

# Leticia Fleck Fadel Miguel

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53  
papers

923  
citations

15  
h-index

29  
g-index

62  
ext. papers

1,121  
ext. citations

2.9  
avg, IF

4.79  
L-index

#	Paper	IF	Citations
53	Layout optimization of transmission line family structures. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2022</b> , 44, 1	2	0
52	Optimization of a reinforced concrete structure subjected to dynamic wind action. <i>Frattura Ed Integrita Strutturale</i> , <b>2022</b> , 16, 326-343	0.9	0
51	Simultaneous simulation of the three components of seismic accelerograms at locations around seismological stations. <i>Journal of Seismology</i> , <b>2021</b> , 25, 1361	1.5	
50	Robust optimum design of tuned mass dampers for high-rise buildings subject to wind-induced vibration. <i>Numerical Algebra, Control and Optimization</i> , <b>2021</b> ,	1.7	0
49	Optimization of Multiple Tuned Mass Dampers for Road Bridges Taking into Account Bridge-Vehicle Interaction, Random Pavement Roughness, and Uncertainties. <i>Shock and Vibration</i> , <b>2021</b> , 2021, 1-17	1.1	1
48	Reliability assessment of existing transmission line towers considering mechanical model uncertainties. <i>Engineering Structures</i> , <b>2021</b> , 237, 112016	4.7	4
47	Optimization of transmission towers considering the bolt slippage effect. <i>Engineering Structures</i> , <b>2020</b> , 211, 110436	4.7	5
46	Vibration control in buildings under seismic excitation using optimized tuned mass dampers. <i>Frattura Ed Integrita Strutturale</i> , <b>2020</b> , 14, 66-87	0.9	4
45	Methodology for Simulation of the Three Components of Seismic Acceleration. <i>Bulletin of the Seismological Society of America</i> , <b>2019</b> , 109, 2427-2436	2.3	3
44	Robust Optimum Design of Multiple Tuned Mass Dampers for Vibration Control in Buildings Subjected to Seismic Excitation. <i>Shock and Vibration</i> , <b>2019</b> , 2019, 1-9	1.1	10
43	Methodology to Obtain Dynamic Response of Road Bridges Considering Bridge-Vehicle Interactions. <i>Practice Periodical on Structural Design and Construction</i> , <b>2019</b> , 24, 04019010	1.2	6
42	Reliability-based optimum design of passive friction dampers in buildings in seismic regions. <i>Engineering Structures</i> , <b>2019</b> , 190, 276-284	4.7	12
41	A performance measure approach for risk optimization. <i>Structural and Multidisciplinary Optimization</i> , <b>2019</b> , 60, 927-947	3.6	7
40	Monte Carlo integration with adaptive variance selection for improved stochastic efficient global optimization. <i>Structural and Multidisciplinary Optimization</i> , <b>2019</b> , 60, 245-268	3.6	4
39	Topology design recommendations of transmission line towers to minimize the bolt slippage effect. <i>Engineering Structures</i> , <b>2019</b> , 178, 286-297	4.7	7
38	Measurement and evaluation of whole-body vibration exposure in drivers of cargo vehicle compositions. <i>Human Factors and Ergonomics in Manufacturing</i> , <b>2019</b> , 29, 253-264	1.4	1
37	Multi-objective optimization of the suspension system parameters of a full vehicle model. <i>Optimization and Engineering</i> , <b>2019</b> , 20, 151-177	2.1	27

