

## REFEREED PUBLICATIONS

- **Smith J**, Rampit R, Parey R. "Characterization of Vibration Effects on the Internal Structure and Strength of Regular and High Strength Recycled Concrete" (2018) *6th International Conference on Durability and Concrete Structures*.
- **Smith J**, Cusatis G. "Numerical Analysis of Projectile Penetration and Perforation of Plain and Fiber Reinforced Concrete Slabs" (2016) *Int. Journal for Num. and Analytical Methods in Geomechanics*.  
doi: 10.1002/nag.2555
- **Smith J**, Jin C, Pelessone D, Cusatis G. "Dynamic Simulations of Concrete and Concrete Structures through the Lattice Discrete Particle Model" (2015) *ASCE Structures Congress*. pp 63–74. doi: 10.1061/9780784479117.006
- Wendner R, Vorel J, **Smith J**, Bažant Z, Cusatis G. "Characterization of Concrete Failure Behavior: A Comprehensive Experimental Database for the Calibration and Validation of Concrete Models." (2015) *Materials and Structures*. pp 3603–3626 48 (11). doi 10.1617/s11527-014-0426-0.
- **Smith J**. "Characterization of Ultra-High Performance Concrete for Impact Resistant Structures." (2014) *Doctoral Thesis, Northwestern University, Evanston, IL*.
- **Smith J**, Cusatis G, Pelessone D, Landis E, O'Daniel J, Baylot J. "Discrete Modeling of Ultra High Performance Concrete with Application to Projectile Penetration" (2013) *Int. Journal of Imp. Eng.* pp 13–32 (65). doi 10.1016/j.ijimpeng.2013.10.0.
- **Smith J**, Cusatis G, Pelessone D, O'Daniel J. "Discrete Modeling of Projectile Penetration of Ultra-High Performance Concrete." (2013) *Electronic Proceedings (CD) of the International Symposium on the Interaction of the Effects of Munitions with Structures (ISIEMS), Potsdam, Germany*
- **Smith J**, Cusatis G, Pelessone D, O'Daniel J, Baylot J. "Calibration and Validation of the Lattice Discrete Particle Model for Ultra High-Performance Fiber-Reinforced Concrete." (2011) *ASCE Structures Congress. 20th Analysis and Computation Specialty Conference*. pp. 394–405. doi: 10.1061/9780784412374.035.
- **Smith J**. "Discrete Modeling of Ultra High-Strength, Fiber-Reinforced Concrete." (2011) *Master's Thesis, Rensselaer Polytechnic Institute, Troy, NY*.

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