

# Julien Diaz

## List of Publications by Year in descending order

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31  
papers

405  
citations

933447

10  
h-index

752698

20  
g-index

32  
all docs

32  
docs citations

32  
times ranked

279  
citing authors

#	ARTICLE	IF	CITATIONS
1	Implementation of hybridizable discontinuous Galerkin method for time-harmonic anisotropic poroelasticity in two dimensions. International Journal for Numerical Methods in Engineering, 2021, 122, 3015-3043.	2.8	2
2	Local strategies for improving the conditioning of the plane-wave Ultra-Weak Variational Formulation. Journal of Computational Physics, 2021, 441, 110449.	3.8	2
3	Time domain analysis and localization of a non-local PML for dispersive wave equations. Journal of Computational Physics, 2021, 445, 110638.	3.8	3
4	Asymptotic behavior of acoustic waves scattered by very small obstacles. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, S705-S731.	1.9	3
5	Space-time Trefftz-DG approximation for elasto-acoustics. Applicable Analysis, 2020, 99, 747-760.	1.3	8
6	An effective numerical strategy for retrieving all characteristic parameters of an elastic scatterer from its FFP measurements. Journal of Computational Physics, 2020, 419, 109683.	3.8	2
7	Construction and analysis of fourth order, energy consistent, family of explicit time discretizations for dissipative linear wave equations. ESAIM: Mathematical Modelling and Numerical Analysis, 2020, 54, 845-878.	1.9	6
8	Hybridizable discontinuous Galerkin method for the 2-D frequency-domain elastic wave equations. Geophysical Journal International, 2018, 213, 637-659.	2.4	19
9	Equivalent Robin boundary conditions for acoustic and elastic media. Mathematical Models and Methods in Applied Sciences, 2016, 26, 1531-1566.	3.3	6
10	Non-conforming curved finite element schemes for time-dependent elastic-acoustic coupled problems. Journal of Computational Physics, 2016, 305, 44-62.	3.8	7
11	Absorbing Boundary Conditions for 3D elastic TTI modeling. , 2015, , .		0
12	Multi-level explicit local time-stepping methods for second-order wave equations. Computer Methods in Applied Mechanics and Engineering, 2015, 291, 240-265.	6.6	27
13	Non-conforming Galerkin finite element methods for local absorbing boundary conditions of higher order. Computers and Mathematics With Applications, 2015, 70, 2252-2269.	2.7	4
14	High-Order Time Discretization of The Wave Equation by Nabla-P Scheme.. ESAIM Proceedings and Surveys, 2014, 45, 67-74.	0.4	1
15	Absorbing Boundary Conditions for 2D Tilted Transverse Isotropic elastic media. ESAIM Proceedings and Surveys, 2014, 45, 400-409.	0.4	5
16	A local wave tracking strategy for efficiently solving mid- and high-frequency Helmholtz problems. Computer Methods in Applied Mechanics and Engineering, 2014, 276, 473-508.	6.6	8
17	Equivalent Boundary Conditions for Heterogeneous Acoustic Media. TeMa, 2014, 15, 301.	0.1	0
18	LONG-TERM STABILITY ANALYSIS OF ACOUSTIC ABSORBING BOUNDARY CONDITIONS. Mathematical Models and Methods in Applied Sciences, 2013, 23, 2129-2154.	3.3	2

#	ARTICLE	IF	CITATIONS
19	Upscaling for the Laplace problem using a discontinuous Galerkin method. Journal of Computational and Applied Mathematics, 2013, 240, 192-203.	2.0	1
20	Stability analysis of the Interior Penalty Discontinuous Galerkin method for the wave equation. ESAIM: Mathematical Modelling and Numerical Analysis, 2013, 47, 903-932.	1.9	18
21	Performance Analysis of a High-Order Discontinuous Galerkin Method Application to the Reverse Time Migration. Communications in Computational Physics, 2012, 11, 660-673.	1.7	7
22	High-Order Schemes Combining the Modified Equation Approach and Discontinuous Galerkin Approximations for the Wave Equation. Communications in Computational Physics, 2012, 11, 691-708.	1.7	4
23	Micro-Differential Boundary Conditions Modelling the Absorption of Acoustic Waves by 2D Arbitrarily-Shaped Convex Surfaces. Communications in Computational Physics, 2012, 11, 674-690.	1.7	9
24	Numerical performances of a hybrid local time stepping strategy applied to the reverse time migration. Geophysical Prospecting, 2011, 59, 907-919.	1.9	10
25	New absorbing layers conditions for short water waves. Journal of Computational Physics, 2010, 229, 58-72.	3.8	12
26	Analytical Solution for Waves Propagation in Heterogeneous Acoustic/porous Media Part I: the 2D Case. Communications in Computational Physics, 2010, 7, 171-194.	1.7	22
27	Analytical Solution for Waves Propagation in Heterogeneous Acoustic/porous Media Part II: the 3D Case. Communications in Computational Physics, 2010, 7, 445-472.	1.7	3
28	Energy Conserving Explicit Local Time Stepping for Second-Order Wave Equations. SIAM Journal of Scientific Computing, 2009, 31, 1985-2014.	2.8	91
29	A time domain analysis of PML models in acoustics. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 3820-3853.	6.6	80
30	An Analysis of Higher Order Boundary Conditions for the Wave Equation. SIAM Journal on Applied Mathematics, 2005, 65, 1547-1575.	1.8	26
31	ROBUST HIGH ORDER NON-CONFORMING FINITE ELEMENT FORMULATION FOR TIME DOMAIN FLUID-STRUCTURE INTERACTION. Journal of Computational Acoustics, 2005, 13, 403-431.	1.0	13