://doi.org/10.1021/acs.est.5c01846
#263	Tse, H. T., **Yu, J. Z.**, Cai, Z., **Chan, W.*** Disposable Face Masks for Noninvasive Drug Detection: A Proof-of-Concept Study with Cough Syrup Constituents	Anal. Chem. **2025**, 97, 10424-10432. https://doi.org/10.1021/acs.analchem.5c01129
#262	Zhang, Y., Han, R., Wu, G., Wang, X., **Li, L.***, Li, M., Zhou, Z., **Yu, J. Z.**, **Zhou, Y.*** Improved Method for Estimating Chlorine Depletion in Sea Salt Aerosols using Single Particle Aerosol Mass Spectrometer	Atmos. Environ. **2025**, 353, 121243. https://doi.org/10.1016/j.atmosenv.2025.121243
#261 *	Wang, Q., Wang, S., Chen, H., Zhang, Z., Yu, H., Chan, M. N., **Yu, J. Z.*** Ambient Measurements of Daytime Decay Rates of Levoglucosan, Mannosan, and Galactosan	J. Geophys. Res. Atmospheres **2025**, e2024JD042423 https://doi.org/10.1029/2024JD042423
#260	Xu, Y., Zheng, P., Feng, X., Sun, H., Sun, M., Hui, L., Chen, Y., Chen, Y., Gu, D., Ning, Z., **Yu, J. Z.**, **Wang, Z.*** Characterizing Sources and Health Risks of Airborne Carbonyl Compounds in a Subtropical Coastal Atmosphere in South China	Environ. Pollut. **2025**, 368, 125776. https://doi.org/10.1016/j.envpol.2025.125776
#259 *	Li, Y., **Fu, T. M.***, **Yu, J. Z.***, Zhang, A., Yu, X., Ye, J., Zhu, L., Shen, H., Wang, C., Yang, X., Tao, S., Chen, Q., Li, Y., Li, L., Che, H., Heald, C. L. Nitrogen Dominates Global Atmospheric Organic Aerosol Absorption	Science **2025**, 387, 989-995. https://doi.org/10.1126/science.adr4473
#258	Cao, X., **Gu, D.***, Sun, H., Leung, K. F., Mai, Y., Li, X., Chan, W. M., Mak, S. K., Liang, Z., Zhang, W., Zhang, Y., Huang, S., Yuan, B., Shao, M., **Yu, J. Z.**, Lau, A. K. H. Intra-Urban Comparison of Hazardous VOCs in Hong Kong: Source Apportionment and Integrated Risk Assessment	Sustain. Cities Sco. **2025**, 120, 106148. https://doi.org/10.1016/j.scs.2025.106148
#257 *	Chen, H., **Yu, J. Z.*** An Online Instrument for Assessing Oxidative Potential of Ambient Particulate Matter via Dithiothreitol Assay, using Particle-Into-LIquid Sampler (PILS) coupled with Improved Light Absorption Measurement	Atmos. Environ. **2025**, 343, 120980. https://doi.org/10.1016/j.atmosenv.2024.120980

Seq#	Authors |Title	Source
#256 *	**Lin, C.***, **Yu, J. Z.***, Lee, E., Chan, P. W., Ng, J. W. Y., Chan, Y. W., Zhang, T., Chen, Y., Chen, H., Zhang, Z., Chui, S. H. K., Fung, J. C. H., Liu, W., **Lau, A. K. H.*** Mysterious Air Pollution in South China linked to Volcanic Emissions from the Philippines	Commun. Earth Environ. **2025**, 6, 86. https://doi.org/10.1038/s43247-025-02073-y
#255	**Lo, H. W.***, Yu, X., Chen, H., Chu, W. C., Chung, N. M., Lau, S. W., Li, J., Liang, S., Liao, K., Thomas, H. C. J., Wang, Z., Zhang, Z., **Yu, J. Z.**, **Thibodeau, B.*** Tidal Currents and Atmospheric Inorganic Nitrogen Contribute to Diurnal Variation of Dissolved Nutrients and Chlorophyll a Concentrations in Mirs Bay, Hong Kong	Reg. Stud. Mar. Sci. **2025**, 81, 103941. https://doi.org/10.1016/j.rsma.2024.103941
	2024	
#254 *	Wang, Q., Wang, S., Zhu, S., Meng, S., Yu, H., **Yu, J. Z.*** Exploring the Effect of Environmental Conditions on Decay Kinetics of Aerosol Unsaturated Fatty Acids: New Insights Gained from Long-Term Ambient Measurements	Environ. Sci. Technol. **2024**, 58, 22322-22331. https://doi.org/10.1021/acs.est.4c09808
#253	Ham, Y. H., Cheng, J., Nagl, S., **Yu, J. Z.**, Cai, Z., **Chan, W.*** Surgical Face Mask as an Air Sampling Device for Assessing Personal Exposure to Airborne Antimicrobial Resistance Gene-Bearing Bacteria	Anal. Chem. **2024**, 96, 17021-17026. https://doi.org/10.1021/acs.analchem.4c04703
#252	Zhou, L., Liu, Q., Salvador, C. M., Le Breton, M., Hallquist, M., **Yu, J. Z.**, **Chak K. Chan***, **Hallquist, Å. M***. Online Characterization of Primary and Secondary Emissions of Particulate Matter and Acidic Molecules from a Modern Fleet of City Buses	Atmos. Chem. Phys. **2024**, 24, 11045-11061. https://doi.org/10.5194/acp-24-11045-2024
#251	Yi, Y., Li, R., **Zhang, K.***, Yang, X., Li, Q., Geng, C., Chen, H., Yang, W., **Yu, J. Z.**, **Li, L.*** Insights Into the Influence of Anthropogenic Emissions on the Formation of Secondary Organic Aerosols Based on Online Measurements	J. Geophys. Res. Atmospheres **2024**, e2024JD041479 https://doi.org/10.1029/2024JD041479
#250 *	Liao, K., Cheng, Y. Y., Yea, S. S., Chen, L. W. A., Seinfeld, J. H., **Yu, J. Z.*** New Analytical Paradigm to Determine Concentration of Brown Carbon and Its Sample-by-Sample Mass Absorption Efficiency	Environ. Sci. Technol. **2024**, 58, 17386-17395. https://doi.org/10.1021/acs.est.4c06831
#249	Pan, G., Au, C. K., Ham, Y. H., **Yu, J. Z.**, Cai, Z., **Chan, W.*** Urinary Thioproline and Thioprolinyl Glycine as Specific Biomarkers of Formaldehyde Exposure in Humans	Environ. Sci. Technol. **2024**, 58, 16368-16375. https://doi.org/10.1021/acs.est.4c06921
#248	Yang, T., **Xu, Y.***, Ma, Y. J., Wang, Y. C., **Yu, J. Z.**, Sun, Q. B., Xiao, H. W., Xiao, H. Y., Liu, C. Q. Field Evidence for Constraints of Nearly Dry and Weakly Acidic Aerosol Conditions on the Formation of Organosulfates	Environ. Sci. Technol. Lett. **2024**, 11, 981-987. https://doi.org/10.1021/acs.estlett.4c00522
#247	Guo, W., Kwok, H. C., Griffith, S. M., Nagl, S., Milovanović, D., Pavlović, M., Pavlović, N. M., **Yu, J. Z.**, Dedon, P. C., **Chan, W.*** Combustion-Derived Pollutants Linked with Kidney Disease in Low-Lying Flood-Affected Areas in the Balkans	Environ. Sci. Technol. **2024**, 58, 11301-11308. https://doi.org/10.1021/acs.est.4c02848
#246 *	Zhang, Y., Han, R., Sun, X., Sun, C., Griffith S. M., Wu, G., Li, L., Li, W., Zhao, Y., Li, M., Zhou, Z., Wang, W., Sheng, L., **Yu, J. Z.***, **Zhou, Y.*** Sulfate Formation Driven by Wintertime Fog Processing and a Hydroxymethanesulfonate Complex with Iron: Observations from Single-Particle Measurements in Hong Kong	J. Geophys. Res. Atmospheres **2024**, 129, e2023JD040512. https://doi.org/10.1029/2023JD040512

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#245 *	Wong, Y. K., Chan, W. W., Gu, D., **Yu, J. Z.***, **Lau, A. K. H.*** Tracking Source Variations of Inhalation Cancer Risks in Hong Kong, China over Two Decades (2000–2020) Using Toxic Air Pollutant Monitoring Data	Environ. Health **2024**, 2(6), 411-421. https://doi.org/10.1021/envhealth.3c00209
#244 *	Wang, S., Liao, K., Zhang, Z., Cheng, Y. Y., Wang, Q. Q., Chen, H., **Yu, J. Z.*** Bayesian Inference-Based Estimation of Hourly Primary and Secondary Organic Carbon at Suburban Hong Kong: Multi-temporal Scale Variations and Evolution Characteristics during $PM_{2.5}$ Episodes	Atmos. Chem. Phys. **2024**, 24, 5803-5821. https://doi.org/10.5194/acp-24-5803-2024
#243 *	Yu, X., Li, Q., Liao, K., Li, Y., Wang, X., Zhou, Y., Liang, Y., **Yu, J. Z.*** New Measurements Reveal a Large Contribution of Nitrogenous Molecules to Ambient Organic Aerosol	NPJ Clim. Atmos. Sci. **2024**, 7, 72. https://doi.org/10.1038/s41612-024-00620-6
#242	Song, Y., Zhang, Y., Zhu, L., Chen, Y., Chen, Y. J., Zhu, Z., Feng, J., Qi, Z., **Yu, J. Z.**, Zhu, Y., **Cai, Z.*** Phosphocholine-induced Energy Source Shift Alleviates Mitochondrial Dysfunction in Lung Cells Caused by Geospecific $PM_{2.5}$ Components	PNAS **2024**, 121, e2317574121. https://doi.org/10.1073/pnas.2317574121
#241	Yang, Y., Sun, M., Wu, G., Qi, Y., Zhu, W., Zhao, Y., Zhu, Y., Li, W., Zhang, Y., Wang, N., Sheng, L., Wang, W., Yu, X., **Yu, J. Z.**, Yao, X., **Zhou, Y.*** Characteristics of Aerosol Aminiums over a Coastal City in North China: Insights from the Divergent Impacts of Marine and Terrestrial Influences	Sci. Tot. Environ. **2024**, 918, 170672. https://doi.org/10.1016/j.scitotenv.2024.170672
#240	Sun, H., **Gu, D.***, Feng, X., Wang, Z., Cao, X., Sun, M., Ning, Z., Zheng, P., Mai, Y., Xu, Z., Chan, W. M., Li, X., Zhang, W., Lee, H. W., Leung, K. F., **Yu, J. Z.**, Lee, E., Louie, P. K. K., Leung, K. Cruise Observation of Ambient Volatile Organic Compounds over Hong Kong Coastal Water	Atmos. Environ. **2024**, 323, 120387. https://doi.org/10.1016/j.atmosenv.2024.120387
#239 *	He, X., Huang, X. H. H., Ma, Y., Huang, C., **Yu, J. Z.*** Unambiguous Analysis and Systematic Mapping of Oxygenated Aromatic Compounds in Atmospheric Aerosols Using Ultrahigh-Resolution Mass Spectrometry	Anal. Chem. **2024**, 96(5), 1880-1889. https://doi.org/10.1021/acs.analchem.3c03760
#238 *	Wang, Q., Zhu, S., Wang, S., Huang, C., Duan, Y., **Yu, J. Z.*** Short-term Source Apportionment of Fine Particulate Matter with Time-dependent Profiles using SoFi Pro: Exploring the Reliability of Rolling Positive Matrix Factorization (PMF) Applied to Bihourly Molecular and Elemental Tracer Data	Atmos. Chem. Phys. **2024**, 24, 475-486. https://doi.org/10.5194/acp-24-475-2024
#237	Yu, P., Feng, X., **Feng, Y.***, Li, L., Chen, Y., **Yu, J. Z.** Optimization of Two-stage Thermal Desorption Combined with Pentafluorophenyl Yydrazine Derivatization-Gas Chromatography/Mass Spectrometry Analytical Method of Atmospheric Carbonyl Compounds	Microchem J. **2024**, 197, 109794. https://doi.org/10.1016/j.microc.2023.109794
	2023	
#236	Xu, Y., Hui, L., Zheng, P., Liu, G., **Yu, J. Z.**, **Wang, Z.*** Monitoring Techniques of Airborne Carbonyl Compounds: Principles, Performance and Challenges	TrAC, Trends Anal. Chem. **2023**, 169, 117395. https://doi.org/10.1016/j.trac.2023.117395
#235	Feng, X., Guo, J., **Wang, Z.***, Gu, D., Ho, K. F., Chen, Y., Liao, K., Cheung, V. T. F., Louie, P. K. K., Leung, K. K. M., **Yu, J. Z.**, Fung, J. C. H., Lau, A. K. H. Investigation of the Multi-Year Trend of Surface Ozone and Ozone-Precursor Relationship in Hong Kong	Atmos. Environ. **2023**, 315, 120139. https://doi.org/10.1016/j.atmosenv.2023.120139
#234	**Li, Z.***, Yim, S. H. L., He, X., Xia, X., Ho, K. F., **Yu, J. Z.** High Spatial Resolution Estimates of Major PM2.5 Components and Their Associated Health Risks in Hong Kong using a Coupled Land Use Regression and Health Risk Assessment Approach	Sci. Tot. Environ. **2023**, 907, 167932. https://doi.org/10.1016/j.scitotenv.2023.167932

