

# Mohammadreza Vafaei

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

495  
citations

687220

13  
h-index

752573

20  
g-index

46  
all docs

46  
docs citations

46  
times ranked

343  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Effect of battensâ€™ spacing on the cyclic response of built-up columns. <i>Thin-Walled Structures</i> , 2022, 172, 108862.  | 2.7 | 0         |
| 2  | Predictive modeling of compressive strength of sustainable rice husk ash concrete: Ensemble learner optimization and comparison. <i>Journal of Cleaner Production</i> , 2022, 348, 131285.   | 4.6 | 51        |
| 3  | Sensor clustering-based approach for structural damage identification under ambient vibration. <i>Automation in Construction</i> , 2021, 121, 103433.  | 4.8 | 14        |
| 4  | Mechanical Behaviour of Metallic Yielding Dampers with Different Aspect Ratios. <i>Latin American Journal of Solids and Structures</i> , 2021, 18, .   | 0.6 | 1         |
| 5  | An Innovative Tuned Liquid Damper for Vibration Mitigation of Structures. <i>International Journal of Civil Engineering</i> , 2021, 19, 1071-1090.   | 0.9 | 5         |
| 6  | Cyclic response of reinforced concrete frames partially infilled with relatively weak masonry wall. <i>Journal of Building Engineering</i> , 2021, , 103722.   | 1.6 | 3         |
| 7  | The accuracy of the lumped plasticity model for estimating nonlinear behavior of reinforced concrete frames under gradually increasing vertical loads. <i>Structural Concrete</i> , 2020, 21, 65-80.                               | 1.5 | 16        |
| 8  | Efficiency of CFRP strips as a substitute for carbon steel stirrups in RC columns. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.   | 1.3 | 4         |
| 9  | Experimental and numerical investigations on the seismic response of built-up battened columns. <i>Journal of Constructional Steel Research</i> , 2020, 174, 106296.   | 1.7 | 7         |
| 10 | Seismic Performance Evaluation of an ATC Tower through Pushover Analysis. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2019, 29, 144-149. | 0.5 | 3         |
| 11 | Experimental study on the efficiency of tuned liquid dampers for vibration mitigation of a vertically irregular structure. <i>Mechanical Systems and Signal Processing</i> , 2019, 114, 84-105.                                    | 4.4 | 20        |
| 12 | Application of two-dimensional wavelet transform to detect damage in steel plate structures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 146, 912-923.                                      | 2.5 | 29        |
| 13 | Experimental study on the efficiency of tapered strip dampers for the seismic retrofitting of damaged non-ductile RC frames. <i>Engineering Structures</i> , 2019, 199, 109601.  | 2.6 | 15        |
| 14 | The relative importance of strong column-weak beam design concept in the single-story RC frames. <i>Engineering Structures</i> , 2019, 185, 159-170.   | 2.6 | 8         |
| 15 | Performance of reinforced concrete buildings and wooden structures during the 2015 Mw 6.0 Sabah earthquake in Malaysia. <i>Engineering Failure Analysis</i> , 2019, 102, 351-368.  | 1.8 | 39        |
| 16 | Analytical calculation on shear capacity of RC columns internally confined with CFRP strips. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 220, 012023.  | 0.2 | 0         |
| 17 | Seismic fragility of concrete box girder bridges in Malaysia. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 513, 012019.   | 0.3 | 11        |
| 18 | Experimental damage assessment of support condition for plate structures using wavelet transform. <i>Journal of Theoretical and Applied Mechanics</i> , 2019, 57, 501-518.   | 0.2 | 5         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Seismic Fragility of Tall Concrete Wall Structures in Malaysia under Far-Field Earthquakes. Open Civil Engineering Journal, 2019, 13, 140-146.   | 0.4 | 5         |
| 20 | Prediction of strain values in reinforcements and concrete of a RC frame using neural networks. International Journal of Advanced Structural Engineering, 2018, 10, 29-35.             | 1.3 | 4         |
| 21 | Adequacy of first mode shape differences for damage identification of cantilever structures using neural networks. Neural Computing and Applications, 2018, 30, 2509-2518.             | 3.2 | 14        |
| 22 | Seismic retrofit of masonry wall infilled RC frames through external post-tensioning. Bulletin of Earthquake Engineering, 2018, 16, 1487-1510.   | 2.3 | 17        |
| 23 | Seismic vulnerability of air traffic control towers. Natural Hazards, 2018, 90, 803-822.   | 1.6 | 8         |
| 24 | Non-probabilistic wavelet method to consider uncertainties in structural damage detection. Journal of Sound and Vibration, 2018, 433, 77-98.   | 2.1 | 24        |
| 25 | Vibration Mitigation of Structures through TLCD with Embedded Baffles. Experimental Techniques, 2017, 41, 139-151.   | 0.9 | 9         |
| 26 | Effects of TLCD with maneuverable flaps on vibration control of a SDOF structure. Meccanica, 2017, 52, 1247-1256.  | 1.2 | 4         |
| 27 | Effect of Substrate Surface Roughness on the Flexural Performance of Concrete Slabs Strengthened with a Steel-Fiber-Reinforced Concrete Layer. PCI Journal, 2017, 62, .                | 0.4 | 10        |
| 28 | Wavelet-based Damage Detection Technique via Operational Deflection Shape Decomposition. Indian Journal of Science and Technology, 2017, 9, .  | 0.5 | 5         |
| 29 | DRIFT DEMANDS OF LOW-DUCTILE MOMENT RESISTANCE FRAMES (MRF) UNDER FAR FIELD EARTHQUAKE EXCITATIONS. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .                           | 0.3 | 4         |
| 30 | Assessment of seismic design response factors of air traffic control towers. Bulletin of Earthquake Engineering, 2016, 14, 3441-3461.  | 2.3 | 9         |
| 31 | Seismic performance of a wall-frame air traffic control tower. Earthquake and Structures, 2016, 10, 463-482.   | 1.0 | 6         |
| 32 | Efficiency of TLDs with bottom-mounted baffles in suppression of structural responses when subjected to harmonic excitations. Structural Engineering and Mechanics, 2016, 60, 131-148. | 1.0 | 8         |
| 33 | A wavelet-based technique for damage quantification via mode shape decomposition. Structure and Infrastructure Engineering, 2015, 11, 869-883.   | 2.0 | 27        |
| 34 | An Ideal strain gage placement plan for structural health monitoring under seismic loadings. Earthquake and Structures, 2015, 8, 541-553.  | 1.0 | 5         |
| 35 | Influence of higher order modes and mass configuration on the quality of damage detection via DWT. Earthquake and Structures, 2015, 9, 1221-1232.                                      | 1.0 | 2         |
| 36 | Seismic performance evaluation of an airport traffic control tower through linear and nonlinear analysis. Structure and Infrastructure Engineering, 2014, 10, 963-975.                 | 2.0 | 11        |

