

Roland Platz

List of Publications by Year in descending order

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31
papers

225
citations

1040056

9
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1058476

14
g-index

34
all docs

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docs citations

34
times ranked

117
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | Methods and Technologies for Mastering Uncertainty. Springer Tracts in Mechanical Engineering, 2021, , 209-364. | 0.3 | 0 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | Uncertainty Quantification in Case of Imperfect Models: A Non-Bayesian Approach. Scandinavian Journal of Statistics, 2018, 45, 729-752. | 1.4 | 3 |
| 8 | Gain-scheduled H_{∞} buckling control of a circular beam-column subject to time-varying axial loads. Smart Materials and Structures, 2018, 27, 065009. | 3.5 | 7 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Nonparametric Quantile Estimation Based on Surrogate Models. IEEE Transactions on Information Theory, 2016, 62, 5727-5739. | 2.4 | 11 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | Approach to prevent locking in a spring-damper system by adaptive load redistribution in auxiliary kinematic guidance elements. , 2015, , . | | 3 |
| 21 | Comparison of Uncertainty in Passive and Active Vibration Isolation. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 15-25. | 0.5 | 11 |
| 22 | Mathematical modeling and numerical simulation of an actively stabilized beam-column with circular cross-section. Proceedings of SPIE, 2014, , . | 0.8 | 1 |
| 23 | Nonparametric estimation of a maximum of quantiles. Electronic Journal of Statistics, 2014, 8, . | 0.7 | 1 |
| 24 | Approach to Evaluate Uncertainty in Passive and Active Vibration Reduction. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 345-352. | 0.5 | 9 |
| 25 | Statistical approach for active buckling control with uncertainty. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 291-297. | 0.5 | 4 |
| 26 | Mathematical modelling of postbuckling in a slender beam column for active stabilisation control with respect to uncertainty. , 2012, , . | | 1 |
| 27 | 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 |
| 28 | A survey to control uncertainties by comprehensive monitoring of load-carrying structures. , 2010, , . | | 0 |
| 29 | Model Based Fault Identification in Rotor Systems by Least Squares Fitting. International Journal of Rotating Machinery, 2001, 7, 311-321. | 0.8 | 62 |
| 30 | Evaluation and Control of Uncertainty in Using an Active Column System. Applied Mechanics and Materials, 0, 104, 187-195. | 0.2 | 0 |
| 31 | 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 |