

LuÃ-s Godinho

List of Publications by Year in descending order

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126
papers

1,387
citations

394421

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128
docs citations

128
times ranked

951
citing authors

#	ARTICLE	IF	CITATIONS
1	2.5D MFSâ€FEM model for the prediction of vibrations due to underground railway traffic. <i>Engineering Structures</i> , 2015, 104, 141-154.	5.3	71
2	Analytical evaluation of the acoustic insulation provided by double infinite walls. <i>Journal of Sound and Vibration</i> , 2003, 263, 113-129.	3.9	50
3	Acoustic performance of timber and timber-concrete floors. <i>Construction and Building Materials</i> , 2015, 101, 684-691.	7.2	46
4	On the use of lightweight mortars for the minimization of impact sound transmission. <i>Construction and Building Materials</i> , 2013, 45, 184-191.	7.2	42
5	3D FEM analysis of the effect of buried phononic crystal barriers on vibration mitigation. <i>Engineering Structures</i> , 2019, 196, 109340.	5.3	38
6	Green's function for two-and-a-half dimensional elastodynamic problems in a half-space. <i>Computational Mechanics</i> , 2001, 27, 484-491.	4.0	35
7	Numerical Simulation of Ground Rotations along 2D Topographical Profiles under the Incidence of Elastic Plane Waves. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 1147-1161.	2.3	34
8	A three-dimensional acoustics model using the method of fundamental solutions. <i>Engineering Analysis With Boundary Elements</i> , 2008, 32, 525-531.	3.7	33
9	Prediction of airborne sound and impact sound insulation provided by single and multilayer systems using analytical expressions. <i>Applied Acoustics</i> , 2007, 68, 17-42.	3.3	31
10	A finite element model of perforated panel absorbers including viscothermal effects. <i>Applied Acoustics</i> , 2015, 90, 1-8.	3.3	29
11	Perforated panel absorbers with micro-perforated partitions. <i>Applied Acoustics</i> , 2019, 149, 108-113.	3.3	29
12	3D sound scattering by rigid barriers in the vicinity of tall buildings. <i>Applied Acoustics</i> , 2001, 62, 1229-1248.	3.3	27
13	On the application of continuous buried periodic inclusions on the filtering of traffic vibrations: A numerical study. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 113, 391-405.	3.8	25
14	An optimized BEMâ€FEM iterative coupling algorithm for acousticâ€elastodynamic interaction analyses in the frequency domain. <i>Computers and Structures</i> , 2012, 106-107, 68-80.	4.4	24
15	A model for acoustic absorbent materials derived from coconut fiber. <i>Materiales De Construccion</i> , 2014, 64, e008.	0.7	24
16	Defining an accurate MFS solution for 2.5D acoustic and elastic wave propagation. <i>Engineering Analysis With Boundary Elements</i> , 2009, 33, 1383-1395.	3.7	23
17	Acoustic screening effect on building faÃ§ades due to parking lines in urban environments. Effects in noise mapping. <i>Applied Acoustics</i> , 2018, 130, 1-14.	3.3	22
18	Characterization and physical properties of aluminium foamâ€polydimethylsiloxane nanocomposite hybrid structures. <i>Composite Structures</i> , 2019, 230, 111521.	5.8	22

