

Xia Meng

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Education

- 2010.09 – 2015.06 **School of Public Health, Fudan University**
Major: Occupational and Environmental Health (Environmental Epidemiology)
Degree: Ph.D. in Medicine (2015.06)
- 2005.09 – 2010.06 **School of Public Health, Sun Yat-sen University**
Major: Preventive Medicine; Minor: Medical Psychology
Degree: Bachelor of Medicine (2010.06)

Employment

- 2022.05 – present **Associate Professor**, School of Public Health, Fudan University
- 2019.07 – 2022.05 **Associate Research Professor**, School of Public Health, Fudan University
- 2016.01 – 2019.07 **Postdoctoral Fellow**, Department of Environmental Health, Rollins School of Public Health, Emory University, USA
- 2015.07 – 2015.11 **Postdoctoral Fellow**, Department of Environmental Science and Engineering, Fudan University

Research Grants

- Exposure assessment of ambient fine particulate matter based on deep learning and image recognition. National Natural Science Foundation of China (NSFC) General Program (No. 82473589), National Natural Science Foundation of China, Jan 2025 – Dec 2028. Principal Investigator.
- Burden of typical high-incidence diseases attributable to air pollution. National Key Research and Development Program of China (subproject) (No. 2023YFC3708304), Ministry of Science and Technology, Dec 2023 – Nov 2027. Principal Investigator.
- Multi-level ozone exposure assessment models with high spatiotemporal resolution. NSFC Young Scientists Fund (No. 82003413), National Natural Science Foundation of China, Jan 2021 – Dec 2023. Principal Investigator.
- High-accuracy ambient ozone exposure models and their application in epidemiological studies. Shanghai Pujiang Talent Program (No. 20PJ1401300), Science and Technology Commission of Shanghai Municipality, Nov 2020 – Oct 2022. Principal Investigator.
- Environmental and Occupational Health. Shanghai Three-Year Action Plan for Public Health, Outstanding Young Talent Program (No. GWV-10.2-YQ19), Shanghai Municipal Health Commission, Jul 2020 – Jun 2022. Principal Investigator.
- Integrated platform for air pollution and health monitoring, assessment, early warning and intervention, with demonstration applications. National Key Research and Development Program of China (subproject) (No. 2022YFC3702705), Ministry of Science and Technology, Oct 2022 – Mar 2026. Key Investigator.

Honors and Awards

- Changjiang Scholars Program (Young Scholar), Ministry of Education, May 2024
- Shanghai Young Eastern Scholar, Shanghai Municipal Education Commission, Jan 2021
- Shanghai Science and Technology Progress Award, First Prize, ranked 8th, Apr 2023
- Shanghai Science and Technology Progress Award, Second Prize, ranked 3rd, Apr 2023

Publications

72 peer-reviewed papers as first or corresponding author. # co-first author; * corresponding author.

