LuÃ-s Godinho

List of Publications by Year
in descending order

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126	1,387	394421	501196
papers	citations	19	28
		h-index	g-index

128	128	128	951
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Performance of Low-Height Railway Noise Barriers with Porous Materials. Applied Sciences (Switzerland), 2022, 12, 2960.	2.5	7
2	A Simple Method to Estimate the In Situ Performance of Noise Barriers. Applied Sciences (Switzerland), 2022, 12, 7027.	2.5	1
3	Improving the sound absorption behaviour of porous concrete using embedded resonant structures. Journal of Building Engineering, 2021, 35, 102015.	3.4	8
4	Life cycle analysis of cross-insulated timber panels. Structures, 2021, 31, 1311-1324.	3.6	14
5	Nonlinear porodynamic analysis by adaptive semi-explicit/explicit time marching formulations. Acta Geotechnica, 2021, 16, 1879-1894.	5.7	1
6	An XFEM multilayered heaviside enrichment for fracture propagation with reduced enhanced degrees of freedom. International Journal for Numerical Methods in Engineering, 2021, 122, 3425-3447.	2.8	8
7	Experimental and numerical assessment of a cross-insulated timber panel solution. Engineering Structures, 2021, 235, 112061.	5.3	4
8	Locally-enriched procedure to simulate acoustic wave propagation in discontinuous media. Journal of Sound and Vibration, 2021, 500, 116038.	3.9	0
9	Numerical modelling for prediction of ground-borne vibrations induced by pile driving. Engineering Structures, 2021, 242, 112533.	5.3	6
10	Proposal of numerical models to predict the diffuse field sound absorption of finite sized porous materials â€“ BEM and FEM approaches. Applied Acoustics, 2021, 180, 108092.	3.3	15
11	An experimental/numerical hybrid methodology for the prediction of railway-induced ground-borne vibration on buildings to be constructed close to existing railway infrastructures: Numerical validation and parametric study. Soil Dynamics and Earthquake Engineering, 2021, 150, 106888.	3.8	17
12	Acoustic and thermal behaviour of cross-insulated timber panels. Journal of Building Engineering, 2021, 44, 103309.	3.4	2
13	Normal incidence sound insulation provided by Sonic Crystal Acoustic Screens made from rigid scatterers â€“ assessment of different simulation methods. Acta Acustica, 2021, 5, 28.	1.0	3
14	On the Use of Perforated Sound Absorption Systems for Variable Acoustics Room Design. Buildings, 2021, 11, 543.	3.1	5
15	Evaluation of exposure to road traffic noise: Effects of microphone height and urban configuration. Environmental Research, 2020, 191, 110055.	7.5	8
16	Nonlinear analysis of interacting saturated porous and elastic media by time-domain FEM/BEM iterative coupling procedures. Engineering Analysis With Boundary Elements, 2020, 117, 299-308.	3.7	4
17	Hybrid Structures Made of Polyurethane/Graphene Nanocomposite Foams Embedded within Aluminum Open-Cell Foam. Metals, 2020, 10, 768.	2.3	22
18	Effect of parking lanes on assessing the impact of road traffic noise on building faÃ§ades. Environmental Research, 2020, 184, 109299.	7.5	10

