

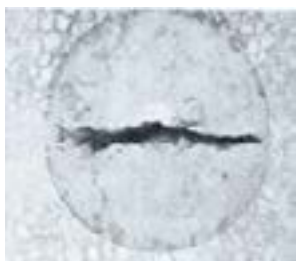
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**Analysis on impact resistance of waste fiber recycled concrete slab**

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The impact performance of waste fiber recycled concrete slab is studied by ABAQUS finite element simulation. The studies show that the cracking form of waste fiber recycled concrete slabs are spread from the middle to the periphery, and the addition of waste fibers makes the stress distribution of the slabs uniform. With the increase of waste fibers incorporation, the number of recycled concrete slabs cracks is increasing when they are subjected to impact force, which indicates that the addition of waste fibers can effectively improve the impact resistance of recycled concrete. By comparing the damage patterns of recycled concrete slabs with different fibers contents, it can be observed that the incorporation of waste fibers can delay the formation and development of cracks caused by impact forces.

**Recent Publications**

1. Zhou JH, Kang TB, Wang FC (2017) Experimental study on the seismic behaviors of wasted fiber recycled concrete frame joints. *Journal of Vibration and Shock* 36:235-242.
2. Wu XX, Zhou JH, Kang TB, Wang FC (2019) Laboratory Investigation on the Shrinkage Cracking of Waste Fiber-Reinforced Recycled Aggregate Concrete. *Materials* 12:1196.
3. Zhou JH, Kang TB, Wang FC (2017) Finite Element Analysis of Increasing Column Section and CFRP Reinforcement Method under Different Axial Compression Ratio. *Materials Science and Engineering 4th AMME*.
4. Zhou JH, Kang TB, Wang FC (2019) Bearing Capacity of Waste Fiber Recycled Concrete Slabs under Uniformly Distributed Load. *Science Technology and Engineering* 19:221-226. (in chinese)
5. Zhou JH, Kang TB, Wang FC (2017) Pore Structure and Carbonation Fractal Characteristics of Waste Fiber Recycled Concrete. *Bulletin of the Chinese Ceramic Society* 36:1686-1692. (in chinese)

**Biography**

Tianbei Kang has her expertise in waste fiber-Reinforced Recycled Aggregate Concrete. As a type of green concrete which can be reused for waste fibers and construction waste, waste fiber recycled concrete not only promotes the application of concrete waste, but also is crucial to protect the ecological environment.