

Iman Hajirasouliha

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.

136
papers

2,315
citations

28
h-index

42
g-index

139
ext. papers

2,964
ext. citations

3.8
avg, IF

6.08
L-index

#	Paper	IF	Citations
136	Structural engineering from an inverse problems perspective.. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022 , 478, 20210526	2.4	0
135	Innovative self-centering systems using shape memory alloy bolts and energy dissipating devices. <i>Journal of Constructional Steel Research</i> , 2022 , 190, 107127	3.8	1
134	Cold-formed steel beam-to-column bolted connections for seismic applications. <i>Thin-Walled Structures</i> , 2022 , 172, 108876	4.7	3
133	Capacity and design of cold-formed steel warping-restrained beam-column elements. <i>Journal of Constructional Steel Research</i> , 2022 , 190, 107139	3.8	0
132	Optimal distribution of friction dampers to improve the seismic performance of steel moment resisting frames. <i>Structures</i> , 2022 , 37, 624-644	3.4	0
131	Buckling behaviour of cold-formed steel sigma and lipped channel beam-column members. <i>Thin-Walled Structures</i> , 2022 , 173, 108963	4.7	0
130	Unified design equations for web crippling failure of cold-formed ferritic stainless steel unlipped channel-sections with web holes. <i>Journal of Building Engineering</i> , 2022 , 45, 103685	5.2	1
129	Analysis of bilinear hysteretic structures with nonlinear fluid viscous dampers using modified stochastic linearization technique. <i>Engineering Structures</i> , 2022 , 251, 113555	4.7	0
128	Shape optimisation of cold roll formed sections considering effects of cold working. <i>Thin-Walled Structures</i> , 2022 , 170, 108576	4.7	1
127	An innovative variable target time method for probabilistic-based seismic performance assessment of multi-storey buildings. <i>Journal of Building Engineering</i> , 2022 , 52, 104378	5.2	0
126	Estimation of hysteretic energy distribution for energy-based design of structures equipped with dampers. <i>Journal of Building Engineering</i> , 2022 , 51, 104221	5.2	
125	Special Truss Moment Frames Equipped with Steel Slit Dampers. <i>International Journal of Steel Structures</i> , 2022 , 22, 206-224	1.3	1
124	Performance-based seismic design and assessment of multi-storey CFS strap-braced frames. <i>Engineering Structures</i> , 2022 , 261, 114268	4.7	
123	Response modification factors for dual moment-resisting frames with vertical links: Multilevel approach. <i>Advances in Structural Engineering</i> , 2021 , 24, 3299-3314	1.9	0
122	Structural Design Optimization of All-Steel Buckling-Restrained Braces Using Intelligent Optimizers. <i>International Journal of Steel Structures</i> , 2021 , 21, 2055	1.3	0
121	Structural Size Optimization of Single and Built-Up Cold-Formed Steel Beam-Column Members. <i>Journal of Structural Engineering</i> , 2021 , 147, 04021030	3	9
120	Behavior and Design of Cold-Formed Steel Bolted Connections Subjected to Combined Actions. <i>Journal of Structural Engineering</i> , 2021 , 147, 04021013	3	12