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19	Influence of fish backbone model geometrical features on the numerical target strength of swimbladdered fish. ICES Journal of Marine Science, 2020, 77, 2870-2881.	2.5	5
20	3D FEM analysis of the effect of buried phononic crystal barriers on vibration mitigation. Engineering Structures, 2019, 196, 109340.	5.3	38
21	Characterization and physical properties of aluminium foamâ€“polydimethylsiloxane nanocomposite hybrid structures. Composite Structures, 2019, 230, 111521.	5.8	22
22	Adaptive Analysis of Acoustic-Elastodynamic Interacting Models Considering Frequency Domain MFS-FEM Coupled Formulations. Mathematical Problems in Engineering, 2019, 2019, 1-18.	1.1	0
23	Application of the method of fundamental solutions to predict the acoustic performance of T-shaped thin barriers. Engineering Analysis With Boundary Elements, 2019, 99, 142-156.	3.7	7
24	Bonding quality assessment of cross-layered Maritime pine elements glued with one-component polyurethane adhesive. Construction and Building Materials, 2019, 211, 571-582.	7.2	11
25	Numerical modelling of finite periodic arrays of acoustic resonators using an efficient 3D BEM model. Engineering Analysis With Boundary Elements, 2019, 102, 73-86.	3.7	7
26	Perforated panel absorbers with micro-perforated partitions. Applied Acoustics, 2019, 149, 108-113.	3.3	29
27	Mechanical, Thermal, and Acoustic Properties of Aluminum Foams Impregnated with Epoxy/Graphene Oxide Nanocomposites. Metals, 2019, 9, 1214.	2.3	12
28	The method of fundamental solutions for the analysis of infinite 3D sonic crystals. Engineering Analysis With Boundary Elements, 2019, 98, 172-183.	3.7	14
29	Acoustic behavior of porous concrete. Characterization by experimental and inversion methods. Materiales De Construccion, 2019, 69, 202.	0.7	12
30	NUMERICAL ANALYSIS OF BURIED VIBRATION PROTECTION DEVICES USING THE METHOD OF FUNDAMENTAL SOLUTIONS. , 2019, , .		0
31	An Efficient MFS Formulation for the Analysis of Acoustic Scattering by Periodic Structures. Journal of Theoretical and Computational Acoustics, 2018, 26, 1850003.	1.1	4
32	Assessment of methods to study the acoustic properties of heterogeneous perforated panel absorbers. Applied Acoustics, 2018, 133, 1-7.	3.3	14
33	Acoustic screening effect on building faÃ§ades due to parking lines in urban environments. Effects in noise mapping. Applied Acoustics, 2018, 130, 1-14.	3.3	22
34	Numerical analysis of the shielding effect provided by periodic elastic scatterers. MATEC Web of Conferences, 2018, 211, 13005.	0.2	0
35	Proposal of a simplified method for the prediction of impact sound insulation between rooms, from below to above. Noise Control Engineering Journal, 2018, 66, 276-286.	0.3	0
36	On the application of continuous buried periodic inclusions on the filtering of traffic vibrations: A numerical study. Soil Dynamics and Earthquake Engineering, 2018, 113, 391-405.	3.8	25

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37	Experimental validation of a FEM-MFS hybrid numerical approach for vibro-acoustic prediction. Applied Acoustics, 2018, 141, 79-92.	3.3	3
38	MFS analysis of the vibration filtering effect of periodic structures in elastic media. International Journal of Computational Methods and Experimental Measurements, 2018, 6, 1108-1119.	0.2	2
39	Numerical Simulation of Target Strength Measurements from Near to Far Field of Fish Using the Method of Fundamental Solutions. Acta Acustica United With Acustica, 2018, 104, 25-38.	0.8	8
40	Modeling of grooved acoustic panels. Applied Acoustics, 2017, 120, 9-14.	3.3	4
41	Prediction of Vibrations and Reradiated Noise Due to Railway Traffic: A Comprehensive Hybrid Model Based on a Finite Element Method and Method of Fundamental Solutions Approach. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	13
42	Mitigation of vibrations and re-radiated noise in buildings generated by railway traffic: a parametric study. Procedia Engineering, 2017, 199, 2627-2632.	1.2	9
43	Numerical simulation of soil-structure elastodynamic interaction using iterative-adaptive BEM-FEM coupled strategies. Engineering Analysis With Boundary Elements, 2017, 82, 141-161.	3.7	7
44	Heat conduction analysis by adaptive iterative BEM-FEM coupling procedures. Engineering Analysis With Boundary Elements, 2016, 73, 79-94.	3.7	7
45	Efficient analysis of sound propagation in sonic crystals using an ACAâ€“MFS approach. Engineering Analysis With Boundary Elements, 2016, 69, 72-85.	3.7	14
46	Three efficient numerical models to analyse the step problem in shallow water. Engineering Analysis With Boundary Elements, 2016, 62, 44-56.	3.7	0
47	Acoustic performance of timber and timber-concrete floors. Construction and Building Materials, 2015, 101, 684-691.	7.2	46
48	Modal Frequencies of a Reinforced Timber-Concrete Composite Floor: Testing and Modeling. Journal of Structural Engineering, 2015, 141, .	3.4	20
49	Numerical Analysis of Acoustic Barriers with a Diffusive Surface Using a 2.5D Boundary Element Model. Journal of Computational Acoustics, 2015, 23, 1550009.	1.0	8
50	Inelastic 2D analysis by adaptive iterative BEMâ€“FEM coupling procedures. Computers and Structures, 2015, 156, 134-148.	4.4	8
51	Special issue on coupling techniques. Engineering Analysis With Boundary Elements, 2015, 55, 1.	3.7	0
52	Meshless analysis of soilâ€“structure interaction using an MFSâ€“MLPG coupled approach. Engineering Analysis With Boundary Elements, 2015, 55, 80-92.	3.7	3
53	2.5D MFSâ€“FEM model for the prediction of vibrations due to underground railway traffic. Engineering Structures, 2015, 104, 141-154.	5.3	71
54	3D numerical modelling of acoustic horns using the method of fundamental solutions. Engineering Analysis With Boundary Elements, 2015, 51, 64-73.	3.7	7