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19	Hybrid Structures Made of Polyurethane/Graphene Nanocomposite Foams Embedded within Aluminum Open-Cell Foam. <i>Metals</i> , 2020, 10, 768.	2.3	22
20	Modal Frequencies of a Reinforced Timber-Concrete Composite Floor: Testing and Modeling. <i>Journal of Structural Engineering</i> , 2015, 141, .	3.4	20
21	Sound pressure level attenuation provided by thin rigid screens coupled to tall buildings. <i>Journal of Sound and Vibration</i> , 2007, 304, 479-496.	3.9	19
22	Three-dimensional wave scattering by a fixed cylindrical inclusion submerged in a fluid medium. <i>Engineering Analysis With Boundary Elements</i> , 1999, 23, 745-755.	3.7	18
23	Wave propagation in cracked elastic slabs and half-space domains – TDEM and MFS approaches. <i>Engineering Analysis With Boundary Elements</i> , 2007, 31, 819-835.	3.7	17
24	Assessment of a simplified experimental procedure to evaluate impact sound reduction of floor coverings. <i>Applied Acoustics</i> , 2014, 79, 92-103.	3.3	17
25	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. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 150, 106888.	3.8	17
26	Performance of the BEM solution in 3D acoustic wave scattering. <i>Advances in Engineering Software</i> , 2001, 32, 629-639.	3.8	16
27	Sound propagation around rigid barriers laterally confined by tall buildings. <i>Applied Acoustics</i> , 2002, 63, 595-609.	3.3	16
28	Study of transient heat conduction in 2.5D domains using the boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2004, 28, 593-606.	3.7	16
29	3D acoustic scattering from an irregular fluid waveguide via the BEM. <i>Engineering Analysis With Boundary Elements</i> , 2001, 25, 443-453.	3.7	15
30	Frequency domain analysis of acoustic wave propagation in heterogeneous media considering iterative coupling procedures between the method of fundamental solutions and Kansa's method. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 89, 914-938.	2.8	15
31	A coupled MFS – FEM model for 2-D dynamic soil – structure interaction in the frequency domain. <i>Computers and Structures</i> , 2013, 129, 74-85.	4.4	15
32	Proposal of numerical models to predict the diffuse field sound absorption of finite sized porous materials – BEM and FEM approaches. <i>Applied Acoustics</i> , 2021, 180, 108092.	3.3	15
33	Efficient numerical models for the prediction of acoustic wave propagation in the vicinity of a wedge coastal region. <i>Engineering Analysis With Boundary Elements</i> , 2011, 35, 855-867.	3.7	14
34	Numerical Evaluation of Sound Attenuation Provided by Periodic Structures. <i>Archives of Acoustics</i> , 2013, 38, 503-516.	0.8	14
35	An Overview of Recent Advances in the Iterative Analysis of Coupled Models for Wave Propagation. <i>Journal of Applied Mathematics</i> , 2014, 2014, 1-21.	0.9	14
36	Efficient analysis of sound propagation in sonic crystals using an ACA – MFS approach. <i>Engineering Analysis With Boundary Elements</i> , 2016, 69, 72-85.	3.7	14

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37	Assessment of methods to study the acoustic properties of heterogeneous perforated panel absorbers. <i>Applied Acoustics</i> , 2018, 133, 1-7.	3.3	14
38	The method of fundamental solutions for the analysis of infinite 3D sonic crystals. <i>Engineering Analysis With Boundary Elements</i> , 2019, 98, 172-183.	3.7	14
39	Life cycle analysis of cross-insulated timber panels. <i>Structures</i> , 2021, 31, 1311-1324.	3.6	14
40	Wave motion between two fluid-filled boreholes in an elastic medium. <i>Engineering Analysis With Boundary Elements</i> , 2002, 26, 101-117.	3.7	13
41	Scattering of acoustic waves by movable lightweight elastic screens. <i>Engineering Analysis With Boundary Elements</i> , 2003, 27, 215-226.	3.7	13
42	Acoustic analysis of heterogeneous domains coupling the BEM with Kansa's method. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 1014-1026.	3.7	13
43	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. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2017, 139, .	1.6	13
44	On the use of a small-sized acoustic chamber for the analysis of impact sound reduction by floor coverings. <i>Noise Control Engineering Journal</i> , 2010, 58, .	0.3	12
45	2.5D BEM modeling of underwater sound scattering in the presence of a slippage interface separating two flat layered regions. <i>Wave Motion</i> , 2010, 47, 676-692.	2.0	12
46	SOME OBSERVATIONS ON THE BEHAVIOR OF THE METHOD OF FUNDAMENTAL SOLUTIONS IN 3D ACOUSTIC PROBLEMS. <i>International Journal of Computational Methods</i> , 2012, 09, 1250049.	1.3	12
47	Mechanical, Thermal, and Acoustic Properties of Aluminum Foams Impregnated with Epoxy/Graphene Oxide Nanocomposites. <i>Metals</i> , 2019, 9, 1214.	2.3	12
48	Acoustic behavior of porous concrete. Characterization by experimental and inversion methods. <i>Materiales De Construccion</i> , 2019, 69, 202.	0.7	12
49	Simulation of sound absorption in 2D thin elements using a coupled BEM/TBEM formulation in the presence of fixed and moving 3D sources. <i>Journal of Sound and Vibration</i> , 2012, 331, 2386-2403.	3.9	11
50	Frequency domain analysis of interacting acoustic-elastic models taking into account optimized iterative coupling of different numerical methods. <i>Engineering Analysis With Boundary Elements</i> , 2013, 37, 1074-1088.	3.7	11
51	An Efficient Technique for Surface Strain Recovery from Photogrammetric Data using Meshless Interpolation. <i>Strain</i> , 2014, 50, 132-146.	2.4	11
52	Bonding quality assessment of cross-layered Maritime pine elements glued with one-component polyurethane adhesive. <i>Construction and Building Materials</i> , 2019, 211, 571-582.	7.2	11
53	Wave scattering by infinite cylindrical shell structures submerged in a fluid medium. <i>Wave Motion</i> , 2003, 38, 131-149.	2.0	10
54	Boundary element method analyses of transient heat conduction in an unbounded solid layer containing inclusions. <i>Computational Mechanics</i> , 2004, 34, 99.	4.0	10

