

## Brief CV for PI, Prof. Dr. Lu, Jane Wei-Zhen



*i) Name:* Lu, Jane Wei-Zhen

*ii) Academic qualifications:*

- Doctor of Philosophy in Built Environment, Department of Building Engineering, De Montfort University, Leicester, UK (09/1993 - 10/1995),
- Master of Philosophy in Fluids Machinery, College of Power Engineering, Xi'an Jiaotong University, Xi'an, Shaanxi, China (09/1982 - 05/1985),
- Bachelor of Science in Fluid Mechanics, College of Power Engineering, Xi'an Jiaotong University, Xi'an, Shaanxi, China (09/1978 - 07/1982)

*iii) Previous academic positions held (with dates):*

- Lecturer (6/1985~8/1990), Dept. of Chemical engineering, Xi'an Jiaotong University;
- Scientific Officer (9/1990~8/1993), National Engineering Laboratory, East Kilbride, Glasgow, UK;
- Lecturer (11/1995~9/1996), Dept. of Building Services Engineering, The Hong Kong Polytechnic University, Hong Kong;
- Research Fellow (10/1996~9/1998), Assistant Professor (10/1998~1/2004), Associate Professor B (2/2004~6/2008), Associate Professor A (7/2008~6/2013), Professor (7/2013~), City University of Hong Kong.

*iv) Present academic position:* Professor, Department of Architecture and Civil Engineering, City University of Hong Kong; Email: [bcwzlu@cityu.edu.hk](mailto:bcwzlu@cityu.edu.hk)

*v) Previous relevant research work:*

- Air pollution in urban environment, air quality inside buildings under ventilation;
- River flow, Urban river network optimization and management, water quality modeling;
- Assessment of air pollution impact on built environment using different approaches like Computational Fluid Dynamics, Soft computing methods, and measurement;
- Attracted 24 research grants in PI-capacity including **1 ITF grant**, **4 RGC-GRF grants**, and **1 RGC-PPR grant**;
- Authored/co-authored over 190 papers in international referred journals and conferences.

*vi) Publication records:* (updated 31 October 2017)

- **Google Scholar Database:** 165 papers, All citations: **3685** / Self-excluding citations since 2013: **1832**, **h-index: 31**, **i10-index: 76**;
- **ISI:** 103 papers, **h-index-25**, Self-excluding citations: **1728** /Total citations: **1898 (=91%)**;
- **Scopus:** 126 papers, **h-index-27**, Self-excluding citations: **2435** /Total citations: **2481 (=98.1%)**;

**Section A - Five most representative publications in recent five years:**

(citations from google scholar database, \* - Corresponding author)

- [1] He, YP, Gu, ZL\*, Lu, WZ\*, Zhang, LY, Okuda, T, Fujioka, K, Luo, H, Yu, WC, 2019. Atmospheric humidity and particle charging state on agglomeration of aerosol particles, *Atmospheric Environment*, 197:141-149. <http://doi.org/10.1016/j.atmosenv.2018.10.035>.  
[SCI, IF=3.708, Rank: 16/86, top 18.6% - Meteorology & Atmospheric Sciences]
- [2] He, Y, Gu, ZL\*, Su, J, Chen, C, Zhang, M, Zhang, L, Lu, WZ\*, 2018. Coupling Eulerian-Lagrangian method of air-particle two-phase flow with population balance equations to simulate the evolution of vehicle exhaust plume, *International Journal for Numerical Methods in Fluids*, **88(3): 117-140**. <http://dx.doi.org/10.1002/flid.4514>. (Cover Image paper)  
[SCI, IF=1.673, Rank: 36/103, top 34.9% - Mathematics, Interdisciplinary Applications]
- [3] He, HD, Qiao, Z, Pan, W, Lu, WZ\*, 2017. Multiscale multifractal properties between ground-level ozone and its precursors in rural area in Hong Kong, *Journal of Environmental Management*, **196: 270-277**. <http://dx.doi.org/10.1016/j.jenvman.2017.02.024>.  
[SCI, IF=4.010, Rank: 39/229, top 17% - Environmental Sciences, 4 citations]
- [4] He, HD, Lu, WZ\*, Xue, Y, 2015. Prediction of particulate matters at urban intersection by using multilayer perceptron model based on principal components, *Stoch Environ Res Risk Assess*, 29: 2107-114, [DOI: 10.1007/s00477-014-0989-x](https://doi.org/10.1007/s00477-014-0989-x).  
[SCI, IF=2.668, Rank: 9/124, top 7.2% - Statistics & Probability, 7 citations]
- [5] Lu, WZ\*, Xue, Y, He, HD, 2014. Detrended fluctuation analysis of particle number concentrations on roadsides in Hong Kong, *Building and Environment*, 82:580-587, [DOI: 10.1016/j.buildenv.2014.09.015](https://doi.org/10.1016/j.buildenv.2014.09.015).  
[SCI, IF=4.053, Rank: 4/125, top 3.2% - Engineering, Civil, 9 citations]

