

Pierre Ladevze

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77
papers

2,164
citations

23
h-index

45
g-index

82
ext. papers

2,360
ext. citations

3.8
avg, IF

5.27
L-index

#	Paper	IF	Citations
77	A Short Review on Model Order Reduction Based on Proper Generalized Decomposition. <i>Archives of Computational Methods in Engineering</i> , 2011 , 18, 395-404	7.8	354
76	Nonlinear Computational Structural Mechanics. <i>Mechanical Engineering Series</i> , 1999 ,	0.3	170
75	A mesomodel for localisation and damage computation in laminates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 183, 105-122	5.7	127
74	On a multiscale computational strategy with time and space homogenization for structural mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003 , 192, 3061-3087	5.7	114
73	On the verification of model reduction methods based on the proper generalized decomposition. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 2032-2047	5.7	82
72	New concepts for linear beam theory with arbitrary geometry and loading. <i>European Journal of Mechanics, A/Solids</i> , 1998 , 17, 377-402	3.7	80
71	Data-driven non-linear elasticity: constitutive manifold construction and problem discretization. <i>Computational Mechanics</i> , 2017 , 60, 813-826	4	67
70	Proper Generalized Decomposition for Multiscale and Multiphysics Problems. <i>Archives of Computational Methods in Engineering</i> , 2010 , 17, 351-372	7.8	66
69	Application of a posteriori error estimation for structural model updating. <i>Inverse Problems</i> , 1999 , 15, 49-58	2.3	64
68	On a damage mesomodel for laminates: micromechanics basis and improvement. <i>Mechanics of Materials</i> , 2003 , 35, 763-775	3.3	59
67	A damage prediction method for composite structures. <i>International Journal for Numerical Methods in Engineering</i> , 1989 , 27, 271-283	2.4	52
66	Strict upper error bounds on computed outputs of interest in computational structural mechanics. <i>Computational Mechanics</i> , 2008 , 42, 271-286	4	50
65	THE MULTISCALE VTCR APPROACH APPLIED TO ACOUSTICS PROBLEMS. <i>Journal of Computational Acoustics</i> , 2008 , 16, 487-505		47
64	A Computational Damage Micromodel of Laminated Composites. <i>International Journal of Fracture</i> , 2006 , 137, 139-150	2.3	43
63	The variational theory of complex rays: a predictive tool for medium-frequency vibrations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003 , 192, 3301-3315	5.7	42
62	A new a posteriori error estimation for nonlinear time-dependent finite element analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1998 , 157, 45-68	5.7	38
61	A new non-intrusive technique for the construction of admissible stress fields in model verification. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010 , 199, 766-777	5.7	37

