

David Ryckelynck

List of Publications by Year in descending order

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papers

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43
all docs

43
docs citations

43
times ranked

231
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal plasticity modeling of the cyclic behavior of polycrystalline aggregates under non-symmetric uniaxial loading: Global and local analyses. International Journal of Plasticity, 2020, 126, 102619.	4.1	44
2	Model order reduction assisted by deep neural networks (ROM-net). Advanced Modeling and Simulation in Engineering Sciences, 2020, 7, .	0.7	42
3	Multidimensional a priori hyper-reduction of mechanical models involving internal variables. Computer Methods in Applied Mechanics and Engineering, 2012, 225-228, 28-43.	3.4	32
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.	1.5	22
5	Hyper-reduced predictions for lifetime assessment of elasto-plastic structures. Meccanica, 2016, 51, 309-317.	1.2	19
6	A robust adaptive model reduction method for damage simulations. Computational Materials Science, 2011, 50, 1597-1605.	1.4	16
7	Estimation of the validity domain of hyper-reduction approximations in generalized standard elastoviscoplasticity. Advanced Modeling and Simulation in Engineering Sciences, 2015, 2, .	0.7	16
8	Réduction a priori de modèles thermomécaniques. Comptes Rendus - Mécanique, 2002, 330, 499-505.	2.1	15
9	Interpolation naturelle sur les domaines non convexes par l'utilisation du diagramme de Voronoï contraint. Revue Européenne Des Elements, 2003, 12, 487-509.	0.1	10
10	Physics-informed cluster analysis and a priori efficiency criterion for the construction of local reduced-order bases. Journal of Computational Physics, 2022, 458, 111120.	1.9	9
11	Numerical simulation of the cooling-down of high-zirconia fused-cast refractories. Journal of the European Ceramic Society, 2012, 32, 3941-3947.	2.8	8
12	Hyper-reduced direct numerical simulation of voids in welded joints via image-based modeling. International Journal for Numerical Methods in Engineering, 2020, 121, 2581-2599.	1.5	7
13	Deep learning model to assist multiphysics conjugate problems. Physics of Fluids, 2022, 34, .	1.6	7
14	Toward “green” mechanical simulations in materials science. European Journal of Computational Mechanics, 2010, 19, 365-388.	0.6	6
15	Hyper-reduction of generalized continua. Computational Mechanics, 2017, 59, 753-778.	2.2	6
16	Computer Vision with Error Estimation for Reduced Order Modeling of Macroscopic Mechanical Tests. Complexity, 2018, 2018, 1-10.	0.9	6
17	An Algorithmic Comparison of the Hyper-Reduction and the Discrete Empirical Interpolation Method for a Nonlinear Thermal Problem. Mathematical and Computational Applications, 2018, 23, 8.	0.7	6
18	Data Augmentation and Feature Selection for Automatic Model Recommendation in Computational Physics. Mathematical and Computational Applications, 2021, 26, 17.	0.7	6

#	ARTICLE	IF	CITATIONS
19	An adaptive ROM approach for solving transfer equations. European Journal of Computational Mechanics, 2006, 15, 589-605.	0.6	5
20	Hyper-reduction framework for model calibration in plasticity-induced fatigue. Advanced Modeling and Simulation in Engineering Sciences, 2016, 3, .	0.7	5
21	Data Pruning of Tomographic Data for the Calibration of Strain Localization Models. Mathematical and Computational Applications, 2019, 24, 18.	0.7	5
22	Data-Targeted Prior Distribution for Variational AutoEncoder. Fluids, 2021, 6, 343.	0.8	5
23	Real-Time Data Assimilation in Welding Operations Using Thermal Imaging and Accelerated High-Fidelity Digital Twinning. Mathematics, 2021, 9, 2263.	1.1	5
24	Uncertainty quantification for industrial numerical simulation using dictionaries of reduced order models. Mechanics and Industry, 2022, 23, 3.	0.5	5
25	Deep multimodal autoencoder for crack criticality assessment. International Journal for Numerical Methods in Engineering, 2022, 123, 1456-1480.	1.5	5
26	Multiple Tensor Train Approximation of Parametric Constitutive Equations in Elasto-Viscoplasticity. Mathematical and Computational Applications, 2019, 24, 17.	0.7	4
27	Mechanical dissimilarity of defects in welded joints via Grassmann manifold and machine learning. Comptes Rendus - Mecanique, 2020, 348, 911-935.	0.3	4
28	Architected Materials to Improve the Reliability of Power Electronics Modules: Substrate and Lead-Free Solder. Journal of Electronic Materials, 2014, 43, 648-657.	1.0	3
29	Mechanical assessment of defects in welded joints: morphological classification and data augmentation. Journal of Mathematics in Industry, 2021, 11, .	0.7	3
30	Condition Number and Clustering-Based Efficiency Improvement of Reduced-Order Solvers for Contact Problems Using Lagrange Multipliers. Mathematics, 2022, 10, 1495.	1.1	3
31	Deterministic particle approach of Multi Bead-Spring polymer models. European Journal of Computational Mechanics, 2006, 15, 481-494.	0.6	2
32	Deep Convolutional Generative Adversarial Networks Applied to 2D Incompressible and Unsteady Fluid Flows. Advances in Intelligent Systems and Computing, 2020, , 264-276.	0.5	2
33	$\hat{\mathbf{I}}_{\pm}$ -NEM and model reduction. Revue Européenne Des Elements, 2005, 14, 903-923.	0.1	1
34	Anticipation of gears distortions caused by heat treatments. AIP Conference Proceedings, 2007, , .	0.3	1
35	A pruning algorithm preserving modeling capabilities for polycrystalline data. Computational Mechanics, 2021, 68, 1407-1419.	2.2	1
36	Treating Moving Interfaces in Thermal Models with the C-NEM. , 2005, , 255-269.		0

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37	Detection of deviations origins in a heat treatment process using Proper Orthogonal Decomposition (POD) basis. International Journal of Material Forming, 2008, 1, 1055-1058.	0.9	0
38	Multidimensional Hyper-Reduction of Large Mechanical Models Involving Internal Variables. , 2012, , .		0
39	Micro-mechanical characterization of lead-free solder joints in power electronics. , 2014, , .		0
40	Fragmentation modeling of a resin bonded sand. EPJ Web of Conferences, 2017, 140, 11004.	0.1	0
41	Reduced Order Modeling Assisted by Convolutional Neural Network for Thermal Problems with Nonparametrized Geometrical Variability. Advances in Intelligent Systems and Computing, 2020, , 245-263.	0.5	0