Nawawi Chouw

List of Publications by Citations

126 papers	4,019 citations	31 h-index	61 g-index
131 ext. papers	4,606 ext. citations	3.6 avg, IF	6.23 L-index

#	Paper	IF	Citations
126	Flax fibre and its composites □A review. *Composites Part B: Engineering*, **2014**, 56, 296-317	10	733
125	Improving the mechanical properties of natural fibre fabric reinforced epoxy composites by alkali treatment. *Journal of Reinforced Plastics and Composites*, **2012**, 31, 425-437	2.9	251
124	Mechanical and dynamic properties of coconut fibre reinforced concrete. *Construction and Building Materials*, **2012**, 30, 814-825	6.7	214
123	Effect of alkali treatment on microstructure and mechanical properties of coir fibres, coir fibre reinforced-polymer composites and reinforced-cementitious composites. *Construction and Building Materials*, **2016**, 112, 168-182	6.7	192
122	Crashworthiness characteristics of flax fibre reinforced epoxy tubes for energy absorption application. *Materials & Design*, **2013**, 51, 629-640		149
121	Effect of water, seawater and alkaline solution ageing on mechanical properties of flax fabric/epoxy composites used for civil engineering applications. *Construction and Building Materials*, **2015**, 99, 118-127	6.7	116
120	Effect of UV and water spraying on the mechanical properties of flax fabric reinforced polymer composites used for civil engineering applications. *Materials & Design*, **2015**, 71, 17-25		105
119	Effect of triggering and polyurethane foam-filler on axial crushing of natural flax/epoxy composite tubes. *Materials & Design*, **2014**, 56, 528-541		87
118	Microstructure, flexural properties and durability of coir fibre reinforced concrete beams externally strengthened with flax FRP composites. *Composites Part B: Engineering*, **2015**, 80, 343-354	10	86
117	Experimental study of flax FRP tube encased coir fibre reinforced concrete composite column. *Construction and Building Materials*, **2013**, 40, 1118-1127	6.7	84
116	Lateral crushing of empty and polyurethane-foam filled natural flax fabric reinforced epoxy composite tubes. *Composites Part B: Engineering*, **2014**, 63, 15-26	10	83
115	Natural FRP tube confined fibre reinforced concrete under pure axial compression: A comparison with glass/carbon FRP. *Thin-Walled Structures*, **2014**, 82, 159-169	4.7	70
114	Study of SSI and non-uniform ground motion effect on pounding between bridge girders. *Soil Dynamics and Earthquake Engineering*, **2005**, 25, 717-728	3.5	70
113	Pounding Damage to Buildings and Bridges in the 22 February 2011 Christchurch Earthquake. *International Journal of Protective Structures*, **2012**, 3, 123-139	1.5	68
112	Experimental investigations on bond strength between coconut fibre and concrete. *Materials & Design*, **2013**, 44, 596-605		66
111	Significance of SSI and nonuniform near-fault ground motions in bridge response I: Effect on response with conventional expansion joint. *Engineering Structures*, **2008**, 30, 141-153	4.7	66
110	Behavior and analytical modeling of natural flax fibre-reinforced polymer tube confined plain concrete and coir fibre-reinforced concrete. *Journal of Composite Materials*, **2013**, 47, 2133-2148	2.7	65

