Helene Barucq

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8516153/publications.pdf Version: 2024-02-01



HELENE RADIICO

#	Article	IF	CITATIONS
1	Outgoing modal solutions for Galbrun's equation in helioseismology. Journal of Differential Equations, 2021, 286, 494-530.	1.1	1
2	Local strategies for improving the conditioning of the plane-wave Ultra-Weak Variational Formulation. Journal of Computational Physics, 2021, 441, 110449.	1.9	2
3	Asymptotic behavior of acoustic waves scattered by very small obstacles. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, S705-S731.	0.8	3
4	An effective numerical strategy for retrieving all characteristic parameters of an elastic scatterer from its FFP measurements. Journal of Computational Physics, 2020, 419, 109683.	1.9	2
5	High-Order Locally A-Stable Implicit Schemes for Linear ODEs. Journal of Scientific Computing, 2020, 85, 1.	1.1	1
6	Outgoing solutions and radiation boundary conditions for the ideal atmospheric scalar wave equation in helioseismology. ESAIM: Mathematical Modelling and Numerical Analysis, 2020, 54, 1111-1138.	0.8	7
7	Full reciprocity-gap waveform inversion enabling sparse-source acquisition. Geophysics, 2020, 85, R461-R476.	1.4	11
8	A priori estimates of attraction basins for velocity model reconstruction by time-harmonic full-waveform inversion and data-space reflectivity formulation. Geophysics, 2020, 85, R223-R241.	1.4	6
9	Eigenvector models for solving the seismic inverse problem for the Helmholtz equation. Geophysical Journal International, 2020, 221, 394-414.	1.0	9
10	Efficient and Accurate Algorithm for the Full Modal Green's Kernel of the Scalar Wave Equation in Helioseismology. SIAM Journal on Applied Mathematics, 2020, 80, 2657-2683.	0.8	3
11	Oceanic Surface Current Approximation from Sparse Data. , 2020, , .		0
12	Mathematical analysis and solution methodology for an inverse spectral problem arising in the design of optical waveguides. Inverse Problems in Science and Engineering, 2019, 27, 1081-1119.	1.2	0
13	<i>A priori</i> estimates of attraction basins for nonlinear least squares, with application to Helmholtz seismic inverse problem. Inverse Problems, 2019, 35, 115004.	1.0	12
14	Trefftz-Discontinuous Galerkin Approach for Solving Elastodynamic Problem. Lecture Notes in Computational Science and Engineering, 2019, , 145-153.	0.1	0
15	Mathematical Determination of the Fréchet Derivative with Respect to the Domain for a Fluid-Structure Scattering Problem: Case of Polygonal-Shaped Domains. SIAM Journal on Mathematical Analysis, 2018, 50, 1010-1036.	0.9	1
16	Numerical robustness of single-layer method with Fourier basis for multiple obstacle acoustic scattering in homogeneous media. Wave Motion, 2018, 77, 40-63.	1.0	3
17	Highâ€order Padé and singly diagonally Rungeâ€Kutta schemes for linear ODEs, application to wave propagation problems. Numerical Methods for Partial Differential Equations, 2018, 34, 760-798.	2.0	4
18	Sensitivity kernels for time-distance helioseismology. Astronomy and Astrophysics, 2018, 616, A156.	2.1	11

