List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Bending and free vibration analysis of functionally graded graphene vs. carbon nanotube reinforced composite plates. Composite Structures, 2018, 186, 123-138.	3.1	142
2	Recent Advances and Emerging Applications of the Boundary Element Method. Applied Mechanics Reviews, 2011, 64, .	4.5	121
3	Fracture of magnetoelectroelastic composite materials using boundary element method (BEM). Theoretical and Applied Fracture Mechanics, 2007, 47, 192-204.	2.1	76
4	Anisotropic and piezoelectric materials fracture analysis by BEM. Computers and Structures, 2005, 83, 804-820.	2.4	72
5	Hypersingular quarter-point boundary elements for crack problems. International Journal for Numerical Methods in Engineering, 1995, 38, 1681-1701.	1.5	68
6	Buckling analysis of functionally graded carbon nanotube-reinforced curved panels under axial compression and shear. Composites Part B: Engineering, 2017, 108, 243-256.	5.9	64
7	Eshelby-Mori-Tanaka approach for post-buckling analysis of axially compressed functionally graded CNT/polymer composite cylindrical panels. Composites Part B: Engineering, 2017, 128, 208-224.	5.9	54
8	2-D transient dynamic analysis of cracked piezoelectric solids by a time-domain BEM. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 3108-3121.	3.4	52
9	3D mixed micromechanics-FEM modeling of piezoresistive carbon nanotube smart concrete. Computer Methods in Applied Mechanics and Engineering, 2018, 340, 396-423.	3.4	52
10	Metamodel-based approach for stochastic free vibration analysis of functionally graded carbon nanotube reinforced plates. Composite Structures, 2016, 152, 183-198.	3.1	47
11	Three-dimensional Green's function and its derivative for materials with general anisotropic magneto-electro-elastic coupling. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 515-537.	1.0	43
12	Fracture in magnetoelectroelastic materials using the extended finite element method. International Journal for Numerical Methods in Engineering, 2011, 88, 1238-1259.	1.5	40
13	A comparative study of three boundary element approaches to transient dynamic crack problems. Engineering Analysis With Boundary Elements, 1994, 13, 11-19.	2.0	39
14	Traction boundary elements for cracks in anisotropic solids. Engineering Analysis With Boundary Elements, 2004, 28, 667-676.	2.0	39
15	New anisotropic crack-tip enrichment functions for the extended finite element method. Computational Mechanics, 2012, 50, 591-601.	2.2	39
16	A two-dimensional time-domain boundary element method for dynamic crack problems in anisotropic solids. Engineering Fracture Mechanics, 2008, 75, 1412-1430.	2.0	36
17	A 2D time-domain collocation-Galerkin BEM for dynamic crack analysis in piezoelectric solids. Engineering Analysis With Boundary Elements, 2010, 34, 377-387.	2.0	36
18	BEM analysis of wave scattering in transversely isotropic solids. International Journal for Numerical Methods in Engineering, 1999, 44, 1283-1300.	1.5	35

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19	Three-dimensional fracture analysis in transversely isotropic solids. Engineering Analysis With Boundary Elements, 1997, 20, 287-298.	2.0	34
20	Structural safety assessment of geometrically complex masonry vaults by non-linear analysis. The Chapel of the Würzburg Residence (Germany). Engineering Structures, 2017, 140, 1-13.	2.6	34
21	Hypersingular BEM for dynamic fracture in 2-D piezoelectric solids. Computer Methods in Applied Mechanics and Engineering, 2006, 196, 235-246.	3.4	33
22	Time-harmonic Green's functions for anisotropic magnetoelectroelasticity. International Journal of Solids and Structures, 2008, 45, 144-158.	1.3	32
23	Dynamic crack analysis in piezoelectric solids with non-linear electrical and mechanical boundary conditions by a time-domain BEM. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2848-2858.	3.4	32
