Zbigniew Zembaty

List of Publications by Year
in descending order

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53	746	471509	552781
papers	citations	17	26
		h-index	g-index

57	57	57	414
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantifying local stiffness loss in beams using rotation rate sensors. Mechanical Systems and Signal Processing, 2021, 151, 107396.	8.0	3
2	Rotation, Strain, and Translation Sensors Performance Tests with Active Seismic Sources. Sensors, 2021, 21, 264.	3.8	23
3	Seismic rocking effects on a mine tower under induced and natural earthquakes. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	3.8	3
4	Rotation Rate Sensors and Their Applications. Sensors, 2021, 21, 5344.	3.8	6
5	Prediction of rotational ground motion for mining-induced seismicity â€“ Case study from Upper Silesian Coal Basin, Poland. Engineering Geology, 2020, 276, 105767.	6.3	19
6	Application of Rotation Rate Sensors in Modal and Vibration Analyses of Reinforced Concrete Beams. Sensors, 2020, 20, 4711.	3.8	17
7	Effect of Soil Compliance on Seismic Response of Slender Towers Under Rocking Excitations. Geotechnical, Geological and Earthquake Engineering, 2020, , 3-9.	0.2	0
8	Seismic effects on leaning slender structures and tall buildings. Engineering Structures, 2019, 198, 109518.	5.3	5
9	Discussion on â€œA parametric study on the effect of rotational ground motions on building structural responsesâ€•by F. Vicencio and N.A. Alexander [Soil Dyn Earthq Eng 118 (2019) 191â€“206]. Soil Dynamics and Earthquake Engineering, 2019, 126, 105591.	3.8	2
10	Engineering analysis of strong ground rocking and its effect on tall structures. Soil Dynamics and Earthquake Engineering, 2019, 116, 358-370.	3.8	23
11	Case Histories of Rockbursts at Metal Mines. , 2018, , 47-92.		1
12	Mitigating Rockburst Effects for Civil Engineering Infrastructure and Buildings. , 2018, , 541-548.		0
13	Strain sensing of beams in flexural vibrations using rotation rate sensors. Sensors and Actuators A: Physical, 2018, 269, 322-330.	4.1	12
14	Time history response analysis of a slender tower under translational-rocking seismic excitations. Engineering Structures, 2018, 155, 387-393.	5.3	33
15	Numerical analysis of monitoring of plastic hinge formation in frames under seismic excitations. Journal of Measurements in Engineering, 2018, 6, 190-195.	0.6	4
16	Rotational Groundâ€Motion Records from Induced Seismic Events. Seismological Research Letters, 2017, 88, 13-22.	1.9	29
17	Review of the Usefulness of Various Rotational Seismometers with Laboratory Results of Fibre-Optic Ones Tested for Engineering Applications. Sensors, 2016, 16, 2161.	3.8	52
18	Estimation of Rotational Ground Motion Effects on the Bell Tower of Parma Cathedral. Geotechnical, Geological and Earthquake Engineering, 2016, , 35-48.	0.2	6