Seq#	Authors |Title	Source
#233 *	Wong, Y., Chan, W. W., Gu, D., Wong, T. W., Chan, K. J. D., **Yu, J. Z.***, **Lau, A. K. H.*** Characterization of Toxic Air Pollutants in Hong Kong, China: Two-decadal Trends and Health Risk Assessments	Atmos. Environ. **2023**, 314, 120129. https://doi.org/10.1016/j.atmosenv.2023.120129
#232	Yang, T., **Xu, Y.***, Ye, Q., Ma, Y., Wang, Y., **Yu, J. Z.**, Duan, Y., Li, C., Xiao, H., Li, Z., **Zhao, Y.***, **Xiao, H.*** Spatial and Diurnal Variations of Aerosol Organosulfates in Summertime Shanghai, China: Potential Influence of Photochemical Processes and Anthropogenic Sulfate Pollution	Atmos. Chem. Phys. **2023**, 23, 13433-13450. https://doi.org/10.5194/acp-23-13433-2023
#231 *	Yu, X., Zhou, M., Li, J., Qiao, L., Lou, S., Han, W., Zhang, Z., Huang, C., **Yu, J. Z.*** First Online Observation of Aerosol Total Organic Nitrogen at an Urban Site: Insights Into the Emission Sources and Formation Pathways of Nitrogenous Organic Aerosols	J. Geophys. Res. Atmospheres **2023**, 128, e2023JD038921. https://doi.org/10.1029/2023JD038921
#230	Huang, L., Wang, Y., **Zhao, Y.***, Hu, H., Yang, Y., Wang, Y., **Yu, J. Z.**, Chen, T., Cheng, Z., Li, C., Li, Z., Xiao, H. Biogenic and Anthropogenic Contributions to Atmospheric Organosulfates in a Typical Megacity in Eastern China	J. Geophys. Res. Atmospheres **2023**, 128, e2023JD038848. https://doi.org/10.1029/2023JD038848
#229 *	Li, Y., **Fu, T. M.***, **Yu, J. Z.***, Yu, X., Chen, Q., Miao, R., Zhou, Y., Zhang, A., Ye, J., Yang, X., Tao, S., Liu, Ho, Yao, W. Dissecting the Contributions of Organic Nitrogen Aerosols to Global Atmospheric Nitrogen Deposition and Implications for Ecosystems	Natl. Sci. Rev. **2023**, 10(12), nwad244. https://doi.org/10.1093/nsr/nwad244
#228 *	Wang, Y., Liang, S., Le Breton, M., Wang, Q., Liu, Q., Ho, C. H., Kuang, B., Wu, C., Hallquist, M., Tong, R., **Yu, J. Z.*** Field Observations of C_2 and C_3 Organosulfates and Insights into Their Formation Mechanisms at a Suburban Site in Hong Kong	Sci. Tot. Environ. **2023**, 904, 166851. https://doi.org/10.1016/j.scitotenv.2023.166851
#227 *	Yu, X., Wong, Y., **Yu, J. Z.*** Abundance and Sources of Organic Nitrogen in Fine ($PM_{2.5}$) and Coarse ($PM_{2.5–10}$) Particulate Matter in Urban Hong Kong	Sci. Tot. Environ. **2023**, 901, 165880. https://doi.org/10.1016/j.scitotenv.2023.165880
#226	Lai, D., Wong, Y., Xu, R., Xing, S., Ng, S. I. M., Kong, L., **Yu, J. Z.**, **Huang, D. D.***, **Chan, M. N.*** Significant Conversion of Organic Sulfur from Hydroxymethanesulfonate to Inorganic Sulfate and Peroxydisulfate Ions upon Heterogeneous OH Oxidation	Environ. Sci. Technol. Lett. **2023**, 10(9), 773-778. https://doi.org/10.1021/acs.estlett.3c00472
#225	Wang, Y., Zhang, Y., Li, W., Wu, G., Qi, Y., Li, S., Zhu, W., **Yu, J. Z.**, Yu, X., Zhang, H., Sun, J., Wang, W., Sheng, L., Yao, X., Gao, H., Huang, C., **Ma, Y.***, **Zhou, Y.*** Important Roles and Formation of Atmospheric Organosulfates in Marine Organic Aerosols: Influence of Phytoplankton Emissions and Anthropogenic Pollutants	Environ. Sci. Technol. **2023**, 57(28), 10284-10294. https://doi.org/10.1021/acs.est.3c01422
#224 *	Li, J., Ho, S. C. H., Griffith, S. M.*, Huang, Y., Cheung, R. K. Y., Hallquist, M., Hallquist, Å. M., Louie, P. K. K., Fung, J. C. H., Lau, A. K. H., **Yu, J. Z.*** Concurrent Measurements of Nitrate at Urban and Suburban Sites Identify Local Nitrate Formation as a Driver for Urban Episodic $PM_{2.5}$ Pollution	Sci. Tot. Environ. **2023**, 897, 165351. https://doi.org/10.1016/j.scitotenv.2023.165351
#223	Xu, Y., Feng, X., Chen, Y., Zheng, P., Hui, L., Chen, Y., **Yu, J. Z.**, **Wang, Z.*** Development of an Enhanced Method for Atmospheric Carbonyls and Characterizing Their Roles in Photochemistry in Subtropical Hong Kong	Sci. Tot. Environ. **2023**, 896, 165135. https://doi.org/10.1016/j.scitotenv.2023.165135

Seq#	Authors |Title	Source
#222 *	Zhu, S., Zhou, M., Qiao, L., Huang, D. D., Wang, Q., Wang, S., Gao, Q., Jing, S., Wang, Q., Wang, H., Chen, C., **Huang, C.***, **Yu, J. Z.*** Evolution and Chemical Characteristics of Organic Aerosols during Wintertime $PM_{2.5}$ Episodes in Shanghai, China: Insights Gained from Online Measurements of Organic Molecular Markers	Atmos. Chem. Phys. **2023**, 23, 7551-7568. https://doi.org/10.5194/acp-23-7551-2023
#221	Guo, W., **Yu, J. Z.**, **Chan, W.*** Face Mask as a Versatile Sampling Device for the Assessment of Personal Exposure to 54 Toxic Compounds in Environmental Tobacco Smoke	Chem. Res. Toxicol. **2023**, 36(7), 1140-1150. https://doi.org/10.1021/acs.chemrestox.3c00114
#220 *	Zhang, J., Liu, J., Ding, X., He, X., Zhang, T., Zheng, M., Choi, M., Issacman-VanWertz, G., Yee, L., Zhang, H., Misztal, P., Goldstein, A. H., Guenther, A. B., Budisulistiorini, S. H., Surratt, J. D., Stone, E. A., Shrivastava, M., Wu, D., **Yu, J. Z.***, **Ying, Q.*** New Formation and Fate of Isoprene SOA Markers Revealed by Field Data-Constrained Modeling	NPJ Clim. Atmos. Sci. **2023**, 6, 69. https://doi.org/10.1038/s41612-023-00394-3
#219 *	Liao, K., Zhang, J., Chen, Y., Lu, X., Fung, J. C. H., **Ying, Q.***, **Yu, J. Z.*** Regional Source Apportionment of Trace Metals in Fine Particulate Matter using an Observation-Constrained Hybrid Model	NPJ Clim. Atmos. Sci. **2023**, 6, 65. https://doi.org/10.1038/s41612-023-00393-4
#218	Wang, Y., Zhang, Z., Chow, W. S., Wang, Z., **Yu, J. Z.**, Fung, J. C. H., **Shi, X.*** Investigating the Effect of Aerosol Uncertainty on Convective Precipitation Forecasting in South China's Coastal Area	J. Geophys. Res. Atmospheres **2023**, 128, e2023JD038694. https://doi.org/10.1029/2023JD038694
#217	Li, R., Zhang, K., Li, Q., Yang, L., Wang, S., Liu, Z., Zhang, X., Chen, H., Yi, Y., Feng, J., Wang, Q., Huang, L., Wang, W., Wang, Y., **Yu, J. Z.**, **Li, L.*** Characteristics and Degradation of Organic Aerosols from Cooking Sources based on Hourly Observation of Organic Molecular Markers in Urban Environment	Atmos. Chem. Phys. **2023**, 23, 3065-3081. https://doi.org/10.5194/acp-23-3065-2023
#216	Li, Q., Zhang, K., Li, R., Yang, L., Yi, Y., Liu, Z., Zhang, X., Feng, J., Wang, Q., Wang, W., Huang, L., Wang, Y., Wang, S., Chen, H., Chan, A., Latif, M. T., Ooi, M. C. G., Manomaiphiboon, K., **Yu, J. Z.**, **Li, L.*** Underestimation of Biomass Burning Contribution to $PM_{2.5}$ due to its Chemical Degradation based on Hourly Measurements of Organic Tracers: A Case Study in the Yangtze River Delta (YRD) Region	Sci. Tot. Environ. **2023**, 872, 162071. https://doi.org/10.1016/j.scitotenv.2023.162071
#215	Li, T., Mao, H., Wang, Z., **Yu, J. Z.**, Li, S., Nie, X., Herrmann, H., **Wang, Y.*** Field Evidence for Asian Outflow and Fast Depletion of Total Gaseous Mercury in the Polluted Coastal Atmosphere	Environ. Sci. Technol. **2023**, 57(10), 4101-4112. https://doi.org/10.1021/acs.est.2c07551
#214	Zhang, Y., Li, W., Li, L., Li, M., Zhou, Z., **Yu, J. Z.**, **Zhou, Y.*** Source Apportionment of $PM_{2.5}$ using PMF Combined Online Bulk and Single-particle Measurements: Contribution of Fireworks and Biomass Burning	J. Environ. Sci. **2023**, 136, 325-336. https://doi.org/10.1016/j.jes.2022.12.019
#213 *	Liao, K., Wang, Q., Wang, S., **Yu, J. Z.*** Bayesian Inference Approach to Quantify Primary and Secondary Organic Carbon in Fine Particulate Matter Using Major Species Measurements	Environ. Sci. Technol. **2023**, 57(13), 5169-5179. https://doi.org/10.1021/acs.est.2c09412
#212	Tian, L., **Huang, D. D.***, Wang, Q., Zhu, S., Wang, Q., Yan, C., Nie, W., Wang, Z., Qiao, L., Liu, Y., Qiao, X., Guo, Y., Zheng, P., Jing, S., Lou, S., Wang, H., **Yu, J. Z.**, Huang, C., **Li, Y. J.*** Underestimated Contribution of Heavy Aromatics to Secondary Organic Aerosol Revealed by Comparative Assessments Using New and Traditional Methods	ACS Earth Space Chem. **2023**, 7(1), 110-119. https://doi.org/10.1021/acsearthspacechem.2c00252

Seq#	Authors |Title	Source
#211 *	Li, T., Chen, H., Fung, J. C. H., Chan, D. H. L., Yu, A. L. C., Leung, K. K. M., **Yu, J. Z.*** Large Presence of Bromine and Toxic Metals in Ambient Fine Particles from Urban Fires	Atmos. Environ. **2023**, 295, 119554. https://doi.org/10.1016/j.atmosenv.2022.119554
	2022	
#210	Zeng, L., **Huang, D. D.***, Zhu, S., Li, F., Zhou, M., Qiao, L., Wang, Q., Wang, Q., Ma, Y., Lou, S., Shi, H., Hoi, K. I., Mok, K. M., Ge, X., Wang, H., **Yu, J. Z.**, Huang, C., **Li, Y. J.*** The Interplays among Meteorology, Source, and Chemistry in High Particulate Matter Pollution Episodes in Urban Shanghai, China	Sci. Tot. Environ. **2022**, 853, 158347. https://doi.org/10.1016/j.scitotenv.2022.158347
#209	Yi, Y., Li, Q., Zhang, K., Li, R., Yang, L., Liu, Z., Zhang, X., Wang, S., Wang, Y., Chen, H., Huang, L., **Yu, J. Z.**, **Li, L.*** Highly Time-Resolved Measurements of Elements in $PM_{2.5}$ in Changzhou, China: Temporal Variation, Source Identification and Health Risks	Sci. Tot. Environ. **2022**, 853, 158450. https://doi.org/10.1016/j.scitotenv.2022.158450
#208	Wang, N., Zhang, Y., Li, L., Wang, H., Zhao, Y., Wu, G., Li, M., Zhou, Z., Wang, X., **Yu, J. Z.**, **Zhou, Y.*** Ambient Particle Characteristics by Single Particle Aerosol Mass Spectrometry at a Coastal Site in Hong Kong: a Case Study Affected by the Sea-Land Breeze	PeerJ **2022**, 10, e14116. https://doi.org/10.7717/peerj.14116
#207	Sun, Z., Guo, W., Chan, C., Jin, L., Griffith, S. M., **Yu, J. Z.**, **Chan, W.*** Polyurethane Foam Face Masks as a Dosimeter for Quantifying Personal Exposure to Airborne Volatile and Semi-Volatile Organic Compounds	Chem. Res. Toxicol. **2022**, 35(9), 1604-1613. https://doi.org/10.1021/acs.chemrestox.2c00205
#206 *	Chow, W. S., Liao, K., Huang, X. H. H., Leung, K. F., Lau, A. K. H., **Yu, J. Z.*** Measurement Report: Ten-year Trend of $PM_{2.5}$ Major Components and Source Tracers from 2008 to 2017 in an Urban Site of Hong Kong, China	Atmos. Chem. Phys. **2022**, 22, 11557-11577. https://doi.org/10.5194/acp-22-11557-2022
#205 *	Wang, Q., Wang, S., Cheng, Y. Y., Chen, H., Zhang, Z., Li, J., Gu, D., Wang, Z., **Yu, J. Z.*** Chemical Evolution of Secondary Organic Aerosol Tracers during High-$PM_{2.5}$ Episodes at a Suburban Site in Hong Kong over 4 Months of Continuous Measurement	Atmos. Chem. Phys. **2022**, 22, 11239-11253. https://doi.org/10.5194/acp-22-11239-2022
#204 *	Wang, S., Wang, Q., Zhu, S., Zhou, M., Qiao, L., Huang, D., Ma, Y., Lu, Y., Huang, C., Fu, Q., Duan, Y., **Yu, J. Z.*** Hourly Organic Tracers-based Source Apportionment of $PM_{2.5}$ before and during the Covid-19 Lockdown in Suburban Shanghai, China: Insights into Regional Transport Influences and Response to Urban Emission Reductions	Atmos. Environ. **2022**, 289, 119308. https://doi.org/10.1016/j.atmosenv.2022.119308
#203	Ng, S. I. M., Ng, K. H., Yeung, P. W. F., Xu, R., So, P., Huang, Y., **Yu, J. Z.**, Choi, C. K. K., Tse, Y. L. S., **Chan, M. N.*** Chemical Transformation of a Long-Chain Alkyl Organosulfate via Heterogeneous OH Oxidation: A Case Study of Sodium Dodecyl Sulfate	Environ. Sci. Atmos. **2022**, 2, 1060-1075. https://doi.org/10.1039/D2EA00026A
#202	Xu, R., Ng, S. I. M., Chow, W. S., Wong, Y. K., Wang, Y., Lai, D., Yao, Z., So, P. K., **Yu, J. Z.**, **Chan, M. N.*** Chemical Transformation of α-Pinene derived Organosulfate via Heterogeneous OH Oxidation: Implications for Sources and Environmental Fates of Atmospheric Organosulfates	Atmos. Chem. Phys. **2022**, 22, 5685-5700. https://doi.org/10.5194/acp-22-5685-2022
#201	Wang, Y., Huang, W., Tian, L., Wang, Y., Li, F., Huang, D. D., Zhang, R., Mabato, B. R. G., Huang, R. J., Chen, Q., Ge, X., Du, L., Ma, Y. G., Gen, M., Hoi, K. I., Mok, K. M., **Yu, J. Z.**, Chan, C. K., Li, X., **Li, Y. J.*** Decay Kinetics and Absorption Changes of Methoxyphenols and Nitrophenols during Nitrate-Mediated Aqueous Photochemical Oxidation at 254 and 313 nm	ACS Earth Space Chem. **2022**, 6(4), 1115-1125. https://doi.org/10.1021/acsearthspacechem.2c00021

