

David Hewett

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

271
citations

933447

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888059

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162
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic scattering by impedance screens/cracks with fractal boundary: Well-posedness analysis and boundary element approximation. <i>Mathematical Models and Methods in Applied Sciences</i> , 2022, 32, 291-319.	3.3	2
2	Density results for Sobolev, Besov and Triebel-Lizorkin spaces on rough sets. <i>Journal of Functional Analysis</i> , 2021, 281, 109019.	1.4	5
3	Fast hybrid numerical-asymptotic boundary element methods for high frequency screen and aperture problems based on least-squares collocation. <i>SN Partial Differential Equations and Applications</i> , 2020, 1, 1.	0.6	6
4	Contour integral solutions of the parabolic wave equation. <i>Wave Motion</i> , 2019, 84, 90-109.	2.0	9
5	Calderón preconditioning of PMCHWT boundary integral equations for scattering by multiple absorbing dielectric particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 224, 383-395.	2.3	11
6	A hybrid numerical-asymptotic boundary element method for high frequency scattering by penetrable convex polygons. <i>Wave Motion</i> , 2018, 78, 32-53.	2.0	11
7	On the maximal Sobolev regularity of distributions supported by subsets of Euclidean space. <i>Analysis and Applications</i> , 2017, 15, 731-770.	2.2	12
8	Sobolev Spaces on Non-Lipschitz Subsets of \mathbb{R}^n with Application to Boundary Integral Equations on Fractal Screens. <i>Integral Equations and Operator Theory</i> , 2017, 87, 179-224.	0.8	27
9	Homogenized boundary conditions and resonance effects in Faraday cages. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160062.	2.1	19
10	Shadow boundary effects in hybrid numerical-asymptotic methods for high-frequency scattering. <i>European Journal of Applied Mathematics</i> , 2015, 26, 773-793.	2.9	8
11	Wavenumber-Explicit Continuity and Coercivity Estimates in Acoustic Scattering by Planar Screens. <i>Integral Equations and Operator Theory</i> , 2015, 82, 423-449.	0.8	13
12	Tangent ray diffraction and the Pekeris caret function. <i>Wave Motion</i> , 2015, 57, 257-267.	2.0	6
13	INTERPOLATION OF HILBERT AND SOBOLEV SPACES: QUANTITATIVE ESTIMATES AND COUNTEREXAMPLES. <i>Mathematika</i> , 2015, 61, 414-443.	0.5	53
14	A frequency-independent boundary element method for scattering by two-dimensional screens and apertures. <i>IMA Journal of Numerical Analysis</i> , 2015, 35, 1698-1728.	2.9	25
15	A high frequency boundary element method for scattering by a class of nonconvex obstacles. <i>Numerische Mathematik</i> , 2015, 129, 647-689.	1.9	28
16	A High Frequency hp Boundary Element Method for Scattering by Convex Polygons. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 629-653.	2.3	28
17	High frequency sound propagation in a network of interconnecting streets. <i>Journal of Sound and Vibration</i> , 2012, 331, 5537-5561.	3.9	3
18	Switching on a two-dimensional time-harmonic scalar wave in the presence of a diffracting edge. <i>Wave Motion</i> , 2011, 48, 197-213.	2.0	5