

StÃ©phanie Chaillat

List of Publications by Year in descending order

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26
papers

463
citations

840776

11
h-index

713466

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26
all docs

26
docs citations

26
times ranked

265
citing authors

#	ARTICLE	IF	CITATIONS
1	A multi-level fast multipole BEM for 3-D elastodynamics in the frequency domain. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 4233-4249.	6.6	97
2	A new fast multi-domain BEM to model seismic wave propagation and amplification in 3-D geological structures. <i>Geophysical Journal International</i> , 2009, 177, 509-531.	2.4	81
3	Seismic Wave Amplification in 3D Alluvial Basins: 3D/1D Amplification Ratios from Fast Multipole BEM Simulations. <i>Bulletin of the Seismological Society of America</i> , 2016, 106, 1267-1281.	2.3	31
4	Recent advances on the fast multipole accelerated boundary element method for 3D time-harmonic elastodynamics. <i>Wave Motion</i> , 2013, 50, 1090-1104.	2.0	30
5	Theory and implementation of H -matrix based iterative and direct solvers for Helmholtz and elastodynamic oscillatory kernels. <i>Journal of Computational Physics</i> , 2017, 351, 165-186.	3.8	27
6	Fast iterative boundary element methods for high-frequency scattering problems in 3D elastodynamics. <i>Journal of Computational Physics</i> , 2017, 341, 429-446.	3.8	26
7	A Preconditioned 3-D Multi-Region Fast Multipole Solver for Seismic Wave Propagation in Complex Geometries. <i>Communications in Computational Physics</i> , 2012, 11, 594-609.	1.7	25
8	Application of the multi-level time-harmonic fast multipole BEM to 3-D visco-elastodynamics. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 744-758.	3.7	24
9	Approximate local Dirichlet-to-Neumann map for three-dimensional time-harmonic elastic waves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 297, 62-83.	6.6	23
10	A new Fast Multipole formulation for the elastodynamic half-space Green's tensor. <i>Journal of Computational Physics</i> , 2014, 258, 787-808.	3.8	22
11	FaIMS: A fast algorithm for the inverse medium problem with multiple frequencies and multiple sources for the scalar Helmholtz equation. <i>Journal of Computational Physics</i> , 2012, 231, 4403-4421.	3.8	18
12	Metric-based anisotropic mesh adaptation for 3D acoustic boundary element methods. <i>Journal of Computational Physics</i> , 2018, 372, 473-499.	3.8	9
13	A Fast Multipole Method formulation for 3D elastodynamics in the frequency domain. <i>Comptes Rendus - Mecanique</i> , 2007, 335, 714-719.	2.1	8
14	A fast boundary element method using the Z-transform and high-frequency approximations for large-scale three-dimensional transient wave problems. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 4734-4767.	2.8	7
15	On the efficiency of nested GMRES preconditioners for 3D acoustic and elastodynamic H-matrix accelerated Boundary Element Methods. <i>Computers and Mathematics With Applications</i> , 2020, 80, 471-489.	2.7	6
16	Resolution of linear viscoelastic equations in the frequency domain using real Helmholtz boundary integral equations. <i>Comptes Rendus - Mecanique</i> , 2007, 335, 746-750.	2.1	5
17	An efficient preconditioner for adaptive Fast Multipole accelerated Boundary Element Methods to model time-harmonic 3D wave propagation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 352, 189-210.	6.6	5
18	A fast boundary element based solver for localized inelastic deformations. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 5696-5718.	2.8	5

#	ARTICLE	IF	CITATIONS
19	A wideband Fast Multipole Method for the Helmholtz kernel: Theoretical developments. Computers and Mathematics With Applications, 2015, 70, 660-678.	2.7	4
20	Efficient evaluation of three-dimensional Helmholtz Green's functions tailored to arbitrary rigid geometries for flow noise simulations. Journal of Computational Physics, 2022, 452, 110915.	3.8	3
21	Identification of a planar crack in Zener type viscoelasticity. Annals of Solid and Structural Mechanics, 2010, 1, 3-8.	0.5	2
22	Seismic response of three-dimensional rockfill dams using the Indirect Boundary Element Method. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012167.	0.6	2
23	Analytical preconditioners for Neumann elastodynamic boundary element methods. SN Partial Differential Equations and Applications, 2021, 2, 1.	0.6	2
24	A fast multipole accelerated BEM for 3-D elastic wave computation. European Journal of Computational Mechanics, 2008, 17, 701-712.	0.6	1
25	Multi-Level Fast Multipole BEM for 3-D Elastodynamics. , 2009, , 15-27.		0
26	Improvement of hierarchical matrices for 3D elastodynamic problems with a complex wavenumber. Advances in Computational Mathematics, 2022, 48, 1.	1.6	0