119	Optimisation of cold-formed steel beams for best seismic performance in bolted moment connections. <i>Journal of Constructional Steel Research</i> , 2021 , 181, 106621	3.8	6
118	Multi-level performance-based design optimisation of steel frames with nonlinear viscous dampers. <i>Bulletin of Earthquake Engineering</i> , 2021 , 19, 5015-5049	3.7	8
117	Seismic performance assessment of multi-story steel frames with curved dampers and semi-rigid connections. <i>Journal of Constructional Steel Research</i> , 2021 , 182, 106666	3.8	6
116	An acceleration-based approach for crack localisation in beams subjected to moving oscillators. <i>JVC/Journal of Vibration and Control</i> , 2021 , 27, 489-501	2	3
115	Seismic performance assessment of eccentrically braced steel frames with energy-absorbing links under sequential earthquakes. <i>Journal of Building Engineering</i> , 2021 , 33, 101576	5.2	7
114	Simplified Method for Optimal Design of Friction Damper Slip Loads by Considering Near-Field and Far-Field Ground Motions. <i>Journal of Earthquake Engineering</i> , 2021 , 25, 1851-1875	1.8	14
113	Performance evaluation of curved damper truss moment frames designed using equivalent energy design procedure. <i>Engineering Structures</i> , 2021 , 226, 111363	4.7	6
112	Seismic reliability analysis of steel moment-resisting frames retrofitted by vertical link elements using combined series-parallel system approach. <i>Bulletin of Earthquake Engineering</i> , 2021 , 19, 831-862	3.7	6
111	Deterioration and damage identification in building structures using a novel feature selection method. <i>Structures</i> , 2021 , 29, 458-470	3.4	5
110	Constrained optimization of anti-symmetric cold-formed steel beam-column sections. <i>Engineering Structures</i> , 2021 , 228, 111452	4.7	7
109	Axial behaviour of FRP-confined rubberised concrete: An experimental investigation. <i>Construction and Building Materials</i> , 2021 , 267, 121023	6.7	1
108	Development of a novel cost-effective toggle-brace-curved damper (TBCD) for mid-rise steel structures using multi-objective NSGA II optimization technique. <i>Structural and Multidisciplinary Optimization</i> , 2021 , 63, 661-688	3.6	4
107	More efficient design of reduced beam sections (RBS) for maximum seismic performance. <i>Journal of Constructional Steel Research</i> , 2021 , 183, 106728	3.8	5
106	Seismic performance assessment of tunnel form concrete structures under earthquake sequences using endurance time analysis. <i>Journal of Building Engineering</i> , 2021 , 40, 102327	5.2	4
105	Performance-based assessment of CFS strap-braced stud walls under seismic loading. <i>Journal of Constructional Steel Research</i> , 2021 , 183, 106731	3.8	5
104	Behaviour and Design of Cold-Formed Steel Bolted Portal Frame Connections. <i>Ce/Papers</i> , 2021 , 4, 432-437		
103	Optimized Design of Cold-Formed Steel Elements for Serviceability and Ultimate Limit States. <i>Ce/Papers</i> , 2021 , 4, 481-486	0.3	2
102	Deep learning-based procedure for structural design of cold-formed steel channel sections with edge-stiffened and un-stiffened holes under axial compression. <i>Thin-Walled Structures</i> , 2021 , 166, 108076	4.7	28