Seq#	Authors |Title	Source
#200 *	Wong, Y. K., Liu, K. M., Yeung, C., Leung, K. K. M., **Yu, J. Z.*** Measurement Report: Characterization and Source Apportionment of Coarse Particulate Matter in Hong Kong: Insights into the Constituents of Unidentified Mass and Source Origins in a Coastal City in Southern China	Atmos. Chem. Phys. **2022**, 22, 5017-2031. https://doi.org/10.5194/acp-22-5017-2022
#199 *	Chow, W. S., Huang, X. H. H., Leung, K. F., Huang, L., Wu, X., **Yu, J. Z.*** Molecular and Elemental Marker-based Source Apportionment of Fine Particulate Matter at Six Sites in Hong Kong, China	Sci. Tot. Environ. **2022**, 813, 152652. https://doi.org/10.1016/j.scitotenv.2021.152652
#198 *	Li, J., Yu, X., Li, Q., Wang, S., Cheng, Y. Y., **Yu, J. Z.*** Online Measurement of Aerosol Inorganic and Organic Nitrogen based on Thermal Evolution and Chemiluminescent Detection	Atmos. Environ. **2022**, 271, 118905. https://doi.org/10.1016/j.atmosenv.2021.118905
#197	Zhang, J., He, X., Ding, X., **Yu, J. Z.**, **Qi, Y.*** Modeling Secondary Organic Aerosol Tracers and Tracer-to-SOA Ratios for Monoterpenes and Sesquiterpenes Using a Chemical Transport Model	Environ. Sci. Technol. **2022**, 56, 804-813. https://doi.org/10.1021/acs.est.1c06373
#196 *	Wang, Y., Ma, Y. G., Kuang, B., Lin, P., Liang, Y., Huang, C., **Yu, J. Z.*** Abundance of Organosulfates Derived from Biogenic Volatile Organic Compounds: Seasonal and Spatial Contrasts at Four Sites in China	Sci. Tot. Environ. **2022**, 809, 151275. https://doi.org/10.1016/j.scitotenv.2021.151275
#195 *	Zhuang, M., **Ma, Y. G.***, Cheng, Y., Zhou, M., Dai, H., Huang, C., **Yu, J. Z.**, Zhu, S. H., Qiao, L., **Tong, Z.*** Characteristics of Nitroaromatic Compounds in $PM_{2.5}$ in Urban Area of Shanghai	Environ. Sci. **2022**, 43, 1725-1737. https://doi.org/10.13227/j.hjkx.202106215
	2021	
#194 *	**Yu, J. Z.*** An Interfacial Role for NO_2	Nature Chemistry **2021**, 13, 1158-1160. https://doi.org/10.1038/s41557-021-00845-5
#193	Zhang, K., Yang, L., Li, Q., Zhang, D., Xu, W., Feng, J., Wang, Q. Q., Wang, W., Huang, L., Yaluk, E. A., Wang, Y., **Yu, J. Z.**, **Li, L.*** Hourly Measurement of $PM_{2.5}$-bound Nonpolar Organic Compounds in Shanghai: Characteristics, Sources and Health Risk Assessment	Sci. Tot. Environ. **2021**, 789, 148070. https://doi.org/10.1016/j.scitotenv.2021.148070
#192 *	Huang, D. D., Zhu, S. H., An, J. Y., Wang, Q. Q., Qiao, L. P., Zhou, M., He, X., Ma, Y. G., Sun, Y. L., Huang, C., **Yu, J. Z.***, **Zhang, Q.*** Comparative Assessment of Cooking Emission Contributions to Urban Organic Aerosol using Online Molecular Tracers and Aerosol Mass Spectrometer Measurements	Environ. Sci. Technol. **2021**, 55, 14526-14535. https://doi.org/10.1021/acs.est.1c03280
#191	**Chan, W.***, Guo, W., **Yu, J. Z.** Polyurethane-Based Face Mask as a Sampling Device for Environmental Tobacco Smoke	Anal. Chem. **2021**, 93, 13912-13918. https://doi.org/10.1021/acs.analchem.1c02906
#190	Jing, L., Griffith, S. M., Sun, Z., **Yu, J. Z.**, **Chan, W.*** On the Flip Side of Mask Wearing: Increased Exposure to Volatile Organic Compounds and a Risk-Reducing Solution	Environ. Sci. Technol. **2021**, 55, 14095-14104. https://doi.org/10.1021/acs.est.1c04591
#189	Zhang, J., He, X., Gao, Y., Zhu, S., Jing, S., Wang, H., **Yu, J. Z.**, **Ying, Q.*** Estimation of Aromatic Secondary Organic Aerosol Using a Molecular Tracer - A Chemical Transport Model Assessment	Environ. Sci. Technol. **2021**, 55, 12882-12892. https://doi.org/10.1021/acs.est.1c03670

Seq#	Authors |Title	Source
#188	Wang, Q. Q., Yu, J. Z.*	Geophys. Res. Lett.
*	Ambient Measurements of Heterogeneous Ozone Oxidation Rates of Oleic, Elaidic, and Linoleic Acid Using a Relative Rate Constant Approach in an Urban Environment	**2021**, e2021GL095130. https://doi.org/10.1029/2021GL095130
#187	Wong, Y. K., Huang, X. H. H., Cheng, Y. Y., **Yu, J. Z.***	Environ. Pollut.
*	Estimating Primary Vehicular Emission Contributions to $PM_{2.5}$ using the Chemical Mass Balance Model: Accounting for Gas-Particle Partitioning of Organic Aerosols and Oxidation Degradation of Hopanes	**2021**, 291, 118131. https://doi.org/10.1016/j.envpol.2021.118131
#186	Yu, X., Li, Q. F., Ge, Y., Li, Y., Liao, K., Huang, X. H. H., Li, J., **Yu, J. Z.***	Environ. Sci. Technol.
*	Simultaneous Determination of Aerosol Inorganic and Organic Nitrogen by Thermal Evolution and Chemiluminescence Detection	**2021**, 55, 11579-11589. https://pubs.acs.org/doi/10.1021/acs.est.1c04876
#185	Wang, Y. C., **Tong, R. B.***, **Yu, J. Z.***	Environ. Sci. Technol.
*	Chemical Synthesis of Multifunctional Air Pollutants: Terpene-Derived Nitrooxy Organosulfates	**2021**, 55, 8573-8582. https://pubs.acs.org/doi/full/10.1021/acs.est.1c00348
#184	Li, Y., **Fu, T. M.***, **Yu, J. Z.***, Feng, X., Zhang, L., Chen, J., Boreddy, S. K. R,	Environ. Sci. Technol.
*	Kawamura, K., Fu, P. Q., Yang, X., Zhu, L., Zeng, Z. Z. Impacts of Chemical Degradation on the Global Budget of Atmospheric Levoglucosan and Its Use as a Biomass Burning	**2021**, 55, 5525-5536. https://pubs.acs.org/doi/abs/10.1021/acs.est.0c07313
#183	**Chan. W.***, Jin, L., Sun, Z. H., **Griffith, S. M.***, **Yu, J. Z.***	Environ. Sci. Technol.
*	Fabric Masks as a Personal Dosimeter for Quantifying Exposure to Airborne Polycyclic Aromatic Hydrocarbons	**2021**, 55, 5128-5135. https://pubs.acs.org/doi/10.1021/acs.est.0c08327
#182	Lin, M. F., **Yu, J. Z.***	Environ. Pollut.
*	Assessment of Oxidative Potential by Hydrophilic and Hydrophobic Fractions of Water-soluble $PM_{2.5}$ and Their Mixture Effects	**2021**, 275, 116616. https://doi.org/10.1016/j.envpol.2021.116616
#181	Liao, K. Z., Park, E. S., Zhang, J., Cheng, L. J., Ji, D. S., **Ying, Q.***, **Yu, J. Z.***	Sci. Tot. Environ.
*	A Multiple Linear Regression Model with Multiplicative Log-normal Error Term for Atmospheric Concentration Data	**2021**, 767, 144282. https://doi.org/10.1016/j.scitotenv.2020.144282
#180	Zhu, S. H., Wang, Q. Q., Qiao, L. P., Zhou, M., Wang S., Lou, S. R., Huang, D. D.,	Faraday Diss.
*	Wang, Q., Jing, S. G., Wang, H. L., Chen, C. H., **Huang, C.***, **Yu, J. Z.*** Tracer-based Characterization of Source Variations of $PM_{2.5}$ and Organic Carbon in Shanghai Influenced by the COVID-19 Lockdown	**2021**, 226, 112 - 137 http://doi.org/10.1039/D0FD00091D
#179	Chen, W. Y., Chen, Y. A., Huang, Y. Q., Lu, X. C., **Yu, J. Z.**, **Fung, J. C. H.***, Louie, P. K. K., Tam, F. C. V., Yue, D. L., Lau, A. K. H., Zhong, L. J. Source Apportionment of Fine Secondary Inorganic Aerosol over the Pearl River Delta Region Using a Hybrid Method	Atmos. Pollut. Res. **2021**, 12, 101061. https://doi.org/10.1016/j.apr.2021.101061
#178	Liao, H. T., Lee, C. L., Tsai, W. C., **Yu, J. Z.**, Tsai, S. W., Chou, C. C., **Wu, C. F.*** Source Apportionment of Urban $PM_{2.5}$ Using Positive Matrix Factorization with Vertically Distributed Measurements of Trace Elements and Nonpolar Organic Compounds	Atmos. Pollut. Res. **2021**, 12, 200-207. https://doi.org/10.1016/j.apr.2021.03.007
#177	Wang, Y., **Zhao, Y.***, Wang, Y, C., **Yu J. Z.**, Shao J. Y., Liu, P., Zhu, W. F., Cheng, Z., Li, Z. Y., Yan, N.Q., Xiao, H. Y. Organosulfates in Atmospheric Aerosols in Shanghai, China: Seasonal and Interannual Variability, Origin, and Formation Mechanisms	Atmos. Chem. Phys. **2021**, 21, 2959-2980. https://doi.org/10.5194/acp-21-2959-2021

Seq#	Authors |Title	Source
#176	Lee, H. M., Lee, S. P., Li, Y., **Yu, J.Z.**, Kim, J. Y., Kim, Y. P., **Lee, J. Y.*** Characterization of Seasonal Difference of HULIS-C Sources from Water Soluble $PM_{2.5}$ in Seoul, Korea: Probing Secondary Processes	Aerosol Air Qual. Res. **2021,** 21, 200233. https://doi.org/10.4209/aaqr.2020.05.0233
	2020	
#175 *	Wang, Y. J., **Hu, M.***, Wang, Y. C., Li, X., Fang, X., Tang, R. Z., Lu, S. H., Wu, Y. S., Guo, S., Wu, Z. J., Hallquist, M., **Yu, J. Z.*** Comparative Study of Particulate Organosulfates in Contrasting Atmospheric Environments: Field Evidence for the Significant Influence of Anthropogenic Sulfate and NOx	Environ. Sci. Technol. Lett. **2020**, 7, 787-794. https://pubs.acs.org/doi/10.1021/acs.estlett.0c00550
#174 *	Li, R., Wang, Q., He, X., Zhu, S., Zhang, K., Duan, Y., Fu, Q., Qiao, L., Wang, Y., Huang, L., **Li, L.***, **Yu, J. Z.*** Source Apportionment of $PM_{2.5}$ in Shanghai Based on Hourly Molecular Organic Markers and Other Source Tracers	Atmos. Chem. Phys. **2020**, 20, 12047–12061. https://doi.org/10.5194/acp-20-12047-2020
#173 *	Cheng, Y. Y., **Yu, J. Z.*** Minimizing Contamination from Plastic Labware in the Quantification of C16 and C18 Fatty Acids in Filter Samples of Atmospheric Particulate Matter and Their Utility in Apportioning Cooking Source Contribution to Urban $PM_{2.5}$	Atmosphere **2020**, 11, 1120. https://www.mdpi.com/2073-4433/11/10/1120
#172 *	Wang, Q. Q., He, X., Zhou, M., Huang, D. D., Qiao, L. P., Zhu, S. H., Ma, Y. G., Wang, H. L., Li, L., **Huang, C.***, Huang, X. H. H., Xu, W., Worsnop, D. R., Goldstein, A. H., Guo, H., **Yu, J. Z.*** Hourly Measurements of Organic Molecular Markers in Urban Shanghai, China: Primary Organic Aerosol Source Identification and Observation of Cooking Aerosol Aging	ACS Earth Space Chem. **2020**, 4, 1670-1685. https://pubs.acs.org/doi/10.1021/acsearthspacechem.0c00205
#171 *	Wong, Y. K., Huang, X. H. H., Louie, P. K. K., Yu, A. L. C., Chan, D. H. L., and **Yu, J. Z.*** Tracking Separate Contributions of Diesel and Gasoline Vehicles to Roadside $PM_{2.5}$ Through Online Monitoring of Volatile Organic Compounds, $PM_{2.5}$ Organic and Elemental Carbon: A Six-Year Study in Hong Kong	Atmos. Chem. Phys. **2020**, 20, 9871–9882. https://doi.org/10.5194/acp-20-9871-2020
#170 *	He, X., Wang, Q. Q., Huang, X. H. H., Huang, D. D., Zhou, M., Qiao, L. P., Zhu, S. H., Ma, Y. G., Wang, H. L., Li, L., **Huang, C.***, Xu, W., Worsnop, D. R., Goldstein, A. H., **Yu, J. Z.*** Hourly Measurements of Organic Molecular Markers in Urban Shanghai, China: Observation of Enhanced Formation of Secondary Organic Aerosol during Particulate Matter Episodic Periods	Atmos. Environ. **2020**, 240, 117807. https://doi.org/10.1016/j.atmosenv.2020.117807
#169 *	Liao, K. Z., **Yu, J. Z.*** Abundance and Sources of Benzo[a]pyrene and Other PAHs in Ambient Air in Hong Kong: A Review of 20-Year Measurements (1997 to 2016)	Chemosphere **2020,** 259, 127518. https://doi.org/10.1016/j.chemosphere.2020.127518
#168 *	**Zhou, Y.***, Zhang, Y. J., Griffith, S. M., Wu, G. R., Li, L., Zhao, Y. H., Li, M., Zhou, Z., **Yu, J. Z.*** Field Evidence of Fe-Mediated Photochemical Degradation of Oxalate and Subsequent Sulfate Formation Observed by Single Particle Mass Spectrometry	Environ. Sci. Technol. **2020**, 54, 6562-6574. https://doi.org/10.1021/acs.est.0c00443
#167 *	Lin, M. F., **Yu, J. Z.*** Assessment of Interactions between Transition Metals and Atmospheric Organics: Ascorbic Acid Depletion and Hydroxyl Radical Formation in Organic-Metal Mixtures	Environ. Sci. Technol. **2020**, 54, 1431-1442. https://doi.org/10.1021/acs.est.9b07478
#166	Zhang, Y. L., Zhang, R. X., **Yu, J. Z.,** Zhang, Z., Yang, W. Q., Zhang, H. N., Lyu, S. J., Wang, Y. S., Dai, W., **Wang, Y. H.***, **Wang, X. M.*** Isoprene Mixing Ratios Measured at Twenty Sites in China During 2012–2014: Comparison With Model Simulation	J. Geophys. Res. Atmospheres **2020**, 125, e2020JD033523. https://doi.org/10.1029/2020JD033523