1. Dong Sun[#], **Xia Meng[#]**, Jingcen Hu, Canqing Yu, Dianjianyi Sun, Yuanjie Pang, Pei Pei, Ling Yang, Yiping Chen, Huaidong Du, Xiaofang Chen, Xiaoming Yang, Junshi Chen, Zhengming Chen, Liming Li^{*}, Haidong Kan^{*}, Jun Lv^{*}, on behalf of the China Kadoorie Biobank Collaborative Group, Exploring China's Clean Air Act and associated cardiovascular disease risk: a prospective, quasi-experimental, and causal inference modelling study. *The Lancet Planetary Health*, 2026: 101513.
2. Xinling He[#], Xinlei Zhu[#], Yixuan Jiang, Yixiang Zhu, Lu Zhou, Xiaowei Xue, Cong Liu, Yue Niu, Jing Cai, Renjie Chen, Haidong Kan^{*}, **Xia Meng^{*}**, Short-term exposure to fine particulate matter and its chemical constituents may affect arterial stiffness via inflammation: A panel study among healthy adults. *Environmental Pollution*, 2026, 395: 127735.
3. Xinyue Li[#], Zifang Zhou[#], Yuchang Zhou, Hua Hao, Lu Zhou, Yue Niu, Yan Zhang, Sijin Liu, Renjie Chen, Haidong Kan, **Xia Meng^{*}**, Maigeng Zhou^{*}, Effects of long-term exposure to nitrogen dioxide with cardiovascular mortality: Evidence from a nationwide cohort study. *Ecotoxicology and Environmental Safety*, 2026, 313: 119950.
4. Jing-Jing Xu[#], Cheng Li[#], Si-Wei Zhang, Yan-Hui Hao, He-Feng Huang, **Xia Meng^{*}**, Haidong Kan^{*}, Yan-Ting Wu^{*}, The impact of interaction between particulate matter and sunlight duration on neonatal hyperbilirubinemia. *Journal of Hazardous Materials Advances*, 2026, 21: 101021.
5. Anni Li[#], Hao Wang[#], Qingli Zhang, Xinlei Zhu, Chang Xu, Su Shi, Haidong Kan, Yutao Guo^{*}, Renjie Chen^{*}, **Xia Meng^{*}**, Nationwide Study of the Association between Temperature Variability and Sleep Apnea, and the Modifying Role of Air Pollution, in a Moderate-to-Severe Risk OSA Population. *Environment & Health*, 2026, 4(2): 202-211.
6. Yixuan Jiang, Chang Xu, Renjie Chen, Cong Liu, Yixiang Zhu, Lu Zhou, Haidong Kan, Jianwei Xuan, **Xia Meng^{*}**, Ambient air pollution and hospitalization of wide-spectrum digestive diseases: A nationwide case-crossover study in China. *Environmental Pollution*, 2026, 390: 127520.
7. **Xia Meng[#]**, Yuchang Zhou[#], Su Shi[#], Shuxiao Wang, Maryam Zaid, Hongliang Zhang, Jianlin Hu, Gang Li^{*}, Haidong Kan^{*}, Maigeng Zhou^{*}, Mortality and long-term exposure to source-specific PM_{2.5}: evidence from a national cohort study in China. *The Lancet Planetary Health*, 2026, 10(1): 101400.
8. Yixuan Jiang[#], Su Shi[#], **Xia Meng^{*}**, Haidong Kan^{*}, Global Disease Burden Attributable to Ambient Air Pollution: Disparities, Determinants, and Implications for Public Health. *Health Data Science*, 2026, 6: 0447.
9. Jie Wang[#], Miao Liu[#], Huihua Yang, Lei Zhao, Xuefeng Lai, Liangle Yang, Xinyue Li, Renjie Chen, **Xia Meng^{*}**, Xiaomin Zhang^{*}, Association of multiple air pollutants exposure with heart rate variability in children: From two panel studies. *Environmental Research*, 2025, 286: 122895.
10. Donghui Yang[#], Yun Chen[#], **Xia Meng[#]**, Xiaolian Dong, Haidong Kan^{*}, Chaowei Fu^{*}, Overweight Modified the Associations between Long-Term Exposure to Ambient Fine Particulate Matter and Its Constituent and the Risk of Type 2 Diabetes in Rural China. *Biomedical and Environmental Sciences*, 2025, 38(11): 1359-1368.
11. Jiabin Chen, Chang Xu, Su Shi, Xinyue Li, Yichen Jiang, Xinling He, Weiran Sun, Sijin Liu, Haidong Kan, **Xia Meng^{*}**, Predicting hourly indoor ozone concentrations with sensor-based measurements and easily accessible predictors. *Eco-Environment & Health*, 2025, 4(3): 100170.
12. Chang Pan[#], Xinyue Li[#], Xuan Zhang, Jiaqi Zheng, Ruixue Song, Ziyang Zhang, Renjie Chen, Haidong Kan, Feng Xu^{*}, Yuguo Chen^{*}, **Xia Meng^{*}**, Association between nitrogen dioxide exposure and out-of-hospital cardiac arrest onset in China: A multicenter, time-stratified, case-crossover study. *Journal of Hazardous Materials*, 2025, 493: 138341.
13. Si-Wei Zhang[#], Yanhui Hao[#], Jia-Xin Chen, Si-Yue Chen, Wen Yu, Jia-Ying Wu, Cheng Li^{*}, **Xia Meng^{*}**, Yan-Ting Wu^{*}, Optimal Gestational Weight Gain and Fetal Growth in Urban Environments: The Role of Residential Greenness. *Environment & Health*, 2025, 3(7): 714-722.
14. Ying-Ying Zhang, Yu Li, Meng Luan, Jia-Ming Liu, Ren-Jie Chen, Fan Cao, He-Li Xu, Lang Wu, Dong-Hui Huang, Xiao-Ying Li, Qian Xiao, Sha Ni, **Xia Meng^{*}**, Ting-Ting Gong^{*}, Qi-Jun Wu^{*}, Particulate matter and their interaction of physical activity on ovarian cancer survival: A prospective cohort study. *Ecotoxicology and Environmental Safety*, 2025, 298: 118275.

