

Zbigniew Zembaty

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

746
citations

471509

17
h-index

552781

26
g-index

57
all docs

57
docs citations

57
times ranked

414
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic identification of a reinforced concrete frame in progressive states of damage. <i>Engineering Structures</i> , 2006, 28, 668-681.	5.3	63
2	Rockburst induced ground motion—a comparative study. <i>Soil Dynamics and Earthquake Engineering</i> , 2004, 24, 11-23.	3.8	52
3	Review of the Usefulness of Various Rotational Seismometers with Laboratory Results of Fibre-Optic Ones Tested for Engineering Applications. <i>Sensors</i> , 2016, 16, 2161.	3.8	52
4	Tutorial on Surface Rotations from Wave Passage Effects: Stochastic Spectral Approach. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 1040-1049.	2.3	37
5	Time history response analysis of a slender tower under translational-rocking seismic excitations. <i>Engineering Structures</i> , 2018, 155, 387-393.	5.3	33
6	Rotational Seismic Load Definition in Eurocode 8, Part 6, for Slender Tower-Shaped Structures. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 1483-1485.	2.3	30
7	Rotational Ground Motion Records from Induced Seismic Events. <i>Seismological Research Letters</i> , 2017, 88, 13-22.	1.9	29
8	Comparison between earthquake rotation spectra obtained by different experimental sources. <i>Engineering Structures</i> , 1996, 18, 597-603.	5.3	26
9	Spatial response spectra and site amplification effects. <i>Engineering Structures</i> , 2002, 24, 1485-1496.	5.3	25
10	A system to mitigate deep mine tremor effects in the design of civil infrastructure. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 74, 81-90.	5.8	23
11	Engineering analysis of strong ground rocking and its effect on tall structures. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 116, 358-370.	3.8	23
12	Rotation, Strain, and Translation Sensors Performance Tests with Active Seismic Sources. <i>Sensors</i> , 2021, 21, 264.	3.8	23
13	Vibrations of Bridge Structure under Kinematic Wave Excitations. <i>Journal of Structural Engineering</i> , 1997, 123, 479-488.	3.4	20
14	Damage reconstruction of 3D frames using genetic algorithms with Levenberg–Marquardt local search. <i>Soil Dynamics and Earthquake Engineering</i> , 2009, 29, 311-323.	3.8	20
15	Prediction of rotational ground motion for mining-induced seismicity – Case study from Upper Silesian Coal Basin, Poland. <i>Engineering Geology</i> , 2020, 276, 105767.	6.3	19
16	Spectral analysis of the rotational component of seismic ground motion. <i>Probabilistic Engineering Mechanics</i> , 1993, 8, 5-14.	2.7	17
17	Application of Rotation Rate Sensors in Modal and Vibration Analyses of Reinforced Concrete Beams. <i>Sensors</i> , 2020, 20, 4711.	3.8	17
18	A note on non-stationary stochastic response and strong motion duration. <i>Earthquake Engineering and Structural Dynamics</i> , 1988, 16, 1189-1200.	4.4	16

