

Nelson Lam

List of Publications by Year in descending order

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138
papers

2,664
citations

218381

26
h-index

253896

43
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140
all docs

140
docs citations

140
times ranked

1342
citing authors

#	ARTICLE	IF	CITATIONS
1	Displacement-based seismic analysis for out-of-plane bending of unreinforced masonry walls. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 833-850.	2.5	239
2	Experimental Investigation of Unreinforced Brick Masonry Walls in Flexure. <i>Journal of Structural Engineering</i> , 2004, 130, 423-432.	1.7	141
3	Cyclic testing of unreinforced masonry walls in two-way bending. <i>Earthquake Engineering and Structural Dynamics</i> , 2007, 36, 801-821.	2.5	108
4	GENERATION OF SYNTHETIC EARTHQUAKE ACCELEROGRAMS USING SEISMOLOGICAL MODELLING: A REVIEW. <i>Journal of Earthquake Engineering</i> , 2000, 4, 321-354.	1.4	97
5	Near-surface attenuation modelling based on rock shear-wave velocity profile. <i>Soil Dynamics and Earthquake Engineering</i> , 2006, 26, 1004-1014.	1.9	95
6	Timeâ€‘history analysis of URM walls in out-of-plane flexure. <i>Engineering Structures</i> , 2003, 25, 743-754.	2.6	66
7	Response spectral relationships for rock sites derived from the component attenuation model. <i>Earthquake Engineering and Structural Dynamics</i> , 2000, 29, 1457-1489.	2.5	56
8	Response spectrum modelling for rock sites in low and moderate seismicity regions combining velocity, displacement and acceleration predictions. <i>Earthquake Engineering and Structural Dynamics</i> , 2000, 29, 1491-1525.	2.5	53
9	Performance-based design in earthquake engineering: a multi-disciplinary review. <i>Engineering Structures</i> , 2001, 23, 1525-1543.	2.6	52
10	Collapse of Reinforced Concrete Column by Vehicle Impact. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2008, 23, 427-436.	6.3	52
11	Analysis of long-distance earthquake tremors and base shear demand for buildings in Singapore. <i>Engineering Structures</i> , 2002, 24, 99-108.	2.6	48
12	Seismic displacement response spectrum estimated from the frame analogy soil amplification model. <i>Engineering Structures</i> , 2001, 23, 1437-1452.	2.6	43
13	Contact forces generated by hailstone impact. <i>International Journal of Impact Engineering</i> , 2015, 84, 145-158.	2.4	43
14	Displacement controlled rocking behaviour of rigid objects. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 1653-1669.	2.5	40
15	Influence of non-structural components on lateral stiffness of tall buildings. <i>Structural Design of Tall and Special Buildings</i> , 2005, 14, 143-164.	0.9	37
16	The ductility reduction factor in the seismic design of buildings. <i>Earthquake Engineering and Structural Dynamics</i> , 1998, 27, 749-769.	2.5	35
17	Shear wave velocity modelling in crustal rock for seismic hazard analysis. <i>Soil Dynamics and Earthquake Engineering</i> , 2005, 25, 167-185.	1.9	35
18	Deterministic solutions for contact force generated by impact of windborne debris. <i>International Journal of Impact Engineering</i> , 2016, 91, 126-141.	2.4	34

