

Nelson Lam

List of Publications by Year in descending order

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138
papers

2,664
citations

218381

26
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140
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140
docs citations

140
times ranked

1342
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Displacement-based seismic assessment of base restrained retaining walls. <i>Acta Geotechnica</i> , 2022, 17, 3675-3694.	2.9	8
6	Seismic protection by rocking with superelastic tendon restraint. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 1718-1737.	2.5	3
7	Experiments on an ice ball impacting onto a rigid target. <i>International Journal of Impact Engineering</i> , 2022, 167, 104281.	2.4	15
8	A Computational Tool for Ground-Motion Simulations Incorporating Regional Crustal Conditions. <i>Seismological Research Letters</i> , 2021, 92, 1129-1140.	0.8	7
9	Pounding of a modular building unit during road transportation. <i>Journal of Building Engineering</i> , 2021, 36, 102120.	1.6	4
10	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
11	Site-Specific Response Spectra: Guidelines for Engineering Practice. <i>CivilEng</i> , 2021, 2, 712-735.	0.8	10
12	Modelling of seismic actions in earth retaining walls and comparison with shaker table experiment. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 150, 106939.	1.9	8
13	Fast Checking of Drift Demand in Multi-Storey Buildings with Asymmetry. <i>Buildings</i> , 2021, 11, 13.	1.4	4
14	Vehicle-road interaction analysis for pounding between cargo and trailer-bed. <i>Vehicle System Dynamics</i> , 2021, 59, 547-567.	2.2	7
15	Earthquake Engineering in Areas Away from Tectonic Plate Boundaries. <i>Lecture Notes in Civil Engineering</i> , 2021, , 367-380.	0.3	0
16	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
17	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
18	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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19	Determination of contact force by compression testing of cylindrical specimens. <i>MethodsX</i> , 2019, 6, 1957-1966.	0.7	1
20	Use of Macroseismic Intensity Data to Validate a Regionally Adjustable Ground Motion Prediction Model. <i>Geosciences (Switzerland)</i> , 2019, 9, 422.	1.0	8
21	Contact force generated by impact of boulder on concrete surface. <i>International Journal of Impact Engineering</i> , 2019, 132, 103324.	2.4	9
22	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
23	Behaviour of plasterboard-lined steel-framed ceiling diaphragms. <i>Thin-Walled Structures</i> , 2019, 141, 1-14.	2.7	5
24	Rocking Behavior of Irregular Free-Standing Objects Subjected to Earthquake Motion. <i>Journal of Earthquake Engineering</i> , 2019, 23, 793-809.	1.4	13
25	Probabilistic modelling of forces of hail. <i>Natural Hazards</i> , 2018, 91, 133-153.	1.6	11
26	Dynamic loading on a prefabricated modular unit of a building during road transportation. <i>Journal of Building Engineering</i> , 2018, 18, 260-269.	1.6	34
27	Overtuning stability of L-shaped rigid barriers subjected to rockfall impacts. <i>Landslides</i> , 2018, 15, 1347-1357.	2.7	13
28	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
29	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
30	Displacement-Based Approach for the Assessment of Overtuning Stability of Rectangular Rigid Barriers Subjected to Point Impact. <i>Journal of Engineering Mechanics - ASCE</i> , 2018, 144, .	1.6	18
31	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
32	Recent technical advancement in natural terrain landslide risk mitigation measures in Hong Kong. <i>HKIE Transactions</i> , 2018, 25, 90-101.	1.9	2
33	Computer Simulation of Contact Forces Generated by Impact. <i>International Journal of Structural Stability and Dynamics</i> , 2017, 17, 1750005.	1.5	13
34	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
35	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
36	A refined design spectrum model for regions of lower seismicity. <i>Australian Journal of Structural Engineering</i> , 2017, 18, 3-10.	0.4	8

