ChienKuo Chiu

List of Publications by Citations

34 papers	390 citations	8 h-index	19 g-index
37 ext. papers	495 ext. citations	3.2 avg, IF	3.7 L-index

#	Paper	IF	Citations
34	Optimizing the Prediction Accuracy of Concrete Compressive Strength Based on a Comparison of Data-Mining Techniques. *Journal of Computing in Civil Engineering*, **2011**, 25, 242-253	5	172
33	Failure analysis of wind turbine blade under critical wind loads. *Engineering Failure Analysis*, **2013**, 27, 99-118	3.2	106
32	Structural Health Monitoring and Interface Damage Detection for Infill Reinforced Concrete Walls in Seismic Retrofit of Reinforced Concrete Frames Using Piezoceramic-Based Transducers Under the Cyclic Loading. *Applied Sciences (Switzerland)*, **2019**, 9, 312	2.6	11
31	Probability-based damage assessment for reinforced concrete bridge columns considering the corrosive and seismic hazards in Taiwan. *Natural Hazards*, **2014**, 71, 2143-2164	3	10
30	Effects of Maintenance Strategies on the Life-cycle Performance and Cost of a Deteriorating RC Building with High-Seismic Hazard. *Journal of Advanced Concrete Technology*, **2010**, 8, 157-170	2.3	10
29	Reliability-based service life assessment for deteriorating reinforced concrete buildings considering the effect of cumulative damage. *Structure and Infrastructure Engineering*, **2014**, 10, 1101-1118	2.9	9
28	Reliability-based design method of suppressing chloride ingress for reinforced concrete buildings located in coastal regions of Taiwan. *Structure and Infrastructure Engineering*, **2016**, 12, 188-207	2.9	8
27	Risk-based maintenance strategy for deteriorating bridges using a hybrid computational intelligence technique: a case study. *Structure and Infrastructure Engineering*, **2019**, 15, 334-350	2.9	8
26	Experimental investigation on the seismic anchorage behavior of headed bars based on full-size specimens of exterior and interior beam–column joints. *Advances in Structural Engineering*, **2016**, 19, 777-794	1.9	7
25	Analysis of lifetime losses of low-rise reinforced concrete buildings attacked by corrosion and earthquakes using a novel method. *Structure and Infrastructure Engineering*, **2013**, 9, 1225-1239	2.9	7
24	Experimental Quantification on the Residual Seismic Capacity of Damaged RC Column Members. *International Journal of Concrete Structures and Materials*, **2019**, 13,	2.8	5
23	Crack-based damage quantification for shear-critical HSRC column members using piezoceramic transducers. *Engineering Structures*, **2019**, 201, 109777	4.7	5
22	A novel lifetime cost-benefit analysis method for seismic retrofitting of low-rise reinforced concrete buildings. *Structure and Infrastructure Engineering*, **2013**, 9, 891-902	2.9	5
21	Risk assessment of environmental corrosion for reinforcing steel bars embedded in concrete in Taiwan. *Natural Hazards*, **2015**, 75, 581-611	3	5
20	Experimental Investigation on the Shear Crack Development of Shear-Critical High-Strength Reinforced Concrete Beams. *Journal of Advanced Concrete Technology*, **2014**, 12, 223-238	2.3	4
19	Quantification of the reduction factors of seismic capacity for damaged RC column members using the experiment database. *Earthquake Engineering and Structural Dynamics*, **2021**, 50, 756-776	4	4
18	Serviceability-related reliability for mainshock-damaged reinforced concrete piers considering the aftershock-induced seismic hazards. *Natural Hazards*, **2017**, 87, 1333-1359	3	3

List of Publications

17	Study on straight development length of tensile threaded bars in high-strength reinforced concrete members. *Construction and Building Materials*, **2018**, 183, 661-674	6.7	2
16	Evaluating Procedure of Optimal Seismic Retrofit Level for a Low-Rise Reinforced Concrete Building. *Journal of Advanced Concrete Technology*, **2011**, 9, 287-299	2.3	2
15	Study on the application of post-embedded piezoceramic transducers for crack detection on earthquake-damaged RC columns. *Smart Materials and Structures*, **2019**, 28, 055039	3.4	2
14	Uncertainty assessment of field weld connections and the related effects on service life of steel buildings. *Structure and Infrastructure Engineering*, **2019**, 15, 1333-1345	2.9	1
13	Seismic design requirements for reinforced concrete piers considering aftershock-induced seismic hazard. *Structure and Infrastructure Engineering*, **2018**, 14, 1244-1256	2.9	1
12	Optimal design base shear forces for reinforced concrete buildings considering seismic reliability and life-cycle costs **2013**, 36, 458-470		1
11	Application of Post-Embedded Piezoceramic Sensors for Force Detection on RC Columns under Seismic Loading. *Applied Sciences (Switzerland)*, **2020**, 10, 5061	2.6	1
10	Reliability-based constant-damage ductility demand spectra of mid-rise RC building structures using modified equivalent linearization method. *Structure and Infrastructure Engineering*, **2020**, 16, 495-518	2.9	1
9	Thickness design of concrete cover for circular RC piers considering two-dimensional diffusion effect of chloride ions in concrete. *Structure and Infrastructure Engineering*, **2020**, 1-16	2.9	0
8	Experimental Investigation on Mechanical Properties of SBR-Modified Mortar with Fly Ash for Patch Repair Material. *Journal of Advanced Concrete Technology*, **2018**, 16, 382-395	2.3	0
7	Smart sensing for post-earthquake damage quantification in RC members using piezoceramic transducers. *Automation in Construction*, **2021**, 131, 103888	9.6	0
6	Resilience-considered Seismic Risk Assessment and Mitigation of a Retrofitting Method for a Bridge under Multiple Seismic Events. *Journal of Earthquake Engineering*,1-21	1.8	0
5	Risk-based life-cycle maintenance strategies for corroded reinforced concrete buildings located in the region with high seismic hazard. *Structure and Infrastructure Engineering*, **2010**, 1-15	2.9	
4	Experimental quantification of seismic damage for RC infill walls using static and dynamic loading test. *Journal of Building Engineering*, **2022**, 50, 104177	5.2	
3	Estimation of Seismic Damage Induced by Near- and Far-Fault Earthquakes Using Modified Equivalent Linearization Method of Mid-Rise RC Buildings. *International Journal of Structural Stability and Dynamics*, **2020**, 20, 2041017	1.9	
2	Memory and reflection. *Trans/Form/Acao*, **2021**, 44, 151-168	0	
1	Preliminary seismic assessment for low-rise reinforced concrete buildings including corrosion-induced deterioration. *Structure and Infrastructure Engineering*,1-15	2.9	