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19	Dynamic loading on a prefabricated modular unit of a building during road transportation. Journal of Building Engineering, 2018, 18, 260-269.	1.6	34
20	Regional and local factors in attenuation modelling: Hong Kong case study. Journal of Asian Earth Sciences, 2006, 27, 892-906.	1.0	32
21	Rapid assessment of seismic demand in existing building structures. Structural Design of Tall and Special Buildings, 2009, 18, 427-439.	0.9	32
22	EVALUATION OF SIMPLIFIED METHODS OF ESTIMATING BEAM RESPONSES TO IMPACT. International Journal of Structural Stability and Dynamics, 2012, 12, 1250016.	1.5	32
23	Response spectrum predictions for potential near-field and far-field earthquakes affecting Hong Kong: soil sites. Soil Dynamics and Earthquake Engineering, 2002, 22, 419-440.	1.9	29
24	Estimation of strengths in large annealed glass panels. International Journal of Solids and Structures, 2010, 47, 2591-2599.	1.3	28
25	Drift performance of lightly reinforced concrete columns. Engineering Structures, 2014, 59, 522-535.	2.6	28
26	Response spectrum predictions for potential near-field and far-field earthquakes affecting Hong Kong: rock sites. Soil Dynamics and Earthquake Engineering, 2002, 22, 47-72.	1.9	27
27	ESTIMATION OF RESPONSE OF PLATE STRUCTURE SUBJECT TO LOW VELOCITY IMPACT BY A SOLID OBJECT. International Journal of Structural Stability and Dynamics, 2012, 12, 1250053.	1.5	27
28	Scenario predictions for potential near-field and far-field earthquakes affecting Hong Kong. Soil Dynamics and Earthquake Engineering, 2002, 22, 29-46.	1.9	26
29	RC walls in Australia: reconnaissance survey of industry and literature review of experimental testing. Australian Journal of Structural Engineering, 2017, 18, 24-40.	0.4	26
30	Estimating non-linear site response by single period approximation. Earthquake Engineering and Structural Dynamics, 2006, 35, 1053-1076.	2.5	25
31	Yield curvature for seismic design of circular reinforced concrete columns. Magazine of Concrete Research, 2010, 62, 741-748.	0.9	25
32	Conversion between Peak Ground Motion Parameters and Modified Mercalli Intensity Values. Journal of Earthquake Engineering, 2011, 15, 1138-1155.	1.4	25
33	Intensity attenuation relationship for the South China region and comparison with the component attenuation model. Journal of Asian Earth Sciences, 2002, 20, 775-790.	1.0	24
34	Ground motion modelling in Tehran based on the stochastic method. Soil Dynamics and Earthquake Engineering, 2010, 30, 525-535.	1.9	24
35	A recommended earthquake response spectrum model for Australia. Australian Journal of Structural Engineering, 2003, 5, 17-27.	0.4	23
36	Simple models for estimating period-shift and damping in soil. Earthquake Engineering and Structural Dynamics, 2006, 35, 1925-1947.	2.5	23

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37	A design spectrum model for flexible soil sites in regions of low-to-moderate seismicity. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 92, 36-45.	1.9	21
38	Minimum loading requirements for areas of low seismicity. <i>Earthquake and Structures</i> , 2016, 11, 539-561.	1.0	21
39	Earthquake Design of Buildings in Australia Using Velocity and Displacement Principles. <i>Australian Journal of Structural Engineering</i> , 2006, 6, 103-118.	0.4	19
40	A note on Hunt and Crossley model with generalized visco-elastic damping. <i>International Journal of Impact Engineering</i> , 2018, 121, 151-156.	2.4	19
41	A SIMPLE DISPLACEMENT-BASED MODEL FOR PREDICTING SEISMICALLY INDUCED OVERTURNING. <i>Journal of Earthquake Engineering</i> , 2006, 10, 775-814.	1.4	18
42	Collapse modelling analysis of a precast soft storey building in Australia. <i>Engineering Structures</i> , 2010, 32, 1925-1936.	2.6	18
43	Displacement-Based Approach for the Assessment of Overturning Stability of Rectangular Rigid Barriers Subjected to Point Impact. <i>Journal of Engineering Mechanics - ASCE</i> , 2018, 144, .	1.6	18
44	Seismic assessment of transfer plate high rise buildings. <i>Structural Engineering and Mechanics</i> , 2002, 14, 287-306.	1.0	18
45	SIMULATIONS OF RESPONSE TO LOW VELOCITY IMPACT BY SPREADSHEET. <i>International Journal of Structural Stability and Dynamics</i> , 2010, 10, 483-499.	1.5	17
46	Bi-linear displacement response spectrum model for engineering applications in low and moderate seismicity regions. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 43, 85-96.	1.9	17
47	Seismic performance of lightly reinforced structural walls for design purposes. <i>Magazine of Concrete Research</i> , 2013, 65, 809-828.	0.9	17
48	Drift Performance of Point Fixed Glass Façade Systems. <i>Advances in Structural Engineering</i> , 2014, 17, 1481-1495.	1.2	17
49	Effects of podium interference on shear force distributions in tower walls supporting tall buildings. <i>Engineering Structures</i> , 2017, 148, 639-659.	2.6	17
50	An Adaptive Ground Motion Prediction Equation for Use in Low-to-Moderate Seismicity Regions. <i>Journal of Earthquake Engineering</i> , 2022, 26, 2567-2598.	1.4	17
51	An attenuation model for distant earthquakes. <i>Earthquake Engineering and Structural Dynamics</i> , 2004, 33, 183-210.	2.5	16
52	Inelastic Displacement Demand of Strength-Degraded Structures. <i>Journal of Earthquake Engineering</i> , 2010, 14, 487-511.	1.4	16
53	Contact forces generated by fallen debris. <i>Structural Engineering and Mechanics</i> , 2014, 50, 589-603.	1.0	16
54	Characterization of Sandstone for Application in Blast Analysis of Tunnel. <i>Geotechnical Testing Journal</i> , 2020, 43, 351-382.	0.5	16