109	Experimental testing of a rocking timber shear wall with slip-friction connectors. *Earthquake Engineering and Structural Dynamics*, **2014**, 43, 1621-1639	4	58
108	The behaviour of coconut fibre reinforced concrete (CFRC) under impact loading. *Construction and Building Materials*, **2017**, 134, 452-461	6.7	57
107	Effect of column parameters on flax FRP confined coir fibre reinforced concrete. *Construction and Building Materials*, **2014**, 55, 299-312	6.7	57
106	Influence of ground motion spatial variation, site condition and SSI on the required separation distances of bridge structures to avoid seismic pounding. *Earthquake Engineering and Structural Dynamics*, **2011**, 40, 1027-1043	4	54
105	Compressive and flexural behaviour and theoretical analysis of flax fibre reinforced polymer tube encased coir fibre reinforced concrete composite. *Materials & Design*, **2013**, 52, 801-811		52
104	Dynamic and static properties of flax fibre reinforced polymer tube confined coir fibre reinforced concrete. *Journal of Composite Materials*, **2014**, 48, 1595-1610	2.7	48
103	Experimental investigation of spatially varying effect of ground motions on bridge pounding. *Earthquake Engineering and Structural Dynamics*, **2012**, 41, 1959-1976	4	48
102	Experimental investigations on coconut-fibre rope tensile strength and pullout from coconut fibre reinforced concrete. *Construction and Building Materials*, **2013**, 41, 681-690	6.7	46
101	A new type of symmetric slip-friction connector. *Journal of Constructional Steel Research*, **2014**, 94, 11-22	3.8	44
100	Significance of SSI and non-uniform near-fault ground motions in bridge response II: Effect on response with modular expansion joint. *Engineering Structures*, **2008**, 30, 154-162	4.7	44
99	A numerical study of the seismic behaviour of timber shear walls with slip-friction connectors. *Engineering Structures*, **2012**, 34, 233-243	4.7	42
98	Dynamic response of mortar-free interlocking structures. *Construction and Building Materials*, **2013**, 42, 168-189	6.7	33
97	Capacity of innovative interlocking blocks under monotonic loading. *Construction and Building Materials*, **2012**, 37, 812-821	6.7	33
96	Effect of abutment excitation on bridge pounding. *Engineering Structures*, **2013**, 54, 57-68	4.7	32
95	Effect of Uplift and Soil Nonlinearity on Plastic Hinge Development and Induced Vibrations in Structures. *Advances in Structural Engineering*, **2013**, 16, 135-147	1.9	30
94	A generic structural pounding model using numerically exact displacement proportional damping. *Engineering Structures*, **2014**, 62-63, 33-41	4.7	29
93	Effect of bond on compressive behaviour of flax fibre reinforced polymer tube confined coir fibre reinforced concrete. *Journal of Reinforced Plastics and Composites*, **2013**, 32, 273-285	2.9	29
92	Experimental investigations of the seismic performance of bridge piers with rounded rectangular cross-sections. *Earthquake and Structures*, **2014**, 7, 463-484		28

91	On energy absorption capacity, flexural and dynamic properties of flax/epoxy composite tubes. *Fibers and Polymers*, **2014**, 15, 1270-1277	2	27
90	Effect of thickness on the impact resistance of flax fibre-reinforced polymer. *Journal of Reinforced Plastics and Composites*, **2016**, 35, 1277-1289	2.9	27
89	STATE-OF-THE-ART REVIEW ON SEISMIC INDUCED POUNDING RESPONSE OF BRIDGE STRUCTURES. *Journal of Earthquake and Tsunami*, **2013**, 07, 1350019	1.1	26
88	Influence of soil-structure interaction on pounding response of adjacent buildings due to near-source earthquakes. *Journal of Applied Mechanics*, **2002**, 5, 543-553		26
87	3D FEM Analysis of Pounding Response of Bridge Structures at a Canyon Site to Spatially Varying Ground Motions. *Advances in Structural Engineering*, **2013**, 16, 619-640	1.9	25
86	Propagation of vibration in a soil layer over bedrock. *Engineering Analysis With Boundary Elements*, **1991**, 8, 125-131	2.6	24
85	Influence of pounding and skew angle on seismic response of bridges. *Engineering Structures*, **2017**, 148, 890-906	4.7	22
84	A comparative study of steel reinforced concrete and flax fibre reinforced polymer tube confined coconut fibre reinforced concrete beams. *Journal of Reinforced Plastics and Composites*, **2013**, 32, 1155-1164	2.9	21
83	The effect of seismic uplift on the shell stresses of liquid-storage tanks. *Earthquake Engineering and Structural Dynamics*, **2015**, 44, 1979-1996	4	20
82	Experimental assessment of contact forces on a rigid base following footing uplift. *Earthquake Engineering and Structural Dynamics*, **2017**, 46, 1835-1854	4	19
81	Experimental investigation of inelastic bridge response under spatially varying excitations with pounding. *Engineering Structures*, **2014**, 79, 106-116	4.7	19
80	Strain rate effect on the dynamic tensile behaviour of flax fibre reinforced polymer. *Composite Structures*, **2018**, 200, 135-143	5.3	19
79	Multi-Sided Pounding Response of Bridge Structures with Non-Linear Bearings to Spatially Varying Ground Excitation. *Advances in Structural Engineering*, **2006**, 9, 55-66	1.9	18
78	Compressive behaviour of flax FRP double tube confined coconut fibre reinforced concrete. *Construction and Building Materials*, **2016**, 112, 666-673	6.7	17
77	Experimental study of the effect of a flexible base on the seismic response of a liquid storage tank. *Thin-Walled Structures*, **2019**, 139, 334-346	4.7	16
76	Lessons learnt from 2011 Christchurch earthquakes. *Bulletin of the New Zealand Society for Earthquake Engineering*, **2011**, 44, 319-333	0.5	16
75	Rocking Timber Structure with Slip-Friction Connectors Conceptualized As a Plastically Deformable Hinge within a Multistory Shear Wall. *Journal of Structural Engineering*, **2016**, 142,	3	15
74	Residual compressive and shear strengths of novel coconut-fibre-reinforced-concrete interlocking blocks. *Construction and Building Materials*, **2014**, 66, 533-540	6.7	15

