

Vincenzo Piluso

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | Performance-based rules for the simplified assessment of steel CBFs. <i>Journal of Constructional Steel Research</i> , 2022, 191, 107167. | 3.9 | 8 |
| 3 | Simplified methods for the evaluation of seismic performances of steel frames. <i>AIP Conference Proceedings</i> , 2022, , . | 0.4 | 0 |
| 4 | 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 |
| 5 | 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 |
| 6 | Simplified Evaluation of Plastic Rotation Demand for Existing EBFs Equipped with Short Links. <i>Metals</i> , 2022, 12, 1002. | 2.3 | 2 |
| 7 | Local buckling of aluminium channels under uniform compression: Theoretical analysis and experimental tests. <i>Thin-Walled Structures</i> , 2022, 179, 109511. | 5.3 | 6 |
| 8 | Experimental tests on SHS aluminium beams under non-uniform bending. <i>Engineering Structures</i> , 2022, 267, 114649. | 5.3 | 5 |
| 9 | 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 |
| 10 | Interactive Plastic Local Buckling of Box-shaped Aluminium Members under Uniform Compression. <i>Thin-Walled Structures</i> , 2021, 164, 107828. | 5.3 | 24 |
| 11 | 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 |
| 12 | 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 |
| 13 | A Simplified Approach for Seismic Performances Estimation for Steel Moment Resisting Frames. <i>Ce/Papers</i> , 2021, 4, 2335-2340. | 0.3 | 0 |
| 14 | Numerical Application of Effective Thickness Approach to Box Aluminium Sections. <i>Journal of Composites Science</i> , 2021, 5, 291. | 3.0 | 9 |
| 15 | 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 |
| 16 | Ultimate behaviour of high-yielding low-hardening aluminium alloy I-beams. <i>Thin-Walled Structures</i> , 2020, 146, 106463. | 5.3 | 24 |
| 17 | A simplified performance based approach for the evaluation of seismic performances of steel frames. <i>Engineering Structures</i> , 2020, 224, 111222. | 5.3 | 29 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | Seismic Behavior of Moment-Resisting Frames with Conventional and Innovative Connections. <i>Symmetry</i> , 2020, 12, 2091. | 2.2 | 9 |
| 20 | Design criteria for beam-to-column connections equipped with friction devices. <i>Journal of Constructional Steel Research</i> , 2020, 172, 106240. | 3.9 | 35 |
| 21 | Pseudo-dynamic testing of a full-scale two-storey steel building with RBS connections. <i>Engineering Structures</i> , 2020, 212, 110494. | 5.3 | 22 |
| 22 | 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 |
| 23 | 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 |
| 24 | Probabilistic Theory of Plastic Mechanism Control for Steel Moment Resisting Frames. <i>Structural Safety</i> , 2019, 76, 95-107. | 5.3 | 42 |
| 25 | Seismic response of MRF-CBF dual systems equipped with low damage friction connections. <i>Journal of Constructional Steel Research</i> , 2019, 154, 263-277. | 3.9 | 51 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | Experimental analysis of beam-to-column joints equipped with sprayed aluminium friction dampers. <i>Journal of Constructional Steel Research</i> , 2018, 146, 33-48. | 3.9 | 64 |
| 30 | Cyclic response of low yielding connections using different friction materials. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 114, 404-423. | 3.8 | 40 |
| 31 | 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 |
| 32 | Standardised friction damper bolt assemblies time-related relaxation and installed tension variability. <i>Journal of Constructional Steel Research</i> , 2018, 141, 145-155. | 3.9 | 52 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | Influence of connection typology on seismic response of MR&E Frames with and without &Eset&Ebacks&E. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 5-25. | 4.4 | 32 |