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55	Damage modelling of aluminium panels impacted by windborne debris. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 165, 1-12.	1.7	15
56	Experiments on an ice ball impacting onto a rigid target. <i>International Journal of Impact Engineering</i> , 2022, 167, 104281.	2.4	15
57	Risks of failure of annealed glass panels subject to point contact actions. <i>International Journal of Solids and Structures</i> , 2017, 129, 177-194.	1.3	14
58	Framework for seismic vulnerability assessment of reinforced concrete buildings in Australia. <i>Australian Journal of Structural Engineering</i> , 2019, 20, 143-158.	0.4	14
59	Force-deformation behaviour modelling of cracked reinforced concrete by EXCEL spreadsheets. <i>Computers and Concrete</i> , 2011, 8, 43-57.	0.7	14
60	Generic Approach for Modelling Earthquake Hazard. <i>Advances in Structural Engineering</i> , 2006, 9, 67-82.	1.2	13
61	Modeling shear rigidity of stratified bedrock in site response analysis. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 34, 89-98.	1.9	13
62	Drift behaviour of lightly reinforced concrete columns and structural walls for seismic design applications. <i>Australian Journal of Structural Engineering</i> , 2015, 16, .	0.4	13
63	Computer Simulation of Contact Forces Generated by Impact. <i>International Journal of Structural Stability and Dynamics</i> , 2017, 17, 1750005.	1.5	13
64	Overtuning stability of L-shaped rigid barriers subjected to rockfall impacts. <i>Landslides</i> , 2018, 15, 1347-1357.	2.7	13
65	Rocking Behavior of Irregular Free-Standing Objects Subjected to Earthquake Motion. <i>Journal of Earthquake Engineering</i> , 2019, 23, 793-809.	1.4	13
66	Deterministic seismic hazard parameters and engineering risk implications for the Hong Kong region. <i>Journal of Asian Earth Sciences</i> , 2001, 20, 59-72.	1.0	12
67	Out-of-plane performance of a brick veneer steel-framed house subjected to seismic loads. <i>Construction and Building Materials</i> , 2012, 28, 779-790.	3.2	12
68	A Numerical Investigation of the Performance of a Nacre-Like Composite under Blast Loading. <i>Applied Mechanics and Materials</i> , 2016, 846, 464-469.	0.2	12
69	RC walls in Australia: seismic design and detailing to AS 1170.4 and AS 3600. <i>Australian Journal of Structural Engineering</i> , 2018, 19, 67-84.	0.4	12
70	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2000, 4, 321.	1.4	11
71	Peak displacement demand of small to moderate magnitude earthquakes in stable continental regions. <i>Earthquake Engineering and Structural Dynamics</i> , 2005, 34, 1047-1072.	2.5	11
72	Collapse Modelling of Soft-Storey Buildings. <i>Australian Journal of Structural Engineering</i> , 2009, 10, 11-23.	0.4	11

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73	Seismic Performance Behavior of Cold-Formed Steel Wall Panels by Quasi-static Tests and Incremental Dynamic Analyses. <i>Journal of Earthquake Engineering</i> , 2017, 21, 411-438.	1.4	11
74	Probabilistic modelling of forces of hail. <i>Natural Hazards</i> , 2018, 91, 133-153.	1.6	11
75	Effects of cyclic loading on the long-term deflection of prestressed concrete beams. <i>Computers and Concrete</i> , 2013, 12, 739-754.	0.7	11
76	Seismic load estimates of distant subduction earthquakes affecting Singapore. <i>Engineering Structures</i> , 2009, 31, 1230-1240.	2.6	10
77	Displacement-Controlled Behavior of Asymmetrical Single-Story Building Models. <i>Journal of Earthquake Engineering</i> , 2013, 17, 902-917.	1.4	10
78	In-Plane Drift Capacity of Contemporary Point Fixed Glass Facade Systems. <i>Journal of Architectural Engineering</i> , 2014, 20, .	0.8	10
79	Seismic assessment of cold-formed steel stud bracing wall panels using direct displacement based design approach. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 1261-1277.	2.3	10
80	Experimental and Analytical Investigation of a RC Wall with a Gabion Cushion Subjected to Boulder Impact. <i>International Journal of Impact Engineering</i> , 2021, 151, 103823.	2.4	10
81	Site-Specific Response Spectra: Guidelines for Engineering Practice. <i>CivilEng</i> , 2021, 2, 712-735.	0.8	10
82	Review of the torsional coupling of asymmetrical wall-frame buildings. <i>Engineering Structures</i> , 1997, 19, 233-246.	2.6	9
83	Regional differences in attenuation modelling for Eastern China. <i>Journal of Asian Earth Sciences</i> , 2010, 39, 441-459.	1.0	9
84	Probabilistic modelling of Hertzian fracture of glass by flying objects impact in bad weather. <i>International Journal of Impact Engineering</i> , 2018, 118, 11-23.	2.4	9
85	Contact force generated by impact of boulder on concrete surface. <i>International Journal of Impact Engineering</i> , 2019, 132, 103324.	2.4	9
86	The Selection and Scaling of Ground Motion Accelerograms for Use in Stable Continental Regions. <i>Journal of Earthquake Engineering</i> , 2022, 26, 6284-6303.	1.4	9
87	Overtuning of precast RC columns in conditions of moderate ground shaking. <i>Earthquake and Structures</i> , 2015, 8, 1-18.	1.0	9
88	BUILDING DUCTILITY DEMAND: INTERPLATE VERSUS INTRAPLATE EARTHQUAKES. <i>Earthquake Engineering and Structural Dynamics</i> , 1996, 25, 965-985.	2.5	8
89	Displacement-Based Assessment of the Seismic Capacity of Unreinforced Masonry Walls in Bending. <i>Australian Journal of Structural Engineering</i> , 2006, 6, 119-132.	0.4	8
90	Progressive Collapse Analysis of RC Frames Subjected to Blast Loading. <i>Australian Journal of Structural Engineering</i> , 2006, 7, 47-55.	0.4	8