73	Seismic design of bridge structures with allowance for large relative girder movements to avoid pounding. *Bulletin of the New Zealand Society for Earthquake Engineering*, **2009**, 42, 75-85	0.5	15
72	Flexural behaviour of flax FRP double tube confined coconut fibre reinforced concrete beams with interlocking interface. *Composite Structures*, **2018**, 192, 217-224	5.3	13
71	Experimental and theoretical studies of flax FRP strengthened coconut fibre reinforced concrete slabs under impact loadings. *Construction and Building Materials*, **2018**, 171, 546-557	6.7	13
70	Flexural behaviour of FFRP wrapped CFRC beams under static and impact loadings. *International Journal of Impact Engineering*, **2018**, 111, 46-54	4	13
69	Nonlinear flexural behaviour of flax FRP double tube confined coconut fibre reinforced concrete. *Materials and Design*, **2016**, 93, 247-254	8.1	12
68	Limitations in Simulation of Building Pounding in Earthquakes. *International Journal of Protective Structures*, **2014**, 5, 123-150	1.5	12
67	Impact of Vertical Ground Excitation on a Bridge with Footing Uplift. *Journal of Earthquake Engineering*, **2016**, 20, 1035-1053	1.8	12
66	Experimental Evaluation of the Seismic Response of Skewed Bridges with Emphasis on Poundings between Girder and Abutments. *Shock and Vibration*, **2019**, 2019, 1-15	1.1	12
65	Behaviour of CFRC beams strengthened by FFRP laminates under static and impact loadings. *Construction and Building Materials*, **2017**, 155, 956-964	6.7	11
64	Evaluation of seismic ground motion scaling procedures for linear time-history analysis of liquid storage tanks. *Engineering Structures*, **2015**, 102, 266-277	4.7	11
63	A comparative study of impact behaviour between natural flax and glass FRP confined concrete composites. *Construction and Building Materials*, **2020**, 241, 117997	6.7	11
62	Effect of the interface condition on the bond between flax FRP tube and coconut fibre reinforced concrete composites. *Construction and Building Materials*, **2018**, 167, 597-604	6.7	10
61	Dynamic response of a non-structural component with three supports in multi-directional earthquakes. *Engineering Structures*, **2017**, 150, 143-152	4.7	10
60	Review of Approaches for Analysing Secondary Structures in Earthquakes and Evaluation of Floor Response Spectrum Approach. *International Journal of Protective Structures*, **2015**, 6, 237-257	1.5	10
59	Influence of uplift on liquid storage tanks during earthquakes. *Coupled Systems Mechanics*, **2012**, 1, 311-324		10
58	A numerical approach for simulating the behaviour of timber shear walls. *Structural Engineering and Mechanics*, **2012**, 42, 383-407		10
57	Comparison between standards for seismic design of liquid storage tanks with respect to soil-foundation-structure interaction and uplift. *Bulletin of the New Zealand Society for Earthquake Engineering*, **2012**, 45, 40-46	0.5	10
56	Experimental study of slip-friction connectors for controlling the maximum seismic demand on a liquid storage tank. *Engineering Structures*, **2015**, 103, 134-146	4.7	9

