

# ThÃ©ophile Chaumont-Frelet

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

180  
citations

1163117

8  
h-index

1125743

13  
g-index

20  
all docs

20  
docs citations

20  
times ranked

87  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wavenumber explicit convergence analysis for finite element discretizations of general wave propagation problems. <i>IMA Journal of Numerical Analysis</i> , 2020, 40, 1503-1543.	2.9	29
2	Stability analysis of heterogeneous Helmholtz problems and finite element solution based on propagation media approximation. <i>Mathematics of Computation</i> , 2016, 86, 2129-2157.	2.1	24
3	On high order methods for the heterogeneous Helmholtz equation. <i>Computers and Mathematics With Applications</i> , 2016, 72, 2203-2225.	2.7	21
4	High-frequency behaviour of corner singularities in Helmholtz problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2018, 52, 1803-1845.	1.9	20
5	Equivalence of local-best and global-best approximations in $H(\text{curl})$ . <i>Calcolo</i> , 2021, 58, 1.	1.1	13
6	Finite element simulations of logging-while-drilling and extra-deep azimuthal resistivity measurements using non-fitting grids. <i>Computational Geosciences</i> , 2018, 22, 1161-1174.	2.4	12
7	On the derivation of guaranteed and $p$ -robust a posteriori error estimates for the Helmholtz equation. <i>Numerische Mathematik</i> , 2021, 148, 525-573.	1.9	9
8	Finite Element Approximation of Electromagnetic Fields Using Nonfitting Meshes for Geophysics. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 2288-2321.	2.3	8
9	A painless automatic hp-adaptive strategy for elliptic problems. <i>Finite Elements in Analysis and Design</i> , 2020, 178, 103424.	3.2	8
10	Mixed finite element discretizations of acoustic Helmholtz problems with high wavenumbers. <i>Calcolo</i> , 2019, 56, 1.	1.1	7
11	A Multiscale Hybrid-Mixed Method for the Helmholtz Equation in Heterogeneous Domains. <i>SIAM Journal on Numerical Analysis</i> , 2020, 58, 1029-1067.	2.3	7
12	Stable broken $H^1$ polynomial extensions and $p$ -robust a posteriori error estimates by broken patchwise equilibration for the curl-curl problem. <i>Mathematics of Computation</i> , 2022, 91, 37-74.	2.1	6
13	Uniform a priori estimates for elliptic problems with impedance boundary conditions. <i>Communications on Pure and Applied Analysis</i> , 2020, 19, 2445-2471.	0.8	4
14	Polynomial-degree-robust discrete minimization in a tetrahedron. <i>Comptes Rendus Mathématique</i> , 2020, 358, 1101-1110.	0.3	3
15	Image Segmentation with a Priori Conditions: Applications to Medical and Geophysical Imaging. <i>Mathematical and Computational Applications</i> , 2022, 27, 26.	1.3	3
16	Frequency-explicit approximability estimates for time-harmonic Maxwell's equations. <i>Calcolo</i> , 2022, 59, .	1.1	3
17	Upscaling for the Laplace problem using a discontinuous Galerkin method. <i>Journal of Computational and Applied Mathematics</i> , 2013, 240, 192-203.	2.0	1
18	Adjoint-based formulation for computing derivatives with respect to bed boundary positions in resistivity geophysics. <i>Computational Geosciences</i> , 2019, 23, 583-594.	2.4	1

#	ARTICLE	IF	CITATIONS
19	A posteriori error estimates for finite element discretizations of time-harmonic Maxwell's equations coupled with a non-local hydrodynamic Drude model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 385, 114002.	6.6	1
20	Multiscale Medium Approximation: Application to Geophysical Benchmarks. , 2016, , .		0