Pierre LadevÃ¨ze

List of Publications by Year
in descending order

76 papers	2,584 citations	218662 26 h-index	197805 49 g-index
82 all docs	82 docs citations	82 times ranked	1259 citing authors

#	Article	IF	Citations
1	On a wave-based reduced order model for transient effects computation including mid frequencies. Computer Methods in Applied Mechanics and Engineering, 2022, 395, 114990.	6.6	1
2	Industrial Digital Twins based on the non-linear LATIN-PGD. Advanced Modeling and Simulation in Engineering Sciences, 2021, 8, .	1.7	1
3	A Semi-incremental Scheme for Cyclic Damage Computations. Lecture Notes in Applied and Computational Mechanics, 2020, , 229-247.	2.2	0
4	A kinetic two-scale damage model for high-cycle fatigue simulation using multi-temporal Latin framework. European Journal of Mechanics, A/Solids, 2019, 77, 103808.	3.7	14
5	Toward Optimality of Proper Generalised Decomposition Bases. Mathematical and Computational Applications, 2019, 24, 30.	1.3	3
6	Data-driven computation for history-dependent materials. Comptes Rendus - Mecanique, 2019, 347, 831-844.	2.1	26
7	A Model Reduction Technique in Space and Time for Fatigue Simulation. Lecture Notes in Applied and Computational Mechanics, 2018, , 183-203.	2.2	5
8	Towards simplified and optimized a posteriori error estimation using PGD reduced models. International Journal for Numerical Methods in Engineering, 2018, 113, 967-998.	2.8	4
9	A LATIN-based model reduction approach for the simulation of cycling damage. Computational Mechanics, 2018, 62, 725-743.	4.0	22
10	A multi-temporal scale model reduction approach for the computation of fatigue damage. Computer Methods in Applied Mechanics and Engineering, 2018, 340, 630-656.	6.6	15
11	A door to model reduction in high-dimensional parameter space. Comptes Rendus - Mecanique, 2018, 346, 524-531.	2.1	7
12	A Virtual Testing Approach for Laminated Composites Based on Micromechanics. , 2017, , 667-698.		2
13	A posteriori error estimation and adaptive strategy for PGD model reduction applied to parametrized linear parabolic problems. Computer Methods in Applied Mechanics and Engineering, 2017, 327, 118-146.	6.6	16
14	Data-driven non-linear elasticity: constitutive manifold construction and problem discretization. Computational Mechanics, 2017, 60, 813-826.	4.0	101
15	Integration of PGD-virtual charts into an engineering design process. Computational Mechanics, 2016, 57, 637-651.	4.0	26
16	On reduced models in nonlinear solid mechanics. European Journal of Mechanics, A/Solids, 2016, 60, 227-237.	3.7	19
17	The Constitutive Relation Error Method: A General Verification Tool. SpringerBriefs in Applied Sciences and Technology, 2016, , 59-94.	0.4	5
18	Extension of the variational theory of complex rays to orthotropic shallow shell structures. Advances in Aircraft and Spacecraft Science, 2016, 3, 317-330.	0.5	0