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55	Dynamic analysis of submerged fluid-filled pipelines subjected to a point pressure load. <i>Journal of Sound and Vibration</i> , 2004, 271, 257-277.	3.9	10
56	PREDICTION OF ACOUSTIC WAVE PROPAGATION IN A SHALLOW WATER CONFIGURATION USING THE METHOD OF FUNDAMENTAL SOLUTIONS. <i>Journal of Computational Acoustics</i> , 2012, 20, 1250013.	1.0	10
57	Numerical study towards the use of a SH wave ultrasonic-based strategy for crack detection in concrete structures. <i>Engineering Structures</i> , 2013, 49, 782-791.	5.3	10
58	Effect of parking lanes on assessing the impact of road traffic noise on building façades. <i>Environmental Research</i> , 2020, 184, 109299.	7.5	10
59	2.5D scattering of waves by rigid inclusions buried under a fluid channel via BEM. <i>European Journal of Mechanics, A/Solids</i> , 2005, 24, 957-973.	3.7	9
60	Mitigation of vibrations and re-radiated noise in buildings generated by railway traffic: a parametric study. <i>Procedia Engineering</i> , 2017, 199, 2627-2632.	1.2	9
61	The acoustic behavior of concrete resonators incorporating absorbing materials. <i>Noise Control Engineering Journal</i> , 2010, 58, 27.	0.3	8
62	Numerical Analysis of Acoustic Barriers with a Diffusive Surface Using a 2.5D Boundary Element Model. <i>Journal of Computational Acoustics</i> , 2015, 23, 1550009.	1.0	8
63	Inelastic 2D analysis by adaptive iterative BEM-FEM coupling procedures. <i>Computers and Structures</i> , 2015, 156, 134-148.	4.4	8
64	Evaluation of exposure to road traffic noise: Effects of microphone height and urban configuration. <i>Environmental Research</i> , 2020, 191, 110055.	7.5	8
65	Improving the sound absorption behaviour of porous concrete using embedded resonant structures. <i>Journal of Building Engineering</i> , 2021, 35, 102015.	3.4	8
66	An XFEM multilayered heaviside enrichment for fracture propagation with reduced enhanced degrees of freedom. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 3425-3447.	2.8	8
67	Numerical Simulation of Target Strength Measurements from Near to Far Field of Fish Using the Method of Fundamental Solutions. <i>Acta Acustica United With Acustica</i> , 2018, 104, 25-38.	0.8	8
68	The scattering of 3D sound sources by rigid barriers in the vicinity of tall buildings. <i>Engineering Analysis With Boundary Elements</i> , 2002, 26, 781-787.	3.7	7
69	A Numerical MFS Model for Computational Analysis of Acoustic Horns. <i>Acta Acustica United With Acustica</i> , 2012, 98, 916-927.	0.8	7
70	3D numerical modelling of acoustic horns using the method of fundamental solutions. <i>Engineering Analysis With Boundary Elements</i> , 2015, 51, 64-73.	3.7	7
71	Heat conduction analysis by adaptive iterative BEM-FEM coupling procedures. <i>Engineering Analysis With Boundary Elements</i> , 2016, 73, 79-94.	3.7	7
72	Numerical simulation of soil-structure elastodynamic interaction using iterative-adaptive BEM-FEM coupled strategies. <i>Engineering Analysis With Boundary Elements</i> , 2017, 82, 141-161.	3.7	7