24	Vertical Crowd–Structure Interaction Model to Analyze the Change of the Modal Properties of a Footbridge. Journal of Bridge Engineering, 2016, 21, .	1.4	32
25	Analysis of cracked magnetoelectroelastic composites under time-harmonic loading. International Journal of Solids and Structures, 2010, 47, 71-80.	1.3	31
26	Transient dynamic crack analysis in linear magnetoelectroelastic solids by a hypersingular time-domain BEM. European Journal of Mechanics, A/Solids, 2012, 32, 118-130.	2.1	31
27	A singular element for three-dimensional fracture mechanics analysis. Engineering Analysis With Boundary Elements, 1997, 20, 275-285.	2.0	30
28	Two-dimensional time-harmonic BEM for cracked anisotropic solids. Engineering Analysis With Boundary Elements, 2006, 30, 88-99.	2.0	29
29	Dynamic 3D axisymmetric problems in continuously non-homogeneous piezoelectric solids. International Journal of Solids and Structures, 2008, 45, 4523-4542.	1.3	29
30	A high-order theory of a thermoelastic beams and its application to the MEMS/NEMS analysis and simulations. Archive of Applied Mechanics, 2016, 86, 1255-1272.	1.2	28
31	Indentation response of piezoelectric films under frictional contact. International Journal of Engineering Science, 2016, 107, 36-53.	2.7	27
32	Dual BEM analysis of different crack face boundary conditions in 2D magnetoelectroelastic solids. European Journal of Mechanics, A/Solids, 2012, 31, 152-162.	2.1	25
33	Design of polymeric auxetic matrices for improved mechanical coupling in lead-free piezocomposites. Smart Materials and Structures, 2020, 29, 054002.	1.8	24
34	3D frictional contact of anisotropic solids using BEM. European Journal of Mechanics, A/Solids, 2011, 30, 95-104.	2.1	23
35	High-order theory for arched structures and its application for the study of the electrostatically actuated MEMS devices. Archive of Applied Mechanics, 2014, 84, 1037-1055.	1.2	23
36	CNT-polymer nanocomposites under frictional contact conditions. Composites Part B: Engineering, 2018, 154, 114-127.	5.9	22

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37	Improving the performance of lead-free piezoelectric composites by using polycrystalline inclusions and tuning the dielectric matrix environment. Smart Materials and Structures, 2019, 28, 075032.	1.8	22
38	A collaborative machine learning-optimization algorithm to improve the finite element model updating of civil engineering structures. Engineering Structures, 2020, 225, 111327.	2.6	22
39	Crack detection and localization in RC beams through smart MWCNT/epoxy strip-like strain sensors. Smart Materials and Structures, 2018, 27, 115022.	1.8	21
40	Lead-free piezocomposites with CNT-modified matrices: Accounting for agglomerations and molecular defects. Composite Structures, 2019, 224, 111033.	3.1	21
41	Finite-element-model updating of civil engineering structures using a hybrid UKF-HS algorithm. Structure and Infrastructure Engineering, 2021, 17, 620-637.	2.0	21
42	3D BEM for orthotropic frictional contact of piezoelectric bodies. Computational Mechanics, 2015, 56, 491-502.	2.2	20
43	3D coupled multifield magneto-electro-elastic contact modelling. International Journal of Mechanical Sciences, 2016, 114, 35-51.	3.6	19
44	Far field dynamic Green's functions for BEM in transversely isotropic solids. Wave Motion, 2000, 32, 113-123.	1.0	18
45	Dynamic crack problems in three-dimensional transversely isotropic solids. Engineering Analysis With Boundary Elements, 2001, 25, 203-210.	2.0	18
46	Design of lead-free PVDF/CNT/BaTiO ₃ piezocomposites for sensing and energy harvesting: the role of polycrystallinity, nanoadditives, and anisotropy. Smart Materials and Structures, 2020, 29, 015021.	1.8	18
