

Tracy C Becker

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

632
citations

623734

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580821

25
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29
all docs

29
docs citations

29
times ranked

388
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameterized models for prediction of lifetime bearing demands. <i>Engineering Structures</i> , 2022, 252, 113649.	5.3	5
2	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
3	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
4	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
5	Incorporating Frame Action into Seismic Design of Gusset Plates. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	7
6	Stiffness of Rubber Bearings Considering Nonstandard Top and Bottom Boundary Conditions. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	6
7	Parameterized Logistic Models for Bridge Inspection and Maintenance Scheduling. <i>Journal of Bridge Engineering</i> , 2021, 26, .	2.9	7
8	Evaluating adaptive vertical seismic isolation for equipment in nuclear power plants. <i>Nuclear Engineering and Design</i> , 2020, 358, 110399.	1.7	14
9	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
10	Probabilistic Framework for Lifetime Bridge-Bearing Demands. <i>Journal of Bridge Engineering</i> , 2019, 24, .	2.9	10
11	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
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	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
14	Inelastic response of base-isolated structures subjected to impact. <i>Engineering Structures</i> , 2018, 171, 86-93.	5.3	31
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	Extreme behavior in a triple friction pendulum isolated frame. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 2683-2698.	4.4	53
17	Experimental Investigation of Elastomeric Isolation Bearings with Flexible Supporting Columns. <i>Journal of Structural Engineering</i> , 2017, 143, 04017057.	3.4	12
18	Failure of double friction pendulum bearings under pulse-type motions. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 715-732.	4.4	55

#	ARTICLE	IF	CITATIONS
19	Hybrid shake table testing method: Theory, implementation and application to midlevel isolation. Structural Control and Health Monitoring, 2017, 24, e1915.	4.0	20
20	Minimal disturbance seismic rehabilitation of steel moment-resisting frames using light-weight steel elements. Earthquake Engineering and Structural Dynamics, 2016, 45, 383-400.	4.4	8
21	Enhanced performance through a dual isolation seismic protection system. Structural Design of Tall and Special Buildings, 2016, 25, 72-89.	1.9	11
22	Application of Isolation to High-Rise Buildings: A Japanese Design Case Study through a U.S. Design Code Lens. Earthquake Spectra, 2015, 31, 1451-1470.	3.1	29
23	LQR control with frequency-dependent scheduled gain for a semi-active floor isolation system. Earthquake Engineering and Structural Dynamics, 2014, 43, 1265-1284.	4.4	20
24	Correct treatment of rotation of sliding surfaces in a kinematic model of the triple friction pendulum bearing. Earthquake Engineering and Structural Dynamics, 2013, 42, 311-317.	4.4	14
25	Effect of support rotation on triple friction pendulum bearing behavior. Earthquake Engineering and Structural Dynamics, 2013, 42, 1731-1748.	4.4	13
26	Approximating peak responses in seismically isolated buildings using generalized modal analysis. Earthquake Engineering and Structural Dynamics, 2013, 42, 1807-1825.	4.4	22
27	H [∞] control in the frequency domain for a semi-active floor isolation system. Frontiers of Structural and Civil Engineering, 2013, 7, 264-275.	2.9	4
28	Full-scale shaking table test of a base-isolated medical facility subjected to vertical motions. Earthquake Engineering and Structural Dynamics, 2013, 42, 1931-1949.	4.4	87
29	Experimental and analytical study of the bi-directional behavior of the triple friction pendulum isolator. Earthquake Engineering and Structural Dynamics, 2012, 41, 355-373.	4.4	102