Andrea Moiola

List of Publications by Year
in descending order

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26	716	567281 15	552781 26
papers	citations	h-index	g-index

27	27	27	340
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plane Wave Discontinuous Galerkin Methods for the 2D Helmholtz Equation: Analysis of the p-Version. SIAM Journal on Numerical Analysis, 2011, 49, 264-284.	2.3	126
2	Plane wave approximation of homogeneous Helmholtz solutions. Zeitschrift Fur Angewandte Mathematik Und Physik, 2011, 62, 809-837.	1.4	90
3	Error analysis of Trefftz-discontinuous Galerkin methods for the time-harmonic Maxwell equations. Mathematics of Computation, 2012, 82, 247-268.	2.1	58
4	Is the Helmholtz Equation Really Sign-Indefinite?. SIAM Review, 2014, 56, 274-312.	9.5	55
5	INTERPOLATION OF HILBERT AND SOBOLEV SPACES: QUANTITATIVE ESTIMATES AND COUNTEREXAMPLES. Mathematika, 2015, 61, 414-443.	0.5	53
6	STABILITY RESULTS FOR THE TIME-HARMONIC MAXWELL EQUATIONS WITH IMPEDANCE BOUNDARY CONDITIONS. Mathematical Models and Methods in Applied Sciences, 2011, 21, 2263-2287.	3.3	38
7	A Survey of Trefftz Methods for the Helmholtz Equation. Lecture Notes in Computational Science and Engineering, 2016, , 237-279.	0.3	34
8	Acoustic transmission problems: Wavenumber-explicit bounds and resonance-free regions. Mathematical Models and Methods in Applied Sciences, 2019, 29, 317-354.	3.3	29
9	Trefftz discontinuous Galerkin methods for acoustic scattering on locally refined meshes. Applied Numerical Mathematics, 2014, 79, 79-91.	2.1	27
10	Plane Wave Discontinuous Galerkin Methods: Exponential Convergence of the $$hp$$ h p -Version. Foundations of Computational Mathematics, 2016, 16, 637-675.	2.5	27
11	Sobolev Spaces on Non-Lipschitz Subsets of $${mathbb {R}}^n$$ R n with Application to Boundary Integral Equations on Fractal Screens. Integral Equations and Operator Theory, 2017, 87, 179-224.	0.8	27
12	A spaceâ€“time Trefftz discontinuous Galerkin method for the acoustic wave equation in first-order formulation. Numerische Mathematik, 2018, 138, 389-435.	1.9	23
13	A priorierror analysis of spaceâ€“time Trefftz discontinuous Galerkin methods for wave problems. IMA Journal of Numerical Analysis, 2016, 36, 1599-1635.	2.9	22
14	Approximation by harmonic polynomials in star-shaped domains and exponential convergence of Trefftzhp-dGFEM. ESAIM: Mathematical Modelling and Numerical Analysis, 2014, 48, 727-752.	1.9	19
15	Vekua theory for the Helmholtz operator. Zeitschrift Fur Angewandte Mathematik Und Physik, 2011, 62, 779-807.	1.4	18
16	On the maximal Sobolev regularity of distributions supported by subsets of Euclidean space. Analysis and Applications, 2017, 15, 731-770.	2.2	12
17	Spaceâ€“time discontinuous Galerkin approximation of acoustic waves with point singularities. IMA Journal of Numerical Analysis, 2021, 41, 2056-2109.	2.9	12
18	Boundary element methods for acoustic scattering by fractal screens. Numerische Mathematik, 2021, 147, 785-837.	1.9	10

#	Article	IF	Citations
19	Can coercive formulations lead to fast and accurate solution of the Helmholtz equation?. Journal of Computational and Applied Mathematics, 2019, 352, 110-131.	2.0	8
20	Plane wave approximation in linear elasticity. Applicable Analysis, 2013, 92, 1299-1307.	1.3	7
21	Implementation of an interior point source in the ultra weak variational formulation through source extraction. Journal of Computational and Applied Mathematics, 2014, 271, 295-306.	2.0	6
22	Density results for Sobolev, Besov and Triebelâ€“Lizorkin spaces on rough sets. Journal of Functional Analysis, 2021, 281, 109019.	1.4	5
23	A Space-Time Trefftz Discontinuous Galerkin Method for the Linear SchrÃ¶dinger Equation. SIAM Journal on Numerical Analysis, 2022, 60, 688-714.	2.3	3
24	A high-frequency boundary element method for scattering by a class of multiple obstacles. IMA Journal of Numerical Analysis, 2021, 41, 1197-1239.	2.9	2
25	Analysis of the internal electric fields of pristine ice crystals and aggregate snowflakes, and their effect on scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 230, 155-171.	2.3	1
26	A note on properties of the restriction operator on Sobolev spaces. Journal of Applied Analysis, 2017, 23, 1-8.	0.5	0