55	Experimental findings of the suppression of rotary sloshing on the dynamic response of a liquid storage tank. *Journal of Fluids and Structures*, **2020**, 96, 103007	3.1	9
54	Flax fabric-reinforced epoxy pipes subjected to lateral compression. *Composite Structures*, **2020**, 244, 112307	5.3	9
53	Seismic performance of skewed bridges with simultaneous effects of pounding and supporting soil. *Engineering Structures*, **2018**, 174, 26-38	4.7	9
52	The influence of surface preparation and the lubricating effect of mill scale on the performance of slip-friction connectors. *Construction and Building Materials*, **2017**, 155, 1025-1038	6.7	8
51	Required separation distance between decks and at abutments of a bridge crossing a canyon site to avoid seismic pounding. *Earthquake Engineering and Structural Dynamics*, **2009**, 39, n/a-n/a	4	8
50	Evaluation of numerical pounding models with experimental validation. *Bulletin of the New Zealand Society for Earthquake Engineering*, **2013**, 46, 117-130	0.5	8
49	Influence of shallow footings on the dynamic response of saturated sand with low confining pressure. *Soil Dynamics and Earthquake Engineering*, **2020**, 128, 105872	3.5	8
48	Experimental study and numerical simulation on bond between FFRP and CFRC components. *Journal of Reinforced Plastics and Composites*, **2017**, 36, 305-320	2.9	6
47	Shake Table Study on the Effect of Mainshock-Aftershock Sequences on Structures with SFSI. *Shock and Vibration*, **2017**, 2017, 1-12	1.1	6
46	Response of a Rc Bridge in WA to Simulated Spatially Varying Seismic Ground Motions. *Australian Journal of Structural Engineering*, **2008**, 8, 85-98	1.4	6
45	Effect of simultaneous spatial near-source ground excitation and soil on the pounding response of bridge girders. *Journal of Applied Mechanics*, **2003**, 6, 779-788		6
44	Vibration-based damage identification of an unreinforced masonry house model. *Advances in Structural Engineering*, **2017**, 20, 331-351	1.9	5
43	Effects of Slenderness and Fundamental Frequency on the Dynamic Response of Adjacent Structures. *International Journal of Structural Stability and Dynamics*, **2019**, 19, 1950105	1.9	5
42	Estimation of response of skewed bridges considering pounding and supporting soil. *Engineering Structures*, **2019**, 184, 469-479	4.7	5
41	A Stress Distribution of Thin Rectangular Steel Wall Under a Uniform Compression. *International Journal of Structural Stability and Dynamics*, **2020**, 20, 2050037	1.9	5
40	Prediction of the response of secondary structures under dynamic loading considering primary□secondary structure interaction. *Advances in Structural Engineering*, **2018**, 21, 2143-2153	1.9	5
39	Influence of mass and contact surface on pounding response of RC structures. *Earthquake and Structures*, **2014**, 7, 385-400		5
38	Shear-displacement diagram of steel plate shear walls with precompression from adjacent frame columns. *Structural Design of Tall and Special Buildings*, **2019**, 28, e1585	1.8	4

37	Determination of shear strength of steel shear walls with three different vertical stress distributions for considering the gravity load effect. *Journal of Constructional Steel Research*, **2020**, 170, 106113	3.8	4
36	Dynamic response of stand-alone and adjacent footing on saturated sand. *Soil Dynamics and Earthquake Engineering*, **2021**, 143, 106584	3.5	4
35	Shake table investigation of nonlinear soil–structure–fluid interaction of a thin-walled storage tank under earthquake load. *Thin-Walled Structures*, **2021**, 167, 108143	4.7	4
34	Damage Identification of Unreinforced Masonry Panels Using Vibration-Based Techniques. *Shock and Vibration*, **2017**, 2017, 1-14	1.1	3
33	Influence of simultaneous multi-axial ground excitation and a compliant base on the response of a non-structural component with multiple supports. *Engineering Structures*, **2018**, 174, 618-628	4.7	3
32	Low-Damage Design Philosophy for Future Earthquake-Resistant Structures **2017**,		3
31	Experimental Investigation of Flax FRP Tube Confined Coconut Fibre Reinforced Concrete. *Key Engineering Materials*, **2013**, 594-595, 416-420	0.4	3
30	A shake table investigation on interaction between buildings in a row. *Coupled Systems Mechanics*, **2013**, 2, 175-190		3
29	Influence of ground motion characteristics on seismic response of skewed bridges. *Structure and Infrastructure Engineering*, **2019**, 15, 798-811	2.9	3
28	Seismic Performance of Natural Fibre Reinforced Polymer-Concrete Bridge Piers. *Advanced Materials Research*, **2015**, 1120-1121, 1480-1484	0.5	2
27	Seismic fragility analysis of bridge response due to spatially varying ground motions. *Coupled Systems Mechanics*, **2015**, 4, 297-316		2
26	Effect of earthquake-induced transverse poundings on a 32 m span railway bridge isolated by friction pendulum bearings. *Engineering Structures*, **2022**, 251, 113538	4.7	2
25	Field Tests on Total Gap of Modular Expansion Joints to Avoid Bridge Pounding. *Frontiers in Built Environment*, **2016**, 2,	2.2	2
24	Shear strength of stiffened steel shear walls with considering the gravity load effect through a three-segment distribution. *Structures*, **2021**, 29, 265-272	3.4	2
23	Experimental study of the seismic response of a structure set amongst closely adjacent structures. *Earthquake Engineering and Structural Dynamics*, **2021**, 50, 3771	4	2
22	Impact of the excitation frequencies on wall stresses in a storage tank. *Engineering Structures*, **2021**, 244, 112775	4.7	2
21	Experimental Investigation of Steel Plate Shear Walls under Shear-Compression Interaction. *Shock and Vibration*, **2019**, 2019, 1-11	1.1	1
20	Discussion on 'Relaxation method for pounding action between adjacent buildings at expansion joint' by H. Takabatake, M. Yasui, Y. Nakagawa and A. Kishida. *Earthquake Engineering and Structural Dynamics*, **2015**, 44, 159-162	4	1

