

Vincenzo Piluso

List of Publications by Year in descending order

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84
papers

2,650
citations

117625

34
h-index

197818

49
g-index

86
all docs

86
docs citations

86
times ranked

814
citing authors

#	ARTICLE	IF	CITATIONS
1	PLASTIC DESIGN OF SEISMIC RESISTANT STEEL FRAMES. Earthquake Engineering and Structural Dynamics, 1997, 26, 167-191.	4.4	129
2	Free from damage beam-to-column joints: Testing and design of DST connections with friction pads. Engineering Structures, 2015, 85, 219-233.	5.3	106
3	Ultimate Behavior of Bolted T-Stubs. I: Theoretical Model. Journal of Structural Engineering, 2001, 127, 686-693.	3.4	100
4	Reinforced concrete columns strengthened with angles and battens subjected to eccentric load. Engineering Structures, 2009, 31, 539-550.	5.3	95
5	Ultimate behavior of steel beams under non-uniform bending. Journal of Constructional Steel Research, 2012, 78, 144-158.	3.9	94
6	Experimental analysis and modelling of bolted T-stubs under cyclic loads. Journal of Constructional Steel Research, 2008, 64, 655-669.	3.9	86
7	Advances in theory of plastic mechanism control: closed form solution for MR&Fframes. Earthquake Engineering and Structural Dynamics, 2015, 44, 1035-1054.	4.4	85
8	Ultimate Behavior of Bolted T-Stubs. II: Model Validation. Journal of Structural Engineering, 2001, 127, 694-704.	3.4	79
9	Experimental Analysis of Bolted Connections: Snug versus Preloaded Bolts. Journal of Structural Engineering, 1998, 124, 765-774.	3.4	67
10	Experimental analysis of beam-to-column joints equipped with sprayed aluminium friction dampers. Journal of Constructional Steel Research, 2018, 146, 33-48.	3.9	64
11	Plastic Design of Seismic Resistant V-Braced Frames. Journal of Earthquake Engineering, 2008, 12, 1246-1266.	2.5	61
12	Theory of Plastic Mechanism Control for MRF&EBF dual systems: Closed form solution. Engineering Structures, 2016, 118, 287-306.	5.3	60
13	Experimental analysis of innovative dissipative bolted double split tee beam&column connections. Steel Construction, 2011, 4, 53-64.	0.8	58
14	Theory of plastic mechanism control of dissipative truss moment frames. Engineering Structures, 2012, 37, 63-75.	5.3	56
15	Simplified finite element analysis of bolted T-stub connection components. Engineering Structures, 2015, 100, 656-664.	5.3	53
16	Standardised friction damper bolt assemblies time-related relaxation and installed tension variability. Journal of Constructional Steel Research, 2018, 141, 145-155.	3.9	52
17	Theory of plastic mechanism control for eccentrically braced frames with inverted y-scheme. Journal of Constructional Steel Research, 2014, 92, 122-135.	3.9	51
18	Seismic response of MRF-CBF dual systems equipped with low damage friction connections. Journal of Constructional Steel Research, 2019, 154, 263-277.	3.9	51

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19	Critical issues in parameter calibration of cyclic models for steel members. <i>Engineering Structures</i> , 2017, 132, 123-138.	5.3	50
20	Seismic response of steel Moment Resisting Frames equipped with friction beam-to-column joints. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 119, 144-157.	3.8	49
21	Innovative structural details in MR-frames for free from damage structures. <i>Mechanics Research Communications</i> , 2014, 58, 146-156.	1.8	48
22	Local Buckling of Aluminum Alloy Angles under Uniform Compression. <i>Journal of Structural Engineering</i> , 2011, 137, 173-184.	3.4	45
23	Rigid-plastic analysis and momentâ€“shear interaction for hierarchy criteria of inverted Y EB-Frames. <i>Journal of Constructional Steel Research</i> , 2014, 95, 71-80.	3.9	42
24	Design of full-strength full-ductility extended end-plate beam-to-column joints. <i>Journal of Constructional Steel Research</i> , 2018, 148, 77-96.	3.9	42
25	Probabilistic Theory of Plastic Mechanism Control for Steel Moment Resisting Frames. <i>Structural Safety</i> , 2019, 76, 95-107.	5.3	42
26	Ultimate behaviour of RHS temper T6 aluminium alloy beams subjected to non-uniform bending: Parametric analysis. <i>Thin-Walled Structures</i> , 2017, 115, 129-141.	5.3	41
27	Plastic design of eccentrically braced frames, II: Failure mode control. <i>Journal of Constructional Steel Research</i> , 2009, 65, 1015-1028.	3.9	40
28	FEM simulations and rotation capacity evaluation for RHS temper T4 aluminium alloy beams. <i>Composites Part B: Engineering</i> , 2017, 115, 124-137.	12.0	40
29	Cyclic response of low yielding connections using different friction materials. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 114, 404-423.	3.8	40
30	Theory of plastic mechanism control for the seismic design of braced frames equipped with friction dampers. <i>Mechanics Research Communications</i> , 2014, 58, 112-123.	1.8	39
31	Bolted T-stubs: A refined model for flange and bolt fracture modes. <i>Steel and Composite Structures</i> , 2016, 20, 267-293.	1.3	39
32	Seismic reliability of traditional and innovative concentrically braced frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 1455-1474.	4.4	37
33	Seismic reliability of Vâ€“braced frames: Influence of design methodologies. <i>Earthquake Engineering and Structural Dynamics</i> , 2009, 38, 1587-1608.	4.4	35
34	Plastic design of CB-frames with reduced section solution for bracing members. <i>Journal of Constructional Steel Research</i> , 2010, 66, 611-621.	3.9	35
35	Design criteria for beam-to-column connections equipped with friction devices. <i>Journal of Constructional Steel Research</i> , 2020, 172, 106240.	3.9	35
36	Analysis and modelling of CFT members: Moment curvature analysis. <i>Thin-Walled Structures</i> , 2015, 86, 157-166.	5.3	34

