姓　名	康孟新
职称/职务	副教授，硕士生导师
出生年月	1986 年 09 月
学科方向	市政工程 土木工程
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教育背景

2013 年 9 月至 2019 年 1 月　天津大学　　　环境工程　　博士
2009 年 9 月至 2012 年 1 月　天津大学　　　环境工程　　硕士
2005 年 9 月至 2009 年 7 月　山东科技大学　环境工程　　学士

工作履历

2019 年 01 月至今　东北电力大学 建筑工程学院 副教授（校聘）
2016 年 08 月至今　东北电力大学 建筑工程学院 实验师
2013 年 01 月至 2016 年 08 月　东北电力大学 建筑工程学院 助理实验师

开设课程

1.本科生课程《水处理实验技术》
2.研究生课程《仪器分析》

研究领域

1.市政管网腐蚀机理研究
2.水环境质量安全仿真模拟研究
3.多相界面间污染物迁移转化过程解析研究

科研项目

1.吉林省教育厅 重金属在多相界面处迁移转化机理解析 2023 年 01 月至 2024 年 12 月

学术兼职

无

奖励荣誉

无

学术成果

论文

1. Wang DH, Liu KH, **Kang MX***, Han L. Experimental study on the bond performance between ultra-high performance concrete and steel bar under freeze-thaw cycles. Case Studies In Construction

Materials. 2024, (20):e03401 (SCI:2 ☒ IF=6.4)

2. Yu XM, Zhang HJ, Wang DH, Ju YZ, **Kang MX***, Ma YD. Chloride Ion Penetration Resistance of Reactive Powder Concrete with Mineral Admixtures. Materials Science-Medziagotyra. 2024, 30(2):233-238. (SCI:4 ☒ IF=0.9)

3. **Mengxin Kang**, Yabo Jia, Peng Guo, Yangzhong Ju, Hongji Zhang. Influence of Fly Ash Content on Macroscopic Properties and Microstructure of High-Performance Concrete. Buildings. 2024,14:3844. (SCI:3 ☒ IF=3.2)

4. Dehong Wang, Lei Han, **Mengxin Kang***, Ming Wan, Yanzhong Ju. Influence of corrosion on the bond performance of reinforcements and basalt fibre high strength concrete. Case Studies In Construction Materials. 2022, (17):e01394 (SCI:2 ☒ IF=6.4)

5. **Mengxin Kang**, Yimei Tian. Haiya Zhang, Cheng Wan. Spatial distribution characteristics and health risk assessment of heavy metals in surface sediment of the Hai River and its Tributaries in Tianjin, China. Water Science and Technology. 2021, 84(6):1487-1497 (SCI:4 ☒ IF=1.915)

6. **Mengxin Kang**, Yimei Tian. Haiya Zhang, Cheng Wan. Effect of hydrodynamic conditions on the water quality in urban landscape water. Water Science and Technology-Water Supply. 2021, 00(2):1-15 (SCI:4 ☒ IF=1.275).

7. Wang Dehong, Ma Yidan, **Kang mengxin**, Ju Yanzhong, Zeng Cong. Durability of reactive powder concrete containing mineral admixtures in seawater erosion environment. Construction and Building Materials. 2021, 306:1-14 (SCI:4 ☒ IF=6.141)

8. **Mengxin Kang**, Yimei Tian, Haiya Zhang, Qian Lan, Haiya Zhang. Distribution, ecological risk assessment, and source identification of heavy metals in sediments from Hai River and its tributaries, Tianjin, China. Water Air and Soil Pollution. 2020, 231(2): 38 (SCI:4 ☒ IF=2.574)

9. **Mengxin Kang**, Yimei Tian, Sen Peng, Mengqin Wang. Effect of dissolved oxygen and nutrient levels on heavy metal contents and fractions in river surface sediment. Science of the Total Environment. 2019, 648, 861-870. (SCI:2 ☒ IF=4.610, DOI:10.1016/j.scitotenv.2018.08.201).

10.Haiya Zhang, Yimei Tian, **Mengxin Kang**. Effects of chlorination/chlorine dioxide disinfection on biofilm bacterial community and corrosion process in a reclaimed water distribution system. Chemosphere, 2019, 215, 62-73. (SCI: 2 ☒ IF=4.427, DOI: 10.1016/j.chemosphere.2018.09.181).

11.Haiya Zhang, Yimei Tian, Hao Guo, **Mengxin Kang**, Yarong Song. Electrochemical corrosion of

cast iron pipes in reclaimed water containing disinfectant. International Journal of Electrochemical Science. 2018, 13, 9069-9084. (SCI:4 区 IF=1.369, DOI: 10.20964/2018.09.74).

12. **Mengxin Kang**, Sen Peng, Yimei Tian, Haiya Zhang. Efforts of dissolved oxygen and nutrient loading on phosphorus fluxes at the sediment-water interface in the Hai River Estuary, China. Marine Pollution Bulletin. 2018, 130, 132-139. (SCI:3 区 IF=3.241, DOI: 10.1016/j.marpolbul.2018.03.029)

13.Hao Guo, Yimei Tian, Hailiang Shen, Yi Wang, **Mengxin Kang**. A landscape lake flow pattern design approach based on automated CFD simulation and parallel multiple objective optimization. Water Science and Technology. 2016, 74(5):1155-1162. (SCI:4 区 IF=1.247, DOI: 10.2166/wst.2016.308)

14.**康孟新**, 田一梅, 司彦杰, 优化调度模型在城市景观水体中的应用研究, 水力发电学报, 2015, 34 (9):39-45. (DOI: 10.11660/slfdxb.20150905)

专利

1. 康孟新, 万成, 王德弘. 一种鼓风纤维分散装置. 专利授权号：CN 111391135 B

2. 康孟新, 万成, 王德弘. 原位水生态营养盐沉积物-上覆水界面迁移转化模拟系统.专利申请号：CN 111766181 B