#	Article	IF	Citations
19	Application of Rotation Rate Sensors in Measuring Beam Flexure and Structural Health Monitoring. Geotechnical, Geological and Earthquake Engineering, 2016, , 65-76.	0.2	2
20	Nonlinear interaction of initial leaning of r/c slender tower with its seismic response. , 2016, , 303-308.		2
21	A system to mitigate deep mine tremor effects in the design of civil infrastructure. International Journal of Rock Mechanics and Minings Sciences, 2015, 74, 81-90.	5.8	23
22	High-Performance Composite-Reinforced Earthquake Resistant Buildings with Self-Aligning Capabilities. Geotechnical, Geological and Earthquake Engineering, 2015, , 359-372.	0.2	3
23	Application of rotation rate sensors in an experiment of stiffness â€˜reconstructionâ€™. Smart Materials and Structures, 2013, 22, 077001.	3.5	16
24	How to model rockburst seismic loads for civil engineering purposes?. Bulletin of Earthquake Engineering, 2011, 9, 1403-1416.	4.1	13
25	On eigenvalue problem of bar structures with stochastic spatial stiffness variations. Structural Engineering and Mechanics, 2011, 39, 541-558.	1.0	4
26	Tutorial on Surface Rotations from Wave Passage Effects: Stochastic Spectral Approach. Bulletin of the Seismological Society of America, 2009, 99, 1040-1049.	2.3	37
27	Rotational Seismic Load Definition in Eurocode 8, Part 6, for Slender Tower-Shaped Structures. Bulletin of the Seismological Society of America, 2009, 99, 1483-1485.	2.3	30
28	Damage reconstruction of 3D frames using genetic algorithms with Levenbergâ€“Marquardt local search. Soil Dynamics and Earthquake Engineering, 2009, 29, 311-323.	3.8	20
29	Discussion on: â€œKalman filtering for neural prediction of response spectra from mining tremorsâ€. Computers and Structures, 2009, 87, 948-949.	4.4	0
30	Vibration based stiffness reconstruction of beams and frames by observing their rotations under harmonic excitations â€” Numerical analysis. Engineering Structures, 2009, 31, 1581-1588.	5.3	16
31	Reconstruction Problem of Reinforced Concrete Beams under Harmonic Excitations. Key Engineering Materials, 2007, 347, 691-696.	0.4	0
32	Non-stationary random vibrations of a shear beam under high frequency seismic effects. Soil Dynamics and Earthquake Engineering, 2007, 27, 1000-1011.	3.8	15
33	Dynamic identification of a reinforced concrete frame in progressive states of damage. Engineering Structures, 2006, 28, 668-681.	5.3	63
34	Deriving Seismic Surface Rotations for Engineering Purposes. , 2006, , 549-568.		3
35	Modal Analysis of a Reinforced Concrete Frame in Various States of Damage. Key Engineering Materials, 2005, 293-294, 735-742.	0.4	0
36	Analysing and Modelling Rockburst Induced Ground Motion for Civil Engineering Purposes. , 2005, , .		0

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37	Rockburst induced ground motionâ€”a comparative study. Soil Dynamics and Earthquake Engineering, 2004, 24, 11-23.	3.8	52
38	Assessment of seismic resistance of masonry structures including boundary conditions. Soil Dynamics and Earthquake Engineering, 2002, 22, 1193-1197.	3.8	16
39	Spatial response spectra and site amplification effects. Engineering Structures, 2002, 24, 1485-1496.	5.3	25
40	On the sensitivity of bridge seismic response with local soil amplification. Earthquake Engineering and Structural Dynamics, 1998, 27, 1095-1099.	4.4	13
41	Vibrations of Bridge Structure under Kinematic Wave Excitations. Journal of Structural Engineering, 1997, 123, 479-488.	3.4	20
42	Comparison between earthquake rotation spectra obtained by different experimental sources. Engineering Structures, 1996, 18, 597-603.	5.3	26
43	Spatial Seismic Coefficients, Some Sensitivity Results. Journal of Engineering Mechanics - ASCE, 1996, 122, 379-382.	2.9	3
44	Stochastic modeling of seismic surface rotations. Natural Hazards, 1994, 10, 181-191.	3.4	4
45	Spectral analysis of the rotational component of seismic ground motion. Probabilistic Engineering Mechanics, 1993, 8, 5-14.	2.7	17
46	Spatial Seismic Excitations and Response Spectra. Journal of Engineering Mechanics - ASCE, 1993, 119, 2449-2460.	2.9	15
47	On the First Excursion Probability with Random Threshold. Lecture Notes in Engineering, 1992, , 403-414.	0.1	0
48	A note on non-stationary stochastic response and strong motion duration. Earthquake Engineering and Structural Dynamics, 1988, 16, 1189-1200.	4.4	16
49	On the reliability of tower-shaped structures under seismic excitations. Earthquake Engineering and Structural Dynamics, 1987, 15, 761-775.	4.4	11
50	Application of Rotational Measurements in Stiffness Reconstruction of Beams and Frames. Key Engineering Materials, 0, 413-414, 189-194.	0.4	0
51	An Analysis of the Effectiveness of Application of Rotation Rate Sensors in Non Destructive Damage Evaluation. Key Engineering Materials, 0, 569-570, 783-790.	0.4	1
52	Rock Mechanics and Engineering Volume 4. , 0, , .		0
53	Seismic Vulnerability of a Slender Stalagmite. Journal of Earthquake Engineering, 0, , 1-20.	2.5	0