J DomÃ-nguez

List of Publications by Year
in descending order

84	2,502	147801 31	206112 48
papers	citations	h-index	g-index

87	87	87	985
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fully three-dimensional analysis of high-speed trainâ€“trackâ€“soil-structure dynamic interaction. Journal of Sound and Vibration, 2010, 329, 5147-5163.	3.9	207
2	Experimental and numerical analyses of vibrations induced by high-speed trains on the CÃ³rdobaâ€“MÃ¡laga line. Soil Dynamics and Earthquake Engineering, 2009, 29, 641-657.	3.8	129
3	On the use of quarter-point boundary elements for stress intensity factor computations. International Journal for Numerical Methods in Engineering, 1984, 20, 1941-1950.	2.8	123
4	Boundary element methods for potential problems. Applied Mathematical Modelling, 1977, 1, 372-378.	4.2	103
5	Vibrations induced by HST passage on ballast and non-ballast tracks. Soil Dynamics and Earthquake Engineering, 2010, 30, 862-873.	3.8	87
6	Time domain boundary element method for dynamic stress intensity factor computations. International Journal for Numerical Methods in Engineering, 1992, 33, 635-647.	2.8	78
7	Boundary element approach for dynamic poroelastic problems. International Journal for Numerical Methods in Engineering, 1992, 35, 307-324.	2.8	75
8	Anisotropic and piezoelectric materials fracture analysis by BEM. Computers and Structures, 2005, 83, 804-820.	4.4	72
9	Analysis of ground motion due to moving surface loads induced by high-speed trains. Engineering Analysis With Boundary Elements, 2007, 31, 931-941.	3.7	69
10	Dynamic analysis of cracks using boundary element method. Engineering Fracture Mechanics, 1989, 34, 1051-1061.	4.3	68
11	Hypersingular quarter-point boundary elements for crack problems. International Journal for Numerical Methods in Engineering, 1995, 38, 1681-1701.	2.8	68
12	Simplified BEM/FEM model for dynamic analysis of structures on piles and pile groups in viscoelastic and poroelastic soils. Engineering Analysis With Boundary Elements, 2009, 33, 25-34.	3.7	55
13	Earthquake Analysis of Arch Dams. II: Damâ€Waterâ€Foundation Interaction. Journal of Engineering Mechanics - ASCE, 1993, 119, 513-530.	2.9	54
14	High-speed train-induced ground motion and interaction with structures. Journal of Sound and Vibration, 2007, 307, 755-777.	3.9	53
15	3D non-linear time domain FEMâ€“BEM approach to soilâ€“structure interaction problems. Engineering Analysis With Boundary Elements, 2013, 37, 501-512.	3.7	51
16	Three-dimensional models of reservoir sediment and effects on the seismic response of arch dams. Earthquake Engineering and Structural Dynamics, 2004, 33, 1103-1123.	4.4	47
17	Soilâ€“structure interaction in resonant railway bridges. Soil Dynamics and Earthquake Engineering, 2013, 47, 108-116.	3.8	47
18	Effects of Space Distribution of Excitation on Seismic Response of Arch Dams. Journal of Engineering Mechanics - ASCE, 2002, 128, 759-768.	2.9	41

