

Clotaire Michel

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,152
citations

331670

21
h-index

414414

32
g-index

42
all docs

42
docs citations

42
times ranked

1001
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring the Preonzo Rock Slope Instability Using Resonance Mode Analysis. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005709.	2.8	12
2	Site Characterization of Swiss Strong-Motion Stations: The Benefit of Advanced Processing Algorithms. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 1713-1739.	2.3	25
3	Estimating Geophysical Bedrock Depth Using Single Station Analysis and Geophysical Data in the Extra-Carpathian Area of Romania. <i>Pure and Applied Geophysics</i> , 2020, 177, 4829-4844.	1.9	11
4	Development and validation of simplified mechanics-based capacity curves for scenario-based risk assessment of school buildings in Basel. <i>Engineering Structures</i> , 2020, 209, 110290.	5.3	6
5	Dynamic Analysis of a Large Freestanding Rock Tower (Castleton Tower, Utah). <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 2125-2131.	2.3	16
6	Effects of geometry on the seismic wavefield of Alpine glaciers. <i>Annals of Glaciology</i> , 2019, 60, 112-124.	1.4	10
7	Fracture Network Imaging on Rock Slope Instabilities Using Resonance Mode Analysis. <i>Geophysical Research Letters</i> , 2019, 46, 6497-6506.	4.0	24
8	A Framework to Evaluate the Benefit of Seismic Upgrading. <i>Earthquake Spectra</i> , 2019, 35, 1045-1051.	3.1	1
9	Deriving fragility functions from bilinearized capacity curves for earthquake scenario modelling using the conditional spectrum. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 4639-4660.	4.1	9
10	Earthquakes in Switzerland and surrounding regions during 2015 and 2016. <i>Swiss Journal of Geosciences</i> , 2018, 111, 221-244.	1.2	22
11	Evaluation of the seismic retrofitting of an unreinforced masonry building using numerical modeling and ambient vibration measurements. <i>Engineering Structures</i> , 2018, 158, 124-135.	5.3	32
12	Interpretation of the velocity measured in buildings by seismic interferometry based on Timoshenko beam theory under weak and moderate motion. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 104, 131-142.	3.8	22
13	Detection of ground motions using high-rate GPS time-series. <i>Geophysical Journal International</i> , 2018, 214, 1237-1251.	2.4	23
14	Seismic site-response characterization of high-velocity sites using advanced geophysical techniques: application to the NAGRA-Net. <i>Geophysical Journal International</i> , 2017, 210, 645-659.	2.4	23
15	Probabilistic mechanics-based loss scenarios for school buildings in Basel (Switzerland). <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 1471-1496.	4.1	19
16	Site amplification at the city scale in Basel (Switzerland) from geophysical site characterization and spectral modelling of recorded earthquakes. <i>Physics and Chemistry of the Earth</i> , 2017, 98, 27-40.	2.9	17
17	Analysis of the seismic wavefield in the Moesian Platform (Bucharest area) for hazard assessment purposes. <i>Geophysical Journal International</i> , 2017, 210, 1609-1622.	2.4	11
18	Improving the shear wave velocity structure beneath Bucharest (Romania) using ambient vibrations. <i>Geophysical Journal International</i> , 2016, 207, 848-861.	2.4	19

#	ARTICLE	IF	CITATIONS
19	Data-driven post-earthquake rapid structural safety assessment. Earthquake Engineering and Structural Dynamics, 2015, 44, 549-562.	4.4	48
20	Earthquakes in Switzerland and surrounding regions during 2013. Swiss Journal of Geosciences, 2014, 107, 359-375.	1.2	27
21	Long-period surface motion of the multipatch Mw9.0 Tohoku-Oki earthquake. Geophysical Journal International, 2014, 199, 968-980.	2.4	16
22	Modal analysis of 2-D sedimentary basin from frequency domain decomposition of ambient vibration array recordings. Geophysical Journal International, 2014, 200, 615-626.	2.4	16
23	Simplified non-linear seismic displacement demand prediction for low period structures. Bulletin of Earthquake Engineering, 2014, 12, 1563-1581.	4.1	28
24	Assessment of Site Effects in Alpine Regions through Systematic Site Characterization of Seismic Stations. Bulletin of the Seismological Society of America, 2014, 104, 2809-2826.	2.3	71
25	Quantifying the Effects of Modeling Simplifications for Structural Identification of Bridges. Journal of Bridge Engineering, 2014, 19, 59-71.	2.9	21
26	Determination of Site Amplification from Regional Seismicity: Application to the Swiss National Seismic Networks. Seismological Research Letters, 2013, 84, 611-621.	1.9	63
27	Fault zone signatures from ambient vibration measurements: a case study in the region of Visp (Valais). Tj ETQq1 1,0,784314,rgBT / O	1.2	1
28	Earthquakes in Switzerland and surrounding regions during 2012. Swiss Journal of Geosciences, 2013, 106, 543-558.	1.2	19
29	Contribution of ambient vibration recordings (free-field and buildings) for post-seismic analysis: The case of the Mw 7.3 Martinique (French Lesser Antilles) earthquake, November 29, 2007. Soil Dynamics and Earthquake Engineering, 2013, 50, 162-167.	3.8	8
30	Hybrid probabilities and error-domain structural identification using ambient vibration monitoring. Mechanical Systems and Signal Processing, 2013, 37, 199-212.	8.0	46
31	Seismic vulnerability assessment to slight damage based on experimental modal parameters. Earthquake Engineering and Structural Dynamics, 2012, 41, 81-98.	4.4	33
32	Quantification of fundamental frequency drop for unreinforced masonry buildings from dynamic tests. Earthquake Engineering and Structural Dynamics, 2011, 40, 1283-1296.	4.4	46
33	The Current State of Strong Motion Monitoring in Switzerland. Geotechnical, Geological and Earthquake Engineering, 2011, , 219-233.	0.2	10
34	Full-scale dynamic response of an RC building under weak seismic motions using earthquake recordings, ambient vibrations and modelling. Earthquake Engineering and Structural Dynamics, 2010, 39, 419-441.	4.4	41
35	Comparison of velocimeter and coherent lidar measurements for building frequency assessment. Bulletin of Earthquake Engineering, 2010, 8, 327-338.	4.1	21
36	Comparison between seismic vulnerability models and experimental dynamic properties of existing buildings in France. Bulletin of Earthquake Engineering, 2010, 8, 1295-1307.	4.1	51

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37	Time-Frequency Analysis of Small Frequency Variations in Civil Engineering Structures Under Weak and Strong Motions Using a Reassignment Method. <i>Structural Health Monitoring</i> , 2010, 9, 159-171.	7.5	70
38	Dynamic parameters of structures extracted from ambient vibration measurements: An aid for the seismic vulnerability assessment of existing buildings in moderate seismic hazard regions. <i>Soil Dynamics and Earthquake Engineering</i> , 2008, 28, 593-604.	3.8	121
39	A simplified approach for vulnerability assessment in moderate-to-low seismic hazard regions: application to Grenoble (France). <i>Bulletin of Earthquake Engineering</i> , 2007, 5, 467-490.	4.1	67
40	The Potential of High-Rate GPS for Strong Ground Motion Assessment. <i>Bulletin of the Seismological Society of America</i> , 0, , .	2.3	15