**Section B - Five representative publications beyond the recent five-year period with the latest publication entered first:** (citations from google scholar database)

- [1] He, HD, Lu, WZ\*, 2012. Urban aerosol particulates on Hong Kong roadsides: size distribution and concentration levels with time, *Stoch Environ Res Risk Assess*, 26(2): 177-187, <https://doi.org/10.1007/s00477-011-0465-9>.  
[SCI, IF=2.668, Rank: 9/124, top 7.2% - Statistics & Probability, 24 citations]
- [2] Lu, WZ\*, He, HD, Dong, LY, 2011. Performance assessment of air quality monitoring networks using principal component analysis and cluster analysis, *Building and Environment*, 46(3): 577-83, [DOI: 10.1016/j.buildenv.2010.09.004](https://doi.org/10.1016/j.buildenv.2010.09.004).  
[SCI, IF=4.053, Rank: 4/125, top 3.2% - Engineering, Civil, 76 citations]
- [3] Lu, WZ\*, Wang, D, 2008. Ground-level ozone prediction by support vector machine approach with a cost-sensitive classification scheme, *Science of the Total Environment*, 359: 109-116, [DOI: 10.1016/j.scitotenv.2008.01.035](https://doi.org/10.1016/j.scitotenv.2008.01.035).  
[SCI, IF=4.900, Rank: 22/229, top 9.6% - Environmental Sciences, 74 citations]
- [4] Lu, WZ\*, Wang, WJ, 2005. Potential assessment of the support vector machine method in forecasting ambient air pollutant trends, *Chemosphere*, 59: 693-701, [DOI: 10.1016/j.chemosphere.2004.10.032](https://doi.org/10.1016/j.chemosphere.2004.10.032).  
[SCI, IF=4.208, Rank: 32/229, top 13.97% - Environmental Sciences, 175 citations]
- [5] Lu, WZ\*, Wang, WJ, Wang, XK, 2004. Potential assessment of a neural network model with PCA/RBF approach for forecasting pollutant trends in Mong Kok urban air, Hong Kong, *Environmental Research*, 96(1): 79-87, [DOI:10.1016/j.envres.2003.11.003](https://doi.org/10.1016/j.envres.2003.11.003).  
[SCI, IF=3.835, Rank: 25/176, top: 14.2% -Public, Environmental & Occupational Health, 84 citations]

*vii) Others (please specify):*

- [1] Member of RGC Engineering Panel – Joint Research Scheme Committee, since 2018;
- [2] 2<sup>nd</sup> Class Award, National Science & Research (科技進步二等獎), National Education Bureau, China, 2014;
- [3] Fellows Award, International Chinese Association for Computational Mechanics (ICACM), 2011;
- [4] Associate Editor, Transactions of The Hong Kong Institution of Engineers (ISSN 1023-697X) since 2011;
- [5] Past President, Hong Kong Society of Theoretical and Applied Mechanics (HKSTAM) since 2012;
- [6] President, Hong Kong Society of Theoretical and Applied Mechanics, 2010-2012;
- [7] Guest Fellow, The Chinese Society of Theoretical and Applied Mechanics (CSTAM), 2011-2014;
- [8] Member of editorial board, Journal of Hydrodynamics (ISSN 1000-4874) since 2004.