

# RESUME

First name : **Tongyuan** Last name : **NI**  
Department : **College of Civil Engineering / Laboratory**  
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Featured research area /Skills:

**High-Performance Concrete Materials and Structure**

**Green Building Materials and Structure**

**Concrete Crack Detection and Control**

Introduction :

From September 1991 to July 1994, he graduated from Zhejiang University of Technology, majoring in *Road and Bridge*. From July 2009 To May 2005, College of Architectural Engineering, Civil and Architectural Engineering of Zhejiang University of Technology, and obtained the master's degree of engineering in civil and Architectural Engineering. In August 2020, College of Materials, School of Materials, Zhejiang University of Technology and obtained his doctor's degree in Engineering.

**Projects:**

(1) *Development and Application of Permeable Ecological Paving Material and Technology for Sludge Ceramsite*, Zhejiang Provincial Natural Science Foundation of China (Grant number: LGF20E080021)

(2) *Development and Application of Key Technologies for Crack Detection of Bridge Structures Based on Smart Phone*, Engineering Quality Supervision Bureau of Zhejiang Transportation Department (Grant number: ZJ201809).

**Articles**

(1) *Tongyuan Ni, Feixi XU, Chao Gao, Yang YANG, Wenbin MA, Deyu KONG: Chemical activation of pozzolanic activity of sludge incineration ash and application as row bonding materials for pervious ecological brick*[J].Construction and Building Materials. 2022:127199

-127212. (SCI, JCR Q1 ☒, IF=6.141)

(2) *Tongyuan Ni*, Wenbin Ma, Yang Yang *et.al.* *Study on Properties of Composite Cementitious Materials which Compounded with Cement and Sludge Incineration Ash*[J]. Journal of Building Materials. 2022:1-11. (in Chinese). (EI)

(3) *Tongyuan Ni*, Ruoxu Zhou, Chunping Gu, Yang Yang: *Measurement of concrete crack feature with android smartphone APP based on digital image processing techniques*[J]. Measurement. 2020 (1):107093. (SCI, JCR Q1, IF=3.927, Citation 13)

(4) *Tongyuan Ni*, Ruoxu Zhou, Yang Yang *et.al.* *Research on Detection of Concrete Surface Cracks Based on Smartphone Image* [J]. Acta Metrologica Sinica, 2021(02):163-170. (in Chinese, Citation 3)

(5) *Tongyuan NI*, ZHANG Wuyi, YANG Yang, *et.al.* *Research progress of bridge Fracture detection technology based on Image Processing Technology* [J]. Urban roads and bridges and flood control .2019(07):258-263+29-30. (in Chinese, Citation 7)

(6) *Tongyuan Ni*, Wenbin Ma, Yang Yang *et.al.*: *Interface reinforcement and a new characterization method for pore structure of pervious concrete* [J]. Construction and Building Materials. 2021. 267:121052. (SCI, JCR Q1, IF=6.141, Citation 6)

(7) *Tongyuan NI*, YANG Yang, WU Dandan, and JIANG Chenhui. *Influences of Environmental Conditions on the Cracking Tendency of Dry-Mixed Plastering Mortar*. [J] Advances in Materials Science and Engineering, (2018): 1-9. (SCI, JCR Q4, EI, Citation 4)

(8) *Tongyuan NI*, YANG Yang, WU Yanping, *et.al.* *Experimental Study on Early-Age Tensile Creep of High Strength Concrete under Different Curing Temperature* [J]. Journal of Building Materials, 21(05), 733-740. (EI) (in Chinese)

(9) *Tongyuan NI*, Yang Yang, Chunping Gu *et.al.* *Early-Age Tensile Basic Creep Behavioral Characteristics of High-Strength Concrete Containing Admixtures*[J]. Advances in Civil Engineering. 2019. 2019:1-11. (SCI, Q3)

### **Master-graduate student training**

Cultivate 2 graduate students, and guide 7 graduate students.