A person wearing glasses

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**Research Area**

Energy, Environmental Engineering: Air Quality Study.

**Research Interests**

Geophysical data analysis, numerical modeling of the atmosphere, regional and urban air pollution, weather and climate, satellite remote sensing applications, environmental education.

**Recent Publications**

**Refereed Journal Publications**

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| C Lin, **AKH Lau**, XQ Lao, JCH Fung, X Lu, Z Li, J Ma, C Li, AHS Wong. (**2020**). A Novel Framework for Decomposing PM2. 5 Variation and Demographic Change Effects on Human Exposure using Satellite Observations*, Environmental Research*, 109120.  Cui Guo, Ta-Chien Chan, Yung-Chu Teng, Changqing Lin, Yacong Bo, Ly-yun Chang, **Alexis KH Lau**, Tony Tam, Martin CS Wong, Xiang Qian Lao. (**2020**). Long-term Exposure to Ambient Fine Particles and Gastrointestinal Cancer Mortality in Taiwan: A Cohort study, *Environment International*138, 105640.  X Zhang, JCH Fung, Y Zhang, **AKH Lau**, KKM Leung, WW Huang. (**2020**). Assessing PM2. 5 Emissions in 2020: The Impacts of Integrated Emission Control Policies in China, *Environmental Pollution*, 114575.  HHL Kwok, JCP Cheng, ATY Li, JCK Tong, **AKH Lau**. (**2020**). Multi-zone Indoor CFD under Limited Information: An Approach Coupling Solar Analysis and BIM for Improved Accuracy, *Journal of Cleaner Production* 244, 118912.  Wenwei Che, H Christopher Frey, Jimmy CH Fung, Zhi Ning, Huamin Qu, Hong Kam Lo, Lei Chen, Tze-Wai Wong, Michelle KM Wong, Ophelia CW Lee, David Carruthers, Freeman Cheung, Jimmy WM Chan, David W Yeung, Yik Him Fung, Xuguo Zhang, Jenny Stocker, Christina Hood, Tilman Leo Hohenberger, King Wai Leung, Phillip YK Louie, Alison TY Li, Li Sun, Peng Wei, Zhiyuan Li, Yumiao Zhang, Meilan Wang, Qiaomu Shen, Wei Huang, Enoch Lee, Ashraf Patwary, Xiayu Lei, Steven Cheng, Md Shakhaoat Hossain, Kimberly Tasha Jiayi Tang, XiangQian Lao, Rae Leung, Denise Chan, Ying Li, Zibing Yuan, **Alexis KH Lau**. (**2020**). PRAISE-HK: A Personalized Real-time Air Quality Informatics System for Citizen Participation in Exposure and Health Risk Management, *Sustainable Cities and Society* 54, 101986.  Z Li, W Che, **AKH Lau**, JCH Fung, C Lin, X Lu. (**2019**). 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