

Pierre Ladev ze

List of Publications by Year in descending order

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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	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
2	Nonlinear Computational Structural Mechanics. Mechanical Engineering Series, 1999, , .	0.2	195
3	A mesomodel for localisation and damage computation in laminates. Computer Methods in Applied Mechanics and Engineering, 2000, 183, 105-122.	6.6	140
4	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
5	Data-driven non-linear elasticity: constitutive manifold construction and problem discretization. Computational Mechanics, 2017, 60, 813-826.	4.0	101
6	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
7	New concepts for linear beam theory with arbitrary geometry and loading. European Journal of Mechanics, A/Solids, 1998, 17, 377-402.	3.7	87
8	Proper Generalized Decomposition for Multiscale and Multiphysics Problems. Archives of Computational Methods in Engineering, 2010, 17, 351-372.	10.2	78
9	Application of a posteriori error estimation for structural model updating. Inverse Problems, 1999, 15, 49-58.	2.0	74
10	On a damage mesomodel for laminates: micromechanics basis and improvement. Mechanics of Materials, 2003, 35, 763-775.	3.2	68
11	A damage prediction method for composite structures. International Journal for Numerical Methods in Engineering, 1989, 27, 271-283.	2.8	64
12	Strict upper error bounds on computed outputs of interest in computational structural mechanics. Computational Mechanics, 2008, 42, 271-286.	4.0	60
13	THE MULTISCALE VTCR APPROACH APPLIED TO ACOUSTICS PROBLEMS. Journal of Computational Acoustics, 2008, 16, 487-505.	1.0	49
14	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
15	A Computational Damage Micromodel of Laminated Composites. International Journal of Fracture, 2006, 137, 139-150.	2.2	47
16	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
17	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
18	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

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19	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.	6.6	39
20	Micromodel-based simulations for laminated composites. <i>Composites Science and Technology</i> , 2009, 69, 1364-1371.	7.8	38
21	Identification and validation of an enhanced mesomodel for laminated composites within the WWFE-III. <i>Journal of Composite Materials</i> , 2013, 47, 2675-2693.	2.4	38
22	On a mixed and multiscale domain decomposition method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 1526-1540.	6.6	35
23	Guaranteed error bounds on pointwise quantities of interest for transient viscodynamics problems. <i>Computational Mechanics</i> , 2012, 49, 291-307.	4.0	27
24	Integration of PGD-virtual charts into an engineering design process. <i>Computational Mechanics</i> , 2016, 57, 637-651.	4.0	26
25	Data-driven computation for history-dependent materials. <i>Comptes Rendus - Mecanique</i> , 2019, 347, 831-844.	2.1	26
26	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	24
27	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.	2.8	22
28	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	22
29	A LATIN-based model reduction approach for the simulation of cycling damage. <i>Computational Mechanics</i> , 2018, 62, 725-743.	4.0	22
30	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.	6.6	21
31	On reduced models in nonlinear solid mechanics. <i>European Journal of Mechanics, A/Solids</i> , 2016, 60, 227-237.	3.7	19
32	A Multi-Time-Scale Strategy for Multiphysics Problems: Application to Poroelasticity. <i>International Journal for Multiscale Computational Engineering</i> , 2003, 1, 387-400.	1.2	19
33	THE VARIATIONAL THEORY OF COMPLEX RAYS FOR THREE-DIMENSIONAL HELMHOLTZ PROBLEMS. <i>Journal of Computational Acoustics</i> , 2012, 20, 1250021.	1.0	17
34	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, .	1.7	17
35	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.	2.8	16
36	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.	3.2	16