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55	A finite element model of perforated panel absorbers including viscothermal effects. Applied Acoustics, 2015, 90, 1-8.	3.3	29
56	An ACA-MFS approach for the analysis of sound propagation in sonic crystals. WIT Transactions on Modelling and Simulation, 2015, , .	0.0	0
57	Advanced Techniques in Computational Mechanics. Journal of Applied Mathematics, 2014, 2014, 1-2.	0.9	0
58	An Efficient Technique for Surface Strain Recovery from Photogrammetric Data using Meshless Interpolation. Strain, 2014, 50, 132-146.	2.4	11
59	An Overview of Recent Advances in the Iterative Analysis of Coupled Models for Wave Propagation. Journal of Applied Mathematics, 2014, 2014, 1-21.	0.9	14
60	Formulation of Kansa's method in the frequency domain for the analysis of transient heat conduction. International Journal of Numerical Methods for Heat and Fluid Flow, 2014, 24, 1437-1453.	2.8	2
61	Assessment of a simplified experimental procedure to evaluate impact sound reduction of floor coverings. Applied Acoustics, 2014, 79, 92-103.	3.3	17
62	A model for acoustic absorbent materials derived from coconut fiber. Materiales De Construccion, 2014, 64, e008.	0.7	24
63	3D Analysis of the Sound Reduction Provided by Protective Surfaces Around a Noise Source. International Journal of Acoustics and Vibrations, 2014, 19, .	0.3	0
64	An efficient MFS model for the analysis of sonic crystals including fluidâ€“solid interaction. , 2014, , .		0
65	Numerical study towards the use of a SH wave ultrasonic-based strategy for crack detection in concrete structures. Engineering Structures, 2013, 49, 782-791.	5.3	10
66	A coupled MFSâ€“FEM model for 2-D dynamic soilâ€“structure interaction in the frequency domain. Computers and Structures, 2013, 129, 74-85.	4.4	15
67	On the use of lightweight mortars for the minimization of impact sound transmission. Construction and Building Materials, 2013, 45, 184-191.	7.2	42
68	Frequency domain analysis of interacting acousticâ€“elastodynamic models taking into account optimized iterative coupling of different numerical methods. Engineering Analysis With Boundary Elements, 2013, 37, 1074-1088.	3.7	11
69	Analytical Evaluation of the Acoustic Behavior of Multilayer Walls When Subjected to Three-Dimensional and Moving 2.5-Dimensional Loads. Journal of Vibration and Acoustics, Transactions of the ASME, 2013, 135, .	1.6	4
70	Numerical Evaluation of Sound Attenuation Provided by Periodic Structures. Archives of Acoustics, 2013, 38, 503-516.	0.8	14
71	Iterative coupling between the MFS and Kansaâ€™s method for acoustic problems. WIT Transactions on Modelling and Simulation, 2013, , .	0.0	2
72	Meshless analysis of soil-structure interaction using a MFS-MLPG coupled approach. , 2013, , .		0

