Fabien Casenave

List of Publications by Year
in descending order

23	278	933447	940533
papers	citations	10	16
		h-index	g-index

23	23	23	225
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Model order reduction assisted by deep neural networks (ROM-net). Advanced Modeling and Simulation in Engineering Sciences, 2020, 7, .	1.7	42
2	A nonintrusive reduced basis method applied to aeroacoustic simulations. Advances in Computational Mathematics, 2015, 41, 961-986.	1.6	32
3	Coupled BEM–FEM for the convected Helmholtz equation with non-uniform flow in a bounded domain. Journal of Computational Physics, 2014, 257, 627-644.	3.8	28
4	A nonintrusive distributed reduced-order modeling framework for nonlinear structural mechanics—Application to elastoviscoplastic computations. International Journal for Numerical Methods in Engineering, 2020, 121, 32-53.	2.8	22
5	Accurate and online-efficient evaluation of the *a posteriori* error bound in the reduced basis method. ESAIM: Mathematical Modelling and Numerical Analysis, 2014, 48, 207-229.	1.9	21
6	Boundary element and finite element coupling for aeroacoustics simulations. Journal of Computational Physics, 2015, 294, 274-296.	3.8	20
7	Direct measurement of evapotranspiration from a forest using a superconducting gravimeter. Geophysical Research Letters, 2016, 43, 10,225.	4.0	20
8	Fast computation of general forward gravitation problems. Journal of Geodesy, 2016, 90, 655-675.	3.6	16
9	Accurate a posteriori error evaluation in the reduced basis method. Comptes Rendus Mathematique, 2012, 350, 539-542.	0.3	13
10	Time Stable Reduced Order Modeling by an Enhanced Reduced Order Basis of the Turbulent and Incompressible 3D Navier–Stokes Equations. Mathematical and Computational Applications, 2019, 24, 45.	1.3	13
11	Physics-informed cluster analysis and a priori efficiency criterion for the construction of local reduced-order bases. Journal of Computational Physics, 2022, 458, 111120.	3.8	9
12	A catching-up algorithm for multibody dynamics with impacts and dry friction. Computer Methods in Applied Mechanics and Engineering, 2018, 334, 208-237.	6.6	8
13	Data Augmentation and Feature Selection for Automatic Model Recommendation in Computational Physics. Mathematical and Computational Applications, 2021, 26, 17.	1.3	6
14	A nonintrusive reduced order model for nonlinear transient thermal problems with nonparametrized variability. Advanced Modeling and Simulation in Engineering Sciences, 2020, 7, .	1.7	6
15	Data-Targeted Prior Distribution for Variational AutoEncoder. Fluids, 2021, 6, 343.	1.7	5
16	Uncertainty quantification for industrial numerical simulation using dictionaries of reduced order models. Mechanics and Industry, 2022, 23, 3.	1.3	5
17	An Error Indicator-Based Adaptive Reduced Order Model for Nonlinear Structural Mechanics—Application to High-Pressure Turbine Blades. Mathematical and Computational Applications, 2019, 24, 41.	1.3	4
18	Variants of the Empirical Interpolation Method: Symmetric formulation, choice of norms and rectangular extension. Applied Mathematics Letters, 2016, 56, 23-28.	2.7	3

#	Article	IF	Citations
19	Deep Convolutional Generative Adversarial Networks Applied to 2D Incompressible and Unsteady Fluid Flows. Advances in Intelligent Systems and Computing, 2020, , 264-276.	0.6	2
20	An updated Gappy-POD to capture non-parameterized geometrical variation in fluid dynamics problems. Advanced Modeling and Simulation in Engineering Sciences, 2022, 9, .	1.7	2
21	A multiscale problem in thermal science. ESAIM: Proceedings and Surveys, 2012, 38, 202-219.	0.4	1
22	Nonintrusive approximation of parametrized limits of matrix power algorithms â€" application to matrix inverses and log-determinants. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 219-248.	1.9	0
23	Reduced Order Modeling Assisted by Convolutional Neural Network for Thermal Problems with Nonparametrized Geometrical Variability. Advances in Intelligent Systems and Computing, 2020, , 245-263.	0.6	0