

Nicholas J Gaul

List of Publications by Year in descending order

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Version: 2024-02-01

11
papers

312
citations

1040056

9
h-index

1474206

9
g-index

11
all docs

11
docs citations

11
times ranked

226
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and validation of a dynamic metamodel based on stochastic radial basis functions and uncertainty quantification. <i>Structural and Multidisciplinary Optimization</i> , 2015, 51, 347-368.	3.5	88
2	Evaluation of kriging based surrogate models constructed from mesoscale computations of shock interaction with particles. <i>Journal of Computational Physics</i> , 2017, 336, 235-260.	3.8	48
3	Conservative reliability-based design optimization method with insufficient input data. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 1609-1630.	3.5	42
4	Confidence-based reliability assessment considering limited numbers of both input and output test data. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 2027-2043.	3.5	34
5	Evaluation of multifidelity surrogate modeling techniques to construct closure laws for drag in shock-particle interactions. <i>Journal of Computational Physics</i> , 2018, 371, 434-451.	3.8	33
6	Reliability-Based Design Optimization Using Confidence-Based Model Validation for Insufficient Experimental Data. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2017, 139, .	2.9	19
7	Framework of Reliability-Based Stochastic Mobility Map for Next Generation NATO Reference Mobility Model. <i>Journal of Computational and Nonlinear Dynamics</i> , 2019, 14, .	1.2	13
8	Modified Bayesian Kriging for Noisy Response Problems for Reliability Analysis. , 2015, , .		12
9	Effects of parametric uncertainty on multi-scale model predictions of shock response of a pressed energetic material. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	12
10	Treating Epistemic Uncertainty Using Bootstrapping Selection of Input Distribution Model for Confidence-Based Reliability Assessment. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2019, 141, .	2.9	11
11	Confidence-Based Uncertainty Quantification and Model Validation for Simulations of High-Speed Impact Problems. <i>Journal of Verification, Validation and Uncertainty Quantification</i> , 2020, 5, .	0.4	0