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91	Drift Capacity of a Precast Soft-Storey Building in Melbourne. Australian Journal of Structural Engineering, 2010, 11, 177-193.	0.4	8
92	A refined design spectrum model for regions of lower seismicity. Australian Journal of Structural Engineering, 2017, 18, 3-10.	0.4	8
93	Use of static tests for predicting damage to cladding panels caused by storm debris. Journal of Building Engineering, 2017, 12, 109-117.	1.6	8
94	Use of Macroseismic Intensity Data to Validate a Regionally Adjustable Ground Motion Prediction Model. Geosciences (Switzerland), 2019, 9, 422.	1.0	8
95	Modelling of seismic actions in earth retaining walls and comparison with shaker table experiment. Soil Dynamics and Earthquake Engineering, 2021, 150, 106939.	1.9	8
96	Displacement-based seismic assessment of base restrained retaining walls. Acta Geotechnica, 2022, 17, 3675-3694.	2.9	8
97	Impact Resistance of Annealed Glass Panels. Journal of Performance of Constructed Facilities, 2011, 25, 422-432.	1.0	7
98	AN INNOVATIVE PROCEDURE FOR ESTIMATING CONTACT FORCE DURING IMPACT. International Journal of Applied Mechanics, 2014, 06, 1450079.	1.3	7
99	Analytical study of point fixed glass facade systems under monotonic in-plane loading. Advances in Structural Engineering, 2016, 19, 611-626.	1.2	7
100	A Computational Tool for Ground-Motion Simulations Incorporating Regional Crustal Conditions. Seismological Research Letters, 2021, 92, 1129-1140.	0.8	7
101	Experimental testing of reinforced concrete walls in regions of lower seismicity. Bulletin of the New Zealand Society for Earthquake Engineering, 2017, 50, 494-503.	0.2	7
102	Vehicle-road interaction analysis for pounding between cargo and trailer-bed. Vehicle System Dynamics, 2021, 59, 547-567.	2.2	7
103	SIMPLIFIED ANALYSIS OF LOW VELOCITY IMPACT ACTIONS ON SHALLOW DOMES. International Journal of Applied Mechanics, 2013, 05, 1350013.	1.3	6
104	Review of modern concepts in the engineering interpretation of earthquake response spectra. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2001, 146, 75-84.	0.4	5
105	Simplified displacement demand prediction of tall asymmetric buildings subjected to long-distance earthquakes. Engineering Structures, 2005, 27, 335-348.	2.6	5
106	Behaviour of plasterboard-lined steel-framed ceiling diaphragms. Thin-Walled Structures, 2019, 141, 1-14.	2.7	5
107	Modelling of seismically induced storey-drift in buildings. Structural Engineering and Mechanics, 2010, 35, 459-478.	1.0	5
108	Drift Demand Predictions in Low to Moderate Seismicity Regions. Australian Journal of Structural Engineering, 2010, 11, 195-206.	0.4	4