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19	HYPERSINGULAR BEM FOR TRANSIENT ELASTODYNAMICS. International Journal for Numerical Methods in Engineering, 1996, 39, 1681-1705.	2.8	40
20	Flux and traction boundary elements without hypersingular or strongly singular integrals. International Journal for Numerical Methods in Engineering, 2000, 48, 111-135.	2.8	40
21	A comparative study of three boundary element approaches to transient dynamic crack problems. Engineering Analysis With Boundary Elements, 1994, 13, 11-19.	3.7	39
22	Traction boundary elements for cracks in anisotropic solids. Engineering Analysis With Boundary Elements, 2004, 28, 667-676.	3.7	39
23	Effects of Porous Sediments on Seismic Response of Concrete Gravity Dams. Journal of Engineering Mechanics - ASCE, 1997, 123, 302-311.	2.9	38
24	Earthquake Analysis of Arch Dams. I: Damâ€Foundation Interaction. Journal of Engineering Mechanics - ASCE, 1993, 119, 496-512.	2.9	35
25	BEM analysis of wave scattering in transversely isotropic solids. International Journal for Numerical Methods in Engineering, 1999, 44, 1283-1300.	2.8	35
26	Response of Dams to Earthquakes Including Effects of Sediments. Journal of Structural Engineering, 1990, 116, 3108-3121.	3.4	34
27	Three-dimensional fracture analysis in transversely isotropic solids. Engineering Analysis With Boundary Elements, 1997, 20, 287-298.	3.7	34
28	Numerical behavior of time domain BEM for three-dimensional transient elastodynamic problems. Engineering Analysis With Boundary Elements, 2003, 27, 39-48.	3.7	33
29	Hypersingular BEM for dynamic fracture in 2-D piezoelectric solids. Computer Methods in Applied Mechanics and Engineering, 2006, 196, 235-246.	6.6	33
30	Vibrations of Footings on Zoned Viscoelastic Soils. Journal of Engineering Mechanics - ASCE, 1986, 112, 433-447.	2.9	32
31	General BE approach for three-dimensional dynamic fracture analysis. Engineering Analysis With Boundary Elements, 2002, 26, 639-651.	3.7	31
32	On the use of the BEM for wave propagation in infinite domains. Engineering Analysis With Boundary Elements, 1991, 8, 132-138.	3.7	30
33	Dynamic Stiffness of Foundations on Saturated Poroelastic Soils. Journal of Engineering Mechanics - ASCE, 1997, 123, 1121-1129.	2.9	30
34	A singular element for three-dimensional fracture mechanics analysis. Engineering Analysis With Boundary Elements, 1997, 20, 275-285.	3.7	30
35	BE analysis of bottom sediments in dynamic fluid-structure interaction problems. Engineering Analysis With Boundary Elements, 2006, 30, 124-136.	3.7	30
36	Dynamic response of axisymmetric embedded foundations. Earthquake Engineering and Structural Dynamics, 1989, 18, 1105-1117.	4.4	29

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37	The time domain boundary element method for elastodynamic problems. Mathematical and Computer Modelling, 1991, 15, 119-129.	2.0	29
38	Two-dimensional time-harmonic BEM for cracked anisotropic solids. Engineering Analysis With Boundary Elements, 2006, 30, 88-99.	3.7	29
39	Boundary elements for the analysis of the seismic response of dams including dam-water-foundation interaction effects. I. Engineering Analysis With Boundary Elements, 1989, 6, 152-157.	3.7	28
40	The boundary element method in elasticity. International Journal of Mechanical Sciences, 1978, 20, 625-639.	6.7	27
41	Modelling of acoustic and elastic wave propagation from underground structures using a 2.5D BEM-FEM approach. Engineering Analysis With Boundary Elements, 2017, 76, 26-39.	3.7	26
42	On fundamental solutions for the boundary integral equations method in static and dynamic elasticity. Engineering Analysis, 1984, 1, 128-134.	0.1	25
43	Three-dimensional BEM for piezoelectric fracture analysis. Engineering Analysis With Boundary Elements, 2005, 29, 586-596.	3.7	25
44	Dynamic analysis of a cable-stayed deck steel arch bridge. Journal of Constructional Steel Research, 2007, 63, 1024-1035.	3.9	24
45	Boundary element formulation for 3D transversely isotropic cracked bodies. International Journal for Numerical Methods in Engineering, 2004, 60, 719-753.	2.8	22
46	Dynamic characterisation of wind turbine towers account for a monopile foundation and different soil conditions. Structure and Infrastructure Engineering, 2017, 13, 942-954.	3.7	20
47	Dynamic Crack Propagation Analysis by Moving Singular Boundary Elements. Journal of Applied Mechanics, Transactions ASME, 1992, 59, S158-S162.	2.2	19
48	Far field dynamic Greenâ€™s functions for BEM in transversely isotropic solids. Wave Motion, 2000, 32, 113-123.	2.0	18
49	Dynamic crack problems in three-dimensional transversely isotropic solids. Engineering Analysis With Boundary Elements, 2001, 25, 203-210.	3.7	18
50	A direct traction BIE approach for three-dimensional crack problems. Engineering Analysis With Boundary Elements, 2000, 24, 727-738.	3.7	17
51	Seismic Response of Strip Footings on Zoned Viscoelastic Soils. Journal of Engineering Mechanics - ASCE, 1989, 115, 913-934.	2.9	14
52	Boundary elements for the analysis of the seismic response of dams including dam-water-foundation interaction effects. II. Engineering Analysis With Boundary Elements, 1989, 6, 158-163.	3.7	13
53	Dynamic BE analysis of 3-D cracks in transversely isotropic solids. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 765-779.	6.6	13
54	Fast multipole method applied to 3-D frequency domain elastodynamics. Engineering Analysis With Boundary Elements, 2008, 32, 787-795.	3.7	13

