Kathrin Smetana

List of Publications by Year
in descending order

13 papers	173 citations	1307594 7 h-index	1125743 13 g-index
14 all docs	14 docs citations	14 times ranked	104 citing authors

#	Article	IF	Citations
1	Optimal Local Approximation Spaces for Component-Based Static Condensation Procedures. SIAM Journal of Scientific Computing, 2016, 38, A3318-A3356.	2.8	43
2	Randomized Local Model Order Reduction. SIAM Journal of Scientific Computing, 2018, 40, A2120-A2151.	2.8	32
3	(Parametrized) First Order Transport Equations: Realization of Optimally Stable Petrov--Galerkin Methods. SIAM Journal of Scientific Computing, 2019, 41, A592-A621.	2.8	22
4	A new certification framework for the port reduced static condensation reduced basis element method. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 352-383.	6.6	19
5	Randomized Residual-Based Error Estimators for Parametrized Equations. SIAM Journal of Scientific Computing, 2019, 41, A900-A926.	2.8	14
6	Unsaturated subsurface flow with surface water and nonlinear in- and outflow conditions. Mathematical Models and Methods in Applied Sciences, 2014, 24, 901-936.	3.3	13
7	Hierarchical model reduction of nonlinear partial differential equations based on the adaptive empirical projection method and reduced basis techniques. ESAIM: Mathematical Modelling and Numerical Analysis, 2017, 51, 641-677.	1.9	8
8	Optimal Local Approximation Spaces for Parabolic Problems. Multiscale Modeling and Simulation, 2022, 20, 551-582.	1.6	8
9	A Dimensional Reduction Approach Based on the Application of Reduced Basis Methods in the Framework of Hierarchical Model Reduction. SIAM Journal of Scientific Computing, 2014, 36, A714-A736.	2.8	6
10	Randomized residualâ€based error estimators for the proper generalized decomposition approximation of parametrized problems. International Journal for Numerical Methods in Engineering, 2020, 121, 5153-5177.	2.8	5
11	Approximation of skewed interfaces with tensor-based model reduction procedures: Application to the reduced basis hierarchical model reduction approach. Journal of Computational Physics, 2016, 321, 1185-1205.	3.8	1
12	Static Condensation Optimal Port/Interface Reduction and Error Estimation for Structural Health Monitoring. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2020, , 1-24.	0.2	1
13	Stable and Efficient Petrov--Galerkin Methods for a Kinetic Fokker--Planck Equation. SIAM Journal on Numerical Analysis, 2022, 60, 157-179.	2.3	1