Seq#	Authors |Title	Source
#165	Xu, R. S., Ge, Y., Kwong, K. C., Poon, H. Y., Wilson, K., **Yu, J. Z.**, **Chan, M. N.*** Inorganic Sulfur Species Formed upon Heterogeneous OH Oxidation of Organosulfates: A Case Study of Methyl Sulfate	ACS Earth Space Chem. **2020,** 4, 2041-2049. https://pubs.acs.org/doi/abs/10.1021/acsearthspacechem.0c00209
#164	Yu, X., Li, D., Li, D., Zhang, G., Zhou, H., Li, S., Song, W., Zhang, Y., Bi, X., **Yu, J. Z.**, **Wang, X. M.*** Enhanced Wet Deposition of Water-Soluble Organic Nitrogen During the Harvest Season: Influence of Biomass Burning and In-Cloud Scavenging	J. Geophys. Res. Atmospheres **2020**, 125, e2019JD030983. https://doi.org/10.1029/2020JD032699
#163	Lee, J. S., Kim, E. S., Kim, K. A., **Yu, J. Z.**, Kim, Y. P., Jung, C. H., **Lee, J. Y.*** Temporal Variations and Characteristics of the Carbonaceous Species in $PM_{2.5}$ Measured at Anmyeon Island, a Background Site in Korea	Asian J. Atmos. Environ. **2020**, 14, 35-46. https://doi.org/10.5572/ajae.2020.14.1.035
#162	**Morrison, D.***, Li, J. J., Crawford, I., Che, W. W., Flynn, M., Chan. M. N., Lau, A. K. H., Fung, J. C. H., Topping, D., **Yu, J. Z.**, Gallagher, M. The Observation and Characterisation of Fluorescent Bioaerosols Using Real-Time UV-LIF Spectrometry in Hong Kong from June to November 2018	Atmosphere **2020**, 11, 944. https://www.mdpi.com/2073-4433/11/9/944
#161	Wan, Y. B., Huang, X. P., Jiang, B., Kuang, B. Y., Lin, M. F., Xia, D. M., Liao, Y. H., Chen, J. W., **Yu, J. Z.**, and **Yu, H.*** Probing Key Organic Substances Driving New Particle Growth Initiated by Iodine Nucleation in Coastal Atmosphere	Atmos. Chem. Phys. **2020**, 20, 9821-9835. https://doi.org/10.5194/acp-20-9821-2020
#160	Ma, Y. Q., Cheng, Y. B., Gao, C., **Yu, J. Z.**, **Hu, D.*** Speciation of Carboxylic Components in Humic-Like Substances (HULIS) and Source Apportionment of HULIS in Ambient Fine Aerosols ($PM_{2.5}$) Collected in Hong Kong	Environ. Sci. Pollut. Res. **2020,** 27, 23172-23180. https://doi.org/10.1007/s11356-020-08915-w
#159	Sun, J. Y., **Wu, C.***, **Wu, D.***, Cheng, C., Li, M., Li, L., Deng, T., **Yu, J. Z.**, Li, Y. J., Zhou, Q., Liang, Y., Sun, T., Song, L., Cheng, P., Yang, W., Pei, C., Chen, Y., Cen, Y., Nian, H. **Zhou, Z.*** Amplification of Black Carbon Light Absorption Induced by Atmospheric Aging: Temporal Variation at Seasonal and Diel Scales in Urban Guangzhou	Atmos. Chem. Phys. **2020**, 20, 2445-2470. https://www.atmos-chem-phys.net/20/2445/2020/
#158	Yu, X., Pan, Y. P., Song, W., Li, S., Li, D., Zhu, M., Zhou, H. S., Zhang, Y. L., Li, D. J., **Yu, J. Z.**, Wang, X. M., **Wang, X. M**.* Wet and Dry Nitrogen Depositions in the Pearl River Delta, South China: Observations at Three Typical Sites with an Emphasis on Water-Soluble Organic Nitrogen.	J. Geophys. Res. Atmospheres **2020**, 125, e2019JD030983. https://doi.org/10.1029/2019JD030983
	2019	
#157 *	Xue, J., Yu, X., Yuan, Z. B., Griffith, S. M., Lau, A. K. H., **Seinfeld, J. H.***, **Yu, J. Z.*** Efficient Control of Atmospheric Sulfate Production Based on Three Formation Regimes	Nature Geosci. **2019**, 12, 977-982. https://doi.org/10.1038/s41561-019-0485-5
#156 *	Wang, Y. C., Ma, Y. G., Li, X. J., Kuang, B. Y., Huang, C., **Tong, R. B.***, **Yu, J. Z.*** Monoterpene and Sesquiterpene α-Hydroxy Organosulfates: Synthesis, MS/MS Characteristics, and Ambient Presence	Environ. Sci. Technol. **2019**, 53, 12278-12290. https://pubs.acs.org/doi/10.1021/acs.est.9b04703
#155 *	Lin, M. F., **Yu, J. Z.*** Effect of Metal-organic Interactions on the Oxidative Potential of Mixtures of Atmospheric Humic-Like Substances and Copper/Manganese as Investigated by the Dithiothreitol Assay	Sci. Tot. Environ. **2019**, 697, 134012. https://doi.org/10.1016/j.scitotenv.2019.134012

Seq#	Authors |Title	Source
#154 *	Wang, Y. J., **Hu, M.***, Wang, Y. C., Zheng, J., Shang, D. J., Yang, Y. D., Liu, Y., Li, X., Tang, R. Z., Zhu, W. F., Du, Z. F., Wu, W. S., Guo, S., Wu, Z. J., Lou. S. R., Hallquist, M., **Yu, J. Z.*** The Formation of Nitro-aromatic Compounds under High NO_x and Anthropogenic VOC Conditions in Urban Beijing, China	Atmos. Chem. Phys. **2019**, 19, 7649-7665. https://www.atmos-chem-phys.net/19/7649/2019/
#153 *	Li, J. J., Liu, Q. Y., **Li, Y. J.***, Liu, T. Y., Huang D. D., Zheng, J., Zhu, W. F., Hu, M., Wu, Y. S., Lou, S. R., Hallquist, A. M., Hallquist, M., Chan, C. K., Canonaco, F., Prévôt, A. S. H., Fung, J. C. H., Lau, A. K. H., **Yu, J. Z.*** Characterization of Aerosol Aging Potentials at Suburban Sites in Northern and Southern China Utilizing a Potential Aerosol Mass (Go:PAM) Reactor and Aerosol Mass Spectrometer	J. Geophys. Res. Atmospheres **2019**, 124 (10), 5629-5649. http://dx.doi.org/10.1029/2018JD029904
#152 *	Lin, M. F., **Yu, J. Z.*** Dithiothreitol (DTT) Concentration Effect and Its Implications on the Applicability of DTT Assay to Evaluate the Oxidative Potential of Atmospheric Aerosol Samples	Environ. Pollut. **2019**, 938-944. https://doi.org/10.1016/j.envpol.2019.05.074
#151 *	Wong, Y. K., Huang, X. H. H., **Yu, J. Z.*** Incorporating Hopane Degradation into Chemical Mass Balance Model: Improving Accuracy of Vehicular Source Contribution Estimation	Atmos. Environ. **2019**, 210, 211-219. https://doi.org/10.1016/j.atmosenv.2019.04.055
#150 *	Wong, Y. K., Huang, X. H. H., Cheng, Y. Y., Louie, P. K. K., Yu, A. L. C., Tang, A.W.Y., Chan, D. H. L., **Yu, J. Z.*** Estimating Contributions of Vehicular Emissions to $PM_{2.5}$ in a Roadside Environment: A Multiple Approach Study	Sci. Tot. Environ. **2019**, 672, 776-788. https://www.sciencedirect.com/science/article/pii/S0048969719314792
#149 *	**Wu, C.***, Wu, D., **Yu, J. Z.*** Estimation and Uncertainty Analysis of Secondary Organic Carbon Using 1 Year of Hourly Organic and Elemental Carbon Data	J. Geophys. Res. Atmospheres **2019**, 124, 2774-2795. https://doi.org/10.1029/2018JD029290
#148 *	Wang, Q. Q., **Huang, X. H. H.***, Tam, F. C. V., Zhang, X. X., Liu, K. M., Yeung, C., Feng, Y. M., Cheng, Y. Y., Wong, Y. K., Ng, W. M., Wu, C., Zhang, Q. Y., Zhang, T., Lau, N. T., Yuan, Z. B., Lau, A. K. H., **Yu, J. Z.*** Source Apportionment of Fine Particulate Matter in Macao, China with and without Organic Tracers: A Comparative Study using Positive Matrix Factorization	Atmos. Environ. **2019**, 198, 183-193. https://doi.org/10.1016/j.atmosenv.2018.10.057
#147	Yao, M., **Zhao, Y.***, Hu, M. Q., Huang, D. D., Wang, Y. C., **Yu, J. Z.**, Yan, N. Q. Multiphase Reactions between Secondary Organic Aerosol and Sulfur Dioxide: Kinetics and Contributions to Sulfate Formation and Aerosol Aging	Environ. Sci. Technol. Lett. **2019**, 6, 768-774. https://doi.org/10.1021/acs.estlett.9b00657
#146	Wang, S., Zhou, S., Tao, Y., Tsui, W. G., Ye, J., **Yu, J. Z.**, Murphy, J. G., McNeill, V. F., Abbatt, J., **Chan, A.W.*** Organic Peroxides and Sulfur Dioxide in Aerosol: Source of Particulate Sulfate	Environ. Sci. Technol. **2019**, 53, 10695-10704. https://pubs.acs.org/doi/full/10.1021/acs.est.9b02591
#145	Brüggemann, M., von Pinxteren, D., Wang, Y. C., **Yu, J. Z.**, Herrmann, H. Quantification of Known and Unknown Terpenoid Organosulfates in PM_{10} using Untargeted LC–HRMS/MS: Contrasting Summertime Rural Germany and the North China Plain	Environ. Chem. **2019**, 16, 333-346. https://doi.org/10.1071/EN19089
#144	Ma, Y. Q., Cheng, Y. B., Qiu, X. H., Cao, G., Kuang, B. Y., **Yu, J. Z.**, **Hu, D.*** Optical Properties, Source Apportionment and Redox Activity of Humic-Like Substances (HULIS) in Airborne Fine Particulates in Hong Kong	Environ. Pollut. **2019**, 255, 113087. https://doi.org/10.1016/j.envpol.2019.113087

Seq#	Authors |Title	Source
#143	Zhu, M., Jiang, B., Li, S., Yu, Q. Q., Yu, X., Zhang, Y., Bi, X., **Yu, J. Z.**, George, C., Yu, Z., **Wang, X.*** Organosulfur Compounds Formed from Heterogeneous Reaction between SO_2 and Particulate-bound Unsaturated Fatty Acids in Ambient Air.	Environ. Sci. Technol. Lett. **2019**, 6, 318-322 https://pubs.acs.org/doi/pdf/10.1021/acs.estlett.9b00218
#142	Chen, S., Li, D. C., Zhang, H. Y., Yu, D. K., Chen, R., Zhang, B., Tan, Y. F., Niu, Y., Duan, H. W., Mai, B. X., Chen, S. J., **Yu, J. Z.**, Luan, T. G., Chen, L. P., Xing, X. M., Li, Q., Xiao, Y. M., Dong, G. H., Niu, Y. J., Aschner, M., Zhang, R., Zheng, Y. X., **Chen, W.*** The Development of a Cell-Based Model for the Assessment of Carcinogenic Potential upon Long-Term $PM_{2.5}$ Exposure	Environ. Int. **2019,** 131, 104943. https://doi.org/10.1016/j.envint.2019.104943
#141	Liu, M. X., Huang, X., **Song, Y.***, Tang, J., Cao, J. J., Zhang, X. Y., Zhang, Q., Wang, S. X., Xu, T. T., Kang, L. Cai, X. H., Zhang, H. S., Yang, F. M., Wang, H. B., **Yu, J. Z.**, Lau, A. K. H., He, L. Y., Huang, X. F., Duan, L., Ding, A. J., Xue, L. K., Gao, J., Li, B., **Zhu, T.*** Ammonia Emission Control in China would Mitigate Haze Pollution and Nitrogen Deposition, but Worsen Acid Rain	PNAS **2019**, p201814880 https://doi.org/10.1073/pnas.1814880116
#140	Li, D. C., Zhang, R., Cui, L. H., Chu, C., Zhang, H. Y., Sun, H., Luo, J., Zhou, L. X., Chen, L. P., Cui, J., Chen, S., Mai, B. X., Chen, S. J., **Yu, J. Z.**, Cai, Z. W., Zhang, J. Q., Jiang, Y. S., Aschner, M., Chen, R., Zheng, Y. X., **Chen, W.*** Multiple Organ Injury in Male C57BL/6J Mice Exposed to Ambient Particulate Matter in a Real-Ambient PM Exposure System in Shijiazhuang, China	Environ. Pollut. **2019**, 248, 874-887 https://doi.org/10.1016/j.envpol.2019.02.097
#139	Feng, B. H., Song, X. M., Dan, M., Yu, J., Wang, Q. Q., Shu, M. S., Xu, H. B., Wang, T., Chen, J., Zhang, Y., Zhao, Q., Wu, R. S., Liu, S., **Yu, J. Z.**, Wang, T., **Huang, W.*** High Level of Source-Specific Particulate Matter Air Pollution Associated with Cardiac Arrhythmias	Sci. Tot. Environ. **2019**, 657, 1285-1293 https://doi.org/10.1016/j.scitotenv.2018.12.178
#138	Liu, B., He, M. M., Wu, C., Li, J., Li, Y., Lau, N. T., **Yu, J. Z.**, Lau, A. K. H., Fung, J. C. H., Hoi, K. I., Mok, K. M., Chan, C. K., **Li, Y. J.*** Potential Exposure to Fine Particulate Matter ($PM_{2.5}$) and Black Carbon on Jogging Trails in Macau	Atmos. Environ. **2019**, 198, 23-33 https://doi.org/10.1016/j.atmosenv.2018.10.024
	2018	
#137 *	Kuang, B. Y., Yeung, H. S., Lee, C. C., Griffith, S. G., **Yu, J. Z.*** Aromatic Formulas in Ambient $PM_{2.5}$ Samples from Hong Kong Determined using FT-ICR Ultrahigh Resolution Mass Spectrometry	Anal. Bioanaly. Chem. **2018**, 410, 6289-6304. https://doi.org/10.1007/s00216-018-1239-8
#136 *	Wang, Y. J., **Hu, M.***, Guo, S., Wang, Y. C., Zheng, J., Yang, Y. D., Zhu, W. F., Tang, R. Z., Li, X., Liu, Y., Le Breton, M., Du, Z. F., Shang, D. J., Wu, Y. S., Wu, Z. J., Song, Y., Lou, S. R., Hallquist, M., Yu, J. Z. The Secondary Formation of Organosulfates under the Interactions between Biogenic Emissions and Anthropogenic Pollutants in Summer of Beijing	Atmos. Chem. Phys. **2018**, 18, 10693-10713 https://www.atmos-chem-phys.net/18/10693/2018/
#135 *	Wang, Q. Q., **Qiao, L. P.***, Zhou, M., Zhu, S. H., Griffith, S. M., **Li, L.***, **Yu, J. Z.*** Source Apportionment of $PM_{2.5}$ Using Hourly Measurements of Elemental Tracers and Major Constituents in an Urban Environment: Investigation of Time-Resolution Influence	J. Geophys. Res. Atmospheres **2018,** 123 (10), 5284-5300. https://doi.org/10.1029/2017JD027877
#134 *	**Wu, C.***, **Yu, J. Z.*** Evaluation of Linear Regression Techniques for Atmospheric Applications: The Importance of Appropriate Weighting	Atmos. Meas. Tech. **2018,** 11, 1233-1250. https://doi.org/10.5194/amt-11-1233-2018