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37	Ultimate resistance and rotation capacity of low yielding high hardening aluminium alloy beams under non-uniform bending. <i>Thin-Walled Structures</i> , 2019, 135, 123-136.	5.3	33
38	Influence of connection typology on seismic response of MRâ€œFrames with and without â€˜setâ€˜backsâ€™™. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 5-25.	4.4	32
39	Consideration of second-order effects on plastic design of steel moment resisting frames. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 3041-3070.	4.1	30
40	Seismic reliability assessment of a two-story steel-concrete composite frame designed according to Eurocode 8. <i>Structural Safety</i> , 2009, 31, 383-395.	5.3	29
41	A simplified performance based approach for the evaluation of seismic performances of steel frames. <i>Engineering Structures</i> , 2020, 224, 111222.	5.3	29
42	Plastic design of eccentrically braced frames, I: Momentâ€œshear interaction. <i>Journal of Constructional Steel Research</i> , 2009, 65, 1007-1014.	3.9	28
43	Moment frames â€œ concentrically braced frames dual systems: analysis of different design criteria. <i>Structure and Infrastructure Engineering</i> , 2016, 12, 122-141.	3.7	26
44	Ultimate behaviour of high-yielding low-hardening aluminium alloy I-beams. <i>Thin-Walled Structures</i> , 2020, 146, 106463.	5.3	24
45	Interactive Plastic Local Buckling of Box-shaped Aluminium Members under Uniform Compression. <i>Thin-Walled Structures</i> , 2021, 164, 107828.	5.3	24
46	Comparative analysis and critical issues of the main constitutive laws for concrete elements confined with FRP. <i>Composites Part B: Engineering</i> , 2012, 43, 3219-3230.	12.0	22
47	Partial safety factors and overstrength coefficient evaluation for the design of connections equipped with friction dampers. <i>Engineering Structures</i> , 2019, 178, 645-655.	5.3	22
48	Pseudo-dynamic testing of a full-scale two-storey steel building with RBS connections. <i>Engineering Structures</i> , 2020, 212, 110494.	5.3	22
49	Failure Mode and Drift Control of MRF-CBF Dual Systems. <i>Open Construction and Building Technology Journal</i> , 2010, 4, 121-133.	0.7	22
50	Ultimate behaviour of FRP wrapped sections under axial force and bending: Influence of stressâ€œstrain confinement model. <i>Composites Part B: Engineering</i> , 2013, 54, 85-96.	12.0	20
51	Experimental behaviour of friction Tâ€œstub beamâ€œtoâ€œcolumn joints under cyclic loads. <i>Steel Construction</i> , 2013, 6, 11-18.	0.8	19
52	Validation of a Design Procedure for Failure Mode Control of EB-Frames: Push-Over and IDA Analyses. <i>Open Construction and Building Technology Journal</i> , 2013, 7, 193-207.	0.7	18
53	The influence of strain-hardening on the ultimate behaviour of aluminium RHS-beams under moment gradient. <i>Thin-Walled Structures</i> , 2020, 157, 107091.	5.3	17
54	The influence of the axial restraint on the overstrength of short links. <i>Journal of Constructional Steel Research</i> , 2021, 184, 106758.	3.9	15

