Dong Zhang

List of Publications by Year
in descending order

18 papers	595 citations	758635 12 h-index	887659 17 g-index
18 all docs	18 docs citations	18 times ranked	354 citing authors

#	Article	IF	Citations
1	On the mechanism of prevention of explosive spalling in ultra-high performance concrete with polymer fibers. Cement and Concrete Research, 2018, 113, 169-177.	4.6	95
2	Effect of natural fibers on thermal spalling resistance of ultra-high performance concrete. Cement and Concrete Composites, 2020, 109, 103512.	4.6	76
3	Effect of various polymer fibers on spalling mitigation of ultra-high performance concrete at high temperature. Cement and Concrete Composites, 2020, 114, 103815.	4.6	59
4	Printability and fire performance of a developed 3D printable fibre reinforced cementitious composites under elevated temperatures. Virtual and Physical Prototyping, 2019, 14, 284-292.	5.3	55
5	Multi-response optimization of post-fire performance of strain hardening cementitious composite. Cement and Concrete Composites, 2017, 80, 80-90.	4.6	49
6	Spalling resistance and mechanical properties of strain-hardening ultra-high performance concrete at elevated temperature. Construction and Building Materials, 2021, 266, 120961.	3.2	48
7	Combined effect of flax fibers and steel fibers on spalling resistance of ultra-high performance concrete at high temperature. Cement and Concrete Composites, 2021, 121, 104067.	4.6	43
8	Effect of microbially induced calcite precipitation treatment on the bonding properties of steel fiber in ultra-high performance concrete. Journal of Building Engineering, 2022, 50, 104132.	1.6	37
9	Effect of lateral restraint and inclusion of polypropylene and steel fibers on spalling behavior, pore pressure, and thermal stress in ultra-high-performance concrete (UHPC) at elevated temperature. Construction and Building Materials, 2021, 271, 121879.	3.2	35
10	Effect of spatial distribution of polymer fibers on preventing spalling of UHPC at high temperatures. Cement and Concrete Research, 2021, 140, 106281.	4.6	33
11	Effects of fibers on the mechanical properties of UHPC: A review. Journal of Traffic and Transportation Engineering (English Edition), 2022, 9, 363-387.	2.0	17
12	A new in-situ growth strategy to achieve high performance graphene-based cement material. Construction and Building Materials, 2022, 335, 127451.	3.2	16
13	On measuring techniques of pore pressure in concrete at elevated temperature. Cement and Concrete Composites, 2020, 114, 103737.	4.6	10
14	Fire performance of ultra-high performance concrete: effect of fine aggregate size and fibers. Archives of Civil and Mechanical Engineering, 2022, 22, 1.	1.9	7
15	Axial compressive behaviors of reinforced concrete composite column with precast ultra-high performance concrete (UHPC) jacket. Journal of Building Engineering, 2022, 48, 103956.	1.6	5
16	Enhancing mechanical properties of engineering cementitious composite by defoamer. Construction and Building Materials, 2022, 339, 127670.	3.2	5
17	Investigation on the quasi-static mechanical properties and dynamic compressive behaviors of ultra-high performance concrete with crumbed rubber powders. Materials and Structures/Materiaux Et Constructions, 2022, 55, 1.	1.3	4
18	Enhancing splitting tensile strength of biocarbonated reactive magnesia-based sand using polypropylene fiber reinforcement. Acta Geotechnica, 2022, 17, 4761-4768.	2.9	1