101	More efficient design of CFS strap-braced frames under vertical and seismic loading. <i>Journal of Constructional Steel Research</i> , 2021 , 185, 106886	3.8	3
100	Development of more accurate cyclic hysteretic models to represent RBS connections. <i>Engineering Structures</i> , 2021 , 245, 112899	4.7	2
99	Bond behaviour of multi-ply steel reinforced grout composites. <i>Construction and Building Materials</i> , 2021 , 305, 124750	6.7	5
98	Structural performance of RC columns retrofitted with steel-reinforced grout jackets under combined axial and lateral loading. <i>Engineering Structures</i> , 2021 , 245, 112946	4.7	0
97	Structural performance of reinforced concrete columns subjected to high-temperature and axial loading under different heating-cooling scenarios. <i>Journal of Building Engineering</i> , 2021 , 42, 102477	5.2	3
96	Performance-based seismic design of moment resisting steel frames: Adaptive optimisation framework and optimum design load pattern. <i>Structures</i> , 2021 , 33, 1690-1704	3.4	4
95	Experimental and numerical investigation of a proposed monolithic-like precast concrete column-foundation connection. <i>Engineering Structures</i> , 2021 , 246, 113090	4.7	4
94	Accurate prediction of cyclic hysteresis behaviour of RBS connections using Deep Learning Neural Networks. <i>Engineering Structures</i> , 2021 , 247, 113156	4.7	6
93	Experimental and numerical investigations of cold-formed austenitic stainless steel unflipped channels under bearing loads. <i>Thin-Walled Structures</i> , 2020 , 152, 106768	4.7	4
92	Seismic performance evaluation of deficient steel moment-resisting frames retrofitted by vertical link elements. <i>Structures</i> , 2020 , 26, 724-736	3.4	14
91	Life-cycle cost based design of bridge lead-rubber isolators in seismic regions. <i>Structures</i> , 2020 , 27, 383-395	3.4	8
90	Local Buckling in Cold-Formed Steel Moment-Resisting Bolted Connections: Behavior, Capacity, and Design. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020167	3	15
89	Multi-Directional Base Isolation System for Coupled Horizontal and Vertical Seismic Excitations. <i>Journal of Earthquake Engineering</i> , 2020 , 1-26	1.8	12
88	A practical probabilistic earthquake hazard analysis tool: case study Marmara region. <i>Bulletin of Earthquake Engineering</i> , 2020 , 18, 2523-2555	3.7	8
87	Reliability of water distribution networks subjected to seismic hazard: Application of an improved entropy function. <i>Reliability Engineering and System Safety</i> , 2020 , 197, 106828	6.3	3
86	Experimental Study of Cold-Formed Steel Built-Up Beams. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020126	3	9
85	Reliability analysis and multi-level response modification factors for buckling restrained braced frames. <i>Journal of Constructional Steel Research</i> , 2020 , 171, 106137	3.8	7
84	Experimental study of cold-formed steel built-up columns. <i>Thin-Walled Structures</i> , 2020 , 149, 106291	4.7	23

83	Design and Optimization of Cold-Formed Steel Sections in Bolted Moment Connections Considering Bimoment. <i>Journal of Structural Engineering</i> , 2020 , 146, 04020153	3	15
82	Seismic reliability analysis and estimation of multilevel response modification factor for steel diagrid structural systems. <i>Journal of Building Engineering</i> , 2020 , 29, 101168	5.2	16
81	Development of a monolithic-like precast beam-column moment connection: Experimental and analytical investigation. <i>Engineering Structures</i> , 2020 , 205, 110057	4.7	15
80	Ultra-lightweight engineered cementitious composite using waste recycled hollow glass microspheres. <i>Journal of Cleaner Production</i> , 2020 , 249, 119331	10.3	10
79	A practical methodology for optimum seismic design of RC frames for minimum damage and life-cycle cost. <i>Engineering Structures</i> , 2020 , 202, 109896	4.7	13
78	Coupled element and structural level optimisation framework for cold-formed steel frames. <i>Journal of Constructional Steel Research</i> , 2020 , 168, 105867	3.8	6
77	Tensile stress-strain characteristics of rubberised concrete from flexural tests. <i>Construction and Building Materials</i> , 2020 , 236, 117591	6.7	8
76	Trade-off Pareto optimum design of an innovative curved damper truss moment frame considering structural and non-structural objectives. <i>Structures</i> , 2020 , 28, 1338-1353	3.4	8
75	Seismic reliability assessment of RC tunnel-form structures with geometric irregularities using a combined system approach. <i>Soil Dynamics and Earthquake Engineering</i> , 2020 , 139, 106356	3.5	6
74	Optimum energy based seismic design of friction dampers in RC structures. <i>Structures</i> , 2020 , 27, 2550-2562	3.4	15
73	Multi-level Response Modification Factor Estimation for Steel Moment-Resisting Frames Using Endurance-Time Method. <i>Journal of Earthquake Engineering</i> , 2020 , 1-21	1.8	6
72	Experimental study of the cross-sectional capacity of cold-formed steel built-up columns. <i>Thin-Walled Structures</i> , 2020 , 155, 106958	4.7	12
71	Optimal design of cold roll formed steel channel sections under bending considering both geometry and cold work effects. <i>Thin-Walled Structures</i> , 2020 , 157, 107020	4.7	8
70	Efficient design of cold-formed steel bolted-moment connections for earthquake resistant frames. <i>Thin-Walled Structures</i> , 2020 , 150,	4.7	17
69	Adaptive low computational cost optimisation method for performance-based seismic design of friction dampers. <i>Engineering Structures</i> , 2019 , 198, 109549	4.7	20
68	Multilevel seismic demand prediction for acceleration-sensitive non-structural components. <i>Engineering Structures</i> , 2019 , 200, 109713	4.7	8
67	Development of optimum cold-formed steel beams for serviceability and ultimate limit states using Big Bang-Big Crunch optimisation. <i>Engineering Structures</i> , 2019 , 195, 172-181	4.7	20
66	Effects of soil-structure interaction and lateral design load pattern on performance-based plastic design of steel moment resisting frames. <i>Structural Design of Tall and Special Buildings</i> , 2019 , 28, e1624	1.8	5