19	Influence of base plate bending stiffness on the seismic performance of liquid storage tanks. *Procedia Engineering*, **2017**, 199, 170-175		1
18	Structural Damage Modelling and Assessment 2014. *Mathematical Problems in Engineering*, **2015**, 2015, 1-2	1.1	1
17	A low damage and ductile rocking timber wall with passive energy dissipation devices. *Earthquake and Structures*, **2015**, 9, 127-143		1
16	Influence of Excess Pore-pressure on the Seismic Response of Single and Closely Adjacent Structures on Saturated Sand. *Journal of Earthquake Engineering*,1-25	1.8	1
15	Building and bridge pounding damage observed in the 2011 Christchurch earthquake. *Bulletin of the New Zealand Society for Earthquake Engineering*, **2011**, 44, 334-341	0.5	1
14	Renovation Effect of Flax FRP-Reinforced Cracked Concrete Slabs under Impact Loadings. *Materials* , **2021**, 14,	3.5	1
13	Influence of Transient and Partial Footing Separation on the Seismic Response of Skewed Bridges with Soil Support. *International Journal of Structural Stability and Dynamics*, **2021**, 21, 2150132	1.9	1
12	Dynamic compressive behaviour of coconut fibre-reinforced concrete composite. *Magazine of Concrete Research*, **2020**, 72, 1125-1134	2	1
11	Experimental and Finite-Element Study of Buried Pipes Connected by Bellow Joint under Axial Cyclic Loading. *Journal of Pipeline Systems Engineering and Practice*, **2021**, 12, 04020069	1.5	1
10	Experimental Study on Dynamic Amplification Factor of Simple-Supported Reinforced Concrete Beams Under Impact Loading Generated by an Impulse Hammer. *International Journal of Structural Stability and Dynamics*, **2021**, 21, 2150036	1.9	1
9	Experimental Study of the Effect of Proximity between Adjacent Buildings on their Dynamic Response. *International Journal of Structural Stability and Dynamics*, **2021**, 21, 2150048	1.9	1
8	Evaluation of the adequacy of a spring-mass model in analyses of liquid sloshing in anchored storage tanks. *Earthquake Engineering and Structural Dynamics*, **2021**, 50, 3916	4	0
7	Structural Damage Modelling and Assessment. *Mathematical Problems in Engineering*, **2014**, 2014, 1-2	1.1	
6	Effect of soil flexibility on bridges subjected to spatially varying excitations. *Coupled Systems Mechanics*, **2014**, 3, 213-232		
5	Rocking Response of Free-Standing Rigid Blocks on Slopes. *International Journal of Structural Stability and Dynamics*, **2020**, 20, 2050111	1.9	
4	Resilient Civil Infrastructure under Dynamic Loadings. *Shock and Vibration*, **2018**, 2018, 1-1	1.1	
3	Resilient Civil Infrastructure under Dynamic Loadings 2020. *Shock and Vibration*, **2021**, 2021, 1-1	1.1	
2	Abaqus Simulation on Basalt Fibre Reinforced Polymer Epoxy Tube Subjected to Axial Compression for Energy Absorption. *Journal of Physics: Conference Series*, **2021**, 2129, 012034	0.3	

1	Indentation and puncture response characteristics of flax fibre-reinforced polymer pipes. *Composites Part A: Applied Science and Manufacturing*, **2022**, 106996	8.4