

# Pierre-Alain Guidault

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

501  
citations

759233

12  
h-index

888059

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

465  
citing authors

#	ARTICLE	IF	CITATIONS
1	A multiscale extended finite element method for crack propagation. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 381-399.	6.6	91
2	On the $L_2$ and the $H^1$ couplings for an overlapping domain decomposition method using Lagrange multipliers. International Journal for Numerical Methods in Engineering, 2007, 70, 322-350.	2.8	82
3	A two-scale approach with homogenization for the computation of cracked structures. Computers and Structures, 2007, 85, 1360-1371.	4.4	63
4	A computational framework for brittle crack-propagation based on efficient virtual element method. Finite Elements in Analysis and Design, 2019, 159, 15-32.	3.2	48
5	Bridging domain methods for coupled atomistic-continuum models with $L^2$ or $H^1$ couplings. International Journal for Numerical Methods in Engineering, 2009, 77, 1566-1592.	2.8	38
6	A PGD-based homogenization technique for the resolution of nonlinear multiscale problems. Computer Methods in Applied Mechanics and Engineering, 2013, 267, 275-292.	6.6	38
7	Numerical modeling of the geometrical defects of an origami-like sandwich core. Composite Structures, 2011, 93, 2504-2510.	5.8	33
8	Homogenized Elastic Properties of Graphene for Small Deformations. Materials, 2013, 6, 3764-3782.	2.9	19
9	Modelling of the Behaviour of Aramid Folded Cores Up to Global Crushing. Strain, 2011, 47, 170-178.	2.4	16
10	The Reference Point Method, a "hyperreduction" technique: Application to PGD-based nonlinear model reduction. Computer Methods in Applied Mechanics and Engineering, 2017, 322, 483-514.	6.6	16
11	A non-linear finite element connector model with friction and plasticity for the simulation of bolted assemblies. Finite Elements in Analysis and Design, 2021, 195, 103586.	3.2	14
12	A multiscale strategy for structural optimization. International Journal for Numerical Methods in Engineering, 2009, 78, 101-126.	2.8	12
13	A Virtual Element Method for Crack Propagation. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800104.	0.2	9
14	A nonlinear finite element connector for the simulation of bolted assemblies. Computational Mechanics, 2020, 65, 1531-1548.	4.0	9
15	Interface coupling method for the global-local analysis of heterogeneous models: A second-order homogenization-based strategy. Computer Methods in Applied Mechanics and Engineering, 2020, 365, 113032.	6.6	6
16	Une approche micro-macro pour le suivi de fissure avec enrichissement local. European Journal of Computational Mechanics, 2006, 15, 187-198.	0.6	5
17	A New Fully-Detailed Finite Element Model of Spiral Strand Wire Ropes for Fatigue Life Estimate of a Mooring Line. , 2019, , .		1
18	Non-intrusive global-local analysis of heterogeneous structures based on a second-order interface coupling. Computational Mechanics, 2022, 69, 1241-1257.	4.0	1

#	ARTICLE	IF	CITATIONS
19	Measuring a Geometry by Photogrammetry: Evaluation of the Approach in View of Experimental Modal Analysis on Automotive Structures. , 0, , .		0
20	A numerical analysis to investigate the spot weld local influence. MATEC Web of Conferences, 2018, 165, 21006.	0.2	0