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|----|--|------|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 01.19: Cyclic behaviour of friction materials for FREEDAM connections. <i>Ce/Papers</i> , 2017, 1, 332-341. | 0.3 | 1 |
| 41 | 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 |
| 42 | Critical issues in parameter calibration of cyclic models for steel members. <i>Engineering Structures</i> , 2017, 132, 123-138. | 5.3 | 50 |
| 43 | 11.08: Reliable calibration of cyclic models for steel members. <i>Ce/Papers</i> , 2017, 1, 2887-2896. | 0.3 | 0 |
| 44 | 11.10: Probabilistic theory of plastic mechanism control. <i>Ce/Papers</i> , 2017, 1, 2906-2915. | 0.3 | 0 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | Theory of Plastic Mechanism Control for MRF&E"EBF dual systems: Closed form solution. <i>Engineering Structures</i> , 2016, 118, 287-306. | 5.3 | 60 |
| 49 | Moment frames &E" concentrically braced frames dual systems: analysis of different design criteria. <i>Structure and Infrastructure Engineering</i> , 2016, 12, 122-141. | 3.7 | 26 |
| 50 | 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 |
| 51 | Advances in theory of plastic mechanism control: closed form solution for MR&E"Frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 1035-1054. | 4.4 | 85 |
| 52 | Free from damage beam-to-column joints: Testing and design of DST connections with friction pads. <i>Engineering Structures</i> , 2015, 85, 219-233. | 5.3 | 106 |
| 53 | Simplified finite element analysis of bolted T-stub connection components. <i>Engineering Structures</i> , 2015, 100, 656-664. | 5.3 | 53 |
| 54 | 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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|----|--|------|-----------|
| 55 | Seismic design of chevron braces coupled with MRF fail safe systems. Earthquake and Structures, 2015, 8, 1215-1240. | 1.0 | 10 |
| 56 | 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 |
| 57 | Rigid-plastic analysis and moment-shear interaction for hierarchy criteria of inverted Y EB-Frames. Journal of Constructional Steel Research, 2014, 95, 71-80. | 3.9 | 42 |
| 58 | Theory of plastic mechanism control for the seismic design of braced frames equipped with friction dampers. Mechanics Research Communications, 2014, 58, 112-123. | 1.8 | 39 |
| 59 | Innovative structural details in MR-frames for free from damage structures. Mechanics Research Communications, 2014, 58, 146-156. | 1.8 | 48 |
| 60 | Ultimate behaviour of FRP wrapped sections under axial force and bending: Influence of stress-strain confinement model. Composites Part B: Engineering, 2013, 54, 85-96. | 12.0 | 20 |
| 61 | Experimental behaviour of friction T-stub beam-column joints under cyclic loads. Steel Construction, 2013, 6, 11-18. | 0.8 | 19 |
| 62 | Validation of a Design Procedure for Failure Mode Control of EB-Frames: Push-Over and IDA Analyses. Open Construction and Building Technology Journal, 2013, 7, 193-207. | 0.7 | 18 |
| 63 | Ultimate behavior of steel beams under non-uniform bending. Journal of Constructional Steel Research, 2012, 78, 144-158. | 3.9 | 94 |
| 64 | Moment resistance statistical distribution of beam-to-column composite joints. Journal of Constructional Steel Research, 2012, 78, 183-191. | 3.9 | 0 |
| 65 | Comparative analysis and critical issues of the main constitutive laws for concrete elements confined with FRP. Composites Part B: Engineering, 2012, 43, 3219-3230. | 12.0 | 22 |
| 66 | Theory of plastic mechanism control of dissipative truss moment frames. Engineering Structures, 2012, 37, 63-75. | 5.3 | 56 |
| 67 | An advanced mechanical model for composite connections under hogging/sagging moments. Journal of Constructional Steel Research, 2012, 72, 35-50. | 3.9 | 9 |
| 68 | Experimental analysis of innovative dissipative bolted double split tee beam-column connections. Steel Construction, 2011, 4, 53-64. | 0.8 | 58 |
| 69 | Seismic reliability of traditional and innovative concentrically braced frames. Earthquake Engineering and Structural Dynamics, 2011, 40, 1455-1474. | 4.4 | 37 |
| 70 | Local Buckling of Aluminum Alloy Angles under Uniform Compression. Journal of Structural Engineering, 2011, 137, 173-184. | 3.4 | 45 |
| 71 | Plastic design of CB-frames with reduced section solution for bracing members. Journal of Constructional Steel Research, 2010, 66, 611-621. | 3.9 | 35 |
| 72 | Failure Mode and Drift Control of MRF-CBF Dual Systems. Open Construction and Building Technology Journal, 2010, 4, 121-133. | 0.7 | 22 |

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|----|--|-----|-----------|
| 73 | Seismic reliability of V&Ebraced frames: Influence of design methodologies. Earthquake Engineering and Structural Dynamics, 2009, 38, 1587-1608. | 4.4 | 35 |
| 74 | Plastic design of eccentrically braced frames, II: Failure mode control. Journal of Constructional Steel Research, 2009, 65, 1015-1028. | 3.9 | 40 |
| 75 | Plastic design of eccentrically braced frames, I: Moment&E shear interaction. Journal of Constructional Steel Research, 2009, 65, 1007-1014. | 3.9 | 28 |
| 76 | Seismic reliability assessment of a two-story steel-concrete composite frame designed according to Eurocode 8. Structural Safety, 2009, 31, 383-395. | 5.3 | 29 |
| 77 | Reinforced concrete columns strengthened with angles and battens subjected to eccentric load. Engineering Structures, 2009, 31, 539-550. | 5.3 | 95 |
| 78 | Experimental analysis and modelling of bolted T-stubs under cyclic loads. Journal of Constructional Steel Research, 2008, 64, 655-669. | 3.9 | 86 |
| 79 | Plastic Design of Seismic Resistant V-Braced Frames. Journal of Earthquake Engineering, 2008, 12, 1246-1266. | 2.5 | 61 |
| 80 | Ultimate Behavior of Bolted T-Stubs. II: Model Validation. Journal of Structural Engineering, 2001, 127, 694-704. | 3.4 | 79 |
| 81 | Ultimate Behavior of Bolted T-Stubs. I: Theoretical Model. Journal of Structural Engineering, 2001, 127, 686-693. | 3.4 | 100 |
| 82 | Experimental Analysis of Bolted Connections: Snug versus Preloaded Bolts. Journal of Structural Engineering, 1998, 124, 765-774. | 3.4 | 67 |
| 83 | PLASTIC DESIGN OF SEISMIC RESISTANT STEEL FRAMES. Earthquake Engineering and Structural Dynamics, 1997, 26, 167-191. | 4.4 | 129 |
| 84 | The Use of TPMC for Designing MRFs Equipped with FREEDAM Connections: A Case Study. Key Engineering Materials, 0, 763, 1041-1049. | 0.4 | 6 |