

# ChienKuo Chiu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Experimental quantification of seismic damage for RC infill walls using static and dynamic loading test. <i>Journal of Building Engineering</i> , <b>2022</b> , 50, 104177	5.2	
33	Quantification of the reduction factors of seismic capacity for damaged RC column members using the experiment database. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2021</b> , 50, 756-776	4	4
32	Memory and reflection. <i>Trans/Form/Acao</i> , <b>2021</b> , 44, 151-168	0	
31	Smart sensing for post-earthquake damage quantification in RC members using piezoceramic transducers. <i>Automation in Construction</i> , <b>2021</b> , 131, 103888	9.6	0
30	Estimation of Seismic Damage Induced by Near- and Far-Fault Earthquakes Using Modified Equivalent Linearization Method of Mid-Rise RC Buildings. <i>International Journal of Structural Stability and Dynamics</i> , <b>2020</b> , 20, 2041017	1.9	
29	Application of Post-Embedded Piezoceramic Sensors for Force Detection on RC Columns under Seismic Loading. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 5061	2.6	1
28	Thickness design of concrete cover for circular RC piers considering two-dimensional diffusion effect of chloride ions in concrete. <i>Structure and Infrastructure Engineering</i> , <b>2020</b> , 1-16	2.9	0
27	Reliability-based constant-damage ductility demand spectra of mid-rise RC building structures using modified equivalent linearization method. <i>Structure and Infrastructure Engineering</i> , <b>2020</b> , 16, 495-518	2.9	1
26	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. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 312	2.6	11
25	Uncertainty assessment of field weld connections and the related effects on service life of steel buildings. <i>Structure and Infrastructure Engineering</i> , <b>2019</b> , 15, 1333-1345	2.9	1
24	Experimental Quantification on the Residual Seismic Capacity of Damaged RC Column Members. <i>International Journal of Concrete Structures and Materials</i> , <b>2019</b> , 13,	2.8	5
23	Crack-based damage quantification for shear-critical HSRC column members using piezoceramic transducers. <i>Engineering Structures</i> , <b>2019</b> , 201, 109777	4.7	5
22	Risk-based maintenance strategy for deteriorating bridges using a hybrid computational intelligence technique: a case study. <i>Structure and Infrastructure Engineering</i> , <b>2019</b> , 15, 334-350	2.9	8
21	Study on the application of post-embedded piezoceramic transducers for crack detection on earthquake-damaged RC columns. <i>Smart Materials and Structures</i> , <b>2019</b> , 28, 055039	3.4	2
20	Seismic design requirements for reinforced concrete piers considering aftershock-induced seismic hazard. <i>Structure and Infrastructure Engineering</i> , <b>2018</b> , 14, 1244-1256	2.9	1
19	Study on straight development length of tensile threaded bars in high-strength reinforced concrete members. <i>Construction and Building Materials</i> , <b>2018</b> , 183, 661-674	6.7	2
18	Experimental Investigation on Mechanical Properties of SBR-Modified Mortar with Fly Ash for Patch Repair Material. <i>Journal of Advanced Concrete Technology</i> , <b>2018</b> , 16, 382-395	2.3	0

17	Serviceability-related reliability for mainshock-damaged reinforced concrete piers considering the aftershock-induced seismic hazards. <i>Natural Hazards</i> , <b>2017</b> , 87, 1333-1359	3	3
16	Experimental investigation on the seismic anchorage behavior of headed bars based on full-size specimens of exterior and interior beam-column joints. <i>Advances in Structural Engineering</i> , <b>2016</b> , 19, 777-794	1.9	7
15	Reliability-based design method of suppressing chloride ingress for reinforced concrete buildings located in coastal regions of Taiwan. <i>Structure and Infrastructure Engineering</i> , <b>2016</b> , 12, 188-207	2.9	8
14	Risk assessment of environmental corrosion for reinforcing steel bars embedded in concrete in Taiwan. <i>Natural Hazards</i> , <b>2015</b> , 75, 581-611	3	5
13	Probability-based damage assessment for reinforced concrete bridge columns considering the corrosive and seismic hazards in Taiwan. <i>Natural Hazards</i> , <b>2014</b> , 71, 2143-2164	3	10
12	Reliability-based service life assessment for deteriorating reinforced concrete buildings considering the effect of cumulative damage. <i>Structure and Infrastructure Engineering</i> , <b>2014</b> , 10, 1101-1118	2.9	9
11	Experimental Investigation on the Shear Crack Development of Shear-Critical High-Strength Reinforced Concrete Beams. <i>Journal of Advanced Concrete Technology</i> , <b>2014</b> , 12, 223-238	2.3	4
10	A novel lifetime cost-benefit analysis method for seismic retrofitting of low-rise reinforced concrete buildings. <i>Structure and Infrastructure Engineering</i> , <b>2013</b> , 9, 891-902	2.9	5
9	Failure analysis of wind turbine blade under critical wind loads. <i>Engineering Failure Analysis</i> , <b>2013</b> , 27, 99-118	3.2	106
8	Analysis of lifetime losses of low-rise reinforced concrete buildings attacked by corrosion and earthquakes using a novel method. <i>Structure and Infrastructure Engineering</i> , <b>2013</b> , 9, 1225-1239	2.9	7
7	Optimal design base shear forces for reinforced concrete buildings considering seismic reliability and life-cycle costs <b>2013</b> , 36, 458-470		1
6	Evaluating Procedure of Optimal Seismic Retrofit Level for a Low-Rise Reinforced Concrete Building. <i>Journal of Advanced Concrete Technology</i> , <b>2011</b> , 9, 287-299	2.3	2
5	Optimizing the Prediction Accuracy of Concrete Compressive Strength Based on a Comparison of Data-Mining Techniques. <i>Journal of Computing in Civil Engineering</i> , <b>2011</b> , 25, 242-253	5	172
4	Effects of Maintenance Strategies on the Life-cycle Performance and Cost of a Deteriorating RC Building with High-Seismic Hazard. <i>Journal of Advanced Concrete Technology</i> , <b>2010</b> , 8, 157-170	2.3	10
3	Risk-based life-cycle maintenance strategies for corroded reinforced concrete buildings located in the region with high seismic hazard. <i>Structure and Infrastructure Engineering</i> , <b>2010</b> , 1-15	2.9	
2	Preliminary seismic assessment for low-rise reinforced concrete buildings including corrosion-induced deterioration. <i>Structure and Infrastructure Engineering</i> , 1-15	2.9	
1	Resilience-considered Seismic Risk Assessment and Mitigation of a Retrofitting Method for a Bridge under Multiple Seismic Events. <i>Journal of Earthquake Engineering</i> , 1-21	1.8	0