60	Identification and validation of an enhanced mesomodel for laminated composites within the WWFE-III. <i>Journal of Composite Materials</i> , 2013 , 47, 2675-2693	2.7	36
59	Micromodel-based simulations for laminated composites. <i>Composites Science and Technology</i> , 2009 , 69, 1364-1371	8.6	36
58	Constitutive relation error estimators for (visco)plastic finite element analysis with softening. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1999 , 176, 247-264	5.7	35
57	A non-intrusive method for the calculation of strict and efficient bounds of calculated outputs of interest in linear viscoelasticity problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 994-1014	5.7	32
56	On a mixed and multiscale domain decomposition method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 196, 1526-1540	5.7	30
55	Pont entre les « micro » et « mēso » mēcaniques des composites stratifiē. <i>Comptes Rendus - Mecanique</i> , 2003 , 331, 537-544	2.1	24
54	Guaranteed error bounds on pointwise quantities of interest for transient viscodynamics problems. <i>Computational Mechanics</i> , 2012 , 49, 291-307	4	23
53	A new computational method for transient dynamics including the low- and the medium-frequency ranges. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 64, 503-527	2.4	21
52	The Fourier version of the Variational Theory of Complex Rays for medium-frequency acoustics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012 , 225-228, 142-153	5.7	20
51	Upper error bounds on calculated outputs of interest for linear and nonlinear structural problems. <i>Comptes Rendus - Mecanique</i> , 2006 , 334, 399-407	2.1	20
50	Integration of PGD-virtual charts into an engineering design process. <i>Computational Mechanics</i> , 2016 , 57, 637-651	4	19
49	On reduced models in nonlinear solid mechanics. <i>European Journal of Mechanics, A/Solids</i> , 2016 , 60, 227-337	3.7	17
48	Proper Generalized Decomposition applied to linear acoustic: A new tool for broad band calculation. <i>Journal of Sound and Vibration</i> , 2014 , 333, 2422-2431	3.9	16
47	Strict and practical bounds through a non-intrusive and goal-oriented error estimation method for linear viscoelasticity problems. <i>Finite Elements in Analysis and Design</i> , 2009 , 45, 251-262	2.2	16
46	Model verification in dynamics through strict upper error bounds. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009 , 198, 1775-1784	5.7	16
45	A Multi-Time-Scale Strategy for Multiphysics Problems: Application to Poroelasticity. <i>International Journal for Multiscale Computational Engineering</i> , 2003 , 1, 387-400	2.4	16
44	An enhanced method with local energy minimization for the robust a posteriori construction of equilibrated stress fields in finite element analyses. <i>Computational Mechanics</i> , 2012 , 49, 357-378	4	15
43	A new approach to the subcritical cracking of ceramic fibers. <i>Composites Science and Technology</i> , 2010 , 70, 1575-1583	8.6	15

42	Adaptive control for finite element analysis in plasticity. <i>Computers and Structures</i> , 1999 , 73, 45-60	4.5	15
41	A LATIN-based model reduction approach for the simulation of cycling damage. <i>Computational Mechanics</i> , 2018 , 62, 725-743	4	15
40	AN ADAPTIVE NUMERICAL STRATEGY FOR THE MEDIUM-FREQUENCY ANALYSIS OF HELMHOLTZ'S PROBLEM. <i>Journal of Computational Acoustics</i> , 2012 , 20, 1250001		14
39	Constitutive relation errors for F.E. analysis considering (visco-) plasticity and damage. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 52, 527-542	2.4	14
38	A multi-temporal scale model reduction approach for the computation of fatigue damage. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 340, 630-656	5.7	13
37	THE VARIATIONAL THEORY OF COMPLEX RAYS FOR THREE-DIMENSIONAL HELMHOLTZ PROBLEMS. <i>Journal of Computational Acoustics</i> , 2012 , 20, 1250021		13
36	On structural computations until fracture based on an anisotropic and unilateral damage theory. <i>International Journal of Damage Mechanics</i> , 2014 , 23, 483-506	3	11
35	Data-driven computation for history-dependent materials. <i>Comptes Rendus - Mecanique</i> , 2019 , 347, 831-844		11
34	A kinetic two-scale damage model for high-cycle fatigue simulation using multi-temporal Latin framework. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 77, 103808	3.7	10
33	A posteriori error estimation and adaptive strategy for PGD model reduction applied to parametrized linear parabolic problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 327, 118-146	5.7	10
32	Proper Generalized Decomposition computational methods on a benchmark problem: introducing a new strategy based on Constitutive Relation Error minimization. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2015 , 2,	2.7	10
31	On Trefftz and weak Trefftz discontinuous Galerkin approaches for medium-frequency acoustics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014 , 278, 729-743	5.7	10
30	Strict upper bounds of the error in calculated outputs of interest for plasticity problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012 , 245-246, 194-205	5.7	10
29	Robust control of PGD-based numerical simulations. <i>European Journal of Computational Mechanics</i> , 2012 , 21, 195-207	0.5	10
28	Transient analysis including the low- and the medium-frequency ranges of engineering structures. <i>Computers and Structures</i> , 2007 , 85, 1431-1444	4.5	10
27	Goal-oriented updating of mechanical models using the adjoint framework. <i>Computational Mechanics</i> , 2014 , 54, 1415-1430	4	9
26	Une stratégie de calcul multi-échelle avec homogénéisation en espace et en temps. <i>Comptes Rendus - Mecanique</i> , 2002 , 330, 683-689	2.1	9
25	The Exact Theory of Plate Bending. <i>Journal of Elasticity</i> , 2002 , 68, 37-71	1.5	9

