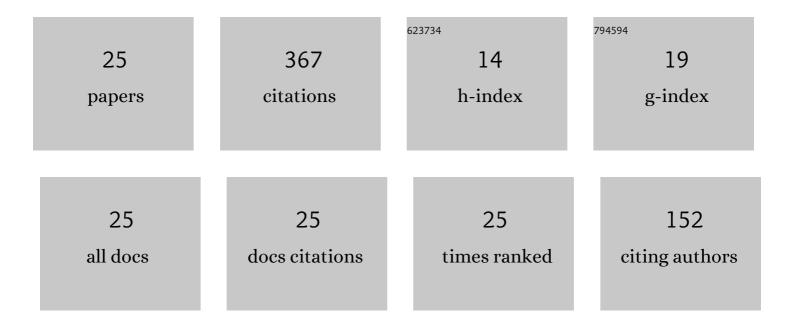
Frédérique Le Louër

List of Publications by Year in descending order

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Version: 2024-02-01



#	Article	IF	CITATIONS
1	Topological Sensitivity for Solving Inverse Multiple Scattering Problems in Three-dimensional Electromagnetism. Part I: One Step Method. SIAM Journal on Imaging Sciences, 2017, 10, 1291-1321.	2.2	36
2	Shape Derivatives of Boundary Integral Operators in Electromagnetic Scattering. Part I: Shape Differentiability of Pseudo-homogeneous Boundary Integral Operators. Integral Equations and Operator Theory, 2012, 72, 509-535.	0.8	29
3	Shape Derivatives of Boundary Integral Operators in Electromagnetic Scattering. Part II: Application to Scattering by a Homogeneous Dielectric Obstacle. Integral Equations and Operator Theory, 2012, 73, 17-48.	0.8	26
4	Fast iterative boundary element methods for high-frequency scattering problems in 3D elastodynamics. Journal of Computational Physics, 2017, 341, 429-446.	3.8	26
5	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
6	Wellâ€conditioned boundary integral formulations for highâ€frequency elastic scattering problems in three dimensions. Mathematical Methods in the Applied Sciences, 2015, 38, 1705-1733.	2.3	22
7	A high order spectral algorithm for elastic obstacle scattering in three dimensions. Journal of Computational Physics, 2014, 279, 1-17.	3.8	21
8	When topological derivatives met regularized Gauss-Newton iterations in holographic 3D imaging. Journal of Computational Physics, 2019, 388, 224-251.	3.8	21
9	On the Kleinman–Martin Integral Equation Method for Electromagnetic Scattering by a Dielectric Body. SIAM Journal on Applied Mathematics, 2011, 71, 635-656.	1.8	20
10	On the Fréchet Derivative in Elastic Obstacle Scattering. SIAM Journal on Applied Mathematics, 2012, 72, 1493-1507.	1.8	20
11	Spectrally accurate numerical solution of hypersingular boundary integral equations for three-dimensional electromagnetic wave scattering problems. Journal of Computational Physics, 2014, 275, 662-666.	3.8	17
12	On the use of Lamb modes in the linear sampling method for elastic waveguides. Inverse Problems, 2011, 27, 055001.	2.0	15
13	A domain derivative-based method for solving elastodynamic inverse obstacle scattering problems. Inverse Problems, 2015, 31, 115006.	2.0	15
14	Detection of multiple impedance obstacles by non-iterative topological gradient based methods. Journal of Computational Physics, 2019, 388, 534-560.	3.8	15
15	Topological Sensitivity for Solving Inverse Multiple Scattering Problems in Three-Dimensional Electromagnetism. Part II: Iterative Method. SIAM Journal on Imaging Sciences, 2018, 11, 734-769.	2.2	14
16	A spectrally accurate method for the direct and inverse scattering problems by multiple 3D dielectric obstacles. ANZIAM Journal, 0, 59, 1.	0.0	12
17	Material derivatives of boundary integral operators in electromagnetism and application to inverse scattering problems. Inverse Problems, 2016, 32, 095003.	2.0	11
18	Topological sensitivity analysis revisited for time-harmonic wave scattering problems. Part I: the free space case. Engineering Computations, 2022, 39, 232-271.	1.4	7

#	Article	IF	CITATIONS
19	Generalized impedance boundary conditions and shape derivatives for 3D Helmholtz problems. Mathematical Models and Methods in Applied Sciences, 2016, 26, 1995-2033.	3.3	4
20	Shape Sensitivity Analysis for Elastic Structures with Generalized Impedance Boundary Conditions of the Wentzell Type—Application to Compliance Minimization. Journal of Elasticity, 2019, 136, 17-53.	1.9	4
21	Thin layer approximations in mechanical structures: The Dirichlet boundary condition case. Comptes Rendus Mathematique, 2019, 357, 576-581.	0.3	3
22	Topological sensitivity analysis revisited for time-harmonic wave scattering problems. Part II: recursive computations by the boundary integral equation method. Engineering Computations, 2022, 39, 272-312.	1.4	3
23	Analytical preconditioners for Neumann elastodynamic boundary element methods. SN Partial Differential Equations and Applications, 2021, 2, 1.	0.6	2
24	Topological Imaging Methods for the Iterative Detection of Multiple Impedance Obstacles. Journal of Mathematical Imaging and Vision, 2022, 64, 321-340.	1.3	1
25	An Inverse Parameter Problem with Generalized Impedance Boundary Condition for Two-Dimensional Linear Viscoelasticity, SIAM Journal on Applied Mathematics, 2021, 81, 1668-1690.	1.8	0