

## **Assistant Professor (Research) Jiang, Sabrina Yanan**

Department of Environmental Science and Engineering

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PhD Supervisor

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2014-2018 Ph.D in School of Energy and Environment, City University of Hong Kong

2010-2012 MPhil in Analytical Chemistry, Baptist University of Hong Kong

2006-2010 Bachelor of Science (Honor) in Environmental Science

Climate Change

Environmental Science

Experimental of Analytical Chemistry

## Research Grants

Research Platform and Research Project from Guangdong Department of Education (2021-2023), The occurrence and distribution of antibiotics in wastewater in Pearl River Delta area. (Principal Investigator). ( 60,000)

2021-2023,

2020

. (Participant). ( 200,000)

2021-2023, Modification of Montmorillonite for Fabrication of Multifunctional Adsorbent Leading to Modification of Mineral Solid Waste Material. Beijing Normal University-Hong Kong Baptist University United International College grant, (Participant). ( 70,000)

United International College Research Grant (2021-2022, Project No. R20211). Neurotoxic metals, brain activity, cognitive decline, and their interactions in the degenerative course of Alzheimer's disease. (Co-principal Investigator). ( 200,000)

Research Grant of the Council of Hong Kong SAR (GRF) (2016-2019, GRF Project No.11263216) Transformation of water soluble iron speciation in particulate matter: evidence in the atmosphere and implication on particle oxidative potential. (Co-principal Investigator). (HKD 600,000)

Research Grant of the Council of Hong Kong SAR (GRF) (Project No. HKBU 201210). Evaluating the environmental impact of artificial sweeteners: A study of their distributions, photodegradation and toxicities. (Co-principal Investigator). (HKD 800,000)

## Representative publications (Complete publication refer to my webpage)

He Z., Chen J., Lu J., **Jiang S. Y.\***, Su L., Lee C. and Ruan H. D.\*, (2022), Batch and Column Adsorption of Phosphorus by Modified Montmorillonite. *Applied Sciences* 12 :5703. Impact Factor : 2.84

Chen J., Lu J., Su L., Ruan H., Zhao Y., Lee C., Cai Z., Wu Z., **Jiang Y.\***, (2022), Enhanced Adsorption of Methyl Orange by Mongolian Montmorillonite after Aluminum Pillaring. *Applied Sciences* 12 (6): 3182. Impact Factor : 2.84

Wang D.J, Su L.C, Ruan H.D.\*, Chen. J.J., Lu J.Z., Lee C.-H. and **Jiang S.Y.\***, (2021). Quantitative and qualitative determination of microplastics in oyster, seawater and sediment from the coastal areas in Zhuhai, China. *Marine Pollution Bulletin*. 164 :112000. Impact Factor : 7.00

Li, Y., Wang, Y., Jin, X., Niu, D., Zhang, L., **Jiang, S.Y.**, Ruan, H.D., Ho, G.W.\* (2020). Sex differences in hemispheric lateralization of attentional networks. *Psychological Research*. Impact Factor : 2.95

**Jiang S.Y.**, Gali. N.K., Ruan. H. D., Ning Z\*., (2020) Photo-oxidation of particle phase iron species dominates the generation of reactive oxygen species in secondary aerosol. *Science of the Total Environment*. 723 : 137994. Impact Factor : 10.75

**Jiang S.Y.**, Gali. N.K., Yang F.H., Zhang J.K., Ning Z\*., (2017) Chemical characterization of size-segregated PM from different public transport modes and implications of source specific contribution to public exposure. *Environ Sci Pollut Res* 24:20029-20040. Impact Factor : 5.19

Gali. N.K., **Jiang S.Y.**, Yang F.H., Sun L., Ning Z\*., (2017) Redox characteristics of size-segregated PM from different public transport microenvironments in Hong Kong. *Air Qual Atmos Health* , 1-12. Impact Factor : 5.80

Chan K.L., **Jiang S.Y.**, Ning Z\*., (2016) Speciation of water soluble iron in size segregated airborne particulate matter using LED based liquid waveguide with a novel dispersive absorption spectroscopic measurement technique. *Analytica Chimica Acta* 914, 100-109. Impact Factor : 6.91

