Michalis F Vassiliou

List of Publications by Year
in descending order

44	1,476	304743	330143
papers	citations	22 h-index	37 g-index

44	44	44	429
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Planar rocking response and stability analysis of an array of freeâ€standing columns capped with a freely supported rigid beam. Earthquake Engineering and Structural Dynamics, 2013, 42, 431-449.	4.4	155
2	Analysis of the rocking response of rigid blocks standing free on a seismically isolated base. Earthquake Engineering and Structural Dynamics, 2012, 41, 177-196.	4.4	116
3	Estimating Time Scales and Length Scales in Pulselike Earthquake Acceleration Records with Wavelet Analysis. Bulletin of the Seismological Society of America, 2011, 101, 596-618.	2.3	101
4	Is rocking motion predictable?. Earthquake Engineering and Structural Dynamics, 2018, 47, 535-552.	4.4	80
5	Dynamic response analysis of solitary flexible rocking bodies: modeling and behavior under pulseâ€like ground excitation. Earthquake Engineering and Structural Dynamics, 2014, 43, 1463-1481.	4.4	75
6	An analytical model of a deformable cantilever structure rocking on a rigid surface: development and verification. Earthquake Engineering and Structural Dynamics, 2015, 44, 2775-2794.	4.4	65
7	A finite element model for seismic response analysis of deformable rocking frames. Earthquake Engineering and Structural Dynamics, 2017, 46, 447-466.	4.4	64
8	Dynamics of rocking podium structures. Earthquake Engineering and Structural Dynamics, 2017, 46, 2499-2517.	4.4	63
9	Dynamics of the Rocking Frame with Vertical Restrainers. Journal of Structural Engineering, 2015, 141, .	3.4	59
10	Are Some Top-Heavy Structures More Stable?. Journal of Structural Engineering, 2014, 140, .	3.4	58
11	Dynamics of the Vertically Restrained Rocking Column. Journal of Engineering Mechanics - ASCE, 2015, 141, .	2.9	52
12	The threeâ€dimensional behavior of inverted pendulum cylindrical structures during earthquakes. Earthquake Engineering and Structural Dynamics, 2017, 46, 2261-2280.	4.4	49
13	Sizing the slenderness of free-standing rocking columns to withstand earthquake shaking. Archive of Applied Mechanics, 2012, 82, 1497-1511.	2.2	46
14	An analytical model of a deformable cantilever structure rocking on a rigid surface: experimental validation. Earthquake Engineering and Structural Dynamics, 2015, 44, 2795-2815.	4.4	46
15	Comparative Assessment of Two Rocking Isolation Techniques for a Motorway Overpass Bridge. Frontiers in Built Environment, 2017, 3, .	2.3	46
16	Shake table testing of a rocking podium: Results of a blind prediction contest. Earthquake Engineering and Structural Dynamics, 2021, 50, 1043-1062.	4.4	38
17	The existence of â€˜complete similaritiesâ€™ in the response of seismic isolated structures subjected to pulseâ€like ground motions and their implications in analysis. Earthquake Engineering and Structural Dynamics, 2011, 40, 1103-1121.	4.4	34
18	Seismic response of a wobbling 3D frame. Earthquake Engineering and Structural Dynamics, 2018, 47, 1212-1228.	4.4	31

