

Tracy C Becker

List of Publications by Year in descending order

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papers

632
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623734

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times ranked

388
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Experimental and analytical study of the bi-directional behavior of the triple friction pendulum isolator. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 355-373. | 4.4 | 102 |
| 2 | Full-scale shaking table test of a base-isolated medical facility subjected to vertical motions. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 1931-1949. | 4.4 | 87 |
| 3 | Failure of double friction pendulum bearings under pulse-type motions. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 715-732. | 4.4 | 55 |
| 4 | Extreme behavior in a triple friction pendulum isolated frame. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 2683-2698. | 4.4 | 53 |
| 5 | Inelastic response of base-isolated structures subjected to impact. <i>Engineering Structures</i> , 2018, 171, 86-93. | 5.3 | 31 |
| 6 | Application of Isolation to High-Rise Buildings: A Japanese Design Case Study through a U.S. Design Code Lens. <i>Earthquake Spectra</i> , 2015, 31, 1451-1470. | 3.1 | 29 |
| 7 | Approximating peak responses in seismically isolated buildings using generalized modal analysis. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 1807-1825. | 4.4 | 22 |
| 8 | Design optimization of triple friction pendulums for high-rise buildings considering both seismic and wind loads. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 142, 106568. | 3.8 | 22 |
| 9 | To limit forces or displacements: Collapse study of steel frames isolated by sliding bearings with and without restraining rims. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 112, 203-214. | 3.8 | 21 |
| 10 | LQR control with frequency-dependent scheduled gain for a semi-active floor isolation system. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 1265-1284. | 4.4 | 20 |
| 11 | Hybrid shake table testing method: Theory, implementation and application to midlevel isolation. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1915. | 4.0 | 20 |
| 12 | Experimental study of the effect of restraining rim design on the extreme behavior of pendulum sliding bearings. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 906-924. | 4.4 | 17 |
| 13 | Three-dimensional double friction pendulum bearing model including uplift and impact behavior: Formulation and numerical example. <i>Engineering Structures</i> , 2019, 199, 109579. | 5.3 | 17 |
| 14 | Correct treatment of rotation of sliding surfaces in a kinematic model of the triple friction pendulum bearing. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 311-317. | 4.4 | 14 |
| 15 | Effect of Design Methodology on Collapse of Friction Pendulum Isolated Moment-Resisting and Concentrically Braced Frames. <i>Journal of Structural Engineering</i> , 2018, 144, . | 3.4 | 14 |
| 16 | Evaluating adaptive vertical seismic isolation for equipment in nuclear power plants. <i>Nuclear Engineering and Design</i> , 2020, 358, 110399. | 1.7 | 14 |
| 17 | Effect of support rotation on triple friction pendulum bearing behavior. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 1731-1748. | 4.4 | 13 |
| 18 | Experimental Investigation of Elastomeric Isolation Bearings with Flexible Supporting Columns. <i>Journal of Structural Engineering</i> , 2017, 143, 04017057. | 3.4 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Enhanced performance through a dual isolation seismic protection system. <i>Structural Design of Tall and Special Buildings</i> , 2016, 25, 72-89. | 1.9 | 11 |
| 20 | Probabilistic Framework for Lifetime Bridge-Bearing Demands. <i>Journal of Bridge Engineering</i> , 2019, 24, . | 2.9 | 10 |
| 21 | Performance of unscented Kalman filter for model updating with experimental data. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 1948-1966. | 4.4 | 10 |
| 22 | Minimal disturbance seismic rehabilitation of steel moment-resisting frames using light-weight steel elements. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 383-400. | 4.4 | 8 |
| 23 | Incorporating Frame Action into Seismic Design of Gusset Plates. <i>Journal of Structural Engineering</i> , 2021, 147, . | 3.4 | 7 |
| 24 | Parameterized Logistic Models for Bridge Inspection and Maintenance Scheduling. <i>Journal of Bridge Engineering</i> , 2021, 26, . | 2.9 | 7 |
| 25 | Stiffness of Rubber Bearings Considering Nonstandard Top and Bottom Boundary Conditions. <i>Journal of Structural Engineering</i> , 2021, 147, . | 3.4 | 6 |
| 26 | Parameterized models for prediction of lifetime bearing demands. <i>Engineering Structures</i> , 2022, 252, 113649. | 5.3 | 5 |
| 27 | H [∞] control in the frequency domain for a semi-active floor isolation system. <i>Frontiers of Structural and Civil Engineering</i> , 2013, 7, 264-275. | 2.9 | 4 |
| 28 | Novel gusset plate design using high strength steel and heat treatment. <i>Journal of Constructional Steel Research</i> , 2019, 157, 59-69. | 3.9 | 1 |
| 29 | Fuzzy-Logistic Models for Incorporating Epistemic Uncertainty in Bridge Management Decisions. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2022, 8, . | 1.7 | 0 |