# StÃ©phanie Chaillat

List of Publications by Year
in descending order

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| 26 | 463 | 840776 11 | 713466 21 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 26 | 26 | 26 | 265 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | Improvement of hierarchical matrices for 3D elastodynamic problems with a complex wavenumber. Advances in Computational Mathematics, 2022, 48, 1. | 1.6 | 0 |
| 3 | Analytical preconditioners for Neumann elastodynamic boundary element methods. SN Partial Differential Equations and Applications, 2021, 2, 1. | 0.6 | 2 |
| 4 | On the efficiency of nested GMRES preconditioners for 3D acoustic and elastodynamic H-matrix accelerated Boundary Element Methods. Computers and Mathematics With Applications, 2020, 80, 471-489. | 2.7 | 6 |
| 5 | A fast boundary element based solver for localized inelastic deformations. International Journal for Numerical Methods in Engineering, 2020, 121, 5696-5718. | 2.8 | 5 |
| 6 | A fast boundary element method using the Zâ€transform and highâ€frequency approximations for largeâ€scale threeâ€dimensional transient wave problems. International Journal for Numerical Methods in Engineering, 2020, 121, 4734-4767. | 2.8 | 7 |
| 7 | An efficient preconditioner for adaptive Fast Multipole accelerated Boundary Element Methods to model time-harmonic 3D wave propagation. Computer Methods in Applied Mechanics and Engineering, 2019, 352, 189-210. | 6.6 | 5 |
| 8 | Metric-based anisotropic mesh adaptation for 3D acoustic boundary element methods. Journal of Computational Physics, 2018, 372, 473-499. | 3.8 | 9 |
| 9 | Fast iterative boundary element methods for high-frequency scattering problems in 3D elastodynamics. Journal of Computational Physics, 2017, 341, 429-446. | 3.8 | 26 |
| 10 | Theory and implementation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi mathvariant="script">H</mml:mi></mml:math>-matrix based iterative and direct solvers for Helmholtz and elastodynamic oscillatory kernels. Journal of Computational Physics, 2017, 351, 165-186. | 3.8 | 27 |
| 11 | Seismicâ€Wave Amplification in 3D Alluvial Basins: 3D/1D Amplification Ratios from Fast Multipole BEM Simulations. Bulletin of the Seismological Society of America, 2016, 106, 1267-1281. | 2.3 | 31 |
| 12 | A wideband Fast Multipole Method for the Helmholtz kernel: Theoretical developments. Computers and Mathematics With Applications, 2015, 70, 660-678. | 2.7 | 4 |
| 13 | Approximate local Dirichlet-to-Neumann map for three-dimensional time-harmonic elastic waves. Computer Methods in Applied Mechanics and Engineering, 2015, 297, 62-83. | 6.6 | 23 |
| 14 | A new Fast Multipole formulation for the elastodynamic half-space GreenÊ¼s tensor. Journal of Computational Physics, 2014, 258, 787-808. | 3.8 | 22 |
| 15 | Recent advances on the fast multipole accelerated boundary element method for 3D time-harmonic elastodynamics. Wave Motion, 2013, 50, 1090-1104. | 2.0 | 30 |
| 16 | A Preconditioned 3-D Multi-Region Fast Multipole Solver for Seismic Wave Propagation in Complex Geometries. Communications in Computational Physics, 2012, 11, 594-609. | 1.7 | 25 |
| 17 | Application of the multi-level time-harmonic fast multipole BEM to 3-D visco-elastodynamics. Engineering Analysis With Boundary Elements, 2012, 36, 744-758. | 3.7 | 24 |
| 18 | FaIMS: A fast algorithm for the inverse medium problem with multiple frequencies and multiple sources for the scalar Helmholtz equation. Journal of Computational Physics, 2012, 231, 4403-4421. | 3.8 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Identification of a planar crack in Zener type viscoelasticity. Annals of Solid and Structural Mechanics, 2010, 1, 3-8. | 0.5 | 2 |
| 20 | 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 |
| 21 | Multi-Level Fast Multipole BEM for 3-D Elastodynamics. , 2009, , 15-27. | | 0 |
| 22 | A new fast multi-domain BEM to model seismic wave propagation and amplification in 3-D geological structures. Geophysical Journal International, 2009, 177, 509-531. | 2.4 | 81 |
| 23 | A multi-level fast multipole BEM for 3-D elastodynamics in the frequency domain. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 4233-4249. | 6.6 | 97 |
| 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 | A Fast Multipole Method formulation for 3D elastodynamics in the frequency domain. Comptes Rendus - Mecanique, 2007, 335, 714-719. | 2.1 | 8 |
| 26 | Resolution of linear viscoelastic equations in the frequency domain using real Helmholtz boundary integral equations. Comptes Rendus - Mecanique, 2007, 335, 746-750. | 2.1 | 5 |