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19	Proper Generalized Decomposition computational methods on a benchmark problem: introducing a new strategy based on Constitutive Relation Error minimization. Advanced Modeling and Simulation in Engineering Sciences, 2015, 2, .	1.7	17
20	The Variational Theory of Complex Rays applied to the shallow shell theory. Computers and Structures, 2015, 158, 98-107.	4.4	5
21	Variational theory of complex rays applied to shell structures: in-plane inertia, quasi-symmetric ray distribution, and orthotropic materials. Computational Mechanics, 2015, 56, 983-997.	4.0	3
22	On structural computations until fracture based on an anisotropic and unilateral damage theory. International Journal of Damage Mechanics, 2014, 23, 483-506.	4.2	11
23	On Trefftz and weak Trefftz discontinuous Galerkin approaches for medium-frequency acoustics. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 729-743.	6.6	10
24	Goal-oriented updating of mechanical models using the adjoint framework. Computational Mechanics, 2014, 54, 1415-1430.	4.0	13
25	Proper Generalized Decomposition applied to linear acoustic: A new tool for broad band calculation. Journal of Sound and Vibration, 2014, 333, 2422-2431.	3.9	22
26	Identification and validation of an enhanced mesomodel for laminated composites within the WWFE-III. Journal of Composite Materials, 2013, 47, 2675-2693.	2.4	38
27	Robust control of PGD-based numerical simulations. European Journal of Computational Mechanics, 2012, 21, 195-207.	0.6	11
28	Strict upper bounds of the error in calculated outputs of interest for plasticity problems. Computer Methods in Applied Mechanics and Engineering, 2012, 245-246, 194-205.	6.6	13
29	AN ADAPTIVE NUMERICAL STRATEGY FOR THE MEDIUM-FREQUENCY ANALYSIS OF HELMHOLTZ'S PROBLEM. Journal of Computational Acoustics, 2012, 20, 1250001.	1.0	14
30	THE VARIATIONAL THEORY OF COMPLEX RAYS FOR THREE-DIMENSIONAL HELMHOLTZ PROBLEMS. Journal of Computational Acoustics, 2012, 20, 1250021.	1.0	17
31	Goal-Oriented Control of Finite Element Models: Recent Advances and Performances on 3D Industrial Applications. , 2012, , .		1
32	The Fourier version of the Variational Theory of Complex Rays for medium-frequency acoustics. Computer Methods in Applied Mechanics and Engineering, 2012, 225-228, 142-153.	6.6	21
33	Guaranteed error bounds on pointwise quantities of interest for transient viscodynamics problems. Computational Mechanics, 2012, 49, 291-307.	4.0	27
34	An enhanced method with local energy minimization for the robust a posteriori construction of equilibrated stress fields in finite element analyses. Computational Mechanics, 2012, 49, 357-378.	4.0	16
35	A Short Review on Model Order Reduction Based on Proper Generalized Decomposition. Archives of Computational Methods in Engineering, 2011, 18, 395-404.	10.2	460
36	On the verification of model reduction methods based on the proper generalized decomposition. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2032-2047.	6.6	94

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37	A new approach to the subcritical cracking of ceramic fibers. Composites Science and Technology, 2010, 70, 1575-1583.	7.8	16
38	Proper Generalized Decomposition for Multiscale andÂMultiphysics Problems. Archives of Computational Methods in Engineering, 2010, 17, 351-372.	10.2	78
39	A new non-intrusive technique for the construction of admissible stress fields in model verification. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 766-777.	6.6	39
40	Micromodel-based simulations for laminated composites. Composites Science and Technology, 2009, 69, 1364-1371.	7.8	38
41	Strict and practical bounds through a non-intrusive and goal-oriented error estimation method for linear viscoelasticity problems. Finite Elements in Analysis and Design, 2009, 45, 251-262.	3.2	16
42	Model verification in dynamics through strict upper error bounds. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 1775-1784.	6.6	16
43	Validation of Intralaminar Behaviour of the Laminated Composites by Damage Mesomodel. , 2009, , .		1
44	Strict upper error bounds on computed outputs of interest in computational structural mechanics. Computational Mechanics, 2008, 42, 271-286.	4.0	60
45	A non-intrusive method for the calculation of strict and efficient bounds of calculated outputs of interest in linear viscoelasticity problems. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 994-1014.	6.6	40
46	A Pyramidal Damage Modelling for Laminates Composites - Illustrations Using Abaqus -. , 2008, , .		0
47	A non-intrusive approach of goal-oriented error estimation for evolution problems solved by the finite element method. European Journal of Computational Mechanics, 2008, 17, 981-992.	0.6	0
48	THE MULTISCALE VTCR APPROACH APPLIED TO ACOUSTICS PROBLEMS. Journal of Computational Acoustics, 2008, 16, 487-505.	1.0	49
49	On a mixed and multiscale domain decomposition method. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1526-1540.	6.6	35
50	Transient analysis including the low- and the medium-frequency ranges of engineering structures. Computers and Structures, 2007, 85, 1431-1444.	4.4	11
51	Upper error bounds on calculated outputs of interest for linear and nonlinear structural problems. Comptes Rendus - Mecanique, 2006, 334, 399-407.	2.1	24
52	A Computational Damage Micromodel of Laminated Composites. International Journal of Fracture, 2006, 137, 139-150.	2.2	47
53	A new computational method for transient dynamics including the low- and the medium-frequency ranges. International Journal for Numerical Methods in Engineering, 2005, 64, 503-527.	2.8	22
54	A Bridge Between the Micro- and Mesomechanics of Laminates: Fantasy or Reality?. , 2005, , 187-201.		2