65	Practical method for optimal rehabilitation of steel frame buildings using buckling restrained brace dampers. <i>Soil Dynamics and Earthquake Engineering</i> , 2019 , 123, 242-251	3.5	16
64	Experimental Investigation of Cross-Sectional Bending Capacity of Cold-Formed Steel Channels Subject to Local-Distortional Buckling Interaction. <i>Journal of Structural Engineering</i> , 2019 , 145, 04019064		14
63	Steel-Reinforced Grout (SRG) strengthening of shear-critical RC beams. <i>Construction and Building Materials</i> , 2019 , 216, 68-83	6.7	15
62	Dynamic column loss analysis of reinforced concrete flat slabs. <i>Engineering Structures</i> , 2019 , 198, 109453	4.7	8
61	Vibration control of bridges under simultaneous effects of earthquake and moving loads using steel pipe dampers. <i>JVC/Journal of Vibration and Control</i> , 2019 , 25, 2580-2594	2	6
60	Estimation of seismic response parameters and capacity of irregular tunnel-form buildings. <i>Bulletin of Earthquake Engineering</i> , 2019 , 17, 5217-5239	3.7	11
59	Seismic performance of cold-formed steel bolted moment connections with bolting friction-slip mechanism. <i>Journal of Constructional Steel Research</i> , 2019 , 156, 122-136	3.8	21
58	Shape optimization of cold-formed steel beam-columns with practical and manufacturing constraints. <i>Journal of Constructional Steel Research</i> , 2019 , 155, 249-259	3.8	16
57	Experimental investigation of local-flexural interactive buckling of cold-formed steel channel columns. <i>Thin-Walled Structures</i> , 2018 , 125, 245-258	4.7	51
56	Local-flexural interactive buckling of standard and optimised cold-formed steel columns. <i>Journal of Constructional Steel Research</i> , 2018 , 144, 106-118	3.8	52
55	Nonlinear behaviour of reinforced concrete flat slabs after a column loss event. <i>Advances in Structural Engineering</i> , 2018 , 21, 2169-2183	1.9	11
54	An improved replacement oscillator approach for soil-structure interaction analysis considering soft soils. <i>Engineering Structures</i> , 2018 , 167, 26-38	4.7	19
53	More efficient lateral load patterns for seismic design of steel moment-resisting frames. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2018 , 171, 487-502	0.9	8
52	Development of optimum cold-formed steel sections for maximum energy dissipation in uniaxial bending. <i>Engineering Structures</i> , 2018 , 161, 55-67	4.7	32
51	Compressive behaviour of concrete columns confined with steel-reinforced grout jackets. <i>Composites Part B: Engineering</i> , 2018 , 138, 222-231	10	31
50	Analytical and experimental study on the seismic performance of cold-formed steel frames. <i>Journal of Constructional Steel Research</i> , 2018 , 143, 18-31	3.8	38
49	Performance-based optimisation of RC frames with friction wall dampers using a low-cost optimisation method. <i>Bulletin of Earthquake Engineering</i> , 2018 , 16, 5017-5040	3.7	29
48	Direct displacement-based seismic design of flexible-base structures subjected to pulse-like ground motions. <i>Engineering Structures</i> , 2018 , 168, 276-289	4.7	21