36	Assessment of downburst wind loading on tall structures. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , <b>2018</b> , 174, 252-259	3.7	6
35	Methodology for the simultaneous optimization of location and parameters of friction dampers in the frequency domain. <i>Engineering Optimization</i> , <b>2018</b> , 1-15	2	5
34	Influence of mesh orientation in discrete element method simulations of fracture processes. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2018</b> , 53, 400-407	1.3	3
33	Robust Simultaneous Optimization of Friction Damper for the Passive Vibration Control in a Colombian Building. <i>Procedia Engineering</i> , <b>2017</b> , 199, 1743-1748		5
32	Optimum design of planar steel frames using the Search Group Algorithm. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2017</b> , 39, 1405-1418	2	9
31	A New Assessment in the Simultaneous Optimization of Friction Dampers in Plane and Spatial Civil Structures. <i>Mathematical Problems in Engineering</i> , <b>2017</b> , 2017, 1-18	1.1	6
30	Simultaneous optimization of force and placement of friction dampers under seismic loading. <i>Engineering Optimization</i> , <b>2016</b> , 48, 582-602	2	31
29	Robust design optimization of TMDs in vehicleBridge coupled vibration problems. <i>Engineering Structures</i> , <b>2016</b> , 126, 703-711	4.7	34
28	Failure probability minimization of buildings through passive friction dampers. <i>Structural Design of Tall and Special Buildings</i> , <b>2016</b> , 25, 869-885	1.8	14
27	Evaluation of the discrete element method (DEM) and of the experimental evidence on concrete behaviour under static 3D compression. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2016</b> , 39, 1366-1378	3	10
26	An improved hybrid optimization algorithm for vibration based-damage detection. <i>Advances in Engineering Software</i> , <b>2016</b> , 93, 47-64	3.6	18
25	A procedure for the size, shape and topology optimization of transmission line tower structures. <i>Engineering Structures</i> , <b>2016</b> , 111, 162-184	4.7	25
24	A Backtracking Search Algorithm for the Simultaneous Size, Shape and Topology Optimization of Trusses. <i>Latin American Journal of Solids and Structures</i> , <b>2016</b> , 13, 2922-2951	1.4	5
23	A novel approach to the optimum design of MTMDs under seismic excitations. <i>Structural Control and Health Monitoring</i> , <b>2016</b> , 23, 1290-1313	4.5	24
22	Influence of the Width of the Loading Strip in the Brazilian Tensile Test of Concrete and Other Brittle Materials. <i>Journal of Materials in Civil Engineering</i> , <b>2016</b> , 28, 04016136	3	3
21	Search group algorithm: A new metaheuristic method for the optimization of truss structures. <i>Computers and Structures</i> , <b>2015</b> , 153, 165-184	4.5	120
20	DYNAMIC RESPONSE OF A 190M-HIGH TRANSMISSION TOWER FOR A LARGE RIVER CROSSING. <i>Journal of Civil Engineering and Management</i> , <b>2015</b> , 22, 509-519	3	1
19	An approach for the global reliability based optimization of the size and shape of truss structures. <i>Mechanics and Industry</i> , <b>2015</b> , 16, 603	0.8	7

18	A firefly algorithm for the design of force and placement of friction dampers for control of man-induced vibrations in footbridges. <i>Optimization and Engineering</i> , <b>2015</b> , 16, 633-661	2.1	29
17	Robust design optimization of friction dampers for structural response control. <i>Structural Control and Health Monitoring</i> , <b>2014</b> , 21, 1240-1251	4.5	26
16	Assessment of Brazilian tensile test by means of the truss-like Discrete Element Method (DEM) with imperfect mesh. <i>Engineering Structures</i> , <b>2014</b> , 81, 10-21	4.7	11
15	Study of imperfections in the cubic mesh of the truss-like discrete element method. <i>International Journal of Damage Mechanics</i> , <b>2014</b> , 23, 819-838	3	13
14	Introduction of imperfections in the cubic mesh of the truss-like discrete element method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2014</b> , 37, 539-552	3	12
13	Discussion of paper: Estimating optimum parameters of tuned mass dampers using harmony search [Eng. Struct. 33 (9) (2011) 2716-2723]. <i>Engineering Structures</i> , <b>2013</b> , 54, 262-264	4.7	11
12	A hybrid approach for damage detection of structures under operational conditions. <i>Journal of Sound and Vibration</i> , <b>2013</b> , 332, 4241-4260	3.9	18
11	Multimodal size, shape, and topology optimisation of truss structures using the Firefly algorithm. <i>Advances in Engineering Software</i> , <b>2013</b> , 56, 23-37	3.6	118
10	Assessment of modern metaheuristic algorithms - HS, ABC and FA - in shape and size optimisation of structures with different types of constraints. <i>International Journal of Metaheuristics</i> , <b>2013</b> , 2, 256	0.8	4
9	Shape and size optimization of truss structures considering dynamic constraints through modern metaheuristic algorithms. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 9458-9467	7.8	146
8	Damage detection under ambient vibration by harmony search algorithm. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 9704-9714	7.8	44
7	Assessment of code recommendations through simulation of EPS wind loads along a segment of a transmission line. <i>Engineering Structures</i> , <b>2012</b> , 43, 1-11	4.7	8
6	Theoretical and experimental modal analysis of a cantilever steel beam with a tip mass. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2009</b> , 223, 1535-1541	1.3	10
5	Influence of size on the constitutive equations of concrete or rock dowels. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2008</b> , 32, 1857-1881	4	23
4	Model uncertainty in the assessment of transmission line towers subjected to cable rupture. <i>Engineering Structures</i> , <b>2008</b> , 30, 2935-2944	4.7	20
3	A Constitutive Criterion for the Fault: Modified Velocity-Weakening Law. <i>Bulletin of the Seismological Society of America</i> , <b>2007</b> , 97, 915-925	2.3	3
2	Damage detection in truss structures using a flexibility based approach with noise influence consideration. <i>Structural Engineering and Mechanics</i> , <b>2007</b> , 27, 625-638		6
1	Macro constitutive law for rupture dynamics derived from micro constitutive law measured in laboratory. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	4