15. **Xia Meng**[#], Lina Zhang[#], Ka Hung Chan[#], Jun Lv[#], Hubert Lam, Cong Liu, Renjie Chen, Christiana Kartsonaki, Neil Wright, Huidong Du, Ling Yang, Yiping Chen, Dianjianyi Sun, Pei Pei, Canqing Yu, Haidong Kan^{*}, Zhengming Chen^{*}, Liming Li^{*}, China Kadoorie Biobank Collaborative Group, Association of greenness with incidence of cardiovascular disease in China: Evidence from the China Kadoorie Biobank prospective cohort study with 0.5 million adults. *Eco-Environment & Health*, 2025, 4(2): 100148.
16. Meng Zhu[#], Yuting Han[#], Yuanlin Mou[#], **Xia Meng**[#], Chen Ji, Xia Zhu, Canqing Yu, Dianjianyi Sun, Ling Yang, Qiufen Sun, Yiping Chen, Huidong Du, Juncheng Dai, Zhengming Chen, Zhibin Hu, Jun Lv, Guangfu Jin, Hongxia Ma, Haidong Kan^{*}, Liming Li^{*}, Hongbing Shen^{*}, Effect of Long-Term Fine Particulate Matter Exposure on Lung Cancer Incidence and Mortality in Chinese Nonsmokers. *American Journal of Respiratory and Critical Care Medicine*, 2025, 211(4): 600-609.
17. Qingqing Zhan[#], **Xia Meng**[#], Huiqun Wang, Yangwen Yu, Xu Su, Yuqing Huang, Lisha Yu, Yu Du, Fuyan Zhang, Qinyu An, Tao Liu^{*}, Haidong Kan^{*}, Long-term low-level ozone exposure and the incidence of type 2 diabetes mellitus and glycemic levels: A prospective cohort study from Southwest China. *Ecotoxicology and Environmental Safety*, 2025, 293: 118028.
18. Cheng Li[#], Ying-Zhou Ge[#], Yan-Hui Hao, Jing-Jing Xu, Si-Wei Zhang, Si-Yue Chen, Hai-Dong Kan, **Xia Meng**^{*}, He-Feng Huang^{*}, Yan-Ting Wu^{*}, Associations between fine particulate matter and its constituents and intrahepatic cholestasis of pregnancy. *Ecotoxicology and Environmental Safety*, 2025, 293: 118010.
19. Xi Xia[#], **Xia Meng**[#], Cong Liu[#], Yi Guo, Xinyue Li, Yue Niu, Kin Bong Hubert Lam, Neil Wright, Christiana Kartsonaki, Yiping Chen, Ling Yang, Huidong Du, Canqing Yu, Dianjianyi Sun, Jun Lv, Junshi Chen, Xiaoming Yang, Ruqin Gao, Shaowei Wu, Haidong Kan, Ka Hung Chan, Liming Li^{*}, Zhengming Chen^{*}, on behalf of the China Kadoorie Biobank Study Group, Associations of long-term nitrogen dioxide exposure with a wide spectrum of diseases: a prospective cohort study of 0.5 million Chinese adults. *The Lancet Public Health*, 2024, 9(12): e1047-e1058.
20. Lina Zhang, Qingxian Wang, Renfeihao Lei, Jiayi Lin, Jiarui Gong, Lelin Wang, Keyu Xie, Xueer Zheng, Kaiheng Xu, Peidong Zhang, Yue Wu, Xiang Zeng, **Xia Meng**^{*}, Haidong Kan^{*}, Greenness on mortality of infant and under-5 child: A nationwide study in 147 Chinese cities. *Ecotoxicology and Environmental Safety*, 2024, 286: 117184.
