

Larry A Fahnestock

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8699514/publications.pdf>

Version: 2024-02-01

88
papers

2,583
citations

236833

25
h-index

197736

49
g-index

91
all docs

91
docs citations

91
times ranked

1085
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Construction and Live Load Behavior of a Skewed Steel I-Girder Bridge. Transportation Research Record, 2024, 2678, 846-860. | 1.0 | 1 |
| 2 | Seismic behavior assessment for design of integral abutment bridges in Illinois. Earthquake Engineering and Engineering Vibration, 2022, 21, 573-589. | 1.1 | 0 |
| 3 | Synthesis of Bridge Approach Slab Behavior, Design, and Construction Practice. Practice Periodical on Structural Design and Construction, 2022, 27, . | 0.7 | 4 |
| 4 | Seismic Performance Assessment of Quasi-Isolated Highway Bridges with Seat-Type Abutments. Journal of Earthquake Engineering, 2021, 25, 2285-2324. | 1.4 | 5 |
| 5 | Field Behavior of Integral Abutment Bridges under Thermal Loading. Journal of Bridge Engineering, 2021, 26, . | 1.4 | 13 |
| 6 | Parametric Collapse Performance of Low-Ductility Concentrically Braced Frames with Reserve Capacity. Journal of Structural Engineering, 2021, 147, . | 1.7 | 2 |
| 7 | Dual system design for a low-ductility concentrically braced frame with a reserve moment frame. Structures, 2021, 34, 3315-3328. | 1.7 | 2 |
| 8 | Simulating offset blast loads experimentally using shakeâ€tableâ€generated ground motions: Method development and validation. Structural Control and Health Monitoring, 2020, 27, e2480. | 1.9 | 2 |
| 9 | Experimental Parametric Characterization of Bolted Angle Connection Behavior. Journal of Structural Engineering, 2020, 146, . | 1.7 | 14 |
| 10 | Full-Scale Cyclic Rotation and Shear-Load Testing of Double Web with Top and Seat Angle Beam-Column Connections. Journal of Structural Engineering, 2020, 146, 04020164. | 1.7 | 6 |
| 11 | Rotational Capacity of Bolted Double-Web-Angle Beam-Column Gravity Connections through Full-Scale Experimental Testing. Journal of Structural Engineering, 2020, 146, . | 1.7 | 8 |
| 12 | Seismic Performance Assessment of Low-Ductility Concentrically Braced Frames. Journal of Structural Engineering, 2019, 145, . | 1.7 | 17 |
| 13 | Modification of Ground Motions for Use in Central North America. Journal of Earthquake Engineering, 2019, 23, 1385-1406. | 1.4 | 5 |
| 14 | Contribution of Beam-Column Connections with Bolted Angles in the Reserve Capacity and Full-Scale Cyclic Testing. Key Engineering Materials, 2018, 763, 475-484. | 0.4 | 2 |
| 15 | Seismic modeling of integral abutment bridges in Illinois. Engineering Structures, 2018, 165, 170-183. | 2.6 | 25 |
| 16 | Cyclic Experimental Behavior of Nonseismic Elastomeric Bearings with Stiffened Angle Side Retainer Fuses for Quasi-Isolated Seismic Bridge Response. Journal of Bridge Engineering, 2018, 23, 04017120. | 1.4 | 4 |
| 17 | Assessment of design parameters influencing seismic collapse performance of buckling-restrained braced frames. Soil Dynamics and Earthquake Engineering, 2018, 113, 35-46. | 1.9 | 40 |
| 18 | Seismic analysis incorporating detailed structureâ€abutmentâ€foundation interaction for quasi-isolated highway bridges. Structure and Infrastructure Engineering, 2017, 13, 581-603. | 2.0 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Full-Scale Cyclic Testing of Low-Ductility Concentrically Braced Frames. Journal of Structural Engineering, 2017, 143, . | 1.7 | 42 |