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55	Evaluation of the Seismic Capacity of Existing Moment Resisting Frames by a Simplified Approach: Examples and Numerical Application. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2594.	2.5	12
56	Investigation on Friction Features of Dissipative Lap Shear Connections by Means of Experimental and Numerical Tests. <i>Open Construction and Building Technology Journal</i> , 2018, 12, 154-169.	0.7	11
57	Experimental response of a large-scale two-storey steel building equipped with low-yielding friction joints. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 152, 107022.	3.8	11
58	Seismic design of chevron braces coupled with MRF fail safe systems. <i>Earthquake and Structures</i> , 2015, 8, 1215-1240.	1.0	10
59	An advanced mechanical model for composite connections under hogging/sagging moments. <i>Journal of Constructional Steel Research</i> , 2012, 72, 35-50.	3.9	9
60	Seismic Behavior of Moment-Resisting Frames with Conventional and Innovative Connections. <i>Symmetry</i> , 2020, 12, 2091.	2.2	9
61	Numerical Application of Effective Thickness Approach to Box Aluminium Sections. <i>Journal of Composites Science</i> , 2021, 5, 291.	3.0	9
62	The Influence of the Material Properties on the Ultimate Behaviour of Aluminium H-shaped Beams. <i>Open Construction and Building Technology Journal</i> , 2021, 15, 176-188.	0.7	9
63	The Use of TPMC for Designing MRFs Equipped with FREEDAM Connections: Performance Evaluation. <i>Key Engineering Materials</i> , 2018, 763, 983-991.	0.4	8
64	Performance-based rules for the simplified assessment of steel CBFs. <i>Journal of Constructional Steel Research</i> , 2022, 191, 107167.	3.9	8
65	Comparison Between Different Design Strategies For Freedom Frames: Push-Overs and Ida Analyses. <i>Open Construction and Building Technology Journal</i> , 2018, 12, 140-153.	0.7	7
66	The Use of TPMC for Designing MRFs Equipped with FREEDAM Connections: A Case Study. <i>Key Engineering Materials</i> , 0, 763, 1041-1049.	0.4	6
67	Local buckling of aluminium channels under uniform compression: Theoretical analysis and experimental tests. <i>Thin-Walled Structures</i> , 2022, 179, 109511.	5.3	6
68	Experimental tests on SHS aluminium beams under non-uniform bending. <i>Engineering Structures</i> , 2022, 267, 114649.	5.3	5
69	Simplified Approach for the Seismic Assessment of Existing X Shaped CBFs: Examples and Numerical Applications. <i>Journal of Composites Science</i> , 2022, 6, 62.	3.0	4
70	Design, Analysis and Assessment of MRFs Equipped with FREEDAM Connections and Designed by TPMC: Comparison with Traditional Connections. <i>Lecture Notes in Civil Engineering</i> , 2022, , 508-516.	0.4	4
71	01.12: Development and validation of design criteria for free from damage steel joints. <i>Ce/Papers</i> , 2017, 1, 263-271.	0.3	3
72	Pseudo-dynamic testing of a full-scale two-storey steel building with RBS connections. <i>Ce/Papers</i> , 2021, 4, 2285-2294.	0.3	2

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73	Simplified Evaluation of Plastic Rotation Demand for Existing EBFs Equipped with Short Links. <i>Metals</i> , 2022, 12, 1002.	2.3	2
74	01.19: Cyclic behaviour of friction materials for FREEDAM connections. <i>Ce/Papers</i> , 2017, 1, 332-341.	0.3	1
75	P11.02: Experimental analysis and FE modeling of square hollow sections under combined axial and bending loads. <i>Ce/Papers</i> , 2017, 1, 4732-4739.	0.3	1
76	01.18: Optimization of the pre-loading procedure for high-strength bolts of FREEDAM connections. <i>Ce/Papers</i> , 2017, 1, 316-331.	0.3	1
77	Moment resistance statistical distribution of beam-to-column composite joints. <i>Journal of Constructional Steel Research</i> , 2012, 78, 183-191.	3.9	0
78	01.23: Seismic design of full-strength full-ductility extended endplate beam-to-column joints. <i>Ce/Papers</i> , 2017, 1, 362-371.	0.3	0
79	11.09: Validation of probabilistic theory of plastic mechanism control by means of Monte Carlo simulations. <i>Ce/Papers</i> , 2017, 1, 2897-2905.	0.3	0
80	11.08: Reliable calibration of cyclic models for steel members. <i>Ce/Papers</i> , 2017, 1, 2887-2896.	0.3	0
81	11.10: Probabilistic theory of plastic mechanism control. <i>Ce/Papers</i> , 2017, 1, 2906-2915.	0.3	0
82	A Simplified Approach for Seismic Performances Estimation for Steel Moment Resisting Frames. <i>Ce/Papers</i> , 2021, 4, 2335-2340.	0.3	0
83	Thematic Issue on Advances in Modeling, Analysis and Design of Steel Connections. <i>Open Construction and Building Technology Journal</i> , 2018, 12, 80-82.	0.7	0
84	Simplified methods for the evaluation of seismic performances of steel frames. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	0