21. Su Shi, Renjie Chen, Peng Wang, Hongliang Zhang, Haidong Kan, **Xia Meng**^{*}, An Ensemble Machine Learning Model to Enhance Extrapolation Ability of Predicting Coarse Particulate Matter with High Resolutions in China. *Environmental Science & Technology*, 2024, 58(43): 19325-19337.
22. Yichen Jiang, Su Shi, Xinyue Li, Chang Xu, Haidong Kan, Bo Hu^{*}, **Xia Meng**^{*}, A 10 km daily-level ultraviolet-radiation-predicting dataset based on machine learning models in China from 2005 to 2020. *Earth System Science Data*, 2024, 16(10): 4655-4672.
23. Fan Cao[#], Ran Wang[#], Lan Wang[#], Yi-Zi Li, Yi-Fan Wei, Gang Zheng, Yu-Xin Nan, Ming-Hui Sun, Fang-Hua Liu, He-Li Xu, Bing-Jie Zou, Xiao-Ying Li, Xue Qin, Dong-Hui Huang, Ren-Jie Chen, Song Gao, **Xia Meng**^{*}, Ting-Ting Gong^{*}, Qi-Jun Wu^{*}, Plant-based diet indices and their interaction with ambient air pollution on the ovarian cancer survival: A prospective cohort study. *Ecotoxicology and Environmental Safety*, 2024, 284: 116894.
24. Huanjun Zhou, Hang Xie, Liang Wu, JinYan Song, Zitao Ma, Danning Zeng, Xiaodi Wang, Su Shi, Yulan Qu, Yajun Luo, **Xia Meng**^{*}, Yue Niu, Haidong Kan, Jian Cao^{*}, Nadine Pernodet, An artificial intelligence powered study of enlarged facial pore prevalence on one million Chinese from different age groups and its correlation with environmental factors. *Skin Research and Technology*, 2024, 30(9): e70025.
25. Liu Yang[#], Han Chen[#], Huiyu Gao, Ying Wang, Tianyi Chen, Magnus Svartengren, Dan Norbäck, Jing Wei, Xiaohong Zheng, Ling Zhang, Chan Lu, Wei Yu, Tingting Wang, John S Ji, **Xia Meng**^{*}, Zhuohui Zhao^{*}, Xin Zhang^{*}, Prenatal and postnatal early life exposure to greenness and particulate matter of different size fractions in relation to childhood rhinitis - A multi-center study in China. *Science of The Total Environment*, 2024, 938: 173402.
26. Yanlin Qu[#], Yichen Jiang[#], Guanran Zhang[#], Huihuan Luo, Weiting Hu, Zhenyu Wu, **Xia Meng**^{*}, Renjie Chen, Huixun Jia^{*}, Xiaodong Sun^{*}, Association of exposure to ultraviolet radiation and warm-season ozone air pollution with incident age-related macular degeneration: A nationwide cohort study in China. *Science of The Total Environment*, 2024, 938: 173580.
27. Chang Xu[#], Peng Yin[#], Yixuan Jiang[#], Xiaolei Lin, Su Shi, Xinyue Li, Jiaxin Chen, Yichen Jiang, **Xia Meng**^{*}, Maigeng Zhou^{*}, Joint Effect of Short-Term Exposure to Fine Particulate Matter and Ozone on Mortality: A Time Series Study in 272 Chinese Cities. *Environmental Science & Technology*, 2024, 58(29): 12865-12874.
28. Xin Guan[#], **Xia Meng**[#], Guorong Zhong, Zirui Zhang, Chenming Wang, Yang Xiao, Ming Fu, Hui Zhao, Yuhang Zhou, Shiru Hong, Xuedan Xu, Yansen Bai, Haidong Kan, Renjie Chen, Tangchun Wu, Huan Guo^{*}, Particulate

