

Roland Platz

List of Publications by Year in descending order

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31
papers

225
citations

1040056

9
h-index

1058476

14
g-index

34
all docs

34
docs citations

34
times ranked

117
citing authors

#	ARTICLE	IF	CITATIONS
1	Model Based Fault Identification in Rotor Systems by Least Squares Fitting. International Journal of Rotating Machinery, 2001, 7, 311-321.	0.8	62
2	Uncertainty quantification in the mathematical modelling of a suspension strut using Bayesian inference. Mechanical Systems and Signal Processing, 2019, 118, 158-170.	8.0	17
3	Evaluation of uncertainty in experimental active buckling control of a slender beam-column with disturbance forces using Weibull analysis. Mechanical Systems and Signal Processing, 2016, 79, 123-131.	8.0	13
4	Quantification and Evaluation of Uncertainty in the Mathematical Modelling of a Suspension Strut Using Bayesian Model Validation Approach. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 113-124.	0.5	13
5	Nonparametric Quantile Estimation Based on Surrogate Models. IEEE Transactions on Information Theory, 2016, 62, 5727-5739.	2.4	11
6	Active buckling control of a beam-column with circular cross-section using piezo-elastic supports and integral LQR control. Smart Materials and Structures, 2016, 25, 065008.	3.5	11
7	Comparison of Uncertainty in Passive and Active Vibration Isolation. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 15-25.	0.5	11
8	Approach for a Consistent Description of Uncertainty in Process Chains of Load Carrying Mechanical Systems. Applied Mechanics and Materials, 2011, 104, 133-144.	0.2	10
9	Lateral vibration attenuation of a beam with circular cross-section by a support with integrated piezoelectric transducers shunted to negative capacitances. Smart Materials and Structures, 2016, 25, 095045.	3.5	10
10	Approach to Evaluate Uncertainty in Passive and Active Vibration Reduction. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 345-352.	0.5	9
11	Gain-scheduled \mathcal{H}_{∞} buckling control of a circular beam-column subject to time-varying axial loads. Smart Materials and Structures, 2018, 27, 065009.	3.5	7
12	Two control strategies for semi-active load path redistribution in a load-bearing structure. Mechanical Systems and Signal Processing, 2019, 118, 195-208.	8.0	7
13	Model Verification and Validation of a Piezo-Elastic Support for Passive and Active Structural State Control of Beams with Circular Cross-Section. Applied Mechanics and Materials, 0, 807, 67-77.	0.2	4
14	Quantification of Uncertainty in the Mathematical Modelling of a Multivariable Suspension Strut Using Bayesian Interval Hypothesis-Based Approach. Applied Mechanics and Materials, 2018, 885, 3-17.	0.2	4
15	Statistical approach for active buckling control with uncertainty. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 291-297.	0.5	4
16	Approach to prevent locking in a spring-damper system by adaptive load redistribution in auxiliary kinematic guidance elements. , 2015, , .		3
17	Uncertainty Quantification in Case of Imperfect Models: A Non-Bayesian Approach. Scandinavian Journal of Statistics, 2018, 45, 729-752.	1.4	3
18	Non-probabilistic Uncertainty Evaluation in the Concept Phase for Airplane Landing Gear Design. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 161-169.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Approach to Assess Basic Deterministic Data and Model Form Uncertainty in Passive and Active Vibration Isolation. Lecture Notes in Mechanical Engineering, 2021, , 208-223.	0.4	2
20	Adequate Mathematical Beam-Column Model for Active Buckling Control in a Tetrahedron Truss Structure. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 323-332.	0.5	2
21	Approach to Evaluate and to Compare Basic Structural Design Concepts of Landing Gears in Early Stage of Development Under Uncertainty. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 167-175.	0.5	2
22	Mathematical modelling of postbuckling in a slender beam column for active stabilisation control with respect to uncertainty. , 2012, , .		1
23	Mathematical modeling and numerical simulation of an actively stabilized beam-column with circular cross-section. Proceedings of SPIE, 2014, , .	0.8	1
24	Nonparametric estimation of a maximum of quantiles. Electronic Journal of Statistics, 2014, 8, .	0.7	1
25	Methodical Approaches to Describe and Evaluate Uncertainty in the Transmission Behavior of a Sensory Rod. Applied Mechanics and Materials, 2015, 807, 205-217.	0.2	1
26	Consistent approach to describe and evaluate uncertainty in vibration attenuation using resonant piezoelectric shunting and tuned mass dampers. Mechanics and Industry, 2017, 18, 108.	1.3	1
27	Linear Parameter-Varying (LPV) Buckling Control of an Imperfect Beam-Column Subject to Time-Varying Axial Loads. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 103-112.	0.5	1
28	BAYESIAN Inference Based Parameter Calibration of a Mechanical Load-Bearing Structure's Mathematical Model. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 337-347.	0.5	1
29	A survey to control uncertainties by comprehensive monitoring of load-carrying structures. , 2010, , .		0
30	Evaluation and Control of Uncertainty in Using an Active Column System. Applied Mechanics and Materials, 0, 104, 187-195.	0.2	0
31	Methods and Technologies for Mastering Uncertainty. Springer Tracts in Mechanical Engineering, 2021, , 209-364.	0.3	0