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37	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
38	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
39	Risks of failure of annealed glass panels subject to point contact actions. International Journal of Solids and Structures, 2017, 129, 177-194.	1.3	14
40	Effects of podium interference on shear force distributions in tower walls supporting tall buildings. Engineering Structures, 2017, 148, 639-659.	2.6	17
41	Analytical modelling of podium interference on tower walls in buildings. Australian Journal of Structural Engineering, 2017, 18, 238-253.	0.4	2
42	A design spectrum model for flexible soil sites in regions of low-to-moderate seismicity. Soil Dynamics and Earthquake Engineering, 2017, 92, 36-45.	1.9	21
43	Seismic assessment of cold-formed steel stud bracing wall panels using direct displacement based design approach. Bulletin of Earthquake Engineering, 2017, 15, 1261-1277.	2.3	10
44	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
45	Simplified elastic design checks for torsionally balanced and unbalanced low-medium rise buildings in lower seismicity regions. Earthquake and Structures, 2016, 11, 741-777.	1.0	4
46	A Numerical Investigation of the Performance of a Nacre-Like Composite under Blast Loading. Applied Mechanics and Materials, 2016, 846, 464-469.	0.2	12
47	Analytical study of point fixed glass facade systems under monotonic in-plane loading. Advances in Structural Engineering, 2016, 19, 611-626.	1.2	7
48	Deterministic solutions for contact force generated by impact of windborne debris. International Journal of Impact Engineering, 2016, 91, 126-141.	2.4	34
49	Minimum loading requirements for areas of low seismicity. Earthquake and Structures, 2016, 11, 539-561.	1.0	21
50	Contact forces generated by hailstone impact. International Journal of Impact Engineering, 2015, 84, 145-158.	2.4	43
51	Drift behaviour of lightly reinforced concrete columns and structural walls for seismic design applications. Australian Journal of Structural Engineering, 2015, 16, .	0.4	13
52	Collapse Behaviour Assessment of Precast Soft Storey Building. Procedia Engineering, 2015, 125, 1036-1042.	1.2	3
53	Local intraplate earthquake considerations for Singapore. IES Journal Part A: Civil and Structural Engineering, 2015, 8, 62-70.	0.4	2
54	Overtuning of precast RC columns in conditions of moderate ground shaking. Earthquake and Structures, 2015, 8, 1-18.	1.0	9

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55	AN INNOVATIVE PROCEDURE FOR ESTIMATING CONTACT FORCE DURING IMPACT. International Journal of Applied Mechanics, 2014, 06, 1450079.	1.3	7
56	Discussion: Seismic performance of lightly reinforced structural walls for design purposes. Magazine of Concrete Research, 2014, 66, 1073-1074.	0.9	0
57	Drift performance of lightly reinforced concrete columns. Engineering Structures, 2014, 59, 522-535.	2.6	28
58	In-Plane Drift Capacity of Contemporary Point Fixed Glass Facade Systems. Journal of Architectural Engineering, 2014, 20, .	0.8	10
59	Drift Performance of Point Fixed Glass Façade Systems. Advances in Structural Engineering, 2014, 17, 1481-1495.	1.2	17
60	Contact forces generated by fallen debris. Structural Engineering and Mechanics, 2014, 50, 589-603.	1.0	16
61	SIMPLIFIED ANALYSIS OF LOW VELOCITY IMPACT ACTIONS ON SHALLOW DOMES. International Journal of Applied Mechanics, 2013, 05, 1350013.	1.3	6
62	Seismic performance of lightly reinforced structural walls for design purposes. Magazine of Concrete Research, 2013, 65, 809-828.	0.9	17
63	Protocol for testing of cold-formed steel wall in regions of low-moderate seismicity. Earthquake and Structures, 2013, 4, 629-647.	1.0	3
64	A Simple Model for Estimating Shocks in Unrestrained Building Contents in an Earthquake. Journal of Earthquake Engineering, 2013, 17, 1126-1140.	1.4	3
65	Displacement-Controlled Behavior of Asymmetrical Single-Story Building Models. Journal of Earthquake Engineering, 2013, 17, 902-917.	1.4	10
66	Rapid Assessment for Collapse Vulnerability of Non-Ductile Structures in Areas of Low and Moderate Seismicity. , 2013, , .		0
67	Effects of cyclic loading on the long-term deflection of prestressed concrete beams. Computers and Concrete, 2013, 12, 739-754.	0.7	11
68	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
69	EVALUATION OF SIMPLIFIED METHODS OF ESTIMATING BEAM RESPONSES TO IMPACT. International Journal of Structural Stability and Dynamics, 2012, 12, 1250016.	1.5	32
70	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
71	Bi-linear displacement response spectrum model for engineering applications in low and moderate seismicity regions. Soil Dynamics and Earthquake Engineering, 2012, 43, 85-96.	1.9	17
72	Out-of-plane performance of a brick veneer steel-framed house subjected to seismic loads. Construction and Building Materials, 2012, 28, 779-790.	3.2	12