24	A Posteriori Constitutive Relation Error Estimators for Nonlinear Finite Element Analysis and Adaptive Control. <i>Studies in Applied Mechanics</i> , 1998 , 231-256		9
23	Duality preserving discretization of the large time increment methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 189, 205-232	5-7	7
22	Constitutive relation error estimators for time-dependent non-linear FE analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 188, 775-788	5-7	6
21	A door to model reduction in high-dimensional parameter space. <i>Comptes Rendus - Mecanique</i> , 2018 , 346, 524-531	2.1	5
20	The Variational Theory of Complex Rays applied to the shallow shell theory. <i>Computers and Structures</i> , 2015 , 158, 98-107	4-5	4
19	Damage and Lifetime Modeling for Structure Computations 2014 , 465-519		4
18	Une nouvelle stratégie de calcul micro/macro en mécanique des structures. <i>Comptes Rendus De L'Académie De Sciences - Serie IIb: Mecanique, Physique, Chimie, Astronomie</i> , 1999 , 327, 1237-1244		4
17	The Constitutive Relation Error Method: A General Verification Tool. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016 , 59-94	0.4	3
16	Towards a Micromechanics-Based Damage Mesomodel for CFRP Laminates under Thermomechanical Cyclic Loading. <i>Science and Engineering of Composite Materials</i> , 2005 , 12, 71-82	1.5	3
15	La Théorie Variationnelle des Rayons Complexes pour le calcul des vibrations moyennes fréquentes. <i>Revue Européenne Des Elements</i> , 2000 , 9, 67-88		3
14	A Virtual Testing Approach for Laminated Composites Based on Micromechanics 2017 , 667-698		2
13	Toward Optimality of Proper Generalised Decomposition Bases. <i>Mathematical and Computational Applications</i> , 2019 , 24, 30	1	2
12	Variational theory of complex rays applied to shell structures: in-plane inertia, quasi-symmetric ray distribution, and orthotropic materials. <i>Computational Mechanics</i> , 2015 , 56, 983-997	4	2
11	A Model Reduction Technique in Space and Time for Fatigue Simulation. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2018 , 183-203	0.3	2
10	Mise en œuvre numérique d'un mésomodèle de dommage des stratifiés. <i>Revue Européenne Des Elements</i> , 2001 , 10, 473-487		2
9	Towards simplified and optimized a posteriori error estimation using PGD reduced models. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 113, 967-998	2.4	1
8	Validation of Intralaminar Behaviour of the Laminated Composites by Damage Mesomodel 2009 ,		1
7	A Bridge Between the Micro- and Mesomechanics of Laminates: Fantasy or Reality? 2005 , 187-201		1

6	Industrial Digital Twins based on the non-linear LATIN-PGD. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2021 , 8,	2.7	1
5	On a wave-based reduced order model for transient effects computation including mid frequencies. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 395, 114990	5.7	0
4	A non-intrusive approach of goal-oriented error estimation for evolution problems solved by the finite element method. <i>European Journal of Computational Mechanics</i> , 2008 , 17, 981-992	0.5	
3	A Semi-incremental Scheme for Cyclic Damage Computations. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2020 , 229-247	0.3	
2	Extension of the variational theory of complex rays to orthotropic shallow shell structures. <i>Advances in Aircraft and Spacecraft Science</i> , 2016 , 3, 317-330		
1	On a Physics-Compatible Approach for Data-Driven Computational Mechanics 2022 , 287-294		