matter pollution, polygenic risk score and mosaic loss of chromosome Y in middle-aged and older men from the Dongfeng-Tongji cohort study. *Journal of Hazardous Materials*, 2024, 471: 134315.

29. Jiabin Chen, Shengqiang Zhu, Peng Wang, Zhonghua Zheng, Su Shi, Xinyue Li, Chang Xu, Kexin Yu, Renjie Chen, Haidong Kan, Hongliang Zhang, **Xia Meng**^{*}, Predicting particulate matter, nitrogen dioxide, and ozone across Great Britain with high spatiotemporal resolution based on random forest models. *Science of The Total Environment*, 2024, 926: 171831.
30. Tianyi Chen[#], Su Shi[#], Xinyue Li, Lu Zhou, Yongfu Yu, Yunfei Cai, Jing Wang, Haidong Kan, Yanyi Xu, Chen Huang^{*}, Yongqiang Tan^{*}, **Xia Meng**^{*}, Zhuohui Zhao^{*}, Improved ambient air quality is associated with decreased prevalence of childhood asthma and infancy shortly after weaning is a sensitive exposure window. *Allergy*, 2024, 79(5): 1166-1179.
31. Xiyang Cai[#], Qinglin Song[#], **Xia Meng**[#], Kaixuan Li, Su Shi, Li Jin, Haidong Kan^{*}, Sijia Wang^{*}, Epigenome-wide association study on ambient PM2.5 exposure in Han Chinese, the NSPT study. *Environmental Research*, 2024, 247: 118276.
32. Xiyang Cai[#], Kaixuan Li[#], **Xia Meng**[#], Qinglin Song[#], Su Shi, Wenran Li, Yue Niu, Li Jin, Haidong Kan^{*}, Sijia Wang^{*}, Epigenome-wide association study on short-, intermediate- and long-term ozone exposure in Han Chinese, the NSPT study. *Journal of Hazardous Materials*, 2024, 463: 132780.
33. Su Shi, Weidong Wang, Xinyue Li, Chang Xu, Jian Lei, Yixuan Jiang, Lina Zhang, Cheng He, Tao Xue, Renjie Chen, Haidong Kan, **Xia Meng**^{*}, Evolution in disparity of PM2.5 pollution in China. *Eco-Environment & Health*, 2023, 2(4): 257-263.
34. Xinyue Li, Jovine Bachwenkizi, Renjie Chen, Haidong Kan, **Xia Meng**^{*}, Association between light at night and the risk of child death in sub-saharan Africa: a cross-sectional analysis based on DHS data. *BMC Public Health*, 2023, 23(1): 2366.
35. Qizheng Jiang[#], Yixiang Zhu[#], Yanjun Du, Jian Lei, Yingying Zhang, Xiaowei Xue, Haoran Dong, Yuanyuan Liu, Jinxia Yang, Minghao Wang, Yue Sun, Huaiyue Xu, Da Feng, An Liu, Jing Liu, Jing Cao, Yanwen Wang, Qinghua Sun, **Xia Meng**^{*}, Jianlong Fang^{*}, Renjie Chen, Tiantian Li, Haidong Kan, Evaluating the effectiveness of air purification in the real-world living and learning environment for pupils: A randomized, double-blind, crossover intervention trial. *Environmental Technology & Innovation*, 2023, 32: 103294.
36. Chang Pan[#], Chang Xu[#], Jiaqi Zheng, Ruixue Song, Chuanzhu Lv, Guoqiang Zhang, Huiqiong Tan, Yu Ma, Yimin Zhu, Xiaotong Han, Chaoqian Li, Shengtao Yan, Wen Zheng, Chunyi Wang, Jianbo Zhang, Yuan Bian, Jingjing Ma, Kai Cheng, Rugang Liu, Yaping Hou, Qiran Chen, Xiangkai Zhao, Bryan McNally, Renjie Chen, Haidong Kan, **Xia Meng**^{*}, Yuguo Chen^{*}, Feng Xu^{*}, Fine and coarse particulate air pollution and out-of-hospital cardiac arrest onset: a nationwide case-crossover study in China. *Journal of Hazardous Materials*, 2023, 457: 131829.
37. Xinyue Li[#], Peng Wang[#], Weidong Wang, Hongliang Zhang, Su Shi, Tao Xue, Jintai Lin, Yuhang Zhang, Mengyao Liu, Renjie Chen, Haidong Kan, **Xia Meng**^{*}, Mortality burden due to ambient nitrogen dioxide pollution in China: Application of high-resolution models. *Environment International*, 2023, 176: 107967.
38. Xiaoli Shen[#], **Xia Meng**[#], Cuiping Wang, Xiangfeng Chen, Qian Chen, Jing Cai, Jun Zhang, Qianlong Zhang^{*}, Lichun Fan^{*}, Prenatal exposure to fine particulate matter and newborn anogenital distance: a prospective cohort study. *Environmental Health*, 2023, 22(1): 16.
39. Liyi Zhang[#], Pengpeng Wang[#], Yuhang Zhou, Yukai Cheng, Jialin Li, Xirong Xiao, Chuanmin Yin, Jiufeng Li, **Xia Meng**^{*}, Yunhui Zhang^{*}, Associations of ozone exposure with gestational diabetes mellitus and glucose homeostasis: Evidence from a birth cohort in Shanghai, China. *Science of The Total Environment*, 2023, 857: 159184.
40. Su Shi, Weidong Wang, Xinyue Li, Yun Hang, Jian Lei, Haidong Kan, **Xia Meng**^{*}, Optimizing modeling windows to better capture the long-term variation of PM2.5 concentrations in China during 2005–2019. *Science of The Total Environment*, 2023, 854: 158624.
41. **Xia Meng**[#], Yun Hang[#], Xiuran Lin, Tiantian Li, Tijian Wang, Junji Cao, Qingyan Fu, Sagnik Dey, Kan Huang, Fengchao Liang, Haidong Kan, Xiaoming Shi^{*}, Yang Liu^{*}, A satellite-driven model to estimate long-term particulate sulfate levels and attributable mortality burden in China. *Environment International*, 2023, 171: 107740.
42. Lina Zhang[#], Shuyan Shi[#], Shenpeng Wu, Ying Yang, Jihong Xu, Ya Zhang, Qiaomei Wang, Haiping Shen, Yiping Zhang, Donghai Yan, Zuoqi Peng, Cong Liu, Weidong Wang, Yixuan Jiang, Su Shi, Renjie Chen, Haidong Kan, Yuan He^{*}, **Xia Meng**^{*}, Xu Ma^{*}, Effects of greenness on preterm birth: A national longitudinal study of 3.7 million singleton births. *The Innovation*, 2022, 3(3): 100241.