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73	Modeling shear rigidity of stratified bedrock in site response analysis. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 34, 89-98.	1.9	13
74	A New Approach to the Teaching of Structural Mechanics. <i>Procedia Engineering</i> , 2011, 14, 695-703.	1.2	1
75	Displacement controlled rocking behaviour of rigid objects. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 1653-1669.	2.5	40
76	Impact Resistance of Annealed Glass Panels. <i>Journal of Performance of Constructed Facilities</i> , 2011, 25, 422-432.	1.0	7
77	Conversion between Peak Ground Motion Parameters and Modified Mercalli Intensity Values. <i>Journal of Earthquake Engineering</i> , 2011, 15, 1138-1155.	1.4	25
78	Force-deformation behaviour modelling of cracked reinforced concrete by EXCEL spreadsheets. <i>Computers and Concrete</i> , 2011, 8, 43-57.	0.7	14
79	Corrections for effects of biaxial stresses in annealed glass. <i>Structural Engineering and Mechanics</i> , 2011, 39, 303-316.	1.0	1
80	Use of Spreadsheets for Analyses in Structural Engineering. , 2011, , 18-40.		0
81	Drift Demand Predictions in Low to Moderate Seismicity Regions. <i>Australian Journal of Structural Engineering</i> , 2010, 11, 195-206.	0.4	4
82	Dynamic Performance of a Brick Veneer House with Steel Framing. <i>Australian Journal of Structural Engineering</i> , 2010, 11, 231-242.	0.4	3
83	Drift Capacity of a Precast Soft-Storey Building in Melbourne. <i>Australian Journal of Structural Engineering</i> , 2010, 11, 177-193.	0.4	8
84	Ground motion modelling in Tehran based on the stochastic method. <i>Soil Dynamics and Earthquake Engineering</i> , 2010, 30, 525-535.	1.9	24
85	Collapse modelling analysis of a precast soft storey building in Australia. <i>Engineering Structures</i> , 2010, 32, 1925-1936.	2.6	18
86	Estimation of strengths in large annealed glass panels. <i>International Journal of Solids and Structures</i> , 2010, 47, 2591-2599.	1.3	28
87	Inelastic Displacement Demand of Strength-Degraded Structures. <i>Journal of Earthquake Engineering</i> , 2010, 14, 487-511.	1.4	16
88	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
89	Yield curvature for seismic design of circular reinforced concrete columns. <i>Magazine of Concrete Research</i> , 2010, 62, 741-748.	0.9	25
90	Regional differences in attenuation modelling for Eastern China. <i>Journal of Asian Earth Sciences</i> , 2010, 39, 441-459.	1.0	9

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91	Modelling of seismically induced storey-drift in buildings. <i>Structural Engineering and Mechanics</i> , 2010, 35, 459-478.	1.0	5
92	Collapse Modelling of Soft-Storey Buildings. <i>Australian Journal of Structural Engineering</i> , 2009, 10, 11-23.	0.4	11
93	Rapid assessment of seismic demand in existing building structures. <i>Structural Design of Tall and Special Buildings</i> , 2009, 18, 427-439.	0.9	32
94	Seismic load estimates of distant subduction earthquakes affecting Singapore. <i>Engineering Structures</i> , 2009, 31, 1230-1240.	2.6	10
95	Collapse of Reinforced Concrete Column by Vehicle Impact. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2008, 23, 427-436.	6.3	52
96	Recent Developments in the Research and Practice of Earthquake Engineering in Australia. <i>Australian Journal of Structural Engineering</i> , 2008, 8, 13-27.	0.4	1
97	Cyclic testing of unreinforced masonry walls in two-way bending. <i>Earthquake Engineering and Structural Dynamics</i> , 2007, 36, 801-821.	2.5	108
98	A SIMPLE DISPLACEMENT-BASED MODEL FOR PREDICTING SEISMICALLY INDUCED OVERTURNING. <i>Journal of Earthquake Engineering</i> , 2006, 10, 775-814.	1.4	18
99	Regional and local factors in attenuation modelling: Hong Kong case study. <i>Journal of Asian Earth Sciences</i> , 2006, 27, 892-906.	1.0	32
100	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
101	Generic Approach for Modelling Earthquake Hazard. <i>Advances in Structural Engineering</i> , 2006, 9, 67-82.	1.2	13
102	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
103	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
104	Estimating non-linear site response by single period approximation. <i>Earthquake Engineering and Structural Dynamics</i> , 2006, 35, 1053-1076.	2.5	25
105	Simple models for estimating period-shift and damping in soil. <i>Earthquake Engineering and Structural Dynamics</i> , 2006, 35, 1925-1947.	2.5	23
106	Progressive Collapse Analysis of RC Frames Subjected to Blast Loading. <i>Australian Journal of Structural Engineering</i> , 2006, 7, 47-55.	0.4	8
107	Title is missing!. <i>Journal of Earthquake Engineering</i> , 2006, 10, 775.	1.4	2
108	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