Seq#	Authors |Title	Source
#133 *	He, X., Huang, X. H. H., Chow, K. S., Zhang, T., Wu, D., **Yu, J. Z.*** Abundance and Sources of Phthalic Acids, Benzene Tricarboxylic Acids and Phenolic Acids in $PM_{2.5}$ at Urban and Suburban Sites in Southern China.	ACS Earth Space Chem. **2018**, 2, 147-158. http://pubs.acs.org/doi/10.1021/acsearthspacechem.7b00131
#132 *	**Wu, C.***, Wu, D., **Yu, J. Z.*** Quantifying Black Carbon Light Absorption Enhancement with a Novel Statistical Approach	Atmos. Chem. Phys. **2018**, 18, 289-309 https://doi.org/10.5194/acp-18-289-2018
#131	Li, L., An, J., Zhou, M., **Qiao, L.***, Zhu, S., Yan, R., Ooi, C. G., Wang, H., Huang, C., Huang, L., Tao, S., **Yu, J. Z.**, **Chan, A.***, Wang, Y. J, Feng, J. L., Chen, C. H. An Integrated Source Apportionment Methodology and Its Application over the Yangtze River Delta Region, China	Environ. Sci. Technol. **2018**, 52, 14216-14227 https://doi.org/10.1021/acs.est.8b01211
#130	**Le Breton, M.***, Wang, Y., Hallquist, Å. M., Pathak, R. K., Zheng, J., Yang, Y., Shang, D., Glasius, M., Bannan, T. J., Liu, Q., Chan, C. K., Percival, C. J., Zhu, W., Lou, S., Topping, D., Wang, Y., **Yu, J. Z.**, Lu, K., Guo, S., Hu, M., Hallquist, M. Online Gas- and Particle-Phase Measurements of Organosulfates, Organosulfonates and Nitrooxy Organosulfates in Beijing utilizing a FIGAERO ToF-CIMS	Atmos. Chem. Phys. **2018**, 18, 10355-10371. https://www.atmos-chem-phys.net/18/10355/2018/
#129	Zhang, X. X., **Yuan, Z.***, Li, W. S., Lau, A. K. H., **Yu, J. Z.**, Fung, J. C. H., Zheng, J. Y., Yu, A. L. C. Eighteen-Year Trends of Local and Non-local Impacts to Ambient PM_{10} in Hong Kong Based on Chemical Speciation and Source Apportionment	Atmos. Res. **2018,** 214, 1-9 https://doi.org/10.1016/j.atmosres.2018.07.004
#128	Ma, Y., Cheng, Y., **Qiu, X.***, Cao, G., Fang, Y., Wang, J., Zhu, T., **Yu, J. Z.**, **Hu, D.*** Sources and Oxidative Potential of Water-Soluble Humic-Like Substances ($HULIS_{WS}$) in Fine Particulate Matter ($PM_{2.5}$) in Beijing	Atmos. Chem. Phys. **2018**, 18(8), 5607-5617. https://doi.org/10.5194/acp-18-5607-2018
	2017	
#127 *	Wang, Q. Q., He, X., Huang, X. H. H., Griffith, S. M., Feng, Y. M., Zhang, T., Zhang, Q. Y., Wu, D., **Yu, J. Z.*** Impact of Secondary Organic Aerosol Tracers on Tracer-based Source Apportionment of Organic Carbon and $PM_{2.5}$: A Case Study in the Pearl River Delta, China	ACS Earth Space Chem. **2017,** 1, 562-571. http://pubs.acs.org/doi/pdf/10.1021/acsearthspacechem.7b00088
#126 *	Wang, N. J., **Yu, J. Z.*** Size Distributions of Hydrophilic and Hydrophobic Fractions of Water-Soluble Organic Carbon in an Urban Atmosphere in Hong Kong	Atmos. Environ. **2017**, 166, 110-119 https://doi.org/10.1016/j.atmosenv.2017.07.009
#125 *	Wang, Y. C., Ren, J. Y, Huang, X. H. H., **Tong, R. B.***, **Yu, J. Z.*** Synthesis of Four Monoterpene-derived Organosulfates and their Quantification in Atmospheric Aerosol Samples	Environ. Sci. Technol. 2017, 51 (12), 6791–6801 https://doi.org/10.1021/acs.est.7b01179
#124 *	Li, Y. G., Huang, X. H. H., Griffith, S. M., Wu, C., Lau, A. K. H., **Yu, J. Z.*** Quantifying the Relationship between Visibility Degradation and $PM_{2.5}$ Constituents at a Suburban Site in Hong Kong: Differentiating Contributions from Hydrophilic and Hydrophobic Organic Compounds	Sci. Tot. Environ. **2017,** 575, 1571-1581. http://dx.doi.org/10.1016/j.scitotenv.2016.10.082
#123	**Nie, W.***, Hong, J., Häme, S. A. K., **Ding, A.***, Li, Y., Yan, C., Hao, L., Mikkilä, J., Zheng, L., Xie, Y., Zhu, C., Xu, Z., Chi, X., Huang, X., Zhou, Y., Lin, P., Virtanen, A., Worsnop, D. R., Kulmala, M., Ehn, M., **Yu, J. Z.**, Kerminen, V.-M., Petäjä, T. Volatility of Mixed Atmospheric Humic-Like Substances and Ammonium Sulfate Particles	Atmos. Chem. Phys. **2017**, 17, 3659-3672. http://www.atmos-chem-phys.net/17/3659/2017

Seq#	Authors |Title	Source
	2016	
#122 *	Wang, Q. Q., Feng, Y. M., Huang, X. H. H., Griffith, S. M., Zhang, T., Zhang, Q. Y., Wu, D., **Yu, J. Z.*** Nonpolar Organic Compounds as $PM_{2.5}$ Source Tracers: Investigation of Their Sources and Degradation in the Pearl River Delta, China	J. Geophys. Res. Atmospheres **2016**, 121, 11,862 -11,879, https://doi.org/10.1002/2016JD025315
#121 *	Jiang, B., Kuang, B. Y., **Liang, Y. M.***, Zhang, J. Y., Huang, X. H. H., Xu, C. M., **Yu, J. Z.***, **Shi, Q.*** Molecular Composition of Urban Organic Aerosols on Clear and Hazy days in Beijing: A Comparative Study using FT-ICR MS	Environ. Chem. **2016**. 13, 888-901 https://www.publish.csiro.au/EN/EN15230
#120 *	Zhou, Y., Huang, X. H. H., Griffith, S. M., **Li, M.***, Li, L., Zhou, Z., Wu, C., Meng, J., Chan, C. K., Louie, P. K. K., **Yu, J. Z.*** A Field Measurement Based Scaling Approach for Quantification of Major Ions, Organic Carbon, and Elemental Carbon Using a Single Particle Aerosol Mass Spectrometer	Atmos. Environ. **2016**, 143, 300-312 http://dx.doi.org/10.1016/j.atmosenv.2016.08.054
#119 *	Wu, C., Huang, X. H. H., Ng, W. M., Griffith, S. M., **Yu, J. Z.*** Inter-Comparison of NIOSH and IMPROVE Protocols for OC and EC Determination: Implications for Inter-Protocol Data Conversion	Atmos. Meas. Tech. **2016,** 9, 4547-4560 http://www.atmos-meas-tech.net/9/4547/2016
#118 *	Xue, J., Yuan, Z., Griffith, S. M., Yu, X., Lau, A. K. H., **Yu, J. Z.*** Sulfate Formation Enhanced by a Cocktail of High NO_x, SO_2, Particulate Matter, and Droplet pH during Haze-Fog Events in Megacities in China: An Observation-Based Modeling Investigation	Environ. Sci. Technol. **2016**, 50, 7325-7334 http://pubs.acs.org/doi/abs/10.1021/acs.est.6b00768
#117 *	Chow, K. S., **Huang, X. H. H.***, **Yu, J. Z.*** Quantification of Nitroaromatic Compounds in Atmospheric Fine Particulate Matter in Hong Kong over Three Years: Field Measurement Evidence for Secondary Formation derived from Biomass Burning Emissions	Environ. Chem. **2016**, 13, 665-673 https://doi.org/10.1071/EN15174
#116 *	Wu, C. and **J. Z. Yu*** Determination of Primary Combustion Source Organic Carbon-to-Elemental Carbon (OC/EC) Ratio using Ambient OC and EC Measurements: Secondary OC-EC Correlation Minimization Method	Atmos. Chem. Phys. **2016**, doi:10.5194/acp-2015-997 https://doi.org/10.5194/acp-16-5453-2016
#115 *	Kuang, B. Y., Lin, P., **Hu, M.***, **Yu, J. Z.*** Aerosol Size Distribution Characteristics of Organosulfates in the Pearl River Delta Region, China	Atmos. Environ. **2016**, 130, 23-35 http://dx.doi.org/10.1016/j.atmosenv.2015.09.024
#114	Zhao, M. F., Qiao, T., Li, Y. L., Tang, X. X., **Xiu, G. L.***, **Yu, J. Z.** Temporal Variations and Source Apportionment of Hulis-C in $PM_{2.5}$ in Urban Shanghai	Sci. Tot. Environ. **2016**, 571, 18-26 https://doi.org/10.1016/j.scitotenv.2016.07.127
#113	Cheung, H. H. Y., Tan, H., Xu, H., Li, F., Wu, C., **Yu, J. Z.**, **Chan, C. K.*** Measurements of Non-Volatile Aerosols with a VTDMA and Their Correlations with Carbonaceous Aerosols in Guangzhou, China	Atmos. Chem. Phys. **2016**, 16, 8431-8446 https://doi.org/10.5194/acp-16-8431-2016
#112	Liu, T., **Wang, X.***, Hu, Q., Deng, W., Zhang, Y., Ding, X., Fu, X., Bernard, F., Zhang, Z., Lv, S., He, Q., Bi, X., Chen, J., Sun, Y., **Yu, J. Z.**, Peng, P., Sheng, G., Fu, J. Formation of Secondary Aerosols from Gasoline Vehicle Exhaust when Mixing with SO_2	Atmos. Chem. Phys. **2016**, 16, 675-689 https://doi.org/10.5194/acp-16-675-2016

Seq#	Authors |Title	Source
	2015	
#111 *	Griffith, S. M., Huang, X. H. H., Louie, P. K. K., **Yu, J. Z.*** Characterizing the Thermodynamic and Chemical Composition Factors Controlling $PM_{2.5}$ Nitrate: Insights Gained from Two Years of Online Measurements in Hong Kong	Atmos. Environ. **2015**, 122, 864-875 http://dx.doi.org/10.1016/j.atmosenv.2015.02.009
#110 *	Wang, Q. Q., Huang, X. H. H., Zhang, T., Zhang, Q., Feng, Y., Yuan, Z., Wu, D., Lau, A. K. H., **Yu, J. Z.*** Organic Tracer-based Source Analysis of $PM_{2.5}$ Organic and Elemental Carbon: A Case Study at Dongguan in the Pearl River Delta, China	Atmos. Environ. **2015**, 118, 164-175 https://doi.org/10.1016/j.atmosenv.2015.07.033
#109 *	Dou, J., Lin, P., Kuang, B. Y., **Yu, J. Z.*** Reactive Oxygen Species Production Mediated by Humic-like Substances in Atmospheric Aerosols: Enhancement Effects by Pyridine, Imidazole and Their Derivatives	Environ. Sci. Technol. **2015**, 49, 6457-6456 https://doi.org/10.1021/es5059378
#108 *	Zhou, Y., Huang, X. H. H., Bian, Q. J., Griffith, S. M., Louie, P. K. K., **Yu, J. Z.*** Sources and Atmospheric Processes Impacting Oxalate at a Suburban Coastal Site in Hong Kong: Insights Inferred from One-Year Hourly Measurements	J. Geophys. Res. Atmosphere **2015**, 120, 9772-9788 https://doi.org/10.1002/2015JD023531
#107 *	Kuang, B. Y., Lin, P., Huang, X. H. H., **Yu, J. Z.*** Sources of Humic-Like Substances in the Pearl River Delta, China: Positive Matrix Factorization Analysis of $PM_{2.5}$ Major Components and Source Markers	Atmos. Chem. Phys. **2015**, 15, 1995-2008 https://doi.org/10.5194/acp-15-1995-2015
#106	Qiao, T., Zhao, M. F., **Xiu, G. L.***, **Yu, J. Z**. Seasonal Variations of Water Soluble Composition (WSOC, Hulis and WSIIs) in PM_1 and Its Implications on Haze Pollution in Urban Shanghai, China	Atmos. Environ. **2015**, 123, 306-314 https://doi.org/10.1016/j.atmosenv.2015.03.010
#105	Liu, T., **Wang, X.***, Deng, W., Hu, Q., Ding, X., Zhang, Y., He, Q., Zhang, Z., Lv, S., Bi, X., Chen, J., **Yu, J. Z.** Secondary Organic Aerosol Formation from Photochemical Aging of Light-Duty Gasoline Vehicle Exhausts in a Smog Chamber	Atmos. Chem. Phys. **2015**, 15, 9049-9062 https://doi.org/10.5194/acp-15-9049-2015
#104	Lee, B. P., Li, Y. J., **Yu, J. Z.**, Louie, P. K. K., **Chan, C. K.*** Characteristics of Submicron Particulate Matter at the Urban Roadside in Downtown Hong Kong: Overview of 4 Months of Continuous High-Resolution Aerosol Mass Spectrometer Measurements	J. Geophys. Res. Atmospheres **2015**, 120, 7040-7058 https://doi.org/10.1002/2015JD023311
#103	Zhao, M. F., Huang, Z. S., Qiao, T., Zhang, Y. K., **Xiu, G. L.***, **Yu, J. Z.** Chemical Characterization, the Transport Pathways and Potential Sources of $PM_{2.5}$ in Shanghai: Seasonal Variations	Atmos. Res. **2015**, 158, 66-78 https://doi.org/10.1016/j.atmosres.2015.02.003
	2014	
#102 *	Xue, J., Griffith, S. M., Yu, X., Lau, A. K. H., **Yu, J. Z.*** Effect of Nitrate and Sulfate Relative Abundance in $PM_{2.5}$ on Liquid Water Content Explored Through Half-Hourly Observations of Inorganic Soluble Aerosols at a Polluted Receptor Site	Atmos. Environ. **2014**, 99, 24-31 https://doi.org/10.1016/j.atmosenv.2014.09.049
#101 *	Huang, X. H. H., Bian, Q. J., Louie, P. K. K., **Yu, J. Z.*** Contributions of Vehicular Carbonaceous Aerosols to $PM_{2.5}$ in a Roadside Environment in Hong Kong	Atmos. Chem. Phys. **2014**, 14, 9279-9293 https://doi.org/10.5194/acp-14-9279-2014