47	MWCNT/epoxy strip-like sensors for buckling detection in beam-like structures. Thin-Walled Structures, 2018, 133, 27-41.	2.7	17
48	Analysis of FRP composites under frictional contact conditions. International Journal of Solids and Structures, 2013, 50, 3947-3959.	1.3	16
49	3D explicit-BEM fracture analysis for materials with anisotropic multifield coupling. Applied Mathematical Modelling, 2016, 40, 2897-2912.	2.2	15
50	Dynamic crack analysis in piezoelectric solids under time-harmonic loadings with a symmetric Galerkin boundary element method. Engineering Analysis With Boundary Elements, 2017, 84, 141-153.	2.0	15
51	Robust Optimum Design of Tuned Mass Dampers to Mitigate Pedestrian-Induced Vibrations Using Multi-Objective Genetic Algorithms. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2017, 27, 492-501.	0.5	15
52	Dynamic analysis of interfacial crack problems in anisotropic bi-materials by a time-domain BEM. Engineering Fracture Mechanics, 2009, 76, 1996-2010.	2.0	14
53	Fracture analysis of plane piezoelectric/piezomagnetic multiphase composites under transient loading. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2931-2942.	3.4	14
54	Design of nano-modified PVDF matrices for lead-free piezocomposites: Graphene vs carbon nanotube nano-additions. Mechanics of Materials, 2020, 142, 103275.	1.7	14

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55	On two hypersingular time-domain BEM for dynamic crack analysis in 2D anisotropic elastic solids. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 2812-2824.	3.4	13
56	A direct pedestrian-structure interaction model to characterize the human induced vibrations on slender footbridges. Informes De La Construccion, 2014, 66, m007.	0.1	13
57	Dynamic crack interactions in magnetoelectroelastic composite materials. International Journal of Fracture, 2009, 157, 119-130.	1.1	12
58	Controlling the Human-Induced Longitudinal Vibrations of a Nielsen-Truss Footbridge Via the Modification of Its Natural Frequencies. International Journal of Structural Stability and Dynamics, 2017, 17, 1750061.	1.5	12
59	The influences of non-linear electrical, magnetic and mechanical boundary conditions on the dynamic intensity factors of magnetoelectroelastic solids. Engineering Fracture Mechanics, 2013, 97, 297-313.	2.0	11
60	Unique and Explicit Formulas for Green's Function in Three-Dimensional Anisotropic Linear Elasticity. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	11
61	Multiple pole residue approach for 3D BEM analysis of mathematical degenerate and nonâ€degenerate materials. International Journal for Numerical Methods in Engineering, 2011, 86, 1125-1143.	1.5	10
62	Size dependent electro-elastic enhancement in geometrically anisotropic lead-free piezocomposites. International Journal of Mechanical Sciences, 2020, 182, 105745.	3.6	10
63	Crack identification in magnetoelectroelastic materials using neural networks, self-organizing algorithms and boundary element method. Computers and Structures, 2013, 125, 187-199.	2.4	9
64	Model Updating for the Selection of an Ancient Bridge Retrofitting Method in Almeria, Spain. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2016, 26, 17-26.	0.5	9
65	Crack-induced electrical resistivity changes in cracked CNT-reinforced composites. Theoretical and Applied Fracture Mechanics, 2020, 106, 102470.	2.1	9
66	Motion-Based Design of Passive Damping Devices to Mitigate Wind-Induced Vibrations in Stay Cables. Vibration, 2018, 1, 269-289.	0.9	8
67	Maximum Likelihood Finite-Element Model Updating of Civil Engineering Structures Using Nature-Inspired Computational Algorithms. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2021, 31, 326-338.	0.5	8
68	Multiscale design of nanoengineered matrices for lead-free piezocomposites: Improved performance via controlling auxeticity and anisotropy. Composite Structures, 2021, 255, 112909.	3.1	8
