Chiara Guardasoni

List of Publications by Year
in descending order

34 papers	270 citations	1040056 9 h-index	996975 15 g-index
34 all docs	34 docs citations	34 times ranked	123 citing authors

#	Article	IF	Citations
1	An energy approach to space–time Galerkin BEM for wave propagation problems. International Journal for Numerical Methods in Engineering, 2009, 80, 1196-1240.	2.8	47
2	A Mellin transform approach to barrier option pricing. IMA Journal of Management Mathematics, 2020, 31, 49-67.	1.6	24
3	On the energetic Galerkin boundary element method applied to interior wave propagation problems. Journal of Computational and Applied Mathematics, 2011, 235, 1746-1754.	2.0	23
4	Neumann exterior wave propagation problems: computational aspects of 3D energetic Galerkin BEM. Computational Mechanics, 2013, 51, 475-493.	4.0	23
5	Fast Numerical Pricing of Barrier Options under Stochastic Volatility and Jumps. SIAM Journal on Applied Mathematics, 2016, 76, 27-57.	1.8	18
6	A stable 3D energetic Galerkin BEM approach for wave propagation interior problems. Engineering Analysis With Boundary Elements, 2012, 36, 1756-1765.	3.7	15
7	On the numerical solution of a BGK-type model for chemical reactions. European Journal of Mechanics, B/Fluids, 2007, 26, 455-472.	2.5	14
8	Energetic BEM–FEM coupling for wave propagation in 3D multidomains. International Journal for Numerical Methods in Engineering, 2014, 97, 377-394.	2.8	14
9	A boundary element approach to barrier option pricing in Black–Scholes framework. International Journal of Computer Mathematics, 2016, 93, 696-722.	1.8	11
10	Numerical integration schemes for space–time hypersingular integrals in energetic Galerkin BEM. Numerical Algorithms, 2010, 55, 145-170.	1.9	10
11	A numerical study of energetic BEM-FEM applied to wave propagation in 2D multidomains. Publications De L'Institut Mathematique, 2014, 96, 5-22.	0.2	9
12	Collocation Boundary Element Method for the pricing of Geometric Asian Options. Engineering Analysis With Boundary Elements, 2018, 92, 90-100.	3.7	9
13	Highly accurate quadrature schemes for singular integrals in energetic BEM applied to elastodynamics. Journal of Computational and Applied Mathematics, 2022, 410, 114186.	2.0	8
14	Semi-Analytical method for the pricing of barrier options in case of time-dependent parameters (with) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.3	7
15	Energetic boundary element method analysis of wave propagation in 2D multilayered media. Mathematical Methods in the Applied Sciences, 2012, 35, 1140-1160.	2.3	5
16	Energetic BEM-FEM coupling for the numerical solution of the damped wave equation. Advances in Computational Mathematics, 2017, 43, 627-651.	1.6	5
17	Numerical pricing of geometric asian options with barriers. Mathematical Methods in the Applied Sciences, 2018, 41, 7510-7529.	2.3	5
18	Energetic BEM for the numerical analysis of 2D Dirichlet damped wave propagation exterior problems. Communications in Applied and Industrial Mathematics, 2017, 8, 103-127.	0.3	4

#	Article	IF	Citations
19	Comparison between numerical methods applied to the damped wave equation. Journal of Integral Equations and Applications, 2017, 29, .	0.6	3
20	Multi-Asset Barrier Options Pricing by Collocation BEM (with Matlab® Code). Axioms, 2021, 10, 301.	1.9	3
21	Energetic BEM-FEM coupling for the numerical solution of the damped wave equation. AIP Conference Proceedings, 2015, , .	0.4	2
22	Efficient BEM-Based Algorithm for Pricing Floating Strike Asian Barrier Options (with MATLAB® Code). Axioms, 2018, 7, 40.	1.9	2
23	Energetic boundary element method for accurate solution of damped waves hard scattering problems. Journal of Engineering Mathematics, 2021, 127, 1.	1.2	2
24	Application of Energetic BEM to 2D Elastodynamic Soft Scattering Problems. Communications in Applied and Industrial Mathematics, 2019, 10, 182-198.	0.3	2
25	Energetic Galerkin BEM for 2D Wave Propagation Problems in Piecewise Homogeneous Media. , 2010, , .		1
26	Restriction matrices in space–time energetic BEM. Engineering Analysis With Boundary Elements, 2012, 36, 1256-1271.	3.7	1
27	ENERGETIC BEM FOR THE NUMERICAL SOLUTION OF DAMPED WAVE PROPAGATION EXTERIOR PROBLEMS. , 2016, , .		1
28	A Space-time Galerkin BEM for 2D Exterior Wave Propagation Problems. , 2009, , .		1
29	Energetic BEM for the Numerical Solution of 2D Hard Scattering Problems of Damped Waves by Open Arcs. Springer INdAM Series, 2019, , 267-283.	0.5	1
30	NUMERICAL APPROXIMATION OF A BGK-TYPE RELAXATION MODEL FOR REACTIVE MIXTURES. , 2007, , .		0
31	Energetic BEM for the numerical solution of 2D damped waves propagation exterior problems. AIP Conference Proceedings, 2018, , .	0.4	0
32	Integral approach to Asian barrier option pricing. AIP Conference Proceedings, 2019, , .	0.4	0
33	Restrictions matrices for Platonic solids invariance and applications to space–time energetic BEM. Journal of Computational and Applied Mathematics, 2019, 360, 18-40.	2.0	0
34	ENERGETIC GALERKIN BOUNDARY ELEMENT METHOD FOR 2D ELASTODYNAMICS: INTEGRAL OPERATORS WITH WEAK AND STRONG SINGULARITIES. , 2021, , .		0