

# Clotaire Michel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/927734/publications.pdf>

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	Dynamic parameters of structures extracted from ambient vibration measurements: An aid for the seismic vulnerability assessment of existing buildings in moderate seismic hazard regions. Soil Dynamics and Earthquake Engineering, 2008, 28, 593-604.	3.8	121
2	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
3	Time-Frequency Analysis of Small Frequency Variations in Civil Engineering Structures Under Weak and Strong Motions Using a Reassignment Method. Structural Health Monitoring, 2010, 9, 159-171.	7.5	70
4	A simplified approach for vulnerability assessment in moderate-to-low seismic hazard regions: application to Grenoble (France). Bulletin of Earthquake Engineering, 2007, 5, 467-490.	4.1	67
5	Determination of Site Amplification from Regional Seismicity: Application to the Swiss National Seismic Networks. Seismological Research Letters, 2013, 84, 611-621.	1.9	63
6	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
7	Data-driven post-earthquake rapid structural safety assessment. Earthquake Engineering and Structural Dynamics, 2015, 44, 549-562.	4.4	48
8	Quantification of fundamental frequency drop for unreinforced masonry buildings from dynamic tests. Earthquake Engineering and Structural Dynamics, 2011, 40, 1283-1296.	4.4	46
9	Hybrid probabilities and error-domain structural identification using ambient vibration monitoring. Mechanical Systems and Signal Processing, 2013, 37, 199-212.	8.0	46
10	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
11	Seismic vulnerability assessment to slight damage based on experimental modal parameters. Earthquake Engineering and Structural Dynamics, 2012, 41, 81-98.	4.4	33
12	Evaluation of the seismic retrofitting of an unreinforced masonry building using numerical modeling and ambient vibration measurements. Engineering Structures, 2018, 158, 124-135.	5.3	32
13	Simplified non-linear seismic displacement demand prediction for low period structures. Bulletin of Earthquake Engineering, 2014, 12, 1563-1581.	4.1	28
14	Earthquakes in Switzerland and surrounding regions during 2013. Swiss Journal of Geosciences, 2014, 107, 359-375.	1.2	27
15	Site Characterization of Swiss Strong-Motion Stations: The Benefit of Advanced Processing Algorithms. Bulletin of the Seismological Society of America, 2021, 111, 1713-1739.	2.3	25
16	Fracture Network Imaging on Rock Slope Instabilities Using Resonance Mode Analysis. Geophysical Research Letters, 2019, 46, 6497-6506.	4.0	24
17	Seismic site-response characterization of high-velocity sites using advanced geophysical techniques: application to the NAGRA-Net. Geophysical Journal International, 2017, 210, 645-659.	2.4	23
18	Detection of ground motions using high-rate GPS time-series. Geophysical Journal International, 2018, 214, 1237-1251.	2.4	23

#	ARTICLE	IF	CITATIONS
19	Earthquakes in Switzerland and surrounding regions during 2015 and 2016. Swiss Journal of Geosciences, 2018, 111, 221-244.	1.2	22
20	Interpretation of the velocity measured in buildings by seismic interferometry based on Timoshenko beam theory under weak and moderate motion. Soil Dynamics and Earthquake Engineering, 2018, 104, 131-142.	3.8	22
21	Comparison of velocimeter and coherent lidar measurements for building frequency assessment. Bulletin of Earthquake Engineering, 2010, 8, 327-338.	4.1	21
22	Quantifying the Effects of Modeling Simplifications for Structural Identification of Bridges. Journal of Bridge Engineering, 2014, 19, 59-71.	2.9	21
23	Earthquakes in Switzerland and surrounding regions during 2012. Swiss Journal of Geosciences, 2013, 106, 543-558.	1.2	19
24	Improving the shear wave velocity structure beneath Bucharest (Romania) using ambient vibrations. Geophysical Journal International, 2016, 207, 848-861.	2.4	19
25	Probabilistic mechanics-based loss scenarios for school buildings in Basel (Switzerland). Bulletin of Earthquake Engineering, 2017, 15, 1471-1496.	4.1	19
26	Site amplification at the city scale in Basel (Switzerland) from geophysical site characterization and spectral modelling of recorded earthquakes. Physics and Chemistry of the Earth, 2017, 98, 27-40.	2.9	17
27	Long-period surface motion of the multipatch Mw9.0 Tohoku-Oki earthquake. Geophysical Journal International, 2014, 199, 968-980.	2.4	16
28	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
29	Dynamic Analysis of a Large Freestanding Rock Tower (Castleton Tower, Utah). Bulletin of the Seismological Society of America, 2019, 109, 2125-2131.	2.3	16
30	The Potential of High-Rate GPS for Strong Ground Motion Assessment. Bulletin of the Seismological Society of America, 0, , .	2.3	15
31	Monitoring the Preonzo Rock Slope Instability Using Resonance Mode Analysis. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005709.	2.8	12
32	Analysis of the seismic wavefield in the Moesian Platform (Bucharest area) for hazard assessment purposes. Geophysical Journal International, 2017, 210, 1609-1622.	2.4	11
33	Estimating Geophysical Bedrock Depth Using Single Station Analysis and Geophysical Data in the Extra-Carpathian Area of Romania. Pure and Applied Geophysics, 2020, 177, 4829-4844.	1.9	11
34	Effects of geometry on the seismic wavefield of Alpine glaciers. Annals of Glaciology, 2019, 60, 112-124.	1.4	10
35	The Current State of Strong Motion Monitoring in Switzerland. Geotechnical, Geological and Earthquake Engineering, 2011, , 219-233.	0.2	10
36	Deriving fragility functions from bilinearized capacity curves for earthquake scenario modelling using the conditional spectrum. Bulletin of Earthquake Engineering, 2018, 16, 4639-4660.	4.1	9

#	ARTICLE	IF	CITATIONS
37	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. <i>Soil Dynamics and Earthquake Engineering</i> , 2013, 50, 162-167.	3.8	8
38	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
39	Fault zone signatures from ambient vibration measurements: a case study in the region of Visp (Valais, Switzerland). <i>Journal of Earthquake Engineering and Seismology</i> , 2021, 25(1), 1-12.	1.2	1
40	A Framework to Evaluate the Benefit of Seismic Upgrading. <i>Earthquake Spectra</i> , 2019, 35, 1045-1051.	3.1	1