- Nader Zad and Dr. Hani Melhem, "Modeling Plastic Damage of Reinforced Concrete in Finite-Element Applications," Practice Periodical on Structural Design and Construction, ASCE, Vol 28, Issue 2, May 2023 (15 pp.) <u>https://doi.org/10.1061/PPSCFX.SCENG-1249</u>.
- Nader Zad and Dr. Hani Melhem, "Response Modal Nonlinear Time-History Dynamic Analyses of the Northridge Earthquake of a Two- Storied Steel Structure with Rubber Isolator and Fixed-base Systems," Current Trends in Civil and Structural Engineering, Vol 8, Issue 2 (November 2021). <u>http://dx.doi.org/33552/CTCSE.2021.08.000683</u>, pp1-14.
- Nader Zad and Hani Melhem, "Effects of Shear Walls on a Typical Four-Story Reinforced Concrete Structure Subjected to Severe Earthquake Events," Civil Engineering Journal, Vol. 30, No. 4 (December 2021). https://doi.org/14311/CEJ.2021.04.0060, pp 779-795.
- Nader Zad and Hani Melhem, "A Parametric Study on the Effects of Shear Wall Locations in a Typical Five-Story Reinforced Concrete Structure Subjected to a Severe Earthquake," Current Trends in Civil and Structural Engineering, Vol 7, Issue 5 (September 2021). http://dx.doi.org/10.33552/CTCSE.2021.07.000675, pp 1-15.
- Hamed Enayati, Nader Zad, and **Hani Melhem**, "An Investigation of the Effect of Cement Replacement with Geopolymer in Geopolymer Lightweight Aggregate Concrete," International Journal of Recent Research Aspects, ISSN:2349-7688, Vol 7, Issue 1, March 2020, pp. 1-8.
- Amin Moghadam, Hani G. Melhem, and Asad Esmaeily. "A Proof-of-Concept study on a Proposed Ambient Vibration-Based Approach to Extract Pseudo-Free-Vibration Response," Elsevier Engineering Structures, Vol. 212, 1 June 2020, 110517, pp. 1-11.
- Amin Moghadam and **Hani Melhem**, Modification and Verification of an Ambient-Vibration-Based Approach for Damage Detection of Structures. Proceedings of 9th International Conference of the International Society for Structural Health Monitoring of Intelligent Infrastructure, St. Louis, Missouri, Aug 4-7, 2019. (6 pages).
- Moghadam, A., and **Melhem, H.** (2019, January). *Analytical and Experimental Verification of a Proposed Ambient Vibration-Based Approach to Extract Pseudo-Free-Vibration Response*. Presented at the Society for Experimental Mechanics, Orlando, Florida, USA. 7 pp.
- Moghadam A., Esmaeily A., & Melhem H. (2018, May 28). *A numerical study on a proposed signal processing-based approach for damage detection of steel structures*. Presented at the Engineering Mechanics Institute (EMI), Massachusetts Institute of Technology, Boston, USA.