Helene Barucq

#	Article	IF	CITATIONS
19	Atmospheric radiation boundary conditions for the Helmholtz equation. ESAIM: Mathematical Modelling and Numerical Analysis, 2018, 52, 945-964.	0.8	10
20	Localization of small obstacles from back-scattered data at limited incident angles with full-waveform inversion. Journal of Computational Physics, 2018, 370, 1-24.	1.9	8
21	Characterization of partial derivatives with respect to material parameters in a fluid–solid interaction problem. Journal of Mathematical Analysis and Applications, 2018, 465, 903-927.	0.5	2
22	Signal and noise in helioseismic holography. Astronomy and Astrophysics, 2018, 620, A136.	2.1	13
23	Fréchet differentiability of the elastoâ€acoustic scattered field with respect to Lipschitz domains. Mathematical Methods in the Applied Sciences, 2017, 40, 404-414.	1.2	4
24	A symmetric Trefftz-DG formulation based on a local boundary element method for the solution of the Helmholtz equation. Journal of Computational Physics, 2017, 330, 1069-1092.	1.9	20
25	Computational helioseismology in the frequency domain: acoustic waves in axisymmetric solar models with flows. Astronomy and Astrophysics, 2017, 600, A35.	2.1	39
26	Stability analysis of heterogeneous Helmholtz problems and finite element solution based on propagation media approximation. Mathematics of Computation, 2016, 86, 2129-2157.	1.1	24
27	Absorbing Boundary Conditions for 3D elastic TTI modeling. , 2015, , .		0
28	Absorbing Boundary Conditions for 2D Tilted Transverse Isotropic elastic media. ESAIM Proceedings and Surveys, 2014, 45, 400-409.	0.5	5
29	Efficient DGâ€like formulation equipped with curved boundary edges for solving elastoâ€acoustic scattering problems. International Journal for Numerical Methods in Engineering, 2014, 98, 747-780.	1.5	16
30	Characterization of the Fréchet derivative of the elasto-acoustic field with respect to Lipschitz domains. Journal of Inverse and III-Posed Problems, 2014, 22, 1-8.	0.5	8
31	On the existence and the uniqueness of the solution of a fluid–structure interaction scattering problem. Journal of Mathematical Analysis and Applications, 2014, 412, 571-588.	0.5	11
32	On the Influence of Curvature on Transmission Conditions. Lecture Notes in Computational Science and Engineering, 2014, , 323-331.	0.1	2
33	LONG-TERM STABILITY ANALYSIS OF ACOUSTIC ABSORBING BOUNDARY CONDITIONS. Mathematical Models and Methods in Applied Sciences, 2013, 23, 2129-2154.	1.7	2
34	Upscaling for the Laplace problem using a discontinuous Galerkin method. Journal of Computational and Applied Mathematics, 2013, 240, 192-203.	1.1	1
35	Performance Analysis of a High-Order Discontinuous Galerkin Method Application to the Reverse Time Migration. Communications in Computational Physics, 2012, 11, 660-673.	0.7	7
36	EXPONENTIAL DECAY OF HIGH-ORDER SPURIOUS PROLATE SPHEROIDAL MODES INDUCED BY A LOCAL APPROXIMATE DTN EXTERIOR BOUNDARY CONDITION. Progress in Electromagnetics Research B, 2012, 37, 1-19.	0.7	1

Helene Barucq

#	Article	IF	CITATIONS
37	Full Aperture Reconstruction of the Acoustic Far-Field Pattern from Few Measurements. Communications in Computational Physics, 2012, 11, 647-659.	0.7	4
38	Micro-Differential Boundary Conditions Modelling the Absorption of Acoustic Waves by 2D Arbitrarily-Shaped Convex Surfaces. Communications in Computational Physics, 2012, 11, 674-690.	0.7	9
39	Non-reflecting boundary condition on ellipsoidal boundary. Numerical Analysis and Applications, 2012, 5, 109-115.	0.2	3
40	Numerical performances of a hybrid localâ€time stepping strategy applied to the reverse time migration. Geophysical Prospecting, 2011, 59, 907-919.	1.0	10
41	A multi-step procedure for enriching limited two-dimensional acoustic far-field pattern measurements. Journal of Inverse and III-Posed Problems, 2010, 18, .	0.5	6
42	Well-posedness and exponential stability of Maxwell-like systems coupled with strongly absorbing layers. Journal Des Mathematiques Pures Et Appliquees, 2007, 87, 253-273.	0.8	6
43	Approximation by generalized impedance boundary conditions of a transmission problem in acoustic scattering. ESAIM: Mathematical Modelling and Numerical Analysis, 2005, 39, 1041-1059.	0.8	12
44	Some existence-uniqueness results for a class of one-dimensional nonlinear Biot models. Nonlinear Analysis: Theory, Methods & Applications, 2005, 61, 591-612.	0.6	11
45	On nonlinear Biot's consolidation models. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, e985-e995.	0.6	14
46	Construction of local boundary conditions for an eigenvalue problem using micro-local analysis: application to optical waveguide problems. Journal of Computational Physics, 2004, 193, 666-696.	1.9	4
47	A new family of first-order boundary conditions for the Maxwell system: derivation, well-posedness and long-time behavior. Journal Des Mathematiques Pures Et Appliquees, 2003, 82, 67-88.	0.8	12
48	A Family of First-Order Conditions for the Long-Time Stability of the Maxwell System. , 2003, , 377-382.		0
49	Microlocal Diagonalization of Strictly Hyperbolic Pseudodifferential Systems and Application to the Design of Radiation Conditions in Electromagnetism. SIAM Journal on Applied Mathematics, 2001, 61, 1877-1905.	0.8	21
50	Une formulation mixte convergente pour le système de Stokes tridimensionnel. Comptes Rendus Mathematique, 1999, 328, 935-938.	0.5	4