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73	PREDICTION OF ACOUSTIC WAVE PROPAGATION IN A SHALLOW WATER CONFIGURATION USING THE METHOD OF FUNDAMENTAL SOLUTIONS. Journal of Computational Acoustics, 2012, 20, 1250013.	1.0	10
74	SOME OBSERVATIONS ON THE BEHAVIOR OF THE METHOD OF FUNDAMENTAL SOLUTIONS IN 3D ACOUSTIC PROBLEMS. International Journal of Computational Methods, 2012, 09, 1250049.	1.3	12
75	Evaluation of Impact Noise Reduction Using a Small-Sized Acoustic Chamber. Noise and Vibration Worldwide, 2012, 43, 11-16.	1.0	1
76	A Numerical MFS Model for Computational Analysis of Acoustic Horns. Acta Acustica United With Acustica, 2012, 98, 916-927.	0.8	7
77	Numerical Evaluation of the Vibration Reduction Index for Structural Joints. Archives of Acoustics, 2012, 37, .	0.8	2
78	An optimized BEMâ€“FEM iterative coupling algorithm for acousticâ€“elastodynamic interaction analyses in the frequency domain. Computers and Structures, 2012, 106-107, 68-80.	4.4	24
79	Acoustic analysis of heterogeneous domains coupling the BEM with Kansa's method. Engineering Analysis With Boundary Elements, 2012, 36, 1014-1026.	3.7	13
80	Simulation of sound absorption in 2D thin elements using a coupled BEM/TBEM formulation in the presence of fixed and moving 3D sources. Journal of Sound and Vibration, 2012, 331, 2386-2403.	3.9	11
81	Frequency domain analysis of acoustic wave propagation in heterogeneous media considering iterative coupling procedures between the method of fundamental solutions and Kansa's method. International Journal for Numerical Methods in Engineering, 2012, 89, 914-938.	2.8	15
82	Using a Dual-BEM formulation to model the sound pressure wavefield provided by absorbing thin screens attached to the walls of a duct. WIT Transactions on Modelling and Simulation, 2012, , .	0.0	0
83	A coupling strategy between the BEM and Kansaâ€™s method for acoustic analysis of heterogeneous media. WIT Transactions on Modelling and Simulation, 2012, , .	0.0	0
84	Coupled Numerical Methods in Engineering Analysis. Mathematical Problems in Engineering, 2011, 2011, 1-4.	1.1	2
85	3D Multi-Domain MFS Analysis of Sound Pressure Level Reduction Between Connected Enclosures. Archives of Acoustics, 2011, 36, .	0.8	4
86	Solution of time-domain acoustic wave propagation problems using a RBF interpolation model with â€œa prioriâ€•estimation of the free parameter. Wave Motion, 2011, 48, 423-440.	2.0	5
87	Efficient numerical models for the prediction of acoustic wave propagation in the vicinity of a wedge coastal region. Engineering Analysis With Boundary Elements, 2011, 35, 855-867.	3.7	14
88	A Hybrid Analytical-Numerical Model Based on the Method of Fundamental Solutions for the Analysis of Sound Scattering by Buried Shell Structures. Mathematical Problems in Engineering, 2011, 2011, 1-22.	1.1	2
89	On the use of a small-sized acoustic chamber for the analysis of impact sound reduction by floor coverings. Noise Control Engineering Journal, 2010, 58, .	0.3	12
90	2.5D BEM modeling of underwater sound scattering in the presence of a slippage interface separating two flat layered regions. Wave Motion, 2010, 47, 676-692.	2.0	12

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91	The acoustic behavior of concrete resonators incorporating absorbing materials. Noise Control Engineering Journal, 2010, 58, 27.	0.3	8
92	Numerical Simulation of Ground Rotations along 2D Topographical Profiles under the Incidence of Elastic Plane Waves. Bulletin of the Seismological Society of America, 2009, 99, 1147-1161.	2.3	34
93	Defining an accurate MFS solution for 2.5D acoustic and elastic wave propagation. Engineering Analysis With Boundary Elements, 2009, 33, 1383-1395.	3.7	23
94	A three-dimensional acoustics model using the method of fundamental solutions. Engineering Analysis With Boundary Elements, 2008, 32, 525-531.	3.7	33
95	Wave propagation in cracked elastic slabs and half-space domainsâ€"TBEM and MFS approaches. Engineering Analysis With Boundary Elements, 2007, 31, 819-835.	3.7	17
96	Sound pressure level attenuation provided by thin rigid screens coupled to tall buildings. Journal of Sound and Vibration, 2007, 304, 479-496.	3.9	19
97	Prediction of airborne sound and impact sound insulation provided by single and multilayer systems using analytical expressions. Applied Acoustics, 2007, 68, 17-42.	3.3	31
98	2.5D scattering of waves by rigid inclusions buried under a fluid channel via BEM. European Journal of Mechanics, A/Solids, 2005, 24, 957-973.	3.7	9
99	DYNAMIC RESPONSE OF A THREE-DIMENSIONAL FLUID CHANNEL BOUNDED BY AN ELASTIC FLOOR IN THE PRESENCE OF A SUBMERGED INCLUSION VIA BEM. Journal of Computational Acoustics, 2005, 13, 203-227.	1.0	4
100	Boundary element method analyses of transient heat conduction in an unbounded solid layer containing inclusions. Computational Mechanics, 2004, 34, 99.	4.0	10
101	Dynamic analysis of submerged fluid-filled pipelines subjected to a point pressure load. Journal of Sound and Vibration, 2004, 271, 257-277.	3.9	10
102	Acoustic insulation provided by circular and infinite plane walls. Journal of Sound and Vibration, 2004, 273, 681-691.	3.9	4
103	Study of transient heat conduction in 2.5D domains using the boundary element method. Engineering Analysis With Boundary Elements, 2004, 28, 593-606.	3.7	16
104	ACOUSTIC BEHAVIOR OF ELASTIC SCREENS IN OPEN AND CONFINED SPACES. , 2004, , .		0
105	WAVE SCATTERING BY A RIGID INCLUSION SUBMERGED IN A CHANNEL BOUNDED BY A SEDIMENT LAYER OVER A RIGID BOUNDARY. , 2004, , .		0
106	Analytical evaluation of the acoustic insulation provided by double infinite walls. Journal of Sound and Vibration, 2003, 263, 113-129.	3.9	50
107	Wave scattering by infinite cylindrical shell structures submerged in a fluid medium. Wave Motion, 2003, 38, 131-149.	2.0	10
108	Scattering of acoustic waves by movable lightweight elastic screens. Engineering Analysis With Boundary Elements, 2003, 27, 215-226.	3.7	13