| 20 | Parametric Study of Low-Ductility Concentrically Braced Frames under Cyclic Static Loading. Journal of Structural Engineering, 2017, 143, . | 1.7 | 23 |
| 21 | Boundary frame contribution in coupled and uncoupled steel plate shear walls. Earthquake Engineering and Structural Dynamics, 2017, 46, 2355-2380. | 2.5 | 18 |
| 22 | Nonlinear Static Pushover and Eigenvalue Modal Analyses of Quasi-Isolated Highway Bridges with Seat-Type Abutments. Structures, 2017, 12, 145-167. | 1.7 | 6 |
| 23 | Large-Scale Cyclic Testing of Steel-Plate Shear Walls with Coupling. Journal of Structural Engineering, 2017, 143, . | 1.7 | 21 |
| 24 | Response attenuation in a large-scale structure subjected to blast excitation utilizing a system of essentially nonlinear vibration absorbers. Journal of Sound and Vibration, 2017, 389, 52-72. | 2.1 | 68 |
| 25 | Comparison of seismic design provisions for buckling restrained braced frames in Canada, United States, Chile, and New Zealand. Structures, 2016, 8, 183-196. | 1.7 | 18 |
| 26 | Seismic Performance Assessment of Multitiered Steel Concentrically Braced Frames Designed in Accordance with the 2010 AISC Seismic Provisions. Journal of Structural Engineering, 2016, 142, . | 1.7 | 32 |
| 27 | Numerical Simulations of Steel Integral Abutment Bridges under Thermal Loading. Journal of Bridge Engineering, 2016, 21, . | 1.4 | 19 |
| 28 | Analysis and Design of Two-Tiered Steel Braced Frames under In-Plane Seismic Demand. Journal of Structural Engineering, 2016, 142, . | 1.7 | 17 |
| 29 | Strong-Axis Stability of Wide Flange Steel Columns in the Presence of Weak-Axis Flexure. Journal of Structural Engineering, 2016, 142, 04016004. | 1.7 | 19 |
| 30 | Measured Seismic Behavior of Hybrid Masonry Structural Systems. Journal of Structural Engineering, 2016, 142, . | 1.7 | 3 |
| 31 | Performance of Nonseismic PTFE Sliding Bearings When Subjected to Seismic Demands. Journal of Bridge Engineering, 2016, 21, . | 1.4 | 13 |
| 32 | Experimental Behavior of a Half-Scale Steel Concrete Composite Floor System Subjected To Column Removal Scenarios. Journal of Structural Engineering, 2016, 142, . | 1.7 | 63 |
| 33 | Numerical Simulations and Field Monitoring of Integral Abutment Bridges. , 2015, , . | | 1 |
| 34 | Full-Scale Cyclic Testing of an Ordinary Concentrically-Braced Frame. , 2015, , . | | 1 |
| 35 | Analysis of a Half-Scale Composite Floor System Test under Column Loss Scenarios. , 2015, , . | | 0 |
| 36 | Innovations in Steel Design: Research Needs for Global Sustainability. Journal of Structural Engineering, 2015, 141, . | 1.7 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Experimental Characterization of Composite Slab Collapse Resistance for Steel Gravity Frames. , 2014, , . | | 1 |
| 38 | Quantification of Fuse Capacity for Elastomeric and Low-Profile Steel Fixed Bridge Bearings in Regions with High-Magnitude Earthquakes at Long Recurrence Intervals. , 2014, , . | | 0 |
| 39 | Seismic Behavior of Low-Ductility Concentrically-Braced Frames. , 2014, , . | | 6 |
| 40 | Large-Scale Testing of Low-Ductility, Concentrically-Braced Frames. , 2014, , . | | 8 |
| 41 | Experimental Behavior of Bolted Angles and Beam-to-Column Connections. , 2014, , . | | 3 |
| 42 | Experimental Behavior of Low-Ductility Brace Connection Limit States. , 2014, , . | | 9 |