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109	Simplified displacement demand prediction of tall asymmetric buildings subjected to long-distance earthquakes. <i>Engineering Structures</i> , 2005, 27, 335-348.	2.6	5
110	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
111	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
112	Experimental Investigation of Unreinforced Brick Masonry Walls in Flexure. <i>Journal of Structural Engineering</i> , 2004, 130, 423-432.	1.7	141
113	An attenuation model for distant earthquakes. <i>Earthquake Engineering and Structural Dynamics</i> , 2004, 33, 183-210.	2.5	16
114	Timeâ€‘history analysis of URM walls in out-of-plane flexure. <i>Engineering Structures</i> , 2003, 25, 743-754.	2.6	66
115	A recommended earthquake response spectrum model for Australia. <i>Australian Journal of Structural Engineering</i> , 2003, 5, 17-27.	0.4	23
116	Intensity attenuation relationship for the South China region and comparison with the component attenuation model. <i>Journal of Asian Earth Sciences</i> , 2002, 20, 775-790.	1.0	24
117	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
118	Response spectrum predictions for potential near-field and far-field earthquakes affecting Hong Kong: rock sites. <i>Soil Dynamics and Earthquake Engineering</i> , 2002, 22, 47-72.	1.9	27
119	Scenario predictions for potential near-field and far-field earthquakes affecting Hong Kong. <i>Soil Dynamics and Earthquake Engineering</i> , 2002, 22, 29-46.	1.9	26
120	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
121	Response spectrum predictions for potential near-field and far-field earthquakes affecting Hong Kong: soil sites. <i>Soil Dynamics and Earthquake Engineering</i> , 2002, 22, 419-440.	1.9	29
122	Seismic assessment of transfer plate high rise buildings. <i>Structural Engineering and Mechanics</i> , 2002, 14, 287-306.	1.0	18
123	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
124	Review of modern concepts in the engineering interpretation of earthquake response spectra. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2001, 146, 75-84.	0.4	5
125	Seismic displacement response spectrum estimated from the frame analogy soil amplification model. <i>Engineering Structures</i> , 2001, 23, 1437-1452.	2.6	43
126	Performance-based design in earthquake engineering: a multi-disciplinary review. <i>Engineering Structures</i> , 2001, 23, 1525-1543.	2.6	52

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127	Response spectral relationships for rock sites derived from the component attenuation model. Earthquake Engineering and Structural Dynamics, 2000, 29, 1457-1489.	2.5	56
128	Response spectrum modelling for rock sites in low and moderate seismicity regions combining velocity, displacement and acceleration predictions. Earthquake Engineering and Structural Dynamics, 2000, 29, 1491-1525.	2.5	53
129	Title is missing!. Journal of Earthquake Engineering, 2000, 4, 321.	1.4	11
130	GENERATION OF SYNTHETIC EARTHQUAKE ACCELEROGRAMS USING SEISMOLOGICAL MODELLING: A REVIEW. Journal of Earthquake Engineering, 2000, 4, 321-354.	1.4	97
131	The ductility reduction factor in the seismic design of buildings. Earthquake Engineering and Structural Dynamics, 1998, 27, 749-769.	2.5	35
132	Review of the torsional coupling of asymmetrical wall-frame buildings. Engineering Structures, 1997, 19, 233-246.	2.6	9
133	BUILDING DUCTILITY DEMAND: INTERPLATE VERSUS INTRAPLATE EARTHQUAKES. Earthquake Engineering and Structural Dynamics, 1996, 25, 965-985.	2.5	8
134	Curvature Ductility of Concrete Element under High Strain-Rates. Applied Mechanics and Materials, 0, 166-169, 2910-2917.	0.2	2
135	Yield Penetration Displacement of Lightly Reinforced Concrete Columns. Applied Mechanics and Materials, 0, 845, 119-125.	0.2	2
136	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
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