43. **Xia Meng**[#], Weidong Wang[#], Su Shi[#], Shengqiang Zhu, Peng Wang, Renjie Chen, Qingyang Xiao, Tao Xue, Guannan Geng, Qiang Zhang, Haidong Kan, Hongliang Zhang^{*}, Evaluating the spatiotemporal ozone characteristics with high-resolution predictions in mainland China, 2013–2019. *Environmental Pollution*, 2022, 299: 118865.
44. Lina Zhang[#], Chen Chen[#], Cong Liu, Yi Zhang, Jianlong Fang, Jingxiu Han, Feng Zhao, Peng Du, Qiong Wang, Jiaonan Wang, Wanying Shi, Weidong Wang, Su Shi, Renjie Chen, Haidong Kan, **Xia Meng**^{*}, Tiantian Li^{*}, Xiaoming Shi, Associations of residential greenness with peripheral and central obesity in China. *Science of The Total Environment*, 2021, 791: 148084.
45. Qingli Zhang, Cong Liu, Yafeng Wang, Jinquan Gong, Gewei Wang, Wenzhen Ge, Renjie Chen^{*}, **Xia Meng**^{*}, Yaohui Zhao, Haidong Kan, Associations of long-term exposure to ambient nitrogen dioxide with indicators of diabetes and dyslipidemia in China: A nationwide analysis. *Chemosphere*, 2021, 269: 128724.
46. **Xia Meng**[#], Cong Liu[#], Renjie Chen[#], Francesco Sera, Ana Maria Vicedo-Cabrera, Ai Milojevic, Yuming Guo, Shilu Tong, Micheline de Sousa Zanotti Stagliorio Coelho, Paulo Hilario Nascimento Saldiva, Eric Lavigne, Patricia Matus Correa, Nicolas Valdes Ortega, Samuel Osorio Garcia, Jan Kyselý, Aleš Urban, Hans Orru, Marek Maasikmets, Jouni J K Jaakkola, Niilo Rytty, Veronika Huber, Alexandra Schneider, Klea Katsouyanni, Antonis Analitis, Masahiro Hashizume, Yasushi Honda, Chris Fook Sheng Ng, Baltazar Nunes, João Paulo Teixeira, Iulian Horia Holobaca, Simona Fratianni, Ho Kim, Aurelio Tobias, Carmen Íñiguez, Bertil Forsberg, Christofer Åström, Martina S Ragetti, Yue-Liang Leon Guo, Shih-Chun Pan, Shanshan Li, Michelle L Bell, Antonella Zanobetti, Joel Schwartz, Tangchun Wu, Antonio Gasparrini, Haidong Kan^{*}, Short term associations of ambient nitrogen dioxide with daily total, cardiovascular, and respiratory mortality: multilocation analysis in 398 cities. *BMJ*, 2021: n534.
47. **Xia Meng**[#], Cong Liu[#], Lina Zhang, Weidong Wang, Jennifer Stowell, Haidong Kan^{*}, Yang Liu^{*}, Estimating PM2.5 concentrations in Northeastern China with full spatiotemporal coverage, 2005–2016. *Remote Sensing of Environment*, 2021, 253: 112203.
48. Lina Zhang, Changyuan Yang, Qingyang Xiao, Guannan Geng, Jing Cai, Renjie Chen, **Xia Meng**^{*}, Haidong Kan, A Satellite-Based Land Use Regression Model of Ambient NO2 with High Spatial Resolution in a Chinese City. *Remote Sensing*, 2021, 13(3): 397.
49. Ye Yao[#], Jinhua Pan[#], Zhixi Liu[#], **Xia Meng**[#], Weidong Wang, Haidong Kan^{*}, Weibing Wang^{*}, Ambient nitrogen dioxide pollution and spreadability of COVID-19 in Chinese cities. *Ecotoxicology and Environmental Safety*, 2021, 208: 111421.
