

# Mohammadreza Vafaei

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7175442/publications.pdf>

Version: 2024-02-01

44  
papers

495  
citations

687363

13  
h-index

752698

20  
g-index

46  
all docs

46  
docs citations

46  
times ranked

343  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	9.3	51
2	Real-time Seismic Damage Detection of Concrete Shear Walls Using Artificial Neural Networks. <i>Journal of Earthquake Engineering</i> , 2013, 17, 137-154.	2.5	42
3	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.	4.0	39
4	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.	5.0	29
5	A wavelet-based technique for damage quantification via mode shape decomposition. <i>Structure and Infrastructure Engineering</i> , 2015, 11, 869-883.	3.7	27
6	Non-probabilistic wavelet method to consider uncertainties in structural damage detection. <i>Journal of Sound and Vibration</i> , 2018, 433, 77-98.	3.9	24
7	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.	8.0	20
8	A neuro-wavelet technique for seismic damage identification of cantilever structures. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 1666-1684.	3.7	18
9	Seismic retrofit of masonry wall infilled RC frames through external post-tensioning. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 1487-1510.	4.1	17
10	Seismic damage detection of tall airport traffic control towers using wavelet analysis. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 106-127.	3.7	16
11	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.	3.1	16
12	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.	5.3	15
13	Adequacy of first mode shape differences for damage identification of cantilever structures using neural networks. <i>Neural Computing and Applications</i> , 2018, 30, 2509-2518.	5.6	14
14	Sensor clustering-based approach for structural damage identification under ambient vibration. <i>Automation in Construction</i> , 2021, 121, 103433.	9.8	14
15	Seismic performance evaluation of an airport traffic control tower through linear and nonlinear analysis. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 963-975.	3.7	11
16	Seismic fragility of concrete box girder bridges in Malaysia. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 513, 012019.	0.6	11
17	Effect of Substrate Surface Roughness on the Flexural Performance of Concrete Slabs Strengthened with a Steel-Fiber-Reinforced Concrete Layer. <i>PCI Journal</i> , 2017, 62, .	0.6	10
18	Assessment of seismic design response factors of air traffic control towers. <i>Bulletin of Earthquake Engineering</i> , 2016, 14, 3441-3461.	4.1	9

#	ARTICLE	IF	CITATIONS
19	Vibration Mitigation of Structures through TLCD with Embedded Baffles. <i>Experimental Techniques</i> , 2017, 41, 139-151.	1.5	9
20	Seismic vulnerability of air traffic control towers. <i>Natural Hazards</i> , 2018, 90, 803-822.	3.4	8
21	The relative importance of strong column-weak beam design concept in the single-story RC frames. <i>Engineering Structures</i> , 2019, 185, 159-170.	5.3	8
22	Efficiency of TLDs with bottom-mounted baffles in suppression of structural responses when subjected to harmonic excitations. <i>Structural Engineering and Mechanics</i> , 2016, 60, 131-148.	1.0	8
23	Experimental and numerical investigations on the seismic response of built-up battened columns. <i>Journal of Constructional Steel Research</i> , 2020, 174, 106296.	3.9	7
24	Seismic Damage Detection Using Pushover Analysis. <i>Advanced Materials Research</i> , 0, 255-260, 2496-2499.	0.3	6
25	Seismic performance of a wall-frame air traffic control tower. <i>Earthquake and Structures</i> , 2016, 10, 463-482.	1.0	6
26	An Innovative Tuned Liquid Damper for Vibration Mitigation of Structures. <i>International Journal of Civil Engineering</i> , 2021, 19, 1071-1090.	2.0	5
27	An Ideal strain gage placement plan for structural health monitoring under seismic loadings. <i>Earthquake and Structures</i> , 2015, 8, 541-553.	1.0	5
28	Experimental damage assessment of support condition for plate structures using wavelet transform. <i>Journal of Theoretical and Applied Mechanics</i> , 2019, 57, 501-518.	0.5	5
29	Wavelet-based Damage Detection Technique via Operational Deflection Shape Decomposition. <i>Indian Journal of Science and Technology</i> , 2017, 9, .	0.7	5
30	Seismic Fragility of Tall Concrete Wall Structures in Malaysia under Far-Field Earthquakes. <i>Open Civil Engineering Journal</i> , 2019, 13, 140-146.	0.8	5
31	Finite element analysis of high modal dynamic responses of a composite floor subjected to human motion under passive live load. <i>Latin American Journal of Solids and Structures</i> , 2013, 10, 601-630.	1.0	4
32	DRIFT DEMANDS OF LOW-DUCTILE MOMENT RESISTANCE FRAMES (MRF) UNDER FAR FIELD EARTHQUAKE EXCITATIONS. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.4	4
33	Effects of TLCD with maneuverable flaps on vibration control of a SDOF structure. <i>Meccanica</i> , 2017, 52, 1247-1256.	2.0	4
34	Prediction of strain values in reinforcements and concrete of a RC frame using neural networks. <i>International Journal of Advanced Structural Engineering</i> , 2018, 10, 29-35.	1.3	4
35	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.	3.1	4
36	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.	0.8	3

#	ARTICLE	IF	CITATIONS
37	Cyclic response of reinforced concrete frames partially infilled with relatively weak masonry wall. Journal of Building Engineering, 2021, , 103722.	3.4	3
38	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
39	Effect of roof garden weight on the seismic fragility of relatively tall concrete wall buildings. Asian Journal of Civil Engineering, 0, , .	1.6	2
40	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
41	Dynamic response of composite footbridges under running pedestrian load. , 2013, , .		1
42	Mechanical Behaviour of Metallic Yielding Dampers with Different Aspect Ratios. Latin American Journal of Solids and Structures, 2021, 18, .	1.0	1
43	Analytical calculation on shear capacity of RC columns internally confined with CFRP strips. IOP Conference Series: Earth and Environmental Science, 2019, 220, 012023.	0.3	0
44	Effect of battensâ€™ spacing on the cyclic response of built-up columns. Thin-Walled Structures, 2022, 172, 108862.	5.3	0