Ting Yu Hsu

List of Publications by Year
in descending order

34 papers	479 citations	687335 13 h-index	752679 20 g-index
35 all docs	35 docs citations	35 times ranked	528 citing authors

#	Article	IF	Citations
1	Application of advanced statistical methods for extracting long-term trends in static monitoring data from an arch dam. Structural Health Monitoring, 2011, 10, 587-601.	7.5	60
2	Experimental Study of Isolated Building under Triaxial Ground Excitations. Journal of Structural Engineering, 2000, 126, 879-886.	3.4	32
3	Rapid on-site peak ground acceleration estimation based on support vector regression and P-wave features in Taiwan. Soil Dynamics and Earthquake Engineering, 2013, 49, 210-217.	3.8	30
4	Comparing the Performance of the NEEWS Earthquake Early Warning System Against the CWB System During the 6 February 2018 M_wÂ6.2 Hualien Earthquake. Geophysical Research Letters, 2018, 45, 6001-6007.	4.0	29
5	Porous Organic TFTs for the Applications on Real-Time and Sensitive Gas Sensors. IEEE Electron Device Letters, 2011, 32, 1143-1145.	3.9	27
6	Performance of the NCREE's onâ€site warning system during the 5 February 2016 M_w 6.53 Meinong earthquake. Geophysical Research Letters, 2016, 43, 8954-8959.	4.0	25
7	Stable Encapsulated Organic TFT With a Spin-Coated Poly(4-Vinylphenol-Co-Methyl Methacrylate) Dielectric. IEEE Electron Device Letters, 2011, 32, 1131-1133.	3.9	24
8	Evaluating Post-Earthquake Building Safety Using Economical MEMS Seismometers. Sensors, 2018, 18, 1437.	3.8	23
9	Damage Diagnosis of Frame Structures Using Modified Modal Strain Energy Change Method. Journal of Engineering Mechanics - ASCE, 2008, 134, 1000-1012.	2.9	21
10	Damage detection accommodating nonlinear environmental effects by nonlinear principal component analysis. Structural Control and Health Monitoring, 2009, 17, n/a-n/a.	4.0	21
11	On-line structural damage localization and quantification using wireless sensors. Smart Materials and Structures, 2011, 20, 105025.	3.5	20
12	Damage detection of rotating wind turbine blades using local flexibility method and long-gauge fiber Bragg grating sensors. Measurement Science and Technology, 2018, 29, 015108.	2.6	17
13	Damage detection of a thin plate using modal curvature via macrostrain measurement. Earthquake Engineering and Engineering Vibration, 2019, 18, 409-424.	2.3	13
14	Onsite Early Prediction of PGA Using CNN With Multi-Scale and Multi-Domain P-Waves as Input. Frontiers in Earth Science, 2021, 9, .	1.8	13
15	Earthquake Early Warning Systems in Taiwan: Current Status. Journal of the Geological Society of India, 2021, 97, 1525-1532.	1.1	13
16	Two Novel Approaches to Reduce False Alarm Due to Nonâ€Earthquake Events for Onâ€Site Earthquake Early Warning System. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 535-549.	9.8	12
17	Development of a Data-Mining Technique for Regional-Scale Evaluation of Building Seismic Vulnerability. Applied Sciences (Switzerland), 2019, 9, 1502.	2.5	12
18	Continuous structural health monitoring of the Sayano-Shushenskaya Dam using off-site seismic station data accounting for environmental effects. Measurement Science and Technology, 2020, 31, 015801.	2.6	11

#	Article	IF	Citations
19	A frequency response function change method for damage localization and quantification in a shear building under ground excitation. Earthquake Engineering and Structural Dynamics, 2013, 42, 653-668.	4.4	10
20	On-Site Earthquake Early Warning Using Smartphones. Sensors, 2020, 20, 2928.	3.8	9
21	The Realization of an Earthquake Early Warning System for Schools and Its Performance during the 2019 MLÂ6.3 Hualien (Taiwan) Earthquake. Seismological Research Letters, 2021, 92, 342-351.	1.9	9
22	An integrated earthquake early warning system and its performance at schools in Taiwan. Journal of Seismology, 2017, 21, 165-180.	1.3	7
23	Transfer functionâ€based Bayesian damage detection under seismic excitation. Structural Design of Tall and Special Buildings, 2019, 28, e1619.	1.9	7
24	A damage detection algorithm integrated with a wireless sensing system. Journal of Physics: Conference Series, 2011, 305, 012042.	0.4	5
25	Application of the low-cost MEMS-type seismometer for structural health monitoring: A pre-study. , 2016, , .		5
26	Application of Bayesian statistical method in sensitivity-based seismic damage identification of structures: Numerical and experimental validation. Structural Health Monitoring, 2018, 17, 1255-1276.	7.5	5
27	A pseudo local flexibility method for damage detection in hyperstatic beams. Structural Control and Health Monitoring, 2015, 22, 682-693.	4.0	4
28	Analysis of Environmental and Typhoon Effects on Modal Frequencies of a Power Transmission Tower. Sensors, 2020, 20, 5169.	3.8	3
29	A Stand-Alone Smart Camera System for Online Post-Earthquake Building Safety Assessment. Sensors, 2020, 20, 3374.	3.8	3
30	PDP method to compesate for rotational effect when using a single surveillance camera for interstory drift measurement. Measurement Science and Technology, 2020, 31, 095902.	2.6	3
31	Damage detection for beam structures based on local flexibility method and macro-strain measurement. Smart Structures and Systems, 2017, 19, 393-402.	1.9	3
32	Numerical study on smart sloped rolling-type seismic isolators integrated with early prediction of peak velocity. Engineering Structures, 2021, 246, 113032.	5.3	2
33	Damage detection using frequency response functions under ground excitation. Proceedings of SPIE, 2009, , .	0.8	1
34	The Pseudo Local Flexibility Method for Hyper-static Beams: An Experimental Study. Procedia Engineering, 2014, 79, 550-554.	1.2	0