Seq#	Authors |Title	Source
#100 *	Bian, Q. J., Huang, X. H. H., **Yu, J. Z.*** One-year Observations of Size Distribution Characteristics of Major Aerosol Constituents at a Coastal Receptor Site in Hong Kong: I. Inorganic Ions and Oxalate	Atmos. Chem. Phys. **2014**, 14, 9013-9027 https://doi.org/10.5194/acp-14-9013-2014
#99 *	Xue, J., Yuan, Z., Lau, A. K. H., **Yu, J. Z.*** Insights into Factors Affecting Nitrate in $PM_{2.5}$ in a Polluted High NO_x Environment through Hourly Observations and Size Distribution Measurements	J. Geophys. Res. Atmospheres **2014**, 119 https://doi.org/10.1002/2013JD021108
#98 *	Huang, X. H. H., Bian, Q. J., Ng, W. M., Louie, P. K. K., **Yu, J. Z.*** Characterization of $PM_{2.5}$ Major Components and Source Investigation in Suburban Hong Kong: a One-Year Monitoring Study	Aerosol Air Qual. Res. **2014**, 14, 237-250 https://doi.org/10.4209/aaqr.2013.01.0020
#97	Xue, J., **Yuan, Z.***, **Yu, J. Z.**, Lau, A.K.H. An Observation-Based Model for Secondary Inorganic Aerosols	Aerosol Air Qual. Res. **2014**, 862-878 https://doi.org/10.4209/aaqr.2013.06.0188
#96	He, Q. F., **Ding, X.***, Wang, X. M., **Yu, J. Z.**, Fu, X. X., Liu, T. Y., Zhang, Z., Xue, J., Chen, D. H., Zhong, L. J., Donahue, N. M. Organosulfates from Pinene and Isoprene over the Pearl River Delta, South China-Seasonal Variation and Implication in Formation Mechanisms	Environ. Sci. Technol. **2014**, 48, 9236-9245 https://doi.org/10.1021/es501299v
#95	Yao, T., **Fung, J. C. H.***, Ma, H., Lau, A. K. H., Chan, P. W., **Yu, J. Z.**, Xue, J. Enhancement in Secondary Particulate Matter Production due to Mountain Trapping	Atmos. Res. **2014**. 147, 227-236 https://doi.org/10.1016/j.atmosres.2014.05.007
#94	**Wang, X.***, Liu, T., Bernard, F., Ding, X., Wen, S., Zhang, Y., Zhang, Z., He, Q., Lv, S., Chen, J., Saunders, J., **Yu, J. Z.** Design and Characterization of a Smog Chamber for Studying Gas-Phase Chemical Mechanisms and Aerosol Formation	Atmos. Meas. Tech. **2014**, 7, 301-313 https://doi.org/10.5194/amt-7-301-2014
#93	Guo, C., **Liu, H.***, **Yu, J. Z.**, Zhang, S., Wu, C. J. Role of Microzooplankton Grazing in Regulating Phytoplankton Biomass and Community Structure in Response to Atmospheric Aerosol Input	Mar Ecol Prog Ser. **2014**, 507, 69-79 https://doi.org/10.3354/meps10809
	2013	
#92 *	**Wu, D.***, Wu, C., Liao, B., Chen, H., Wu, M., Li, F., Tan, H., Deng, T., Li, H., Jiang, D., **Yu, J. Z.*** Black Carbon over the South China Sea and in Various Continental Locations in South China	Atmos. Chem. Phys. **2013**, 13, 12257-12270 https://doi.org/10.5194/acp-13-12257-2013
#91 *	Wang, S., Wu, D., Wang, X., Fung, J. C. H., **Yu, J. Z.*** Relative Contributions of SOA Formation from Toluene, Xylenes, Isoprene and Monoterpenes in Hong Kong and Guangzhou in the Pearl River Delta, China: An Emission-Based Box Modeling Study	J. Geophys. Res. Atmospheres **2013**, 118, 507-519 https://doi.org/10.1029/2012JD017985
#90	**Li, Y. C.***, **Yu, J. Z.**, Ho, S. S. H., Schauer, J. J., Yuan, Z. B., Lau, A. K. H., Louie, P. K. K. Chemical Characteristics and Source Apportionment of Fine Particulate Organic Carbon in Hong Kong during High Particulate Matter Episodes in Winter 2003	Atmos. Res. **2013**, 120-121, 88-98 https://doi.org/10.1016/j.atmosres.2012.08.005

Seq#	Authors |Title	Source
#89	**Hu, D.***, **Yu, J. Z.** Secondary Organic Aerosol Tracers and Malic acid in Hong Kong: Seasonal Trends and Origins	Environ. Chem. **2013**, 10, 381-194 https://doi.org/10.1071/EN13104
#88	Lee, B. P., Li, Y. J., Yu, J. Z., Louie, P. K. K., **Chan, C. K.*** Physical and Chemical Characterization of Ambient Aerosol by HR-ToF-AMS at a Suburban Site in Hong Kong during Springtime 2011	J. Geophys. Res. Atmospheres **2013**, 118, 8625-8639 https://doi.org/10.1002/jgrd.50658
#87	Li, Y. J., Lee, B. Y. L., **Yu, J. Z.**, Ng, N. L., **Chan, C. K.*** Evaluating the Degree of Oxygenation Organic Aerosol during Foggy and Hazy Days in Hong Kong using High-Resolution Time-of-Flight Aerosol Mass Spectrometry (HR-ToF-AMS)	Atmos. Chem. Phys. **2013**, 13, 8739-8753 https://doi.org/10.5194/acp-13-8739-2013
#86	**Deng, X. J.***, Wu, D., **Yu, J. Z.**, Lau, A. K. H., Li, F., Tan, H., Yuan, Z., Ng, W. M., Deng, T., Wu, C., Zhou, X. Characterization of Secondary Aerosol and Its Extinction Effects on Visibility over the Pearl River Delta, China	J. Air Waste Manag. Assoc. **2013**, 63, 1012-1021 https://doi.org/10.1080/10962247.2013.782927
#85	Zhang, Y., **Wang, X.***, Zhang, Z., Lv, S., Shao, M., Lee, F. S. C., **Yu, J. Z.** Species Profiles and Normalized Reactivity of Volatile Organic Compounds from Gasoline Evaporation in China	Atmos. Environ. **2013**, 79, 110-118 https://doi.org/10.1016/j.atmosenv.2013.06.029
#84	Yuan, Z., Zhong, L.J., **Lau, A. K. H.***, **Yu, J. Z.**, Louie, P. K. K. Volatile Organic Compounds in the Pearl River Delta: Identification of Source Regions and Recommendations for Emission-Oriented Monitoring Strategies	Atmos. Environ. **2013**, 76, 162-172 https://doi.org/10.1016/j.atmosenv.2012.11.034
#83	**Louie, P. K. K.***, Ho, J. W. K., Tsang, R. C. W., Blake, D. R., Lau, A. K. H., **Yu, J. Z.**, Yuan, Z., Wang, X., Shao, M., Zhong, L. VOCs and OVOCs Distribution and Control Policy Implications in Pearl River Delta Region, China	Atmos. Environ. **2013,** 76, 125-135 https://doi.org/10.1016/j.atmosenv.2012.08.058
#82	**Sarwar, G.***, Fahey, K., Kwok, R., Gilliam, R. C., Roselle, S. J., Mathur, R., Xue, J., **Yu, J. Z.**, Carter, W. P. L. Potential Impacts of Two SO_2 Oxidation Pathways on Regional Sulfate Concentrations: Aqueous-Phase Oxidation by NO_2 and Gas-Phase Oxidation by Stabilized Criegee Intermediates	Atmos. Environ. **2013**, 68, 186-197 https://doi.org/10.1016/j.atmosenv.2012.11.036
	2012	
#81 *	Lin, P., **Yu, J. Z.***, Engling, G., **Kalberer, M.*** Organosulfates in Humic-Like Substance Fraction Isolated from Aerosols at Seven Locations in East Asia: A study by Ultrahigh Resolution Mass Spectrometry	Environ. Sci. Technol. **2012**, 46, 13118-13127 https://doi.org/10.1021/es303570v
#80 *	Lin, P., Rincon, A. G., **Kalberer, M.***, **Yu, J. Z.*** Elemental Composition of HULIS in the Pearl River Delta Region, China: Results Inferred from Positive and Negative Electrospray High Resolution Mass Spectrometric Data	Environ. Sci. Technol. **2012**, 46, 7454-7462 https://doi.org/10.1021/es300285d
#79 *	Li, Y. C., **Yu, J. Z.***, Ho, S. S. H., Yuan, Z., Lau, A. K. H., Huang, X. F. Chemical Characteristics of $PM_{2.5}$ and Organic Aerosol Source Analysis during Cold Front Episodes in Hong Kong, China	Atmos. Res. **2012**, 118, 41-51 https://doi.org/10.1016/j.atmosres.2012.05.026

Seq#	Authors |Title	Source
#78	**Yu, H.***, **Yu, J. Z.**	Atmos. Environ.
	Polycyclic Aromatic Hydrocarbons in Urban Atmosphere of Guangzhou, China: Size Distribution Characteristics and Size-resolved Gas-particle Partitioning	**2012**, 54, 194-200 https://doi.org/10.1016/j.atmosenv.2012.02.033
#77	Wu, C., Ng, W. M., Huang, J., Wu, D., **Yu, J. Z.***	Aerosol Sci. Technol.
*	Determination of Elemental and Organic Carbon in $PM_{2.5}$ in the Pearl River Delta Region: Inter-Instrument (Sunset vs. DRI Model 2001 Thermal/Optical Carbon Analyzer) and Inter-Protocol Comparisons (IMPROVE vs. ACE-Asia Protocol)	**2012**, 46, 610-621 https://doi.org/10.1080/02786826.2011.649313
#76	Zhang, H., Li, J., **Ying, Q.***, **Yu, J. Z.**, Cheng, Y., He, D., Jiang, J.	Atmos. Environ.
	Source Apportionment of $PM_{2.5}$ Nitrite and Sulfate in China using a Source-Oriented Chemical Transport Model	**2012**, 62, 228-242 https://doi.org/10.1016/j.atmosenv.2012.08.014
#75	Ding, X., **Wang, X.***, Gao, Bo, Fu, X., He, Q., Zhao, X., **Yu, J. Z.**, Zheng, M.	J. Geophys. Res. Atmospheres
	Tracer Based Estimation of Secondary Organic Carbon in the Pearl River Delta, South China	**2012**, D05313 https://doi.org/10.1029/2011JD016596
#74	Guo, C., **Yu, J. Z.**, Ho, T. Y., Wang, L., Song, S., Kong, L., **Liu, H.***	Biogeoscience
	Dynamics of Phytoplankton Community Structure in the South China Sea in Response to the East Asian Aerosol Input	**2012**, 9, 1519-1536 https://doi.org/10.5194/bg-9-1519-2012
#73	**Ho, S. S. H.***, Ho, K. F., Lee, S. C., Cheng, Y., **Yu, J. Z.**, Lam, K. M., Feng, N. S. Y., Huang, Y.	J. Air Waste Manag. Assoc.
	Carbonyl Emissions from Vehicular Exhausts Sources in Hong Kong	**2012**, 62, 221-234 https://doi.org/10.1080/10473289.2011.642952
	2011	
#72	Lin, P., **Yu, J. Z.***	Environ. Sci. Technol.
*	Generation of Reactive Oxygen Species Mediated by Humic-like Substances in Atmospheric Aerosols	**2011**, 45, 10362-10368 https://doi.org/10.1021/es2028229
#71	**Yu, J. Z.***, Huang, X. H. H., Ho, S. S. H., Bian, Q.	Anal. Bioanal. Chem.
*	Nonpolar Organic Compounds in Fine Particles: Quantification by Thermal Desorption-GC/MS and Evidence for Their Significant Oxidation in Ambient Aerosols in Hong Kong	**2011**, 401, 3125-3139 https://doi.org/10.1007/s00216-011-5458-5
#70	Xue, J., Lau, A. K. H., **Yu, J. Z.***	Atmos. Environ.
*	A Study of Acidity on $PM_{2.5}$ in Hong Kong using Online Ionic Chemical Composition Measurements	**2011**, 45, 7081-7088 https://doi.org/10.1016/j.atmosenv.2011.09.040
#69	Huang, X. H. H., Ip, H. S. S., **Yu, J. Z.***	J. Geophys. Res. Atmospheres
*	Secondary Organic Aerosol Formation from Ethylene in the Urban Atmosphere of Hong Kong: A Multiphase Chemical Modeling Study	**2011**, 116, D03206 https://doi.org/10.1029/2010JD014121
#68	Yu, H., **Yu, J. Z.***	Aerosol Sci. Technol.
*	Size Distribution of Polycyclic Aromatic Hydrocarbons at two receptor Sites in the Pearl River Delta Region, China: Implications of a Dominant Droplet Mode	**2011**, 45, 101-112 https://doi.org/10.1080/02786826.2010.524680