| 43 | Experimental Testing and Numerical Simulation of a Six-Story Structure Incorporating Two-Degree-of-Freedom Nonlinear Energy Sink. Journal of Structural Engineering, 2014, 140, . | 1.7 | 62 |
| 44 | Computational study of self-centering buckling-restrained braced frame seismic performance. Earthquake Engineering and Structural Dynamics, 2014, 43, 1897-1914. | 2.5 | 140 |
| 45 | Realization of a Strongly Nonlinear Vibration-Mitigation Device Using Elastomeric Bumpers. Journal of Engineering Mechanics - ASCE, 2014, 140, . | 1.6 | 33 |
| 46 | Large-scale experimental evaluation and numerical simulation of a system of nonlinear energy sinks for seismic mitigation. Engineering Structures, 2014, 77, 34-48. | 2.6 | 83 |
| 47 | Three-Dimensional Finite Element Simulation of the Seismic Behavior of Multitier Concentrically Braced Frames. , 2014, , . | | 2 |
| 48 | Design, simulation, and large-scale testing of an innovative vibration mitigation device employing essentially nonlinear elastomeric springs. Earthquake Engineering and Structural Dynamics, 2014, 43, 1829-1851. | 2.5 | 34 |
| 49 | Experimental Behavior of Steel Fixed Bearings and Implications for Seismic Bridge Response. Journal of Bridge Engineering, 2014, 19, . | 1.4 | 19 |
| 50 | Large-Scale Testing of a Steel-Concrete Composite Floor System under Column Loss Scenarios. , 2014, , . | | 5 |
| 51 | Cyclic Experimental Behavior of Angles and Applications for Connection Design and Modeling. , 2014, , . | | 6 |
| 52 | Seismic Design and Analysis of Steel Plate Shear Walls with Coupling. Journal of Structural Engineering, 2013, 139, 1263-1273. | 1.7 | 30 |
| 53 | Seismic Response of Single-Degree-of-Freedom Systems Representing Low-Ductility Steel Concentrically Braced Frames with Reserve Capacity. Journal of Structural Engineering, 2013, 139, 199-211. | 1.7 | 16 |
| 54 | Evaluation of quasi-isolated seismic bridge behavior using nonlinear bearing models. Engineering Structures, 2013, 49, 168-181. | 2.6 | 63 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Seismic performance of highway bridges with fusing bearing components for quasi-isolation. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 1375-1394. | 2.5 | 45 |
| 56 | Simulation of Steel Brace Hysteretic Response Using the Force Analogy Method. <i>Journal of Structural Engineering</i> , 2013, 139, 526-536. | 1.7 | 28 |
| 57 | Investigation of Dry Friction Effect of Shroud Damping Wire on Model Test Bladed Wheel. , 2013, , . | | 1 |
| 58 | Experimental Blast Testing of a Large 9-Story Structure Equipped With a System of Nonlinear Energy Sinks. , 2013, , . | | 6 |
| 59 | Shear and Friction Response of Nonseismic Laminated Elastomeric Bridge Bearings Subject to Seismic Demands. <i>Journal of Bridge Engineering</i> , 2013, 18, 612-623. | 1.4 | 74 |
| 60 | Seismic Design and Viability of Hybrid Masonry Building Systems. <i>Journal of Structural Engineering</i> , 2013, 139, 411-421. | 1.7 | 5 |
| 61 | Impact of Residual Stresses and Initial Imperfections on the Seismic Response of Steel Moment Frames. <i>Journal of Structural Engineering</i> , 2012, 138, 942-951. | 1.7 | 9 |
| 62 | Simulation and Testing of a 6-Story Structure Incorporating a Coupled Two Mass Nonlinear Energy Sink. , 2012, , . | | 4 |
| 63 | Passive damping enhancement of a two-degree-of-freedom system through a strongly nonlinear two-degree-of-freedom attachment. <i>Journal of Sound and Vibration</i> , 2012, 331, 5393-5407. | 2.1 | 89 |