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73	Application of the method of fundamental solutions to predict the acoustic performance of T-shaped thin barriers. <i>Engineering Analysis With Boundary Elements</i> , 2019, 99, 142-156.	3.7	7
74	Numerical modelling of finite periodic arrays of acoustic resonators using an efficient 3D BEM model. <i>Engineering Analysis With Boundary Elements</i> , 2019, 102, 73-86.	3.7	7
75	Performance of Low-Height Railway Noise Barriers with Porous Materials. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2960.	2.5	7
76	Numerical modelling for prediction of ground-borne vibrations induced by pile driving. <i>Engineering Structures</i> , 2021, 242, 112533.	5.3	6
77	ACOUSTIC SCATTERING FROM A 2-D FLUID WAVEGUIDE WITH AN IRREGULAR FLOOR VIA THE BEM. <i>Journal of Computational Acoustics</i> , 2001, 09, 367-380.	1.0	5
78	PROPAGATION OF PRESSURE WAVES INSIDE A FLUID CHANNEL WITH AN IRREGULAR FLOOR. <i>Journal of Computational Acoustics</i> , 2002, 10, 183-194.	1.0	5
79	ACOUSTIC INSERTION LOSS PROVIDED BY RIGID ACOUSTIC BARRIERS OF DIFFERENT SHAPES. <i>Journal of Computational Acoustics</i> , 2003, 11, 503-519.	1.0	5
80	Solution of time-domain acoustic wave propagation problems using a RBF interpolation model with a priori estimation of the free parameter. <i>Wave Motion</i> , 2011, 48, 423-440.	2.0	5
81	Influence of fish backbone model geometrical features on the numerical target strength of swimbladdered fish. <i>ICES Journal of Marine Science</i> , 2020, 77, 2870-2881.	2.5	5
82	On the Use of Perforated Sound Absorption Systems for Variable Acoustics Room Design. <i>Buildings</i> , 2021, 11, 543.	3.1	5
83	Acoustic insulation provided by circular and infinite plane walls. <i>Journal of Sound and Vibration</i> , 2004, 273, 681-691.	3.9	4
84	DYNAMIC RESPONSE OF A THREE-DIMENSIONAL FLUID CHANNEL BOUNDED BY AN ELASTIC FLOOR IN THE PRESENCE OF A SUBMERGED INCLUSION VIA BEM. <i>Journal of Computational Acoustics</i> , 2005, 13, 203-227.	1.0	4
85	3D Multi-Domain MFS Analysis of Sound Pressure Level Reduction Between Connected Enclosures. <i>Archives of Acoustics</i> , 2011, 36, .	0.8	4
86	Analytical Evaluation of the Acoustic Behavior of Multilayer Walls When Subjected to Three-Dimensional and Moving 2.5-Dimensional Loads. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013, 135, .	1.6	4
87	Modeling of grooved acoustic panels. <i>Applied Acoustics</i> , 2017, 120, 9-14.	3.3	4
88	An Efficient MFS Formulation for the Analysis of Acoustic Scattering by Periodic Structures. <i>Journal of Theoretical and Computational Acoustics</i> , 2018, 26, 1850003.	1.1	4
89	Nonlinear analysis of interacting saturated porous and elastic media by time-domain FEM/BEM iterative coupling procedures. <i>Engineering Analysis With Boundary Elements</i> , 2020, 117, 299-308.	3.7	4
90	Experimental and numerical assessment of a cross-insulated timber panel solution. <i>Engineering Structures</i> , 2021, 235, 112061.	5.3	4

