

Biography

Dr. Min Wu is currently an Associate Professor at the Department of Civil and Architectural Engineering, Aarhus University. He has combined academic and industrial experience. His main research interests are related to different aspects of materials especially for construction uses, including interaction between CO₂ and construction materials, microstructure and properties of cement-based materials, durability design and service life modeling of reinforced concrete structures, novel and sustainable construction materials, recycling and waste utilization, self-healing and self-repairing materials, etc. The research aims to improve our understanding of the mostly used construction materials, i.e. cement based materials, and to create more synergy between two major aspects of construction materials, i.e. sustainability and durability.

Education Background

2011 – 2014 Ph.D, Construction materials, Technical University of Denmark
2005 – 2008 M.Sc (+ MPhil; 2.5 years research degree), Material Science, Tongji University
2001 – 2005 BSc, Material science and engineering, East China Institute of Technology

Professional Experience

2022-now Associate Professor, Aarhus University
2018-2022 Assistant Professor (Tenure Track) , Aarhus University
2014-2018 Durability specialist, COWI A/S, Denmark
2014 Postdoc scientist, Mines Paris-Tech, France
2010-2011 Research assistant, Delft University of Technology, the Netherlands
2008-2010 Scientist, BASF Construction Chemicals Co. Ltd, Asia Pacific

Teaching

Advanced Material Technology (Master course, course responsible)

Advanced Concrete Technology and Structures (Master course, course responsible)

Research Methods in Civil and Architectural Engineering (Master course)

Materiale og produktionsteknologi (Materials and Production Technology in English, Bachelor course, course responsible)

Selected Research Projects

EasyHeal: An easy but robust self-healing concept for cement

SCBarrier: An innovative concept of a barrier material for well abandonment

CEMETCORR: Cement-metal barrier and interface performance under CO₂ storage conditions

HydroAb: Understanding concrete abrasion damage of hydraulic structure