50. Ye Yao[#], Jinhua Pan[#], Weidong Wang[#], Zhixi Liu[#], Haidong Kan, Yang Qiu, **Xia Meng**^{*}, Weibing Wang^{*}, Association of particulate matter pollution and case fatality rate of COVID-19 in 49 Chinese cities. *Science of The Total Environment*, 2020, 741: 140396.
51. Ye Yao[#], Jinhua Pan[#], Zhixi Liu[#], **Xia Meng**[#], Weidong Wang, Haidong Kan^{*}, Weibing Wang^{*}, Temporal association between particulate matter pollution and case fatality rate of COVID-19 in Wuhan. *Environmental Research*, 2020, 189: 109941.
52. Ye Yao[#], Jinhua Pan[#], Zhixi Liu[#], **Xia Meng**[#], Weidong Wang, Haidong Kan, Weibing Wang^{*}, No association of COVID-19 transmission with temperature or UV radiation in Chinese cities. *European Respiratory Journal*, 2020, 55(5): 2000517.
53. Cuiping Wang[#], Lipeng Hao[#], Cong Liu, Renjie Chen, Weidong Wang, Yichen Chen, Yining Yang, **Xia Meng**^{*}, Qingyan Fu^{*}, Zhekang Ying, Haidong Kan, Associations between fine particulate matter constituents and daily cardiovascular mortality in Shanghai, China. *Ecotoxicology and Environmental Safety*, 2020, 191: 110154.
54. Ying Zhou[#], **Xia Meng**[#], Jessica Hartmann Belle, Huanxin Zhang, Caitlin Kennedy, Mohammad Z. Al-Hamdan, Jun Wang, Yang Liu^{*}, Compilation and spatio-temporal analysis of publicly available total solar and UV irradiance data in the contiguous United States. *Environmental Pollution*, 2019, 253: 130-140.
55. Xinhua Ji[#], **Xia Meng**[#], Cong Liu[#], Renjie Chen, Yihui Ge, Lena Kane, Qingyan Fu, Weihua Li, Lap Ah. Tse, Haidong Kan, Nitrogen dioxide air pollution and preterm birth in Shanghai, China. *Environmental Research*, 2019, 169: 79-85.
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59. Jing Cai[#], **Xia Meng**[#], Cuicui Wang[#], Renjie Chen, Ji Zhou, Xiaohui Xu, Sandie Ha, Zhuohui Zhao, Haidong Kan^{*}, The cold effects on circulatory inflammation, thrombosis and vasoconstriction in type 2 diabetic patients. *Science of The Total Environment*, 2016, 568: 271-277.
60. Renjie Chen[#], **Xia Meng**[#], Ang Zhao, Cuicui Wang, Changyuan Yang, Huichu Li, Jing Cai, Zhuohui Zhao, Haidong Kan^{*}, DNA hypomethylation and its mediation in the effects of fine particulate air pollution on cardiovascular biomarkers: A randomized crossover trial. *Environment International*, 2016, 94: 614-619.
61. **Xia Meng**[#], Qingyan Fu[#], Zongwei Ma, Li Chen, Bin Zou, Yan Zhang, Wenbo Xue, Jinnan Wang, Dongfang Wang, Haidong Kan^{*}, Yang Liu^{*}, Estimating ground-level PM 10 in a Chinese city by combining satellite data, meteorological information and a land use regression model. *Environmental Pollution*, 2016, 208: 177-184.
62. Changyuan Yang[#], **Xia Meng**[#], Renjie Chen, Jing Cai, Zhuohui Zhao, Yue Wan^{*}, Haidong Kan^{*}, Long-term variations in the association between ambient temperature and daily cardiovascular mortality in Shanghai, China. *Science of The Total Environment*, 2015, 538: 524-530.
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