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109	ACOUSTIC INSERTION LOSS PROVIDED BY RIGID ACOUSTIC BARRIERS OF DIFFERENT SHAPES. Journal of Computational Acoustics, 2003, 11, 503-519.	1.0	5
110	PROPAGATION OF PRESSURE WAVES INSIDE A FLUID CHANNEL WITH AN IRREGULAR FLOOR. Journal of Computational Acoustics, 2002, 10, 183-194.	1.0	5
111	Wave motion between two fluid-filled boreholes in an elastic medium. Engineering Analysis With Boundary Elements, 2002, 26, 101-117.	3.7	13
112	The scattering of 3D sound sources by rigid barriers in the vicinity of tall buildings. Engineering Analysis With Boundary Elements, 2002, 26, 781-787.	3.7	7
113	The importance of a small wall deformation in the three-dimensional acoustic logging results. Geophysical Journal International, 2002, 151, 403-415.	2.4	3
114	Sound propagation around rigid barriers laterally confined by tall buildings. Applied Acoustics, 2002, 63, 595-609.	3.3	16
115	Green's function for two-and-a-half dimensional elastodynamic problems in a half-space. Computational Mechanics, 2001, 27, 484-491.	4.0	35
116	Performance of the BEM solution in 3D acoustic wave scattering. Advances in Engineering Software, 2001, 32, 629-639.	3.8	16
117	3D acoustic scattering from an irregular fluid waveguide via the BEM. Engineering Analysis With Boundary Elements, 2001, 25, 443-453.	3.7	15
118	APPLICATIONS OF THE GREEN FUNCTIONS IN THE STUDY OF ACOUSTIC PROBLEMS IN OPEN AND CLOSED SPACES. Journal of Sound and Vibration, 2001, 247, 117-130.	3.9	2
119	3D sound scattering by rigid barriers in the vicinity of tall buildings. Applied Acoustics, 2001, 62, 1229-1248.	3.3	27
120	ACOUSTIC SCATTERING FROM A 2-D FLUID WAVEGUIDE WITH AN IRREGULAR FLOOR VIA THE BEM. Journal of Computational Acoustics, 2001, 09, 367-380.	1.0	5
121	Frequency and Time Numerical Solutions of 3D Sound Propagation in Open and Closed Spaces. Building Acoustics, 2000, 7, 247-261.	1.9	1
122	Three-dimensional wave scattering by a fixed cylindrical inclusion submerged in a fluid medium. Engineering Analysis With Boundary Elements, 1999, 23, 745-755.	3.7	18
123	Damage Detection on Timber Floorsâ€™ Supports through Dynamic Analysis. International Journal of Architectural Heritage, 0, , 1-10.	3.1	0
124	An Efficient MFS Formulation for the Analysis of Acoustic Scattering by Periodic Structures. Journal of Computational Acoustics, 0, , 1850003.	1.0	0
125	A Local Radial Basis Function Interpolation Model to Simulate Time-Domain Acoustic Wave Propagation. , 0, , .		0
126	Sound Emission from a Three-Dimensional Enclosure with an Opening using a Boundary Element Method. , 0, , .		0