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109	Simplified elastic design checks for torsionally balanced and unbalanced low-medium rise buildings in lower seismicity regions. <i>Earthquake and Structures</i> , 2016, 11, 741-777.	1.0	4
110	Selection of earthquake ground motion accelerograms for structural design in Hong Kong. <i>Advances in Structural Engineering</i> , 2020, 23, 2044-2056.	1.2	4
111	Pounding of a modular building unit during road transportation. <i>Journal of Building Engineering</i> , 2021, 36, 102120.	1.6	4
112	Fast Checking of Drift Demand in Multi-Storey Buildings with Asymmetry. <i>Buildings</i> , 2021, 11, 13.	1.4	4
113	Developing Earthquake-Resistant Structural Design Standard for Malaysia Based on Eurocode 8: Challenges and Recommendations. <i>Standards</i> , 2021, 1, 134-153.	0.6	4
114	Dynamic Performance of a Brick Veneer House with Steel Framing. <i>Australian Journal of Structural Engineering</i> , 2010, 11, 231-242.	0.4	3
115	Protocol for testing of cold-formed steel wall in regions of low-moderate seismicity. <i>Earthquake and Structures</i> , 2013, 4, 629-647.	1.0	3
116	A Simple Model for Estimating Shocks in Unrestrained Building Contents in an Earthquake. <i>Journal of Earthquake Engineering</i> , 2013, 17, 1126-1140.	1.4	3
117	Collapse Behaviour Assessment of Precast Soft Storey Building. <i>Procedia Engineering</i> , 2015, 125, 1036-1042.	1.2	3
118	Shear Wall and Frame Dual Systems Featuring Discontinuous Load Paths in Frame Elements in Low-to-Moderate Seismic Regions. <i>Journal of Earthquake Engineering</i> , 2022, 26, 7408-7443.	1.4	3
119	Seismic protection by rocking with superelastic tendon restraint. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 1718-1737.	2.5	3
120	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2006, 10, 775.	1.4	2
121	Curvature Ductility of Concrete Element under High Strain-Rates. <i>Applied Mechanics and Materials</i> , 0, 166-169, 2910-2917.	0.2	2
122	Local intraplate earthquake considerations for Singapore. <i>IES Journal Part A: Civil and Structural Engineering</i> , 2015, 8, 62-70.	0.4	2
123	Yield Penetration Displacement of Lightly Reinforced Concrete Columns. <i>Applied Mechanics and Materials</i> , 0, 845, 119-125.	0.2	2
124	Analytical modelling of podium interference on tower walls in buildings. <i>Australian Journal of Structural Engineering</i> , 2017, 18, 238-253.	0.4	2
125	Recent technical advancement in natural terrain landslide risk mitigation measures in Hong Kong. <i>HKIE Transactions</i> , 2018, 25, 90-101.	1.9	2
126	Soil-Embedded Steel Baffle with Concrete Footing Responding to Collision by a Fallen or Flying Object. <i>International Journal of Geomechanics</i> , 2022, 22, .	1.3	2

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127	Recent Developments in the Research and Practice of Earthquake Engineering in Australia. Australian Journal of Structural Engineering, 2008, 8, 13-27.	0.4	1
128	A New Approach to the Teaching of Structural Mechanics. Procedia Engineering, 2011, 14, 695-703.	1.2	1
129	Estimation of dynamic response of structural elements subject to blast and impact actions using a simple unified approach. IES Journal Part A: Civil and Structural Engineering, 2012, 5, 117-127.	0.4	1
130	Determination of contact force by compression testing of cylindrical specimens. MethodsX, 2019, 6, 1957-1966.	0.7	1
131	Corrections for effects of biaxial stresses in annealed glass. Structural Engineering and Mechanics, 2011, 39, 303-316.	1.0	1
132	Rapid Assessment for Collapse Vulnerability of Non-Ductile Structures in Areas of Low and Moderate Seismicity. , 2013, , .		0
133	Discussion: Seismic performance of lightly reinforced structural walls for design purposes. Magazine of Concrete Research, 2014, 66, 1073-1074.	0.9	0
134	Seismic Response Modification Factors for Buildings Featuring a Gravity Transfer System by Incremental Dynamic Analyses. Journal of Earthquake Engineering, 0, , 1-25.	1.4	0
135	Use of Spreadsheets for Analyses in Structural Engineering. , 2011, , 18-40.		0
136	Earthquake Engineering in Areas Away from Tectonic Plate Boundaries. Lecture Notes in Civil Engineering, 2021, , 367-380.	0.3	0
137	Shear behaviour of screw connections in plasterboard sheathed cold-formed steel-framed ceiling diaphragms: experimental and comparative study. Australian Journal of Civil Engineering, 0, , 1-19.	0.6	0
138	Editorial address. Australian Journal of Structural Engineering, 0, , 1-1.	0.4	0