**Jiang S.Y.**, Kaul D.S., Yang F.H. Sun L. Ning Z.\* (2015) Source apportionment and water solubility of metals in size segregated particles in urban environments. *Science of the Total Environment* 533, 347-355. Impact Factor : 10.75

Gali N.K., Yang F.H., **Jiang S.Y.**, Chan K.L., Sun L., Ho K.F., Ning Z.\* (2015) Spatial and seasonal heterogeneity of atmospheric particles induced reactive oxygen species in urban areas and the role of water-soluble metals. *Environmental Pollution* 198, 86-96. Impact Factor : 9.98

Wubuliharen M., **Jiang S.Y.**, Ning Z.\* (2015) Prototype Development and Laboratory Evaluation of an Aerosol to Hydrosol Sampler. *Aerosol and Air Quality Research*, (15) 776-785. Impact Factor : 4.53

**Jiang S.Y.**, Yang F.H., Chan K.L., Ning Z.\* (2014) Water solubility of metals in coarse PM and PM<sub>2.5</sub> in typical urban environment in Hong Kong. *Atmospheric Pollution Research* (5) 236-244. Impact Factor : 4.83

Sang Z.Y.<sup>1</sup>, **Jiang Y.N.**<sup>1</sup> (**Co-first author**, two authors contributed equally to this paper) Tsoi Y.K., Leung K.S.Y.\* (2014) Evaluating the environmental impact of artificial sweeteners: A study of their distributions, photodegradation and toxicities. *Water research* 52, 260-274. Impact Factor : 13.40

**Jiang S.Y.N.**, Su.L.C., Ruan H.D.\*, Zhang G.F., Lai S.Y., Lee C.H., Yu C.F., Wu Z., Chen X., He S. (2014) Adsorption of phosphorus by modified clay mineral waste material relating to removal of it from aquatic system. *International Journal of Environmental Monitoring and Analysis*, Volume 2, Issue 1, 36-44.

**Jiang, Y.N.**, Ruan, H.D.\*

6<sup>th</sup>-11<sup>th</sup> Sept., 2015. Milan, Italy.

**Jiang, Y.N.**, Ruan, H.D., Zhang, G.F., Lai, S.Y., Lee, C.H., Yu, C.F., Wu, Z., Chen, X., He, S. (2013) Recycling of Solid Waste Material: II. Phosphate Adsorption by Modified Clay Mineral Waste Material Relating to Remediation of Eutrophication in Aquatic Systems. *2013 International Symposium on Engineering and Natural Science (ISEANS)*, August 29-31, Macau.

**Jiang, Y.N.** and Leung K.S.Y. (2012) Probing the environmental fate of emerging pollutants. *The 19<sup>th</sup> Symposium on Chemistry Postgraduate Research in Hong Kong*. 14<sup>th</sup> April, 2012. The Hong Kong University of Science and Technology. AE-14.

**Jiang, Y.N.**, Ruan, H.D., Lai, S.Y., Yu, C.F., Lee, C.H., Wu Z., Chen, X. and He, S. (2011) Effects of ionic strength and pH on phosphate adsorption by modified clay mineral waste material. *International conference on Solid Waste 2011, Moving towards Sustainable Resource Management*. Hong Kong SAR, China, 3-7 May 2011.

**Jiang, Y.N.**, Lin, Z.Q., Ruan, H.D., Lai, S.Y., Yu, C.F., Lee, C.H. and Wu Z. (2011) Application of a modified clay mineral waste material for the removal of cadmium (II) in water. *International conference on Solid Waste 2011, Moving towards Sustainable Resource Management*. Hong Kong SAR, China, 3-7 May 2011.

#### Professional Certification and Awards

2016-2017	Outstanding Academic Performance
2016-2017	Research Tuition Scholarships
2015-2016	Outstanding Academic Performance
2015-2016	Research Tuition Scholarships
2014-2017	Government Funds-University Grants Committee
2010-2012	HKBU Postgraduate Research Fund
2010	Top Award of Chinese Culture in HKBU

#### Journal Editorship

#### Personal Website

<https://scholar.google.com/citations?user=Wx-PiJQAAAAJ&hl=zh-CN&oi=sra>