Seq#	Authors |Title	Source
#67	Gao, B., Yu, J. Z., Li, S. X., Ding, X., He, Q., **Wang, X.*** Roadside and Rooftop Measurements of Polycyclic Aromatic Hydrocarbons in $PM_{2.5}$ in Urban Guangzhou: Evaluation of Vehicular and Regional Combustion Source Contributions	Atmos. Environ. **2011,** 45, 7184-7191 https://doi.org/10.1016/j.atmosenv.2011.09.005
#66	Huang, Y., Ho, K. F., Ho, S. S. H., **Lee, S. C.***, **Yu, J. Z.**, Louie, P. K. K. Characteristics and Health Impacts of VOCs and Carbonyls Associated with Residential Cooking Activities in Hong Kong	J. Hazard. Mater. **2011**, 186 (1), 344-351 https://doi.org/10.1016/j.jhazmat.2010.11.003
#65	Luo, J., **Wang, X.***, Yang, H., **Yu, J. Z.**, Yang, L., Qin, B. Atmospheric Phosphorus in the Northern Part of Lake Taihu, China	Chemosphere **2011**, 84, 785-791 https://doi.org/10.1016/j.chemosphere.2011.01.043
	2010	
#64 *	Hu, D., Bian, Q., Lau, A. K. H., **Yu, J. Z.*** Source Apportioning of Primary and Secondary Organic Carbon in Summer $PM_{2.5}$ in Hong Kong using Positive Matrix Factorization of Secondary and Primary Organic Tracer Data	J. Geophys. Res. Atmospheres **2010**, 115, D16204 https://doi.org/10.1029/2009JD012498
#63 *	Li, Y. C., **Yu, J. Z.*** Composition Profile of Oxygenated Organic Compounds and Inorganic Ions in $PM_{2.5}$ in Hong Kong	Environ. Chem. **2010**, 7 (4), 338-349 https://www.publish.csiro.au/en/en09167
#62 *	Lin, P., Engling, G., **Yu, J. Z.*** Humic-Like Substances in Fresh Emissions of Rice Straw Burning and in Ambient Aerosols in the Pearl River Delta Region, China	Atmos. Chem. Phys. **2010**, 10, 6487-6500 https://doi.org/10.5194/acp-10-6487-2010
#61 *	Yu, H., Wu, C., Wu, D., **Yu, J. Z.*** Size Distributions of Elemental Carbon and Its Contribution to Light Extinction in Urban and Rural Locations in the Pearl River Delta Region, China	Atmos. Chem. Phys. **2010**, 10, 5107-5119 https://doi.org/10.5194/acp-10-5107-2010
#60 *	Lin, P., Huang, X. F., He, L. Y., **Yu, J. Z.*** Abundance and Size Distribution of HULIS in Ambient Aerosols at a Rural Site in South China	J. Aerosol Sci. **2010**, 41, 74-87 https://doi.org/10.1016/j.jaerosci.2009.09.001
#59	Lau, A. K. H., **Yuan, Z.***, **Yu, J. Z.**, Louie, P. K. K. Source Apportionment of Ambient Volatile Organic Compounds in Hong Kong	Sci. Tot. Environ. **2010**, 408, 4138-4149 https://doi.org/10.1016/j.scitotenv.2010.05.025
	2009	
#58 *	Yu, H., **Yu, J. Z.*** Modal Characteristics of Elemental and Organic Carbon in an Urban Location in Guangzhou, China	Aerosol Sci. Technol. **2009**, 43 (11), 1108-1118 https://doi.org/10.1080/02786820903196878
#57 *	Huang, X. F., **Yu, J. Z.***, Yuan, Z., Lau, A. K. H., Louie, P. K. K. Source Analysis of High Particulate Matter Days in Hong Kong	Atmos. Environ. **2009**, 43, 1196-1203 https://doi.org/10.1016/j.atmosenv.2008.10.013

Seq#	Authors |Title	Source
#56	Ip, H. S. S., Huang, X. H. H., **Yu, J. Z.***	Geophys. Res. Lett.
*	Effective Henry's law Constants of Glyoxal, Glyoxylic Acid, and Glycolic Acid	**2009**, 36, L01802 https://doi.org/10.1029/2008GL036212
#55	**Li, J.***, Feng, Y. L., Xie, C. J., Huang, J., **Yu, J. Z.**, Feng, J. L., Sheng, G. Y., Fu, J. M., Wu, M. H. Determination of Gaseous Carbonyl Compounds by Their Pentafluorophenyl Hydrazones with Gas Chromatography/Mass Spectrometry	Anal. Chim Acta **2009**, 635, 84-93 https://doi.org/10.1016/j.aca.2008.12.041
	2008	
#54	Hu, D., Bian, Q. J., Li, T. W. Y., Lau, A. K. H., **Yu, J. Z.***	J. Geophys. Res. Atmospheres
*	Contributions of Isoprene, Monoterpenes, β-Caryophyllene, and Toluene to Secondary Organic Aerosols in Hong Kong during the Summer of 2006	**2008**, 113, D22206 https://doi.org/10.1029/2008JD010437
#53	Huang, X. F., **Yu, J. Z.***	Atmos. Chem. Phys.
*	Size Distributions of Elemental Carbon in the Atmosphere of a Coastal Urban Area in South China: Characteristics, Evolution Processes, and Implications for the Mixing State	**2008**, 8, 5843-5853 https://doi.org/10.5194/acp-8-5843-2008
#52	Ho, S. H. H., **Yu, J. Z.**, **Chow, J. C.***, Zielinska, B., Watson, J. G., Sit, E. H. L., Schauer, J. J. Evaluation of an In-Injection Port Thermal Desorption-Gas Chromatography/Mass Spectrometry Method for Analysis of Non-Polar Organic Compounds in Ambient Aerosol Samples	J. Chromatogra. A **2008**, 1200 (2), 217-227 https://doi.org/10.1016/j.chroma.2008.05.056
#51	**Andreae, M. O.***, Schmid, O., Yang, H., Chand, D., **Yu, J. Z.**, Zeng, L. M., Zhang, Y. H. Optical Properties and Chemical Composition of the Atmospheric Aerosol in Urban Guangzhou, China	Atmos. Environ. **2008**, 42, 6335-6350 https://doi.org/10.1016/j.atmosenv.2008.01.030
	2007	
#50	Chen, X., **Yu, J. Z.***	Atmos. Environ.
*	Measurement of Organic Mass to Organic Carbon Ratio in Ambient Aerosol Samples using a Gravimetric Technique in Combination with Chemical Analysis	**2007**, 41, 8857-8864 https://doi.org/10.1016/j.atmosenv.2007.08.023
#49	Huang, X. H. H., Ip, H. S. S., **Yu, J. Z.***	Anal. Chim. Acta
*	Determination of Trace Amounts of Formaldehyde in Acetone Solvents	**2007**, 604 (2), 134-138 https://doi.org/10.1016/j.aca.2007.10.011
#48	Wan, E. C. H., **Yu, J. Z.***	Environ. Sci. Technol.
*	Analysis of Sugars and Sugar Polyols in Atmospheric Aerosols by Chloride Attachment in Liquid Chromatography/Negative Ion Electrospray Mass Spectrometry	**2007**, 41 (7), 2459-2466 https://doi.org/10.1021/es062390g
#47	Huang, X.-F., **Yu, J. Z.***	Geophys. Res. Lett.
*	Is Vehicle Exhaust a Significant Primary Source of Oxalic Acid in Ambient Aerosols?	**2007**, 34, L02808 https://doi.org/10.1029/2006GL028457
#46	Chen, Y., Ho, K. F., Ho, S. H. H., Ho, W. K., **Lee, S. C.***, **Yu, J. Z.**, Sit, E. H. L. Gaseous and Particulate Polycyclic Aromatic Hydrocarbons (PAHs) Emissions from Commercial Restaurants in Hong Kong	J. Environ. Monit. **2007**, 9, 1402-1409 https://doi.org/10.1039/B710259C

Seq#	Authors |Title	Source
#45	**Chow, J. C.***, **Yu, J. Z.**, J. G. Watson, Ho, S. H. H., Bohannan, T. L., Hays, M. D., Fung, K. K. The Application of Thermal Methods for Determining Chemical Composition of Carbonaceous Aerosols: A Review	J. Environ. Sci. Health, Part A **2007**, 42 (11), 1521-1541 https://doi.org/10.1080/10934520701513365
#44	**Hagler, G. S. W.***, Bergin, M. H., Salmon, L. G., **Yu, J. Z.**, Wang, E. C. H., Zheng, M., Zeng, L. M., Kiang, C. S., Zhang, Y. H., Schauer, J. J. Local and Regional Anthropogenic Influence on $PM_{2.5}$ Elements in Hong Kong	Atmos. Environ. **2007**, 41, 5994-6004 https://doi.org/10.1016/j.atmosenv.2007.03.012
#43	Ho, K. F., Ho, S. H. H., Cheng, Y., **Lee, S. C.***, **Yu, J. Z.** Real-world Emission Factors of Fifteen Carbonyl Compounds Measured in a Hong Kong Tunnel	Atmos. Environ. **2007**, 41 (8), 1747-1758 https://doi.org/10.1016/j.atmosenv.2006.10.027
#42	**Lau, A. K. H.***, Wong, T. W., **Yu, J. Z.**, Yu, T. S., Louie, P. K. K. Toxic Air Pollutant Monitoring in Hong Kong: Environmental and Health Implications	In Air Pollution: New Research. Ed. Livingstone J. V. Nova Science Publishers, New York **2007**, pp 1-78.
	2006	
#41 *	Huang, X. F., **Yu, J. Z.***, He, L. Y., Yuan, Z. Water-Soluble Organic Carbon and Oxalate in Aerosols at a Coastal Urban Site in China: Size Distribution Characteristics, Sources, and Formation Mechanisms	J. Geophys. Res. Atmospheres **2006**, 111, D22212 https://doi.org/10.1029/2006JD007408
#40 *	Huang, X. F., **Yu, J. Z.***, He, L. Y., Hu, M. Size Distribution Characteristics of Elemental Carbon Emitted from Chinese Vehicles: Results of a Tunnel Study and Atmospheric Implications	Environ. Sci. Technol. **2006**, 40, 5355-5360 https://doi.org/10.1021/es0607281
#39 *	Ho, S. S. H., **Yu, J. Z.***, Chu, K. W., Yeung, L. L. Carbonyl Emissions from Commercial Cooking Sources in Hong Kong	J. Air Waste Manag. Assoc. **2006**, 56, 1091-1098 https://doi.org/10.1080/10473289.2006.10464532
#38 *	Wan, E. C. H., **Yu, J. Z.*** Determination of Sugar Compounds in Atmospheric Aerosols by Liquid Chromatography Combined with Positive Electrospray Ionization Mass Spectrometry	J. Chromatogr. A **2006**, 1107, 175-181 https://doi.org/10.1016/j.chroma.2005.12.062
#37 *	Yuan, Z. B., **Yu, J. Z.***, Lau, A. K. H., Louie, P. K. K., Fung, J. C. H. Application of Positive Matrix Factorization in Estimating Aerosol Secondary Organic Carbon in Hong Kong and Its Relationship with Secondary Sulfate	Atmos. Chem. Phys. **2006**, 6, 25-34 https://doi.org/10.5194/acp-6-25-2006
#36	Yuan, Z., **Lau, A. K. H.***, Zhang, H., **Yu, J. Z.**, Louie, P. K. K., Fung, J. C. H. Identification and Spatiotemporal Variations of Dominant PM_{10} Sources over Hong Kong	Atmos. Environ. **2006**, 40, 1803-1815 https://doi.org/10.1016/j.atmosenv.2005.11.030
#35	**Hagler, G. S. W.***, Bergin, M. H., Salmon, L. G., **Yu, J. Z.**, Wan, E. C. H., Zheng, M., Zeng, L. M., Kiang, C. S., Zhang, Y. H., Lau, A. K. H., Schauer, J. J. Source Areas and Chemical Composition of Fine Particulate Matter in the Pearl River Delta Region of China	Atmos. Environ. **2006**, 40, 3802-3815 https://doi.org/10.1016/j.atmosenv.2006.02.032

Seq#	Authors |Title	Source
#34	**Zheng, M.***, Hagler, G. S. W., Ke, L., Bergin, M. H., Wang, F., Louie, P. K. K., Salmon, L., Sin, D. W. M., **Yu, J. Z.**, Schauer, J. J. Composition and Sources of Carbonaceous Aerosols at Three Contrasting Sites in Hong Kong	J. Geophys. Res. Atmospheres **2006,** 111, D20313 https://doi.org/10.1029/2006JD007074
	2005	
#33 *	Li, Y. C., **Yu, J. Z.*** Simultaneous Determination of Mono- and Dicarboxylic Acids, ω-Oxo-carboxylic Acids, Midchain Ketocarboxylic acids, and Aldehydes in Atmospheric Aerosol Samples	Environ. Sci. Technol. **2005**, 39, 7616-7624 https://doi.org/10.1021/es050896d
#32 *	Yang, H., **Yu, J. Z.***, Ho, S. S. H., Xu, J., Wu, W. S., Wan, E. C. H., Wang, X., Wang, X., Wang, L. The Chemical Composition of Inorganic and Carbonaceous Materials in $PM_{2.5}$ in Nanjing, China	Atmos. Environ. **2005**, 39, 3735-3749 https://doi.org/10.1016/j.atmosenv.2005.03.010
#31 *	Tung, J. W. T., **Yu, J. Z.***, Lau, A. K. H., Louie, P. K. K. Abundance and Sources of Ambient Dioxins in Hong Kong: A Review of Dioxin Measurements from 1997 to 2001	Chemosphere **2005**, 59, 1387-1398 https://doi.org/10.1016/j.chemosphere.2004.12.030
#30 *	**Yu, J. Z.***, Huang, X. F., Xu, J., Hu, M. When Sulfate Goes Up, So does Oxalate: Implication for the Formation Mechanisms of Oxalate	Environ. Sci. Technol. **2005**, 39, 128-133 https://doi.org/10.1021/es049559f
#29 *	Ho, S. S. H., **Yu, J. Z.*** In-Injection Port Thermal Desorption with Subsequent Gas Chromatography-Mass Sepectrometric Analysis of Polycyclic Aromatic Hydrocarbons and n-Alkanes in Atmospheric Aerosol Samples	J. Chromatogr. A **2004**, 1059, 121-129 https://doi.org/10.1016/j.chroma.2004.10.013
#28	**Chow, J. C.***, Watson, J. G., Chen, L. W. A., Paredes-Miranda, G., Chang, M. C. O., Trimble, D., Fung, K. K., Zhang, H., **Yu, J. Z.** Refining Temperature Measures in Thermal/Optical Carbon Analysis	Atmos. Chem. Phys. **2005**, 5, 2961-2972 https://doi.org/10.5194/acp-5-2961-2005
	2004	
#27 *	Yang, H., Xu, J., Wu, W. S., Wan, E. C. H., **Yu, J. Z.*** Chemical Characterization of Water-Soluble Organic Aerosol Collected at Jeju, Korea during Ace-Asia	Environ. Chem. **2004**, 1(1), 13-17 https://doi.org/10.1071/EN04006
#26 *	Li, Q. F., **Yu, J. Z.*** Determination of Total Aerosol Nitrogen by Thermal Evolution	Aerosol Sci. Technol. **2004**, 38, 382-390 https://doi.org/10.1080/02786820490442626
#25	Ao, C. H., **Lee, S. C.***, **Yu, J. Z.**, Xu, J. H. Photodegradation of Formaldehyde by Photocatalyst TiO_2: Effects on the Presence of NO, SO_2, and VOCs	Applied Catalysis B: Environmental **2004**, 54, 41-50 https://doi.org/10.1016/j.apcatb.2004.06.004
#24	Mader, B. T., **Yu, J. Z.**, Xu, J. H., Li, Q. F., Wu, W. S., Flagan, R. C., **Seinfeld, J. H.*** Molecular Composition of the Water-Soluble Fraction of Atmospheric Carbonaceous Aerosols Collected during ACE-Asia	J. Geophys. Res. **2004**, 109, D06206 https://doi.org/10.1029/2003JD004105