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91	The importance of a small wall deformation in the three-dimensional acoustic logging results. <i>Geophysical Journal International</i> , 2002, 151, 403-415.	2.4	3
92	Meshless analysis of soil-structure interaction using an MFS-MLPG coupled approach. <i>Engineering Analysis With Boundary Elements</i> , 2015, 55, 80-92.	3.7	3
93	Experimental validation of a FEM-MFS hybrid numerical approach for vibro-acoustic prediction. <i>Applied Acoustics</i> , 2018, 141, 79-92.	3.3	3
94	Normal incidence sound insulation provided by Sonic Crystal Acoustic Screens made from rigid scatterers - assessment of different simulation methods. <i>Acta Acustica</i> , 2021, 5, 28.	1.0	3
95	APPLICATIONS OF THE GREEN FUNCTIONS IN THE STUDY OF ACOUSTIC PROBLEMS IN OPEN AND CLOSED SPACES. <i>Journal of Sound and Vibration</i> , 2001, 247, 117-130.	3.9	2
96	Coupled Numerical Methods in Engineering Analysis. <i>Mathematical Problems in Engineering</i> , 2011, 2011, 1-4.	1.1	2
97	A Hybrid Analytical-Numerical Model Based on the Method of Fundamental Solutions for the Analysis of Sound Scattering by Buried Shell Structures. <i>Mathematical Problems in Engineering</i> , 2011, 2011, 1-22.	1.1	2
98	Numerical Evaluation of the Vibration Reduction Index for Structural Joints. <i>Archives of Acoustics</i> , 2012, 37, .	0.8	2
99	Formulation of Kansa's method in the frequency domain for the analysis of transient heat conduction. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2014, 24, 1437-1453.	2.8	2
100	Acoustic and thermal behaviour of cross-insulated timber panels. <i>Journal of Building Engineering</i> , 2021, 44, 103309.	3.4	2
101	MFS analysis of the vibration filtering effect of periodic structures in elastic media. <i>International Journal of Computational Methods and Experimental Measurements</i> , 2018, 6, 1108-1119.	0.2	2
102	Iterative coupling between the MFS and Kansa's method for acoustic problems. <i>WIT Transactions on Modelling and Simulation</i> , 2013, .	0.0	2
103	Frequency and Time Numerical Solutions of 3D Sound Propagation in Open and Closed Spaces. <i>Building Acoustics</i> , 2000, 7, 247-261.	1.9	1
104	Evaluation of Impact Noise Reduction Using a Small-Sized Acoustic Chamber. <i>Noise and Vibration Worldwide</i> , 2012, 43, 11-16.	1.0	1
105	Nonlinear porodynamic analysis by adaptive semi-explicit/explicit time marching formulations. <i>Acta Geotechnica</i> , 2021, 16, 1879-1894.	5.7	1
106	A Simple Method to Estimate the In Situ Performance of Noise Barriers. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 7027.	2.5	1
107	Advanced Techniques in Computational Mechanics. <i>Journal of Applied Mathematics</i> , 2014, 2014, 1-2.	0.9	0
108	Special issue on coupling techniques. <i>Engineering Analysis With Boundary Elements</i> , 2015, 55, 1.	3.7	0

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109	Three efficient numerical models to analyse the step problem in shallow water. Engineering Analysis With Boundary Elements, 2016, 62, 44-56.	3.7	0
110	Damage Detection on Timber Floorsâ€™ Supports through Dynamic Analysis. International Journal of Architectural Heritage, 0, , 1-10.	3.1	0
111	An Efficient MFS Formulation for the Analysis of Acoustic Scattering by Periodic Structures. Journal of Computational Acoustics, 0, , 1850003.	1.0	0
112	Numerical analysis of the shielding effect provided by periodic elastic scatterers. MATEC Web of Conferences, 2018, 211, 13005.	0.2	0
113	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
114	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
115	Locally-enriched procedure to simulate acoustic wave propagation in discontinuous media. Journal of Sound and Vibration, 2021, 500, 116038.	3.9	0
116	ACOUSTIC BEHAVIOR OF ELASTIC SCREENS IN OPEN AND CONFINED SPACES. , 2004, , .		0
117	WAVE SCATTERING BY A RIGID INCLUSION SUBMERGED IN A CHANNEL BOUNDED BY A SEDIMENT LAYER OVER A RIGID BOUNDARY. , 2004, , .		0
118	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
119	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
120	Meshless analysis of soil-structure interaction using a MFS-MLPG coupled approach. , 2013, , .		0
121	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
122	An efficient MFS model for the analysis of sonic crystals including fluidâ€™solid interaction. , 2014, , .		0
123	An ACA-MFS approach for the analysis of sound propagation in sonic crystals. WIT Transactions on Modelling and Simulation, 2015, , .	0.0	0
124	NUMERICAL ANALYSIS OF BURIED VIBRATION PROTECTION DEVICES USING THE METHOD OF FUNDAMENTAL SOLUTIONS. , 2019, , .		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