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个人简介：

魏鹏，山东德州人，中共党员，中国科学院遥感与数字地球研究所硕士，香港科技大学环境科学政策与管理博士，2022年入职于山东师范大学地理与环境学院。主要研究领域为空气质量传感器算法研究与应用，城市空气质量移动传感器网络监测，机器学习空气质量预测，城市交通拥堵分析。

主持/参与项目：

1. 香港环保署，Provision of Services for Development of a Proof-of-concept Protocol for the Unmanned Aviation Vehicle (UAV) with Sniffing Sensor System. 2018-2019，主要参与人
2. 香港环境及自然保育基金，Development of a mobile air sensor network in Hong Kong for sustainable air quality management and cost-effective traffic control. 2016-2018，主要参与人；
3. 香港环保署，Provision of Services for Continuous Monitoring of Roadside Air Quality in the Northern Hong Kong. 2015-2017，主要参与人；
4. 香港环保署，Provision of Services for Quality Assurance and Protocol development of Next Gen Air Monitoring for Supersites Program. 2014-2016，主要参与人；
5. 美国环保局，USEPA Green Village Project (VGP) sensor package in Hong Kong. 2014-2015, 主要参与人；

学术论文：

1. Ning Z, **Wei P**, Zhang Q, et al, “A Pair Differential Filter (PDF) technique for dynamic tracking of baseline of electrochemical air quality sensors and decoupling temperature and relative humidity impact.” *Ready to Submit*
2. Zhang Q, Li Z, **Wei P**, et al, “Insights into the day-night sources and optical properties of coastal organic aerosols in southern China.” *Science of the Total Environment*. 2022, *In Press*
3. Chu M, Brimblecombe P, **Wei P**, et al. “Kerbside NO_x and CO concentrations and emission factors of vehicles on a busy road.” *Atmospheric Environment*. 2022, 271:118878.
4. **Wei P**, Brimblecombe P, Yang F, et al. “Determination of local traffic emission and non-local background source contribution to on-road air pollution using fixed-route mobile air sensor network.” *Environmental Pollution*. 2021, 290: 118055.
5. Zong H, Ning Z, Sun L, **Wei P**, “Reducing the influence of environmental factors on performance of a diffusion-based personal exposure kit.” *Sensors*, 2021, 21(14): 4637.
6. Anand A, Wei P, Gali N K, et al. “Protocol development for real-time ship fuel sulfur content determination using drone based plume sniffing microsensor system.” *Science of the Total Environment*, 2020, 744: 140885.
7. **Wei P**, Sun L, Anand A, et al. “Development and evaluation of a robust temperature sensitive

algorithm for long term NO₂ gas sensor network data correction.” *Atmospheric Environment*, 2020, 230: 117509.

8. **Wei P**, Ning Z, Westerdahl D, et al. “Solar-powered air quality monitor applied under subtropical conditions in Hong Kong: Performance evaluation and application for pollution source tracing.” *Atmospheric Environment*, 2019, 214: 116825.
9. **Wei P**, Ning Z, Ye S, et al. “Impact analysis of temperature and humidity conditions on electrochemical sensor response in ambient air quality monitoring.” *Sensors*, 2018, 18(2): 59.
10. Sun L, Wong K C, **Wei P**, et al. “Development and application of a next generation air sensor network for the Hong Kong marathon 2015 air quality monitoring.” *Sensors*, 2016, 16(2): 211.