Haluk Sucuoglu

List of Publications by Year in descending order

62 papers	1,056 citations	471509 17 h-index	454955 30 g-index
66 all docs	66 docs citations	66 times ranked	806 citing authors

#	Article	IF	Citations
1	Displacement-Based Fragility Functions for Low- and Mid-rise Ordinary Concrete Buildings. Earthquake Spectra, 2005, 21, 901-927.	3.1	110
2	A Screening Procedure for Seismic Risk Assessment in Urban Building Stocks. Earthquake Spectra, 2007, 23, 441-458.	3.1	76
3	Earthquake ground motion characteristics and seismic energy dissipation. Earthquake Engineering and Structural Dynamics, 1995, 24, 1195-1213.	4.4	71
4	An Overview of Local Site Effects and the Associated Building Damage in Adapazari during the 17 August 1999 Izmit Earthquake. Bulletin of the Seismological Society of America, 2002, 92, 509-526.	2.3	71
5	Generalized force vectors for multiâ€mode pushover analysis. Earthquake Engineering and Structural Dynamics, 2011, 40, 55-74.	4.4	68
6	Energy-based hysteresis and damage models for deteriorating systems. Earthquake Engineering and Structural Dynamics, 2004, 33, 69-88.	4.4	66
7	Seismic energy dissipation in deteriorating systems through low-cycle fatigue. Earthquake Engineering and Structural Dynamics, 2004, 33, 49-67.	4.4	41
8	Behaviour of window glass panels during earthquakes. Engineering Structures, 1997, 19, 685-694.	5.3	34
9	Prediction of input energy spectrum: attenuation models and velocity spectrum scaling. Earthquake Engineering and Structural Dynamics, 2016, 45, 2137-2161.	4.4	32
10	Performance of structures in Ä°zmir after the Samos island earthquake. Bulletin of Earthquake Engineering, 2022, 20, 7793-7818.	4.1	32
11	Effect of Connection Rigidity on Seismic Response of Precast Concrete Frames. PCI Journal, 1995, 40, 94-103.	0.6	32
12	Predicting the Seismic Response of Capacity-Designed Structures by Equivalent Linearization. Journal of Earthquake Engineering, 2009, 13, 623-649.	2.5	27
13	Elastic and Inelastic Near-Fault Input Energy Spectra. Earthquake Spectra, 2018, 34, 611-637.	3.1	27
14	PERFORMANCE EVALUATION OF A THREE-STOREY UNREINFORCED MASONRY BUILDING DURING THE 1992 ERZÄ°NCAN EARTHQUAKE. Earthquake Engineering and Structural Dynamics, 1997, 26, 319-336.	4.4	25
15	Statistical evaluation of the damage potential of earthquake ground motions. Structural Safety, 1998, 20, 357-378.	5.3	25
16	Prediction of seismic energy dissipation in SDOF systems. Earthquake Engineering and Structural Dynamics, 1995, 24, 1215-1223.	4.4	21
17	Seismic Shear Capacity of Reinforced Masonry Piers. Journal of Structural Engineering, 1991, 117, 2166-2185.	3.4	19
18	Generalized force vectors for multiâ€mode pushover analysis of torsionally coupled systems. Earthquake Engineering and Structural Dynamics, 2014, 43, 2015-2033.	4.4	19

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19	Seismic Performance Assessment of Unreinforced Masonry Buildings with a Hybrid Modeling Approach. Earthquake Spectra, 2013, 29, 33-57.	3.1	17
20	Resistance Mechanisms in RC Building Frames Subjected to Column Failure. Journal of Structural Engineering, 1994, 120, 765-782.	3.4	16
21	Pseudo-Dynamic Testing and Analytical Modeling of AAC Infilled RC Frames. Journal of Earthquake Engineering, 2014, 18, 1281-1301.	2.5	15
22	Seismic performance of gravity-load designed concrete frames infilled with low-strength masonry. Earthquake and Structures, 2015, 8, 19-35.	1.0	15
23	Analysis of Accelerations from the 1 October 1995 Dinar, Turkey, Earthquake. Bulletin of the Seismological Society of America, 2001, 91, 1433-1445.	2.3	14
24	An analytical assessment of elastic and inelastic response spectra. Canadian Journal of Civil Engineering, 1994, 21, 386-395.	1.3	12
25	Performance-Based Seismic Rehabilitation of Damaged Reinforced Concrete Buildings. Journal of Structural Engineering, 2004, 130, 1475-1486.	3.4	12
26	Inelastic Displacement Response of RC Systems with Cyclic Deteriorationâ€"An Energy Approach. Journal of Earthquake Engineering, 2012, 16, 937-962.	2.5	10
27	Enhancement of the National Strong-Motion Network in Turkey. Seismological Research Letters, 2007, 78, 429-438.	1.9	9
28	Generalized force vectors for multi-mode pushover analysis of bridges. Bulletin of Earthquake Engineering, 2017, 15, 5247-5280.	4.1	9
29	Interstory drift based scaling of earthquake ground motions. Earthquake Engineering and Structural Dynamics, 2021, 50, 3814-3830.	4.4	9
30	ECONOMIC ASSESSMENT OF THE SEISMIC RETROFITTING OF LOW-COST APARTMENT BUILDINGS. Journal of Earthquake Engineering, 2005, 9, 577-584.	2.5	8
31	Practical Implementation of Generalized Force Vectors for the Multimodal Pushover Analysis of Building Structures. Earthquake Spectra, 2015, 31, 1043-1067.	3.1	8
32	Title is missing!. Journal of Seismology, 2002, 6, 347-355.	1.3	7
33	Development of Fragility Curves for Single-Column RC Italian Bridges Using Nonlinear Static Analysis. Journal of Earthquake Engineering, 2022, 26, 2328-2352.	2.5	7
34	Predicting Intensity and Damage Distribution during the 1995 Dinar, Turkey, Earthquake with Generated Strong Motion Accelerograms. Bulletin of the Seismological Society of America, 2003, 93, 1267-1279.	2.3	6
35	An improvement to linearâ€elastic procedures for seismic performance assessment. Earthquake Engineering and Structural Dynamics, 2010, 39, 907-931.	4.4	6
36	The role of overstrength on the seismic performance of asymmetricâ€plan structures. Earthquake Engineering and Structural Dynamics, 2019, 48, 412-431.	4.4	6