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55	Towards a Micromechanics-Based Damage Mesomodel for CFRP Laminates under Thermomechanical Cyclic Loading. Science and Engineering of Composite Materials, 2005, 12, 71-82.	1.4	4
56	On a multiscale computational strategy with time and space homogenization for structural mechanics. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 3061-3087.	6.6	124
57	The variational theory of complex rays: a predictive tool for medium-frequency vibrations. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 3301-3315.	6.6	47
58	On a damage mesomodel for laminates: micromechanics basis and improvement. Mechanics of Materials, 2003, 35, 763-775.	3.2	68
59	A Multi-Time-Scale Strategy for Multiphysics Problems: Application to Poroelasticity. International Journal for Multiscale Computational Engineering, 2003, 1, 387-400.	1.2	19
60	Une stratÃ©gie de calcul multiÃ©chelle avec homogÃ©nÃ©isation en espace et en temps. Comptes Rendus - Mecanique, 2002, 330, 683-689.	2.1	11
61	The Exact Theory of Plate Bending. Journal of Elasticity, 2002, 68, 37-71.	1.9	10
62	Mise en Å"uvre numÃ©rique d'un mÃ©somodÃ¨le d'endommagement des stratifiÃ©s. Revue Europeenne Des Elements, 2001, 10, 473-487.	0.1	2
63	Constitutive relation errors for F.E. analysis considering (viscoâ€) plasticity and damage. International Journal for Numerical Methods in Engineering, 2001, 52, 527-542.	2.8	16
64	A mesomodel for localisation and damage computation in laminates. Computer Methods in Applied Mechanics and Engineering, 2000, 183, 105-122.	6.6	140
65	Duality preserving discretization of the large time increment methods. Computer Methods in Applied Mechanics and Engineering, 2000, 189, 205-232.	6.6	8
66	Constitutive relation error estimators for time-dependent non-linear FE analysis. Computer Methods in Applied Mechanics and Engineering, 2000, 188, 775-788.	6.6	11
67	La ThÃ©orie Variationnelle des Rayons Complexes pour le calcul des vibrations moyennes frÃ©quences. Revue Europeenne Des Elements, 2000, 9, 67-88.	0.1	3
68	Application of a posteriori error estimation for structural model updating. Inverse Problems, 1999, 15, 49-58.	2.0	74
69	Adaptive control for finite element analysis in plasticity. Computers and Structures, 1999, 73, 45-60.	4.4	15
70	Une nouvelle stratÃ©gie de calcul micro/macro en mÃ©canique des structures. Comptes Rendus De L'Academie De Sciences - Serie IIb: Mecanique, Physique, Chimie, Astronomie, 1999, 327, 1237-1244.	0.1	5
71	Constitutive relation error estimators for (visco)plastic finite element analysis with softening. Computer Methods in Applied Mechanics and Engineering, 1999, 176, 247-264.	6.6	39
72	Nonlinear Computational Structural Mechanics. Mechanical Engineering Series, 1999, , .	0.2	195

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73	A new a posteriori error estimation for nonlinear time-dependent finite element analysis. Computer Methods in Applied Mechanics and Engineering, 1998, 157, 45-68.	6.6	44
74	New concepts for linear beam theory with arbitrary geometry and loading. European Journal of Mechanics, A/Solids, 1998, 17, 377-402.	3.7	87
75	A Posteriori Constitutive Relation Error Estimators for Nonlinear Finite Element Analysis and Adaptive Control. Studies in Applied Mechanics, 1998, , 231-256.	0.4	10
76	A damage prediction method for composite structures. International Journal for Numerical Methods in Engineering, 1989, 27, 271-283.	2.8	64