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A concrete constitutive model considering coupled effects of high temperature and high strain rate

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## ACCEPTED MANUSCRIPT

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- 2 A constitutive model considering coupled effects of high temperature and high strain rate for
- 3 concrete is proposed.
- Triaxial test data of concrete after different temperatures were used to define the yield
- 5 criterion of the proposed model at high temperatures.
- 6 Dependent influence of high temperature and high strain rate on mechanical behaviour of
- 7 concrete was discovered.
- 8 The numerical models adopted the proposed model shown good agreement with the test data.

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