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55	Analysis of cracked piezoelectric solids by a mixed three-dimensional BE approach. Engineering Analysis With Boundary Elements, 2009, 33, 271-282.	3.7	13
56	SOLVING TRANSIENT DYNAMIC CRACK PROBLEMS BY THE HYPERSINGULAR BOUNDARY ELEMENT METHOD. Fatigue and Fracture of Engineering Materials and Structures, 1997, 20, 799-812.	3.4	10
57	Boundary element approach to the dynamic stiffness functions of circular foundations. International Journal for Numerical and Analytical Methods in Geomechanics, 1989, 13, 645-664.	3.3	8
58	Time-domain BEM for three-dimensional fracture mechanics. Engineering Fracture Mechanics, 2004, 71, 1557-1575.	4.3	7
59	Dynamic response of two-dimensional flexible foundations allowed to uplift. Computers and Geotechnics, 1990, 9, 113-129.	4.7	6
60	Data-Driven Computational Simulation in Bone Mechanics. Annals of Biomedical Engineering, 2021, 49, 407-419.	2.5	6
61	Dynamics of Foundations. , 1987, , 27-75.		6
62	A unified formulation of two existing time-domain boundary-element approaches. Communications in Applied Numerical Methods, 1990, 6, 17-25.	0.5	5
63	Closure to â€œDiscussion of â€˜Dynamic Crack Propagation Analysis by Moving Singular Boundary Elementsâ€™â€•(1992, ASME J. Appl Mech., 59, p. 1045). Journal of Applied Mechanics, Transactions ASME, 1992, 59, 1046-1046.	2.2	2
64	Structural Analysis of La Giralda's 16th-Century Sculpture/Weather Vane. International Journal of Architectural Heritage, 2012, 6, 147-171.	3.1	2
65	Effects of an Irregular Soil Profile on Site Amplification. Developments in Geotechnical Engineering, 1987, , 3-12.	0.1	2
66	A time domain analysis of train induced vibrations. Earthquake and Structures, 2012, 3, 297-313.	1.0	2
67	The effect of a corner radius on an asymptotic solution to the fretting of complete contacts including the plastic process zone. Fatigue and Fracture of Engineering Materials and Structures, 2003, 26, 223-228.	3.4	1
68	Twenty Five Years of Boundary Elements for Dynamic Soil-Structure Interaction. , 2003, , 1-60.		1
69	Boundary Element Model for the Seismic Analysis of Arch Dams. , 1992, , 72-81.		1
70	Boundary Element Approach to Coupled Poroelastodynamic Problems. Solid Mechanics and Its Applications, 1996, , 125-142.	0.2	1
71	Comment on the paper: â€˜An implementation of the boundary element method for zoned media with stress discountinuitiesâ€™. International Journal for Numerical Methods in Engineering, 1984, 20, 1756-1756.	2.8	0
72	Transient Dynamic Analysis of Cracked Multïï¬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

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73	General traction BE formulation and implementation for 2-D anisotropic media. , 2001, , 449-451.		0
74	Hypersingular Formulation for 3-D Fracture Mechanics. A Simple Numerical Approach. , 2001, , 87-97.		0
75	Hypersingular and Mixed Boundary Elements in Fracture Mechanics. , 2003, , 115-165.		0
76	A 3D Numerical Mode for HST Induced Vibrations. Noise and Vibration Worldwide, 2010, 41, 9-15.	1.0	0
77	Seismic Response of Foundations on Zoned Soils. , 1988, , 125-133.		0
78	Dynamic Crack Propagation Using Boundary Elements. , 1991, , 192-201.		0
79	Boundary Element Formulation for Time Harmonic Poroelastic Problems. , 1991, , 285-296.		0
80	Hypersingular BEM for Transient Dynamic Problems. , 1995, , 2782-2787.		0
81	Boundary Element Analysis of Wave Scattering in Transversely Isotropic Solids. , 0, , .		0
82	Induced Vibrations because of High-Speed Train Passage on Ballast and Non-Ballast Tracks. , 0, , .		0
83	High-Speed Train Induced Vibrations: A Comprehensive BE Model. , 0, , .		0
84	Flux and traction boundary elements without hypersingular or strongly singular integrals. International Journal for Numerical Methods in Engineering, 2000, 48, 111-135.	2.8	0