#	Article	IF	Citations
19	Rolling and rocking of rigid uplifting structures. Earthquake Engineering and Structural Dynamics, 2019, 48, 1556-1574.	4.4	27
20	Dynamics of inelastic baseâ€isolated structures subjected to analytical pulse ground motions. Earthquake Engineering and Structural Dynamics, 2013, 42, 2043-2060.	4.4	26
21	Displacementâ€based analysis and design of rocking structures. Earthquake Engineering and Structural Dynamics, 2019, 48, 1613-1629.	4.4	26
22	Dynamics of inelastic base-isolated structures subjected to recorded ground motions. Bulletin of Earthquake Engineering, 2017, 15, 1807-1830.	4.1	23
23	Shaking table tests of a resilient bridge system with precast reinforced concrete columns equipped with springs. Earthquake Engineering and Structural Dynamics, 2022, 51, 213-239.	4.4	21
24	Simplified analysis of bilinear elastic systems exhibiting negative stiffness behavior. Earthquake Engineering and Structural Dynamics, 2021, 50, 580-600.	4.4	17
25	Robustness of simplified analysis methods for rocking structures on compliant soil. Earthquake Engineering and Structural Dynamics, 2020, 49, 1388-1405.	4.4	15
26	Mechanical properties of 3D printed material with binder jet technology and potential applications of additive manufacturing in seismic testing of structures. Additive Manufacturing, 2020, 36, 101714.	3.0	14
27	Fullâ€scale shaking table test and numerical modeling of a 3000â€liter legged storage tank isolated with a vertical rocking isolation system. Earthquake Engineering and Structural Dynamics, 2022, 51, 1563-1585.	4.4	13
28	The Dynamics of the Rocking Frame. Computational Methods in Applied Sciences (Springer), 2015, , 37-59.	0.3	12
29	A simple strategy to tune the lateral response of unbonded Fiber Reinforced Elastomeric Isolators (FREIs). Engineering Structures, 2020, 222, 111128.	5.3	11
30	Experimental investigation of a spherical rubber isolator for use in low income countries. Engineering Structures, 2022, 250, 113522.	5.3	10
31	Data set from shake table tests of free-standing rocking bodies. Earthquake Spectra, 2021, 37, 2971-2987.	3.1	9
32	AN ANALYTICAL MODEL FOR DYNAMIC RESPONSE OF AN ELASTIC SDOF SYSTEM FIXED ON TOP OF A ROCKING SINGLE-STORY FRAME STRUCTURE: EXPERIMENTAL VALIDATION. , 2016, , .		9
33	EXPERIMENTAL INVESTIGATION OF THE SEISMIC RESPONSE OF A COLUMN ROCKING AND ROLLING ON A CONCAVE BASE. , 2016, , .		9
34	The influence of the vertical component of ground motion on the probabilistic treatment of the rocking response of freeâ€standing blocks. Earthquake Engineering and Structural Dynamics, 2022, 51, 1874-1894.	4.4	9
35	Dataset from the shake table tests of a rocking podium structure. Earthquake Spectra, 2021, 37, 2107-2125.	3.1	8
36	Cyclic tests of a precast restrained rocking system for sustainable and resilient seismic design of bridges. Engineering Structures, 2021, 252, 113620.	5.3	8

#	Article	IF	Citations
37	Feasibility Study on Re-Using Tennis Balls as Seismic Isolation Bearings. Frontiers in Built Environment, 2021, 7, .	2.3	7
38	Physical modelling of reinforced concrete at a 1:40 scale using additively manufactured reinforcement cages. Earthquake Engineering and Structural Dynamics, 2022, 51, 537-551.	4.4	5
39	Dimensionality reduction of the 3D inverted pendulum cylindrical oscillator and applications on sustainable seismic design of bridges. Earthquake Engineering and Structural Dynamics, 2022, 51, 473-491.	4.4	5
40	Seismic Response and Stability of the Rocking Frame. Geotechnical, Geological and Earthquake Engineering, 2015, , 249-273.	0.2	4
41	Finite element modeling of freeâ€standing cylindrical columns under seismic excitation. Earthquake Engineering and Structural Dynamics, 0, , .	4.4	4
42	Uniform risk spectra for rocking structures. Earthquake Engineering and Structural Dynamics, 2022, 51, 2610-2626.	4.4	4
43	UNIFORM RISK SPECTRA FOR NEGATIVE STIFFNESS SYSTEMS. , 2021, , .		1
44	DYNAMIC RESPONSE OF A RIGID SLAB SUPPORTED BY FOUR RIGID CYLINRICAL ROCKING AND WOBBLING COLUMNS. , 2017, , .		1