Se Woon Choi

List of Publications by Year
in descending order

36 papers	785 citations	430874 18 h-index	526287 27 g-index
36 all docs	36 docs citations	36 times ranked	725 citing authors

#	Article	IF	Citations
1	Cost and CO2 Emission Optimization of Steel Reinforced Concrete Columns in High-Rise Buildings. Energies, 2013, 6, 5609-5624.	3.1	72
2	A Wireless MEMS-Based Inclinometer Sensor Node for Structural Health Monitoring. Sensors, 2013, 13, 16090-16104.	3.8	55
3	Genetic-algorithm-based minimum weight design of an outrigger system for high-rise buildings. Engineering Structures, 2016, 117, 496-505.	5.3	46
4	GAâ€Based Multiâ€Objective Optimizationâfor Retrofit Design on a Multiâ€Core PC Cluster. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 965-980.	9.8	43
5	An Integrative Structural Health Monitoring System for the Local/Global Responses of a Large-Scale Irregular Building under Construction. Sensors, 2013, 13, 9085-9103.	3.8	40
6	Influence of variations in CO 2 emission data upon environmental impact of building construction. Journal of Cleaner Production, 2017, 140, 1194-1203.	9.3	40
7	Evaluation of the influence of design factors on the CO2 emissions and costs of reinforced concrete columns. Energy and Buildings, 2014, 82, 378-384.	6.7	37
8	A New Position Measurement System Using a Motion-Capture Camera for Wind Tunnel Tests. Sensors, 2013, 13, 12329-12344.	3.8	34
9	Multi-objective seismic retrofit method for using FRP jackets in shear-critical reinforced concrete frames. Composites Part B: Engineering, 2014, 56, 207-216.	12.0	33
10	A Practical Monitoring System for the Structural Safety of Mega-Trusses Using Wireless Vibrating Wire Strain Gauges. Sensors, 2013, 13, 17346-17361.	3.8	31
11	A Deformed Shape Monitoring Model for Building Structures Based on a 2D Laser Scanner. Sensors, 2013, 13, 6746-6758.	3.8	28
12	Sustainable design model to reduce environmental impact of building construction with composite structures. Journal of Cleaner Production, 2016, 137, 823-832.	9.3	28
13	Multi-objective seismic design method for ensuring beam-hinging mechanism in steel frames. Journal of Constructional Steel Research, 2012, 74, 17-25.	3.9	27
14	Design model for analysis of relationships among CO 2 emissions, cost, and structural parameters in green building construction with composite columns. Energy and Buildings, 2016, 118, 301-315.	6.7	26
15	Design technology based on resizing method for reduction of costs and carbon dioxide emissions of high-rise buildings. Energy and Buildings, 2017, 138, 612-620.	6.7	24
16	Analytical Model for Estimation of Maximum Normal Stress in Steel Beamâ€Columns Based on Wireless Measurement of Average Strains from Vibrating Wire Strain Gages. Computer-Aided Civil and Infrastructure Engineering, 2013, 28, 707-717.	9.8	23
17	Moving average correction method for compensation of differential column shortenings in highâ€rise buildings. Structural Design of Tall and Special Buildings, 2013, 22, 718-728.	1.9	19
18	Minimum column-to-beam strength ratios for beamâ€"hinge mechanisms based on multi-objective seismic design. Journal of Constructional Steel Research, 2013, 88, 53-62.	3.9	19

#	Article	IF	Citations
19	Deformation Monitoring of a Building Structure Using a Motion Capture System. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2276-2284.	5.8	17
20	A Practical Data Recovery Technique for Long-Term Strain Monitoring of Mega Columns during Construction. Sensors, 2013, 13, 10931-10943.	3.8	15
21	Wireless Laser Range Finder System for Vertical Displacement Monitoring of Mega-Trusses during Construction. Sensors, 2013, 13, 5796-5813.	3.8	15
22	Field Monitoring of Column Shortenings in a High-Rise Building during Construction. Sensors, 2013, 13, 14321-14338.	3.8	14
23	Design and Application of a Field Sensing System for Ground Anchors in Slopes. Sensors, 2013, 13, 3739-3752.	3.8	14
24	Multi-objective design model for retrofit of reinforced concrete frames with infilled walls using FRP bracings. Construction and Building Materials, 2017, 140, 454-467.	7.2	12
25	Sensor-Free Stress Estimation Model for Steel Beam Structures Using a Motion Capture System. IEEE Sensors Journal, 2016, 16, 2701-2713.	4.7	11
26	A Strain-Based Load Identification Model for Beams in Building Structures. Sensors, 2013, 13, 9909-9920.	3.8	10
27	Dynamic displacements-based model updating with motion capture system. Structural Control and Health Monitoring, 2017, 24, e1904.	4.0	10
28	Fragility Assessment Model of Building Structures Using Characteristics of Artificial Aftershock Motions. Computer-Aided Civil and Infrastructure Engineering, 2018, 33, 691-708.	9.8	8
29	Measurement Model for the Maximum Strain in Beam Structures Using Multiplexed Fiber Bragg Grating Sensors. International Journal of Distributed Sensor Networks, 2013, 9, 894780.	2.2	8
30	Evaluation of Stiffness Changes in a High-Rise Building by Measurements of Lateral Displacements Using GPS Technology. Sensors, 2013, 13, 15489-15503.	3.8	7
31	WIND-INDUCED RESPONSE CONTROL MODEL FOR HIGH-RISE BUILDINGS BASED ON RESIZING METHOD. Journal of Civil Engineering and Management, 2015, 21, 239-247.	3.5	7
32	Damage Detection Technique for Cold-Formed Steel Beam Structure Based on NSGA-II. Shock and Vibration, 2015, 2015, 1-6.	0.6	5
33	Performance-Based Multiobjective Optimal Seismic Retrofit Method for a Steel Moment-Resisting Frame Considering the Life-Cycle Cost. Mathematical Problems in Engineering, 2014, 2014, 1-14.	1.1	4
34	Optimal seismic retrofit model for steel moment resisting frames with brittle connections. Earthquake Engineering and Engineering Vibration, 2018, 17, 835-847.	2.3	2
35	Resizing Technique-Based Hybrid Genetic Algorithm for Optimal Drift Design of Multistory Steel Frame Buildings. Mathematical Problems in Engineering, 2014, 2014, 1-11.	1.1	1
36	A Proposal of the Gage-Free Safety Assessment Technique for the Steel Beam Structure Under Uncertain Loads and Support Conditions Using Motion Capture System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 219-227.	0.3	0