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|----|---|-----|-----------|
| 37 | Seismic damage detection of tall airport traffic control towers using wavelet analysis. Structure and Infrastructure Engineering, 2014, 10, 106-127.  | 2.0 | 16        |
| 38 | A neuro-wavelet technique for seismic damage identification of cantilever structures. Structure and Infrastructure Engineering, 2014, 10, 1666-1684.  | 2.0 | 18        |
| 39 | Dynamic response of composite footbridges under running pedestrian load. , 2013, , .  |     | 1         |
| 40 | Real-time Seismic Damage Detection of Concrete Shear Walls Using Artificial Neural Networks. Journal of Earthquake Engineering, 2013, 17, 137-154.  | 1.4 | 42        |
| 41 | Finite element analysis of high modal dynamic responses of a composite floor subjected to human motion under passive live load. Latin American Journal of Solids and Structures, 2013, 10, 601-630. | 0.6 | 4         |
| 42 | A Model for Seismic Vulnerability Score Assignment of Road Infrastructure Using Linear Regression Technique. Applied Mechanics and Materials, 2011, 147, 266-269.                                   | 0.2 | 1         |
| 43 | Seismic Damage Detection Using Pushover Analysis. Advanced Materials Research, 0, 255-260, 2496-2499.   | 0.3 | 6         |
| 44 | Effect of roof garden weight on the seismic fragility of relatively tall concrete wall buildings. Asian Journal of Civil Engineering, 0, , .  | 0.8 | 2         |