47	A practical grid generation procedure for the design of free-form structures. <i>Computers and Structures</i> , 2018 , 196, 292-310	4.5	10
46	Strength and deflection behaviour of cold-formed steel back-to-back channels. <i>Engineering Structures</i> , 2018 , 177, 641-654	4.7	36
45	Seismic risk assessment for developing countries: Pakistan as a case study. <i>Earthquake Engineering and Engineering Vibration</i> , 2018 , 17, 787-804	2	9
44	Composites with recycled rubber aggregates: Properties and opportunities in construction. <i>Construction and Building Materials</i> , 2018 , 188, 884-897	6.7	69
43	Design-oriented models for concrete columns confined by steel-reinforced grout jackets. <i>Construction and Building Materials</i> , 2018 , 178, 313-326	6.7	9
42	Seismic retrofitting of RC buildings using CFRP and post-tensioned metal straps: shake table tests. <i>Bulletin of Earthquake Engineering</i> , 2017 , 15, 3321-3347	3.7	13
41	Behaviour of unconfined and FRP-confined rubberised concrete in axial compression. <i>Construction and Building Materials</i> , 2017 , 147, 388-397	6.7	51
40	A Practical Method for Optimum Seismic Design of Friction Wall Dampers. <i>Earthquake Spectra</i> , 2017 , 33, 1033-1052	3.4	23
39	Experimental study and calculation of laterally-prestressed confined concrete columns. <i>Steel and Composite Structures</i> , 2017 , 23, 517-527		3
38	Effect of stressed-skin action on optimal design of cold-formed steel square and rectangular-shaped portal frame buildings. <i>International Journal of Steel Structures</i> , 2016 , 16, 299-307	1.3	7
37	Optimum lateral load distribution for seismic design of nonlinear shear-buildings considering soil-structure interaction. <i>Soil Dynamics and Earthquake Engineering</i> , 2016 , 88, 356-368	3.5	21
36	Estimation of inelastic displacement demands of flexible-based structures on soft soils. <i>International Journal of Earthquake and Impact Engineering</i> , 2016 , 1, 81	0.5	
35	Strengthening of short splices in RC beams using Post-Tensioned Metal Straps. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016 , 49, 133-147	3.4	14
34	Development of more efficient cold-formed steel channel sections in bending. <i>Thin-Walled Structures</i> , 2016 , 101, 1-13	4.7	65
33	A simplified Nonlinear Sway-Rocking model for evaluation of seismic response of structures on shallow foundations. <i>Soil Dynamics and Earthquake Engineering</i> , 2016 , 81, 14-26	3.5	18
32	A new hybrid method for size and topology optimization of truss structures using modified ALGA and QPGA. <i>Journal of Civil Engineering and Management</i> , 2016 , 23, 252-262	3	4
31	Optimum design of cold-formed steel beams using Particle Swarm Optimisation method. <i>Journal of Constructional Steel Research</i> , 2016 , 122, 80-93	3.8	51
30	Influence of Higher Modes on Strength and Ductility Demands of Soil-Structure Systems. <i>Journal of Earthquake and Tsunami</i> , 2016 , 10, 1650006	1.1	2

