

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	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
2	Simulating transient wave phenomena in acoustic metamaterials using auxiliary fields. <i>Wave Motion</i> , 2019, 86, 175-194.	2.0	24
3	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
4	Reconstruction of constitutive parameters in isotropic linear elasticity from noisy full-field measurements. <i>Inverse Problems</i> , 2014, 30, 125004.	2.0	19
5	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
6	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
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	On the Implementation of Simultaneous Multi-Frequency Excitations and Measurements for Electrical Impedance Tomography. <i>Sensors</i> , 2019, 19, 3679.	3.8	13
9	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
10	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
11	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
12	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
13	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
14	Geometric Variational Principles for Computational Homogenization. <i>Journal of Elasticity</i> , 2019, 137, 119-149.	1.9	8
15	Time-domain simulation of wave propagation across resonant meta-interfaces. <i>Journal of Computational Physics</i> , 2020, 414, 109474.	3.8	8
16	Apposition of the topological sensitivity and linear sampling approaches to inverse scattering. <i>Wave Motion</i> , 2013, 50, 891-908.	2.0	7
17	Dynamical one-dimensional models of passive piezoelectric sensors. <i>Mathematics and Mechanics of Solids</i> , 2014, 19, 451-476.	2.4	6
18	Practical comparisons of EIT excitation protocols with applications in high-contrast imaging. <i>Measurement Science and Technology</i> , 2021, 32, 085110.	2.6	6

#	ARTICLE	IF	CITATIONS
19	A full-field image conversion method for the inverse conductivity problem with internal measurements. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20150488.	2.1	5
20	High-frequency homogenization in periodic media with imperfect interfaces. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200402.	2.1	4
21	Converting strain maps into elasticity maps for materials with small contrast. Journal of the Mechanics and Physics of Solids, 2017, 98, 411-428.	4.8	2
22	FFT-based computation of homogenized interface parameters. Comptes Rendus - Mecanique, 2022, 350, 297-307.	0.7	1
23	Reconstructing material properties by deconvolution of full-field measurement images: The conductivity case. Inverse Problems, 2017, 33, 035012.	2.0	0