



## Alireza Pachenari

Assistant Professor

College: Faculty of Engineering

Department: Civil Engineering

### Education

Degree	Graduated in	Major	University
BSc	2007	Civil Engineering	Amirkabir University of Technology (Tehran Polytechnic)
MSc	2009	Structural Engineering	Amirkabir University of Technology (Tehran Polytechnic)
Ph.D	2014	Structural Engineering	Amirkabir University of Technology (Tehran Polytechnic)

### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
Department of Civil Engineering	Assistant Professor	Tenure Track	Full Time	12

### Papers in Conferences

1. Alireza Pachenari, Elahe Pirayande, and Zahra Pachenari. Assessment of a RC frame response to differential settlements in various column locations. 10th National Congress on Civil Engineering, Tehran, 19-24 Feb 2017.
2. Alireza Pachenari; Amirhossein Sadeghpour, and Vahid Mozaffari. Effect of Geometric Form and Curvature of Dome Shells on Structural Performance. International Conference on Architecture and Mathematics, Kashan, 16-17 Feb 2017.

### Papers in Journals

1. Alireza Abolhasani, Alireza Pachenari, Seyed Mohammad Razavian, Mohammad Mahdi Abolhasani, Towards new generation of electrode-free conductive cement composites utilizing nano

- carbon black, *Construction and Building Materials*, Vol. 323, No. 126576, 2022 02 01.
2. Alireza Abolhasani , Alireza Pachenari , Seyed Mohammad Razavian , Mohammad Mahdi Abolhasani, Towards new generation of electrode-free conductive cement composites utilizing nano carbon black, *Construction and Building Materials*, Vol. 323, No. 126576, 2022 02 01.
  3. Alireza Abolhasani , Alireza Pachenari , Seyed Mohammad Razavian , Mohammad Mahdi Abolhasani, Towards new generation of electrode-free conductive cement composites utilizing nano carbon black, *Construction and Building Materials*, Vol. 323, No. 126576, 2022 02 01.
  4. Saeid Tavassol, Alireza Pachenari, Aidin Mohammadi, An analytical model on compressive arch action capacity of 3D beam-column sub-assemblages under failure of one or two adjacent interior columns, *Engineering Failure Analysis*, Vol. 115, No. 104690, 2020 06 20.
  5. Alireza Pachenari and Shahab Bagherzadeh, Analytical Study of Flat Slab Collapse Mechanisms due to Overloading in a Cluster of Exterior Panels, *KSCE Journal of Civil Engineering*, Vol. 23, No. 1, pp. 191–199, 01 01 2019, ISI.
  6. Esam Hewayde, Alireza Pachenari, and Hussin Al , & Eleaj, Resistance of Recycled Aggregate Concrete (RAC) Subjected to Drying-Wetting Cycles to Attack of Magnesium and Sodium Sulfates, *Journal of Engineering*, January 2020.
  7. Aidin Mohammadi, Alireza Pachenari \*, Behnam Sadeghi, Numerical study on the behavior and bearing mechanism of flat slabs in column loss events, *Advances in Civil Engineering*, Vol. 2021, 2021 02 08, ISI.
  8. Alireza Pachenari, Elahe Pirayande, and Zahra Pachenari, Influence of increasing differential settlement under columns on a RC frame response considering different support conditions, *Journal of Structural and Construction Engineering*, 08 01 2018.
  9. Aidin Mohammadi, Alireza Pachenari \*, Behnam Sadeghi, Stress distribution and failures in partially overloaded support-removed flat slab floors, *Numerical Methods in Civil Engineering*, 2020 01 20.
  10. Alireza Pachenari, Abolghassem Keramati, and Zahra Pachenari, Investigation of progressive collapse in intermediate RC frame structures, *The Structural Design of Tall and Special Buildings*, Vol. 2, No. 22, pp. 116 125, 10 02 2013.
  11. Alireza Pachenari and Abolghassem Keramati, A Method for Modeling Successive Removal of Columns in Macromodeling Frameworks, *Structural Engineering International*, Vol. 3, No. 24, pp. 372-380, 01 08 2014.
  12. Alireza Pachenari and Abolghassem Keramati, Progressive Collapsed zone extent estimation in Two-Way Slab Floors by Yield Line Analysis, *Magazine of Concrete Research*, Vol. 13, No. 66, pp. 685-696, 01 07 2014.
  13. Mahdi Arezoomand, Alireza Pachenari. Load redistribution pattern in a RC moment frame due to excavation-induced 3D ground surface settlement profiles. *Journal of Structural and Construction Engineering*, ۲۰۲۱ ۰۴ ۰۷.