69	XFEM crack growth virtual monitoring in self-sensing CNT reinforced polymer nanocomposite plates using ANSYS. Composite Structures, 2022, 284, 115137.	3.1	8
70	Analysis of anisotropic Kirchhoff plates using a novel hypersingular BEM. Computational Mechanics, 2012, 49, 629-641.	2.2	7
71	A formalism for anisotropic heat transfer phenomena: Foundations and Green's functions. International Journal of Heat and Mass Transfer, 2014, 75, 399-409.	2.5	7
72	Control of structural intervention in the area of the Roman Theatre of Cadiz (Spain) by using non-destructive techniques. Construction and Building Materials, 2015, 101, 572-583.	3.2	7

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73	Crack-face frictional contact modelling in cracked piezoelectric materials. Computational Mechanics, 2019, 64, 1655-1667.	2.2	7
74	Advanced modeling of lead-free piezocomposites: The role of nonlocal and nonlinear effects. Composite Structures, 2020, 238, 111967.	3.1	7
75	Damage identification in multifield materials using neural networks. Inverse Problems in Science and Engineering, 2013, 21, 929-944.	1.2	6
76	Effect of Vinyl Flooring on the Modal Properties of a Steel Footbridge. Applied Sciences (Switzerland), 2019, 9, 1374.	1.3	6
77	Lateral crowdâ€structure interaction model to analyse the change of the modal properties of footbridges. Structural Control and Health Monitoring, 2019, 26, e2356.	1.9	6
78	The Repair of the Structure of Santiago's Church (Jerez De La Frontera, Spain) Using Grout-Injection. International Journal of Architectural Heritage, 2019, 13, 1234-1251.	1.7	5
79	Buckling design of submerged arches via shape parameterization. Computational and Mathematical Methods, 2019, 1, e1057.	0.3	5
80	Analytical expressions to estimate the effective piezoelectric tensor of a textured polycrystal for any crystal symmetry. Mechanics of Materials, 2020, 151, 103604.	1.7	5
81	Motionâ€based design of vibrating civil engineering structures under uncertainty conditions. Structural Concrete, 2020, 21, 2339-2352.	1.5	5
82	Determining the Best Pareto-solution in a Multi-Objective Approach for Model Updating. IABSE Symposium Report, 2019, , .	0.0	5
83	La restauración del templo parroquial de San Dionisio (Jerez de la Frontera, España). La inyección como método de reparaciA³n de estructuras de fábrica. Informes De La Construccion, 2013, 65, 5-16.	0.1	5
84	Motion-based optimum design of a slender steel footbridge and assessment of its dynamic behaviour. International Journal of Steel Structures, 2017, 17, 1459-1470.	0.6	4
85	Motion-Based Design of Passive Damping Systems to Reduce Wind-Induced Vibrations of Stay Cables under Uncertainty Conditions. Applied Sciences (Switzerland), 2020, 10, 1740.	1.3	4
86	3-D Elastodynamic Green's Functions for BEM Applications to Anisotropic Solids. Solid Mechanics and Its Applications, 1995, , 307-320.	0.1	4
87	Boundary element analysis of the frictionless indentation of piezoelectric films. European Journal of Computational Mechanics, 2016, 25, 24-37.	0.6	3
88	Modal parameter identification of a spectator–grandstand interaction model under different rhythmic activities. Advances in Structural Engineering, 2019, 22, 2061-2075.	1.2	3
89	Parameter identification of the dynamic Winkler soil–structure interaction model using a hybrid unscented Kalman filter–multi-objective harmony search algorithm. Advances in Structural Engineering, 2020, 23, 2653-2668.	1.2	3
90	Assessment of ancient masonry slender towers under seismic loading: dynamic characterization of the Cuatrovitas tower. WIT Transactions on the Built Environment, 2009, , .	0.0	3

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91	Probabilistic Finite Element Model Updating of Civil Engineering Structures: A Comparative Study. , 2019, , .		2