29	Performance-based seismic design of flexible-base multi-storey buildings considering soil-structure interaction. <i>Engineering Structures</i> , 2016 , 108, 90-103	4.7	43
28	Effects of uncertainties on seismic behaviour of optimum designed braced steel frames. <i>Steel and Composite Structures</i> , 2016 , 20, 317-335		15
27	Bond of Substandard Laps in Reinforced Concrete Beams Retrofitted with Post-Tensioned Metal Straps. <i>ACI Structural Journal</i> , 2016 , 113,	1.7	1
26	Countersunk bolted moment connections in cold-formed steel 2016 , 1074-1079		
25	Analytical Study of the Seismic Performance of Steel-Braced Frames with Masonry Infill. <i>Journal of Structural Engineering</i> , 2016 , 142, 04016083	3	1
24	Optimum drilled flange moment resisting connections for seismic regions. <i>Journal of Constructional Steel Research</i> , 2015 , 112, 325-338	3.8	17
23	Experimental investigation on the dynamic response of RC flat slabs after a sudden column loss. <i>Engineering Structures</i> , 2015 , 99, 28-41	4.7	31
22	Cross-sectional optimization of cold-formed steel channels to Eurocode 3. <i>Engineering Structures</i> , 2015 , 101, 641-651	4.7	33
21	A Multi-hazard Risk Assessment of Buildings in Padang City. <i>Procedia Engineering</i> , 2015 , 125, 1094-1100		5
20	A new ductile moment-resisting connection for precast concrete frames in seismic regions: An experimental investigation. <i>Engineering Structures</i> , 2014 , 70, 144-157	4.7	136
19	Full-Scale Shaking Table Tests on a Substandard RC Building Repaired and Strengthened with Post-Tensioned Metal Straps. <i>Journal of Earthquake Engineering</i> , 2014 , 18, 187-213	1.8	31
18	Shake Table Tests on Deficient RC Buildings Strengthened Using Post-Tensioned Metal Straps. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2014 , 187-202	0.2	3
17	Influence of masonry infill on the seismic performance of concentrically braced frames. <i>Journal of Constructional Steel Research</i> , 2013 , 88, 150-163	3.8	14
16	Hysteretic performance of a new blind bolted connection to concrete filled columns under cyclic loading: An experimental investigation. <i>Engineering Structures</i> , 2013 , 46, 535-546	4.7	65
15	An efficient performance-based seismic design method for reinforced concrete frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2012 , 41, 663-679	4	57
14	General Seismic Load Distribution for Optimum Performance-Based Design of Shear-Buildings. <i>Journal of Earthquake Engineering</i> , 2012 , 16, 443-462	1.8	36
13	Deflection behaviour of FRP reinforced concrete beams and slabs: An experimental investigation. <i>Composites Part B: Engineering</i> , 2012 , 43, 2125-2134	10	73
12	Topology optimization for the seismic design of truss-like structures. <i>Computers and Structures</i> , 2011 , 89, 702-711	4.5	27

11	Strength and deformability of waste tyre rubber-filled reinforced concrete columns. <i>Construction and Building Materials</i> , 2011 , 25, 218-226	6.7	142
10	Seismic behaviour of deficient RC frames strengthened with CFRP composites. <i>Engineering Structures</i> , 2010 , 32, 3075-3085	4.7	84
9	A simplified model for seismic response prediction of concentrically braced frames. <i>Advances in Engineering Software</i> , 2010 , 41, 497-505	3.6	32
8	New Lateral Force Distribution for Seismic Design of Structures. <i>Journal of Structural Engineering</i> , 2009 , 135, 906-915	3	43
7	Optimum strength distribution for seismic design of tall buildings. <i>Structural Design of Tall and Special Buildings</i> , 2008 , 17, 331-349	1.8	35
6	Toward more rational criteria for determination of design earthquake forces. <i>International Journal of Solids and Structures</i> , 2006 , 43, 2631-2645	3.1	35
5	An investigation on the accuracy of pushover analysis for estimating the seismic deformation of braced steel frames. <i>Journal of Constructional Steel Research</i> , 2006 , 62, 343-351	3.8	24
4	Optimum seismic design of concentrically braced steel frames: concepts and design procedures. <i>Journal of Constructional Steel Research</i> , 2005 , 61, 151-166	3.8	43
3	Seismic reliability assessment of steel moment-resisting frames using Bayes estimators. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 1-15	0.9	1
2	A new modified stochastic linearization technique to analyze structures with nonlinear fluid viscous dampers. <i>JVC/Journal of Vibration and Control</i> , 107754632110195	2	0
1	Numerical Study of Cyclic Performance and Design of a Novel Fan Bracing System. <i>Journal of Earthquake Engineering</i> , 1-30	1.8	