

# Xing YIN 银星

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## CURRENT POSITION

<b>Zhejiang University</b>	Hangzhou, Zhejiang
Postdoctoral Fellow (Advisor: Prof. Qinghua Li)	Oct. 2023-Present

## EDUCATION

<b>Zhejiang University</b>	Hangzhou, Zhejiang
PhD, Structural Engineering	Sep.2023
Dissertation: “ <i>Impact Performance of High Toughness Concrete - Reactive Powder Concrete Composite Slabs</i> ”	
Advisor: Prof. Shilang Xu (Member of Chinese Academy of Sciences)	
<b>Ocean University of China</b>	Qingdao, Shandong
BEng, Civil Engineering	Jun.2017

## RESEARCH INTERESTS

Dynamic mechanics behaviours of engineering materials [e.g., dynamic fracture, and spallation, etc.]  
Dynamic response of engineering structures [e.g., low-velocity impact, explosion, and penetration, etc.]  
Constitutive models of cementitious materials [e.g., KCC, CSC, and RHT, etc.]  
Advanced numerical approach [e.g., meshfree/particle method]

## SELECTED GRANTS AND AWARDS

The China National Postdoctoral Program for Innovative Talent	2024
Grant No. BX20240320	

## WORKS IN PROGRESS

Explosion Protective Performance of Advanced Engineering Structures and Materials	Oct.2023 - Oct.2025
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## FEATURED PUBLICATIONS

**Yin, X.**, Li, Q., Chen, B., & Xu, S. (2023). An improved calibration of Karagozian & Case concrete/cementitious model for strain-hardening fibre-reinforced cementitious composites under explosion and penetration loadings. *Cement and Concrete Composites*, 137, 104911. (ESI Highly Cited Paper)

**Yin, X.**, Li, Q., Wang, Q., Chen, B., Shu, C., & Xu, S. (2024). Mesoscale numerical investigation of dynamic spalling fracture in toughness concrete. *International Journal of Mechanical Sciences*, 264, 108826.

**Yin, X.**, Li, Q., Xu, X., Chen, B., Guo, K., & Xu, S. (2023). Investigation of continuous surface cap model (CSCM) for numerical simulation of strain-hardening fibre-reinforced cementitious composites against low-velocity impacts. *Composite Structures*, 304, 116424. (ESI Highly Cited Paper)

**Yin, X.**, Li, Q., Wang, Q., Chen, B. & Xu, S. (2024). Near range explosion resistance of UHPFRC panels in wide scaled distances: Experimental study and stochastic numerical modelling. *International Journal of Impact Engineering*. 192, 105028.

**Yin, X.**, Li, Q., Wang, Q., Chen, B., & Xu, S. (2023). Experimental and numerical investigations on the stress waves propagation in strain-hardening fiber-reinforced cementitious composites: Stochastic analysis using polynomial chaos expansions. *Journal of Building Engineering*, 74, 106902.

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**Yin, X.**, Li, Q., Wang, Q., Reinhardt, H.-W., & Xu, S. (2023). The double-K fracture model: A state-of-the-art review. *Engineering Fracture Mechanics*, 277, 108988.

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## REFERENCES

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