Kejin Wang, PhD, PE	
Distinguished Professor, Department of Civil, Construction and Environmental Engineering Iowa State University 488 Town Engineering 813 Bissel Road, Ames, IA 50011	515-294-2152 kejinw@iastate.edu IOWA STATE UNIVERSITY Civil, Construction, and Environmental Engineering

EDUCATION

- PhD, Civil Engineering, University of California, Berkeley, CA, 1994
- MS, Civil Engineering, Chinese Academy of Sciences (Beijing, China), 1985
- BS, Civil Engineering, Hefei University of Technology (Hefei, China), 1982

CERTIFICATIONS

- Professional Engineer (PE) License, State of Illinois

SELECTED RESEARCH PROJECTS

Dr. Wang has conducted over 70 research projects, with a total of approximately $20M, since 2000. Her current and recent research projects cover the following topics: (1) bond strength and durability of concrete overlays (latex-modified, epoxy, and convectional overlays) (two projects); (2) freeze-thaw durability and chloride intrusion of high-performance concrete; (3) heat of hydration and temperature prediction of mass concrete structures; (4) alternative cement (calcined clay cement blends, biochar cement, and geopolymer); and (5) 3D printing concrete mix development and characterization.

SELECTED PUBLICATIONS

Dr. Wang has published 240 peer-reviewed journal papers and 50 other peer-reviewed papers. She has also edited 8 books (1 monograph, 2 conference proc., and 5 special publications).

- Qu, F., H. Zhao, Q. Wang, K. Wang, and W. Li. Mitigating Chloride Ion Ingress in Cement Composite using Nanosilica. *ACI Materials Journal* (in review).
- Fu, C., R. He, and K. Wang. 2023. The influences of corrosion degree and uniformity on bond strength and cracking pattern of cement mortar and PVA-ECC. *Journal of Materials in Civil Engineering*, Vol. 35, No. 6.
- Ling, Y., G. Lomboy, Z. Ge, and K. Wang. 2023. Monitoring of bridge overlay using shrinkage modified high performance concrete based on strain and moisture evolution. *Structural Monitoring & Maintenance*, Vol. 10, No. 2, pp. 155–174.
- Adil, G., S. Sadati, Y. Ling, P. Taylor, K. Wang, and J. T. Kevern. 2022. Penetrating Sealer Effects on Durability Performance of Concrete Joints. *ACI Materials Journal*, Vol. 119, No. 9.
- Zhao, H., Y. Hu, Z. Tang, K. Wang, Y. Li, and W. Li. 2022. Deterioration of concrete under coupled aggressive actions associated with load, temperature and chemical attacks: A comprehensive review. *Construction and Building Materials*, Vol. 322.
- Li, G., Y. Ding, T. Gao, Y. Qin, Y. Lv, and K. Wang. 2021. Chloride resistance of concrete containing nanoparticle-modified polymer cementitious coatings. *Construction and Building Materials*, Vol. 299.

- Xue, C., W. Li, Z. Luo, and K. Wang. 2021. Effects of chloride on self-healing behavior of cementitious composite with crystalline admixture and MgO expansive agent. *Cement and Concrete* Research, Vol. 139.
- Hong, J., K. Wang, Z. Xiong, M. Gong, C. Deng, G. Peng, and H. Zhu. 2020. Investigation into the freeze-thaw durability of semi-flexible pavement mixtures. *Road Materials and Pavement Design*, Vol. 21, No. 8, pp. 2198–2214.
- Cutler, H. E., K. Wang, V. R. Schaefer, and J. T. Kevern. 2010. Resistance of Portland Cement Pervious Concrete to Deicing Chemicals. *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2164, pp. 98–104.
- Wang, K., D. Nelsen, and W. Nixon. 2006. Effects of Deicing Chemicals on Damage of Concrete Materials. *Cement and Concrete Composites*, Vol. 28, No. 2, pp. 173–188.

PROFESSIONAL AFFILIATIONS, HONORS, AND AWARDS

- Anson Marston Distinguished Professor in Engineering, Iowa State University
- Grace Miller Wilson and T. Wilson Endowed Professor of Engineering, Iowa State University
- Member, Academy of Distinguished Alumni (ADA), University of California, Berkeley
- Fellow, American Concrete Institute
- Senior Editor, *Journal of Construction and Building Materials*
- Associate Editor, *Journal of Materials in Civil* Engineering, American Society of Civil Engineers
- Associate Editor, *Materials Journal*, American Concrete Institute
- Associate Editor, *Frontiers in Materials: Structural Materials*
- Editorial Board Member, *Journal of Advances in Civil Engineering Materials*, ASTM International