| 64 | Overview of AISC/NSF Structural Integrity Research and Preliminary Results. , 2012, , . | | 13 |
| 65 | Development and experimental validation of a nickel-titanium shape memory alloy self-centering buckling-restrained brace. <i>Engineering Structures</i> , 2012, 40, 288-298. | 2.6 | 384 |
| 66 | Cyclic flexural analysis and behavior of beam-column connections with gusset plates. <i>Journal of Constructional Steel Research</i> , 2012, 72, 227-239. | 1.7 | 20 |
| 67 | Behavior and mechanisms of steel plate shear walls with coupling. <i>Journal of Constructional Steel Research</i> , 2012, 74, 8-16. | 1.7 | 32 |
| 68 | Cyclic Flexural Testing of Concentrically Braced Frame Beam-Column Connections. <i>Journal of Structural Engineering</i> , 2011, 137, 739-747. | 1.7 | 52 |
| 69 | Design and Testing of Coupled Steel Plate Shear Walls. , 2011, , . | | 0 |
| 70 | Self-Centering Buckling-Restrained Braces for Advanced Seismic Performance. , 2011, , . | | 18 |
| 71 | Evaluation of buckling-restrained braced frame seismic performance considering reserve strength. <i>Engineering Structures</i> , 2011, 33, 77-89. | 2.6 | 107 |
| 72 | Seismic Response of Bearings for Quasi-Isolated Bridges—Testing and Component Modeling. , 2011, , . | | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Computational Analyses of Quasi-Isolated Bridges with Fusing Bearing Components. , 2011, , . | | 5 |
| 74 | Behavior of multi-story steel buildings under dynamic column loss scenarios. Steel and Composite Structures, 2011, 11, 149-168. | 1.3 | 16 |
| 75 | Buckling-restrained braced frame connection performance. Journal of Constructional Steel Research, 2010, 66, 65-74. | 1.7 | 59 |
| 76 | Basic Mechanisms for Hybrid Masonry Structures. , 2010, , . | | 2 |
| 77 | Flexural Behavior of Concentrically-Braced Frame Beam-Column Connections. , 2010, , . | | 2 |
| 78 | Impact of Reserve Strength on Buckling-Restrained Braced Frame Performance. , 2010, , . | | 0 |
| 79 | Interface of the Direct Analysis Method and Seismic Design. , 2009, , . | | 1 |
| 80 | Ductility capacity models for buckling-restrained braces. Journal of Constructional Steel Research, 2009, 65, 1712-1720. | 1.7 | 34 |
| 81 | Assessment of buckling-restrained braced frame reliability using an experimental limit-state model and stochastic dynamic analysis. Earthquake Engineering and Engineering Vibration, 2009, 8, 373-385. | 1.1 | 8 |
| 82 | Cyclic Behavior and Performance of Beam-Column Connections in Concentrically Braced Frames. , 2009, , . | | 0 |
| 83 | Ductility Capacity Models for Buckling-Restrained Braces Using a Bayesian Methodology. , 2008, , . | | 4 |
| 84 | Seismic Response and Performance of Buckling-Restrained Braced Frames. Journal of Structural Engineering, 2007, 133, 1195-1204. | 1.7 | 151 |
| 85 | Experimental Evaluation of a Large-Scale Buckling-Restrained Braced Frame. Journal of Structural Engineering, 2007, 133, 1205-1214. | 1.7 | 266 |
| 86 | Ductility demands on buckling-restrained braced frames under earthquake loading. Earthquake Engineering and Engineering Vibration, 2003, 2, 255-268. | 1.1 | 52 |
| 87 | Strength and Ductility of HPS-100W I-Girders in Negative Flexure. Journal of Bridge Engineering, 2001, 6, 316-323. | 1.4 | 25 |
| 88 | Seismic Stability of Buckling-Restrained Braced Frames. Key Engineering Materials, 0, 763, 924-931. | 0.4 | 5 |