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37	Model verification in dynamics through strict upper error bounds. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 1775-1784.	6.6	16
38	A new approach to the subcritical cracking of ceramic fibers. <i>Composites Science and Technology</i> , 2010, 70, 1575-1583.	7.8	16
39	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.	4.0	16
40	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.	6.6	16
41	Adaptive control for finite element analysis in plasticity. <i>Computers and Structures</i> , 1999, 73, 45-60.	4.4	15
42	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.	6.6	15
43	AN ADAPTIVE NUMERICAL STRATEGY FOR THE MEDIUM-FREQUENCY ANALYSIS OF HELMHOLTZ'S PROBLEM. <i>Journal of Computational Acoustics</i> , 2012, 20, 1250001.	1.0	14
44	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	14
45	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.	6.6	13
46	Goal-oriented updating of mechanical models using the adjoint framework. <i>Computational Mechanics</i> , 2014, 54, 1415-1430.	4.0	13
47	Constitutive relation error estimators for time-dependent non-linear FE analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000, 188, 775-788.	6.6	11
48	Une stratégie de calcul multi-échelle avec homogénéisation en espace et en temps. <i>Comptes Rendus - Mécanique</i> , 2002, 330, 683-689.	2.1	11
49	Transient analysis including the low- and the medium-frequency ranges of engineering structures. <i>Computers and Structures</i> , 2007, 85, 1431-1444.	4.4	11
50	Robust control of PGD-based numerical simulations. <i>European Journal of Computational Mechanics</i> , 2012, 21, 195-207.	0.6	11
51	On structural computations until fracture based on an anisotropic and unilateral damage theory. <i>International Journal of Damage Mechanics</i> , 2014, 23, 483-506.	4.2	11
52	A Posteriori Constitutive Relation Error Estimators for Nonlinear Finite Element Analysis and Adaptive Control. <i>Studies in Applied Mechanics</i> , 1998, , 231-256.	0.4	10
53	The Exact Theory of Plate Bending. <i>Journal of Elasticity</i> , 2002, 68, 37-71.	1.9	10
54	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.	6.6	10

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55	Duality preserving discretization of the large time increment methods. Computer Methods in Applied Mechanics and Engineering, 2000, 189, 205-232.	6.6	8
56	A door to model reduction in high-dimensional parameter space. Comptes Rendus - Mecanique, 2018, 346, 524-531.	2.1	7
57	Une nouvelle strat�gie de calcul micro/macro en m�canique des structures. Comptes Rendus De L'Academie De Sciences - Serie Iib: Mecanique, Physique, Chimie, Astronomie, 1999, 327, 1237-1244.	0.1	5
58	The Variational Theory of Complex Rays applied to the shallow shell theory. Computers and Structures, 2015, 158, 98-107.	4.4	5
59	The Constitutive Relation Error Method: A General Verification Tool. SpringerBriefs in Applied Sciences and Technology, 2016, , 59-94.	0.4	5
60	A Model Reduction Technique in Space and Time for Fatigue Simulation. Lecture Notes in Applied and Computational Mechanics, 2018, , 183-203.	2.2	5
61	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
62	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
63	La Th�orie Variationnelle des Rayons Complexes pour le calcul des vibrations moyennes fr�quences. Revue Europeenne Des Elements, 2000, 9, 67-88.	0.1	3
64	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
65	Toward Optimality of Proper Generalised Decomposition Bases. Mathematical and Computational Applications, 2019, 24, 30.	1.3	3
66	Mise en Őuvre num�rique d'un m�somod�le d'endommagement des stratifi�s. Revue Europeenne Des Elements, 2001, 10, 473-487.	0.1	2
67	A Bridge Between the Micro- and Mesomechanics of Laminates: Fantasy or Reality?. , 2005, , 187-201.		2
68	A Virtual Testing Approach for Laminated Composites Based on Micromechanics. , 2017, , 667-698.		2
69	Validation of Intralaminar Behaviour of the Laminated Composites by Damage Mesomodel. , 2009, , .		1
70	Goal-Oriented Control of Finite Element Models: Recent Advances and Performances on 3D Industrial Applications. , 2012, , .		1
71	Industrial Digital Twins based on the non-linear LATIN-PGD. Advanced Modeling and Simulation in Engineering Sciences, 2021, 8, .	1.7	1
72	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

#	ARTICLE	IF	CITATIONS
73	A Pyramidal Damage Modelling for Laminates Composites - Illustrations Using Abaqus -, 2008, , .		0
74	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
75	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
76	A Semi-incremental Scheme for Cyclic Damage Computations. Lecture Notes in Applied and Computational Mechanics, 2020, , 229-247.	2.2	0