Seq#	Authors |Title	Source
#23 *	Ho, S. S. H., **Yu, J. Z.*** Determination of Airborne Carbonyls: Comparison of a Thermal Desorption/GC Method with the Standard DNPH/HPLC Method	Environ. Sci. Technol. **2004**, 38(3), 862-870 https://doi.org/10.1021/es034795w
#22 *	**Yu, J. Z.***, Tung, J. W. T., Wu, A. W. M., Lau, A. K. H., Louie, P. K. K., Fung, J. C. H. Abundance and Seasonal Characteristics of Elemental and Organic Carbon in Hong Kong	Atmos. Environ. **2004**, 38 (10), 1511-1521 https://doi.org/10.1016/j.atmosenv.2003.11.035
#21 *	**Yu, J. Z.***, Yang, H., Zhang, H., Lau, A. K. H. Size Distributions of Water-Soluble Organic Carbon in Ambient Aerosols and Its Size-Resolved Thermal Characteristics	Atmos. Environ. **2004**, 38(7), 1061-1071 https://doi.org/10.1016/j.atmosenv.2003.10.049
	2003	
#20 *	Yang, H., Li, Q., **Yu, J. Z.*** Comparison of Two Methods for the Determination of Water-Soluble Organic Carbon in Atmospheric Particles	Atmos. Environ. **2003**, 37 (6), 865-870 https://doi.org/10.1016/S1352-2310(02)00953-6
#19	**Chuang, P. Y.***, Duvall, R. M., Bae, M. S., Jefferson, A., Schauer, J. J., Yang, H., **Yu, J. Z.**, Kim, J. Observations of Elemental Carbon and Absorption during ACE-Asia and Implications for Aerosol Radiative Properties and Climate Forcing	J. Geophys. Res. **2003**, 108 (D23), 8634 https://doi.org/10.1029/2002JD003254
#18	Mader, B. T., Schauer, J. J., **Seinfeld, J. H.***, Flagan, R. C., **Yu, J. Z.**, Yang, H., Lim, H. J., Turpin, B. J., Deminter, J. T., Heidemann, G., Bae, M. S., Quinn, P., Bates, T., Eatough, D. J., Huebert, B. J., Bertram, T., Howell, S. Sampling Methods used for the Collection of Particle-Phase Organic and Elemental Carbon during ACE-Asia	Atmos. Environ. **2003**, 37 (11), 1435-1449 https://doi.org/10.1016/S1352-2310(02)01061-0
#17	**Schauer, J. J.***, Mader, B. T., DeMinter, J. T., Heidemann, G., Bae, M. S., Seinfeld, J. H., Flagan, R. C., Cary, R. A., Smith, D., Huebert, B. J., Bertram, T., Howell, S., Kline, J. T., Quinn, P., Bates, T., Turpin, B., Lim, H. J., **Yu, J. Z.**, Yang, H., Keywood, M. D. Ace-Asia Intercomparison of a Thermal-Optical Method for the Determination of Particle-Phase Organic and Elemental Carbon	Environ. Sci. Technol. **2003**, 37 (5), 993-1001 https://doi.org/10.1021/es020622f
	2002	
#16 *	Yang, H., **Yu, J. Z.*** Uncertainties in Charring Correction in the Analysis of Elemental and Organic Carbon in Atmospheric Particles by Thermal/Optical Methods	Environ. Sci. Technol. **2002**, 36, 5199-5204 https://doi.org/10.1021/es025672z
#15 *	Ho, S. S. H., **Yu, J. Z.*** Concentrations of Formaldehyde and Other Carbonyls in Environments Affected by Incense Burning	J. Environ. Monitoring **2002**, 4, 728-733 https://doi.org/10.1039/B200998F
#14 *	Ho, S. S. H., **Yu, J. Z.*** Feasibility of Collection and Analysis of Airborne Carbonyls by On-sorbent Derivatization and Thermal Desorption	Anal. Chem. **2002**, 74, 1232-40 https://doi.org/10.1021/ac015708q
#13 *	**Yu, J. Z.***, Xu, J., Yang, H. Charring Characteristics of Atmospheric Organic Particulate Matter in Thermal Analysis	Environ. Sci. Technol. **2002**, 36, 754-761 https://doi.org/10.1021/es015540q

Seq#	Authors |Title	Source
Publications Before Joining HKUST		
#12	Kalberer, M., **Seinfeld, J. H.***, **Yu, J. Z.**, Cocker, D. R., Morrical, B., Zenobi, R. Composition of SOA from Cyclohexene Oxidation and Involved Heterogeneous Reactions	J. Aerosol. Sci. **2001**, 32 (S1), 907-908 https://doi.org/10.1016/S0021-8502(21)00410-9
#11	Kalberer, M., **Yu, J. Z.**, Cocker, D. R., Flagan, R. C., **Seinfeld, J. H.*** Aerosol Formation in the Cyclohexene-Ozone System	Environ. Sci. Technol. **2000**, 34, 4894-4901 https://doi.org/10.1021/es001180f
#10	**Yu, J. Z.**, Cocker, D. R., Griffin, R. J., Flagan, R. C., **Seinfeld, J. H.*** Gas-phase Ozone Oxidation of Monoterpenes: Gaseous and Particulate Products	J. Atmos. Chem. **1999**, 34, 207-58 https://doi.org/10.1023/A:1006254930583
#9	**Yu, J. Z.**, Griffin, R. J., Cocker, D. R., Flagan, R. C., **Seinfeld, J. H.***, Blanchard, P. Observation of Gaseous and Particulate Products of Monoterpene Oxidation in Forest Atmospheres	Geophys. Res. Lett. **1999**, 26, 1145-8 https://doi.org/10.1029/1999GL900169
#8	**Yu, J. Z.**, Flagan, R. C., **Seinfeld, J. H.*** Identification of Products Containing -COOH, -OH, and -C=O in Atmospheric Oxidation of Hydrocarbons	Environ. Sci. Technol. **1998**, 32, 2357-72 https://doi.org/10.1021/es980129x
#7	**Yu, J. Z.**, **Jeffries, H. E.***, Sexton, K. G. Atmospheric Photooxidation of Alkylbenzenes - I. Carbonyl Product Analyses	Atmos. Environ. **1997**, 31, 2261-80 https://doi.org/10.1016/S1352-2310(97)00011-3
#6	**Yu, J. Z.**, **Jeffries, H. E.*** Atmospheric Photooxidation of Alkylbenzenes - II. Evidence of Formation of Epoxide Intermediates	Atmos. Environ. **1997**, 31, 2281-7 https://doi.org/10.1016/S1352-2310(97)88637-2
#5	**Yu, J. Z.**, **Jeffries, H. E.***, Le Lacheur, R. M. Identifying Airborne Carbonyl Compounds in Isoprene Reaction Products by Their PFBHA Oximes Using Gas Chromatography/Ion Trap Mass Spectrometry	Environ. Sci. Technol. **1995**, 29, 1923-32 https://doi.org/10.1021/es00008a009
#4	Odum, J. R., **Yu, J. Z.**, **Kamens, R. M.*** Modeling the Mass Transfer of Semivolatile Organics in Combustion Aerosols	Environ. Sci. Technol. **1994**, 28, 2278-85 https://doi.org/10.1021/es00062a011
#3	**Yu, J. Z.**, **Klarup, D.*** Extraction Kinetics of Copper, Zinc, Iron, and Manganese from Contaminated Sediment using Disodium Ethylenediaminetetraacetate	Water Air Soil Pollut. **1994**, 75, 205-25 https://doi.org/10.1007/BF00482938
#2	Xu, L., **Wang, L.***, **Yu, J. Z.** Determination of Acid Constants of Organic Acids and Bases by HPLC Method	Environ. Chem. **1992**, 11, 65-7 (in Chinese)

Seq#	Authors |Title	Source
#1	Xu, L., **Yu, J. Z.**, **Wang, L.*** Simultaneous Determination of Partition Coefficients and Acid Constants of Organic Di-Acids and Di-Bases by HPLC Method	p111-8 in Progresses in Organic Pollution Chemistry, by Liansheng Wang, Linren Kong, Shukui Han, Bingkun Wang, Xiaojiang Wang and Liangji Xu, Nanjing University Press, **1991** (in Chinese).

TECHNICAL REPORTS

1. J. Z. Yu, Y.K. Wong, T. Zhang, Chemical speciation of $PM_{2.5}$ filter samples in Hong Kong: January 1 through December 31, **2023**, report submitted to Hong Kong Environmental Protection Department.

   Available at http://www.epd.gov.hk/epd/english/environmentinhk/air/studyrpts/pm25_study.html.

2. J. Z. Yu, Y.K. Wong, T. Zhang, Chemical speciation of $PM_{2.5}$ filter samples in Hong Kong: January 1 through December 31, **2022**, report submitted to Hong Kong Environmental Protection Department.

   Available at http://www.epd.gov.hk/epd/english/environmentinhk/air/studyrpts/pm25_study.html.

3. J. Z. Yu, Y.K. Wong, T. Zhang, Chemical speciation of $PM_{2.5}$ filter samples in Hong Kong: January 1 through December 31, **2019**, report submitted to Hong Kong Environmental Protection Department.

   Available at http://www.epd.gov.hk/epd/english/environmentinhk/air/studyrpts/pm25_study.html.

4. J. Z. Yu, T. Zhang, Chemical speciation of $PM_{2.5}$ filter samples in Hong Kong: January 1 through December 31, **2017**, report submitted to Hong Kong Environmental Protection Department.

   Available at http://www.epd.gov.hk/epd/english/environmentinhk/air/studyrpts/pm25_study.html.

5. J. Z. Yu, T. Zhang, Chemical speciation of $PM_{2.5}$ filter samples in Hong Kong: January 1 through December 1, **2016**, report submitted to Hong Kong Environmental Protection Department.

   Available at http://www.epd.gov.hk/epd/english/environmentinhk/air/studyrpts/pm25_study.html.

6. J. Z. Yu, X. H. H. Huang, T. Zhang, W. M. Ng, Chemical speciation of $PM_{2.5}$ filter samples in Hong Kong: January 1 through December 31, **2014**, report submitted to Hong Kong Environmental Protection Department.

   Available at http://www.epd.gov.hk/epd/english/environmentinhk/air/studyrpts/pm25_study.html.

7. J. Z. Yu, X. H. H. Huang, T. Zhang, W. M. Ng, Chemical speciation of $PM_{2.5}$ filter samples in Hong Kong: January 1 through December 31, **2013**, report submitted to Hong Kong Environmental Protection Department.

   Available at http://www.epd.gov.hk/epd/english/environmentinhk/air/studyrpts/pm25_study.html.

8. J. Z. Yu, X. H. H. Huang, W. M. Ng, Chemical speciation of $PM_{2.5}$ filter samples in Hong Kong: January 1 through December 31, **2012**, report submitted to Hong Kong Environmental Protection Department. Available at http://www.epd.gov.hk/epd/english/environmentinhk/air/studyrpts/pm25_study.html.

9. J. Z. Yu, X. H. H. Huang, W. M. Ng, Chemical speciation of $PM_{2.5}$ filter samples in Hong Kong: January 1 through December 31, **2011**, report submitted to Hong Kong Environmental Protection Department. Available at http://www.epd.gov.hk/epd/english/environmentinhk/air/studyrpts/pm25_study.html.

10. Bergin, M., G. Hagler, L. Salmon, M. Zheng, W. Chameides, C. S. Kiang, J. Schauer, and J. Yu (**2004**), Hong Kong and the Pearl River Delta Pilot Air Monitoring Project: Pilot study on the use of atmospheric measurements to manage air quality in Hong Kong and the Pearl River Delta. Project 2: Fine particulate matter ($PM_{2.5}$) in the Pearl River Delta, Final Rep. AS 02-011, Environ. Prot. Dep., Hong Kong. Available at www. epd.gov.hk/epd/english/environmentinhk/air/studyrpts/files/epd_final_report1_final.pdf.

11. A. K.-H. Lau, J. Z. Yu, T. W. Wong, I. T-S. Yu, M. W. Poore, Assessment of Toxic Air Pollutant Measurements in Hong Kong, A report submitted to Hong Kong Environmental Protection Department, January **2004**.

12. J. Z. Yu, "Chemical characterization of water-soluble organic compounds in particulate matter in Hong Kong". A report submitted to Hong Kong Environmental Protection Department, May **2002**. Available at http://www.epd.gov.hk/epd/english/environmentinhk/air/studyrpts/pm25_study.html.

13. H. E. Jeffries, K. Sexton and J. Z. Yu, Atmospheric Photooxidation Studies of Pollutant Emission from Transportation Vehicles Operating on Alternative Fuels, Report prepared for the U.S. Department of Energy, April **1996**, 293 pages.