Jerome F Hajjar

List of Publications by Year in descending order

33 papers	906 citations	567281 15 h-index	552781 26 g-index
35 all docs	35 docs citations	35 times ranked	727 citing authors

#	Article	IF	Citations
1	Quasi-Static Cyclic Behavior of Controlled Rocking Steel Frames. Journal of Structural Engineering, 2014, 140, .	3.4	114
2	Earthquake resilient steel braced frames with controlled rocking and energy dissipating fuses. Steel Construction, 2011, 4, 171-175.	0.8	107
3	Data Processing of Point Clouds for Object Detection for Structural Engineering Applications. Computer-Aided Civil and Infrastructure Engineering, 2013, 28, 495-508.	9.8	86
4	Laser-based surface damage detection and quantification using predicted surface properties. Automation in Construction, 2017, 83, 285-302.	9.8	77
5	Shear and Friction Response of Nonseismic Laminated Elastomeric Bridge Bearings Subject to Seismic Demands. Journal of Bridge Engineering, 2013, 18, 612-623.	2.9	74
6	Hybrid simulation testing of a selfâ€centering rocking steel braced frame system. Earthquake Engineering and Structural Dynamics, 2014, 43, 1725-1742.	4.4	60
7	Seismic performance of highway bridges with fusing bearing components for quasiâ€isolation. Earthquake Engineering and Structural Dynamics, 2013, 42, 1375-1394.	4.4	45
8	Nonlinear Seismic Analysis of Circular Concrete-Filled Steel Tube Members and Frames. Journal of Structural Engineering, 2012, 138, 1089-1098.	3.4	41
9	Full-Scale Tests of Slender Concrete-Filled Tubes: Interaction Behavior. Journal of Structural Engineering, 2014, 140, .	3.4	40
10	Automated extraction of structural elements in steel girder bridges from laser point clouds. Automation in Construction, 2021, 125, 103582.	9.8	37
11	Stability Analysis and Design of Composite Structures. Journal of Structural Engineering, 2016, 142, .	3.4	25
12	Mixed Finite Element for Three-Dimensional Nonlinear Dynamic Analysis of Rectangular Concrete-Filled Steel Tube Beam-Columns. Journal of Engineering Mechanics - ASCE, 2010, 136, 1329-1339.	2.9	22
13	Towards automated detection and quantification of concrete cracks using integrated images and lidar data from unmanned aerial vehicles. Structural Control and Health Monitoring, 2021, 28, e2757.	4.0	18
14	Experimental and analytical investigation of bridge timber piles under eccentric loads. Engineering Structures, 2010, 32, 2237-2246.	5.3	16
15	Topology optimization using the p-version of the finite element method. Structural and Multidisciplinary Optimization, 2017, 56, 571-586.	3.5	16
16	Elastic flexural rigidity of steel-concrete composite columns. Engineering Structures, 2018, 160, 293-303.	5.3	16
17	Seismic performance factors for moment frames with steelâ€concrete composite columns and steel beams. Earthquake Engineering and Structural Dynamics, 2016, 45, 1685-1703.	4.4	14
18	Automated Structural Modelling of Bridges from Laser Scanning. , 2017, , .		14

#	Article	IF	Citations
19	Performance of Nonseismic PTFE Sliding Bearings When Subjected to Seismic Demands. Journal of Bridge Engineering, 2016, 21, .	2.9	13
20	Wind-wave prediction equations for probabilistic offshore hurricane hazard analysis. Natural Hazards, 2016, 83, 541-562.	3.4	11
21	Cyclic fracture simulation through element deletion in structural steel systems. Journal of Constructional Steel Research, 2022, 189, 107082.	3.9	10
22	Towards Automated Post-Disaster Damage Assessment of Critical Infrastructure with Small Unmanned Aircraft Systems. , 2018, , .		9
23	Using extracted member properties for laserâ€based surface damage detection and quantification. Structural Control and Health Monitoring, 2020, 27, e2616.	4.0	8
24	Design for Deconstruction Using Sustainable Composite Beams with Precast Concrete Planks and Clamping Connectors. Journal of Structural Engineering, 2020, 146, 04020158.	3.4	8
25	Three-dimensional nonlinear displacement-based beam element for members with angle and tee sections. Engineering Structures, 2021, 239, 112239.	5.3	8
26	A Performance-Based Design Approach for Rectangular Concrete-Filled Steel Tube (RCFT) Frames under Seismic Loading. , 2007, , .		5
27	Three-dimensional nonlinear mixed 6-DOF beam element for thin-walled members. Thin-Walled Structures, 2021, 164, 107817.	5.3	4
28	Geometric models from laser scanning data for superstructure components of steel girder bridges. Automation in Construction, 2022, 142, 104484.	9.8	3
29	Automated Damage Assessment of Critical Infrastructure Using Online Mapping Technique with Small Unmanned Aircraft Systems. , 2019, , .		2
30	Structural Performance of Steel Shelf Angles with Thermally Improved Detailing. Journal of Structural Engineering, 2020, 146, 04020218.	3.4	1
31	Automated Geometric Reconstruction of Partially Occluded Steel Elements from Terrestrial Laser Scanning Data. , 2022, , .		0
32	A Framework for Automated Bridge Inspections and Assessments with Visual Sensing Technology. IABSE Symposium Report, 2022, , .	0.0	0
33	Collapse Fragility Development of Electrical Transmission Towers Subjected to Hurricanes. IABSE Symposium Report, 2022, , .	0.0	0