92	Fracture Analysis of Magnetoelectroelastic Composite Materials. Key Engineering Materials, 2007, 348-349, 69-72.	0.4	1
93	Damage Detection in Piezoceramics via BEM. Key Engineering Materials, 0, 417-418, 381-384.	0.4	1
94	Seismic Hazard and Nonlinear Dynamic Analyses: Avoiding Collapse in Architectural Heritage. Advanced Materials Research, 2010, 133-134, 591-596.	0.3	1
95	Semi-Permeable Cracks in Magnetoelectroelastic Solids under Impact Loading. Key Engineering Materials, 0, 488-489, 751-754.	0.4	1
96	International conference on boundary element and meshless techniques XVI. European Journal of Computational Mechanics, 2016, 25, 1-1.	0.6	1
97	Quasistatic Electro-Elastic Contact Modeling Using the Boundary Element Method. Key Engineering Materials, 2016, 681, 185-196.	0.4	1
98	Recent Advances in the Serviceability Assessment of Footbridges Under Pedestrian-Induced Vibrations. , 2018, , .		1
99	A fast and non-degenerate scheme for the evaluation of the 3D fundamental solution and its derivatives for fully anisotropic magneto-electro-elastic materials. Engineering Analysis With Boundary Elements, 2019, 105, 94-103.	2.0	1
100	Crack Surface Frictional Contact Modeling in Fractured Fiber-Reinforced Composites. Journal of Multiscale Modeling, 2019, 10, 1841005.	1.0	1
101	Time-Domain BEM Analysis of Cracked Piezoelectric Solids under Impact Loading. , 2007, , 206-218.		1
102	A crowd-structure interaction model to analyze the lateral lock-in phenomenon on footbridges. International Journal of Computational Methods and Experimental Measurements, 2017, 6, 764-771.	0.1	1
103	Cracks in Magnetoelectroelastic Solids under Impact Loading. Key Engineering Materials, 0, 417-418, 377-380.	0.4	Ο
104	Transient dynamic analysis of cracked magnetoelectroelastic composites by a hypersingular timeâ€domain BEM. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 139-140.	0.2	0
105	Dynamic Crack Analysis in Layered Piezoelectric Composites under Time-Harmonic Loading. Key Engineering Materials, 0, 577-578, 449-452.	0.4	Ο
106	Transient Dynamic Analysis of Cracked Multiï¬eld Solids with Consideration of Crack-Face Contact and Semi-Permeable Electric/Magnetic Boundary Conditions. Key Engineering Materials, 0, 618, 123-150.	0.4	0
107	Assessment of the Dynamic Behaviour of Palmas Altas Footbridge at Seville (Spain). , 2014, ,		0
108	Dynamic Crack Analysis in Functionally Graded Piezoelectric Materials by a Time-Domain BEM. Key Engineering Materials, 2016, 713, 342-345.	0.4	0

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109	A Dual BEM Formulation for Thermo-Magneto-Piezo-Electric 2D Fracture Problems. Key Engineering Materials, 2016, 713, 46-49.	0.4	0
110	Crack Surface Frictional Contact Modelling in Piezoelectric Materials. Key Engineering Materials, 2018, 774, 607-612.	0.4	0
111	Assessment of the deterioration of concrete structures using a finite element model. , 2018, , 235-260.		0
112	Piezoelectric and Magneto-electro-elastic Frictional Contact Modelling. Computational and Experimental Methods in Structures, 2018, , 357-396.	0.2	0
113	General traction BE formulation and implementation for 2-D anisotropic media. , 2001, , 449-451.		0
114	Structural consolidation of the Apostle Santiago's church in Jerez de la Frontera (Cádiz, Spain). , 2009, , .		0
115	A Hybrid UKF-MAG Algorithm for Finite Element Model Updating of Historical Constructions. , 2019, , .		0
116	Finite Element Model Updating of a Grandstand as Basis to Assess its Vibration Serviceability Limit State. , 2019, , .		0
117	An XFEM-based numerical scheme to compute crack-induced electrical resistivity changes in cracked CNT-reinforced composites using ANSYS. AIP Conference Proceedings, 2020, , .	0.3	0
118	Boundary Element Analysis of Wave Scattering in Transversely Isotropic Solids. , 0, , .		0