

Cã©dric Bellis

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

261
citations

933447

10
h-index

996975

15
g-index

23
all docs

23
docs citations

23
times ranked

220
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | FFT-based computation of homogenized interface parameters. <i>Comptes Rendus - Mecanique</i> , 2022, 350, 297-307. | 0.7 | 1 |
| 2 | Improving EIT-Based Visualizations of Two-Phase Flows Using an Eigenvalue Correlation Method. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-9. | 4.7 | 12 |
| 3 | Effective dynamics for low-amplitude transient elastic waves in a 1D periodic array of non-linear interfaces. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 149, 104321. | 4.8 | 12 |
| 4 | Practical comparisons of EIT excitation protocols with applications in high-contrast imaging. <i>Measurement Science and Technology</i> , 2021, 32, 085110. | 2.6 | 6 |
| 5 | Eigendecomposition-based convergence analysis of the Neumann series for laminated composites and discretization error estimation. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 201-232. | 2.8 | 10 |
| 6 | Effective Resonant Model and Simulations in the Time-Domain of Wave Scattering from a Periodic Row of Highly-Contrasted Inclusions. <i>Journal of Elasticity</i> , 2020, 142, 53-82. | 1.9 | 13 |
| 7 | High Speed EIT With Multifrequency Excitation Using FPGA and Response Analysis Using FDM. <i>IEEE Sensors Journal</i> , 2020, 20, 8698-8710. | 4.7 | 14 |
| 8 | Tuning effective dynamical properties of periodic media by FFT-accelerated topological optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 3178-3205. | 2.8 | 10 |
| 9 | Time-domain simulation of wave propagation across resonant meta-interfaces. <i>Journal of Computational Physics</i> , 2020, 414, 109474. | 3.8 | 8 |
| 10 | High-frequency homogenization in periodic media with imperfect interfaces. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200402. | 2.1 | 4 |
| 11 | Homogenization of frame lattices leading to second gradient models coupling classical strain and strain-gradient terms. <i>Mathematics and Mechanics of Solids</i> , 2019, 24, 3976-3999. | 2.4 | 37 |
| 12 | On the Implementation of Simultaneous Multi-Frequency Excitations and Measurements for Electrical Impedance Tomography. <i>Sensors</i> , 2019, 19, 3679. | 3.8 | 13 |
| 13 | Simulating transient wave phenomena in acoustic metamaterials using auxiliary fields. <i>Wave Motion</i> , 2019, 86, 175-194. | 2.0 | 24 |
| 14 | Geometric Variational Principles for Computational Homogenization. <i>Journal of Elasticity</i> , 2019, 137, 119-149. | 1.9 | 8 |
| 15 | Reconstructing material properties by deconvolution of full-field measurement images: The conductivity case. <i>Inverse Problems</i> , 2017, 33, 035012. | 2.0 | 0 |
| 16 | Converting strain maps into elasticity maps for materials with small contrast. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 98, 411-428. | 4.8 | 2 |
| 17 | A full-field image conversion method for the inverse conductivity problem with internal measurements. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20150488. | 2.1 | 5 |
| 18 | Reconstruction of constitutive parameters in isotropic linear elasticity from noisy full-field measurements. <i>Inverse Problems</i> , 2014, 30, 125004. | 2.0 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Dynamical one-dimensional models of passive piezoelectric sensors. <i>Mathematics and Mechanics of Solids</i> , 2014, 19, 451-476. | 2.4 | 6 |
| 20 | Apposition of the topological sensitivity and linear sampling approaches to inverse scattering. <i>Wave Motion</i> , 2013, 50, 891-908. | 2.0 | 7 |
| 21 | Qualitative identification of cracks using 3D transient elastodynamic topological derivative: Formulation and FE implementation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 253, 89-105. | 6.6 | 14 |
| 22 | On the Existence and Uniqueness of a Solution to the Interior Transmission Problem for Piecewise-Homogeneous Solids. <i>Journal of Elasticity</i> , 2010, 101, 29-57. | 1.9 | 15 |
| 23 | A FEM-based topological sensitivity approach for fast qualitative identification of buried cavities from elastodynamic overdetermined boundary data. <i>International Journal of Solids and Structures</i> , 2010, 47, 1221-1242. | 2.7 | 21 |