#	ARTICLE	IF	CITATIONS
19	Assessment of seismic resistance of masonry structures including boundary conditions. Soil Dynamics and Earthquake Engineering, 2002, 22, 1193-1197.	3.8	16
20	Vibration based stiffness reconstruction of beams and frames by observing their rotations under harmonic excitations " Numerical analysis. Engineering Structures, 2009, 31, 1581-1588.	5.3	16
21	Application of rotation rate sensors in an experiment of stiffness "reconstruction"™. Smart Materials and Structures, 2013, 22, 077001.	3.5	16
22	Spatial Seismic Excitations and Response Spectra. Journal of Engineering Mechanics - ASCE, 1993, 119, 2449-2460.	2.9	15
23	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
24	On the sensitivity of bridge seismic response with local soil amplification. Earthquake Engineering and Structural Dynamics, 1998, 27, 1095-1099.	4.4	13
25	How to model rockburst seismic loads for civil engineering purposes?. Bulletin of Earthquake Engineering, 2011, 9, 1403-1416.	4.1	13
26	Strain sensing of beams in flexural vibrations using rotation rate sensors. Sensors and Actuators A: Physical, 2018, 269, 322-330.	4.1	12
27	On the reliability of tower-shaped structures under seismic excitations. Earthquake Engineering and Structural Dynamics, 1987, 15, 761-775.	4.4	11
28	Rotation Rate Sensors and Their Applications. Sensors, 2021, 21, 5344.	3.8	6
29	Estimation of Rotational Ground Motion Effects on the Bell Tower of Parma Cathedral. Geotechnical, Geological and Earthquake Engineering, 2016, , 35-48.	0.2	6
30	Seismic effects on leaning slender structures and tall buildings. Engineering Structures, 2019, 198, 109518.	5.3	5
31	Stochastic modeling of seismic surface rotations. Natural Hazards, 1994, 10, 181-191.	3.4	4
32	On eigenvalue problem of bar structures with stochastic spatial stiffness variations. Structural Engineering and Mechanics, 2011, 39, 541-558.	1.0	4
33	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
34	Spatial Seismic Coefficients, Some Sensitivity Results. Journal of Engineering Mechanics - ASCE, 1996, 122, 379-382.	2.9	3
35	High-Performance Composite-Reinforced Earthquake Resistant Buildings with Self-Aligning Capabilities. Geotechnical, Geological and Earthquake Engineering, 2015, , 359-372.	0.2	3
36	Quantifying local stiffness loss in beams using rotation rate sensors. Mechanical Systems and Signal Processing, 2021, 151, 107396.	8.0	3

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37	Seismic rocking effects on a mine tower under induced and natural earthquakes. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	3.8	3
38	Deriving Seismic Surface Rotations for Engineering Purposes. , 2006, , 549-568.		3
39	Discussion on "A parametric study on the effect of rotational ground motions on building structural responses" by F. Vicencio and N.A. Alexander [Soil Dyn Earthq Eng 118 (2019) 191-206]. Soil Dynamics and Earthquake Engineering, 2019, 126, 105591.	3.8	2
40	Application of Rotation Rate Sensors in Measuring Beam Flexure and Structural Health Monitoring. Geotechnical, Geological and Earthquake Engineering, 2016, , 65-76.	0.2	2
41	Nonlinear interaction of initial leaning of r/c slender tower with its seismic response. , 2016, , 303-308.		2
42	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
43	Case Histories of Rockbursts at Metal Mines. , 2018, , 47-92.		1
44	Modal Analysis of a Reinforced Concrete Frame in Various States of Damage. Key Engineering Materials, 2005, 293-294, 735-742.	0.4	0
45	Reconstruction Problem of Reinforced Concrete Beams under Harmonic Excitations. Key Engineering Materials, 2007, 347, 691-696.	0.4	0
46	Application of Rotational Measurements in Stiffness Reconstruction of Beams and Frames. Key Engineering Materials, 0, 413-414, 189-194.	0.4	0
47	Discussion on: "Kalman filtering for neural prediction of response spectra from mining tremors" Computers and Structures, 2009, 87, 948-949.	4.4	0
48	Mitigating Rockburst Effects for Civil Engineering Infrastructure and Buildings. , 2018, , 541-548.		0
49	Analysing and Modelling Rockburst Induced Ground Motion for Civil Engineering Purposes. , 2005, , .		0
50	On the First Excursion Probability with Random Threshold. Lecture Notes in Engineering, 1992, , 403-414.	0.1	0
51	Rock Mechanics and Engineering Volume 4. , 0, , .		0
52	Effect of Soil Compliance on Seismic Response of Slender Towers Under Rocking Excitations. Geotechnical, Geological and Earthquake Engineering, 2020, , 3-9.	0.2	0
53	Seismic Vulnerability of a Slender Stalagmite. Journal of Earthquake Engineering, 0, , 1-20.	2.5	0