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Macao University of Science and Technology
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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

Water Pollution: Fate, source, pathway, transformation, degradation, and toxicity of metals and organic pollutants (PPCPs, Microplastics) in aquatic environment

Atmospheric Chemistry: source appointment, speciation, transformation and reactive oxidative potential of metals and organic compounds in size-segregated particulate matter (PM)

Analytical Chemistry: method development and validation, qualitative and quantitative analyses, chromatography and spectrometry

09/2021-present Assistant Professor, Macao Environmental Research Institute, Macao University of Science and Technology
08/2019-08/2021 Research Fellow, Beijing Normal University-Hong Kong Baptist

09/2018-08/2019 University United International College
Postdoctoral fellow, The Hong Kong University of Science and
Technology

01/2013-08/2014 Research Assistant, City University of Hong Kong

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, 开发固体废料制备多功能吸附剂技术支持乡村经济振兴, 2020 年度广东省高校重点平台和科研项目. (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 (2021-2023, Project No. R202102). " Social and non-social orienting in depressed and neurotypical individuals." (Participant). (¥ 100,000)

United International College Research Grant (2020-2022, Project No. R202011). 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)

He Z., Chen J., Lu J., _____* 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

Evaluation of an Aerosol to Hydrosol Sampler. *Aerosol and Air Quality Research*, (15) 776– 785. Impact Factor : 4.53

_____, Yang F.H., Chan K.L., Ning Z.* (2014) Water solubility of metals in coarse PM and PM_{2.5} in typical urban environment in Hong Kong. *Atmospheric Pollution Research* (5) 236-244. Impact Factor : 4.83

Sang Z.Y.¹, _____ (_____, 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

_____, 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.

_____, Ruan, H.D.*, Lai, S.Y., Lee, C.H., Yu, C.F., Wu, Z., Chen, X., He, S. (2013) Recycling of solid waste material in Hong Kong: I. Properties of modified clay mineral waste material and its application for removal of cadmium in water. *Earth Sci.* 2(2), 40-46.

_____, Yang F.H., Chan K.L., and Ning Z. (2015) Investigation of metals in PM_{2.5} and coarse PM at in typical urban environment in Hong Kong. *The 2015 European Aerosol Conference (EAC 2015)* 6th-11th Sept., 2015. Milan, Italy.

_____, 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.

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

_____, 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.

_____, 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.

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

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