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37	Torsional ductility spectrum for predicting ductility distribution in simple asymmetricâ€plan structures. Earthquake Engineering and Structural Dynamics, 2021, 50, 538-559.	4.4	6
38	Forced Vibration Testing and Finite Element Modeling of a Nine-Story Reinforced Concrete Flat Plate-Wall Building. Earthquake Spectra, 2015, 31, 1069-1081.	3.1	5
39	ENGINEERING EVALUATION OF THE 1 OCTOBER 1995 DÄ°NAR EARTHQUAKE (ML = 5.9). Journal of Earthquake Engineering, 1997, 1, 581-602.	2.5	4
40	Seismic Risk Prioritization and Retrofit Cost Evaluation of Code-Deficient RC Public Buildings in Turkey. Earthquake Spectra, 2015, 31, 601-614.	3.1	4
41	Application of Mesh Reinforced Mortar for Performance Enhancement of Hollow Clay Tile Infill Walls. Geotechnical, Geological and Earthquake Engineering, 2014, , 171-186.	0.2	4
42	Rapid Seismic Assessment Procedures for the Turkish Building Stock. Geotechnical, Geological and Earthquake Engineering, 2014, , 15-35.	0.2	4
43	Peak Ground Velocity Sensitive Deformation Demands and a Rapid Damage Assessment Approach. , 2003, , 77-96.		4
44	A linear mathematical model for the seismic inplane behaviour of brick masonry walls part 1: Theoretical considerations. Earthquake Engineering and Structural Dynamics, 1984, 12, 313-326.	4.4	3
45	Discussion: An approach to the measurement of the potential structural damage of earthquake ground motions. Earthquake Engineering and Structural Dynamics, 1997, 26, 1283-1285.	4.4	3
46	Seismic risk prioritization of residential buildings in Istanbul. Earthquake Engineering and Structural Dynamics, 2012, 41, 1533-1547.	4.4	3
47	Damping spectra for estimating inelastic deformations from modal response spectrum analysis. Earthquake Engineering and Structural Dynamics, 2021, 50, 436-454.	4.4	3
48	IN DEFENCE OF ZEYTINBURNU. , 2006, , 95-116.		3
49	The Effect of Displacement History on the Performance of Concrete Columns in Flexure. Geotechnical, Geological and Earthquake Engineering, 2010, , 373-382.	0.2	3
50	STRUCTURAL REHABILITATION OF DAMAGED RC BUILDINGS AFTER THE 1 OCTOBER 1995 DÄ°NAR EARTHQUAKE. Journal of Earthquake Engineering, 2001, 5, 131-151.	2.5	2
51	Limitations on linear elastic procedures in performance assessment of regular frames. Earthquake Engineering and Structural Dynamics, 2015, 44, 2659-2675.	4.4	2
52	A linear mathematical model for the seismic inplane behaviour of brick masonry walls part 2: Determination of model parameters through optimization using experimental data. Earthquake Engineering and Structural Dynamics, 1984, 12, 327-346.	4.4	1
53	Efficiency of Viscous Damping in Seismic Energy Dissipation and Response Reduction. Lecture Notes in Civil Engineering, 2021, , 265-276.	0.4	1
54	Influence of Ground Motion Intensity on the Performance of Low- and Mid-Rise Ordinary Concrete Buildings. , 2005, , 123-138.		1

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55	AN EQUIVALENT LINEARIZATION PROCEDURE FOR DISPLACEMENT-BASED SEISMIC ASSESSMENT OF VULNERABLE RC BUILDINGS. , 2006, , 63-78.		1
56	Development of Fragility Curves for Multi-Span RC Bridges using Generalized Pushover Analysis. IABSE Symposium Report, 2019, , .	0.0	1
57	EXPERIMENTAL INVESTIGATION OF THE BEHAVIOR OF VARIABLE FRICTION BASE ISOLATION SYSTEMS. , 2019, , .		1
58	SEISMIC RISK ASSESSMENT OF MULTI-SPAN BRIDGES USING NONLINEAR STATIC PROCEDURES. , 2019, , .		1
59	Discussion of â€œ Inelastic Behavior of Concrete Masonry Shear Walls â€•by P. B. Shing, J. L. Noland, E. Klamerus, and H. Spaeh (September, 1989, Vol. 115, No. 9). Journal of Structural Engineering, 1991, 117, 2805-2807.	3.4	0
60	Title is missing!. Journal of Earthquake Engineering, 1997, 1, 581.	2.5	0
61	SEISMIC RESPONSE OF RC BRIDGES USING GENERALISED FORCE VECTORS. , 2017, , .		0
62	ELASTIC AND INELASTIC NEAR FAULT INPUT ENERGY SPECTRA. , 2019, , .		0