

# Shobhit Jain

## List of Publications by Year in descending order

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papers

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1039406

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docs citations

11  
times ranked

122  
citing authors

#	ARTICLE	IF	CITATIONS
1	A quadratic manifold for model order reduction of nonlinear structural dynamics. Computers and Structures, 2017, 188, 80-94.	2.4	76
2	How to compute invariant manifolds and their reduced dynamics in high-dimensional finite element models. Nonlinear Dynamics, 2022, 107, 1417-1450.	2.7	45
3	Generalization of quadratic manifolds for reduced order modeling of nonlinear structural dynamics. Computers and Structures, 2017, 192, 196-209.	2.4	43
4	Exact nonlinear model reduction for a von Kármán beam: Slow-fast decomposition and spectral submanifolds. Journal of Sound and Vibration, 2018, 423, 195-211.	2.1	42
5	Model reduction to spectral submanifolds and forced-response calculation in high-dimensional mechanical systems. Journal of Sound and Vibration, 2020, 488, 115640.	2.1	33
6	Fast computation of steady-state response for high-degree-of-freedom nonlinear systems. Nonlinear Dynamics, 2019, 97, 313-341.	2.7	16
7	Simulation-Free Hyper-Reduction for Geometrically Nonlinear Structural Dynamics: A Quadratic Manifold Lifting Approach. Journal of Computational and Nonlinear Dynamics, 2018, 13, .	0.7	13
8	Model order reduction for temperature-dependent nonlinear mechanical systems: A multiple scales approach. Journal of Sound and Vibration, 2020, 465, 115022.	2.1	12
9	Using spectral submanifolds for optimal mode selection in nonlinear model reduction. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200725.	1.0	10
10	Hyper-Reduction Over Nonlinear Manifolds for Large Nonlinear Mechanical Systems. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	0.7	9
11	Integral equations and model reduction for fast computation of nonlinear periodic response. International Journal for Numerical Methods in Engineering, 2021, 122, 4637-4659.	1.5	2