

Yijun Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

3,804
citations

34
h-index

60
g-index

109
ext. papers

4,153
ext. citations

3.4
avg, IF

5.74
L-index

#	Paper	IF	Citations
102	Determining the defect locations and sizes in elastic plates by using the artificial neural network and boundary element method. <i>Engineering Analysis With Boundary Elements</i> , 2022 , 139, 232-245	2.6	0
101	An adaptive model order reduction method for boundary element-based multi-frequency acoustic wave problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 373, 113532	5.7	9
100	Efficient multi-frequency solutions of FEBE coupled structural-acoustic problems using Arnoldi-based dimension reduction approach. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 386, 114126	5.7	2
99	A dual interpolation Galerkin boundary face method for potential problems. <i>Engineering Analysis With Boundary Elements</i> , 2020 , 117, 157-166	2.6	1
98	A new boundary element method for modeling wave propagation in functionally graded materials. <i>European Journal of Mechanics, A/Solids</i> , 2020 , 80, 103897	3.7	4
97	On the BEM for acoustic wave problems. <i>Engineering Analysis With Boundary Elements</i> , 2019 , 107, 53-62	2.6	19
96	Boundary Element Solver for Coupled Conduction-Radiation Heat Transfer in Nonhomogeneous Media. <i>Journal of Thermophysics and Heat Transfer</i> , 2018 , 32, 975-983	1.3	3
95	Modeling of multiple crack propagation in 2-D elastic solids by the fast multipole boundary element method. <i>Engineering Fracture Mechanics</i> , 2017 , 172, 1-16	4.2	22
94	Micromechanism of oxygen transport during initial stage oxidation in Si(100) surface: A ReaxFF molecular dynamics simulation study. <i>Applied Surface Science</i> , 2017 , 406, 178-185	6.7	20
93	A new fast direct solver for the boundary element method. <i>Computational Mechanics</i> , 2017 , 60, 379-392	4	7
92	Multifunctional smart composites with integrated carbon nanotube yarn and sheet 2017 ,		5
91	Multiscale Modeling of Carbon Nanotube Bundle Agglomeration inside a Gas Phase Pyrolysis Reactor. <i>MRS Advances</i> , 2017 , 2, 2621-2626	0.7	5
90	Numerical and Experimental Investigation of Carbon Nanotube Sock Formation. <i>MRS Advances</i> , 2017 , 2, 21-26	0.7	3
89	Gas phase pyrolysis synthesis of carbon nanotubes at high temperature. <i>Materials and Design</i> , 2017 , 132, 112-118	8.1	25
88	On the displacement discontinuity method and the boundary element method for solving 3-D crack problems. <i>Engineering Fracture Mechanics</i> , 2016 , 164, 35-45	4.2	13
87	The effect of a convection vortex on sock formation in the floating catalyst method for carbon nanotube synthesis. <i>Carbon</i> , 2016 , 102, 513-519	10.4	45
86	A new simple multidomain fast multipole boundary element method. <i>Computational Mechanics</i> , 2016 , 58, 533-548	4	4

85	A Fast Multipole Boundary Element Method for Three-Dimensional Half-Space Acoustic Wave Problems Over an Impedance Plane. <i>International Journal of Computational Methods</i> , 2015 , 12, 1350090	1.1	7
84	A fast directional BEM for large-scale acoustic problems based on the Burton-Miller formulation. <i>Engineering Analysis With Boundary Elements</i> , 2015 , 50, 47-58	2.6	14
83	Boundary effect on the elastic field of a semi-infinite solid containing inhomogeneities. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20150174	2.4	12
82	ReaxFF molecular dynamics study on oxidation behavior of 3C-SiC: Polar face effects. <i>Chinese Physics B</i> , 2015 , 24, 096203	1.2	8
81	Equivalent inclusion method-based simulation of particle sedimentation toward functionally graded material manufacturing. <i>Acta Mechanica</i> , 2014 , 225, 1429-1445	2.1	10
80	Revisit of the equivalence of the displacement discontinuity method and boundary element method for solving crack problems. <i>Engineering Analysis With Boundary Elements</i> , 2014 , 47, 64-67	2.6	13
79	A fast multipole boundary element method for solving two-dimensional thermoelasticity problems. <i>Computational Mechanics</i> , 2014 , 54, 821-831	4	6
78	Slow convergence of the BEM with constant elements in solving beam bending problems. <i>Engineering Analysis With Boundary Elements</i> , 2014 , 39, 1-4	2.6	6
77	A fast multipole boundary element method for modeling 2-D multiple crack problems with constant elements. <i>Engineering Analysis With Boundary Elements</i> , 2014 , 47, 1-9	2.6	15
76	Equivalent Inclusion Method for the Stokes Flow of Drops Moving in a Viscous Fluid. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2.7	11
75	A coupled ES-BEM and FM-BEM for structural acoustic problems. <i>Noise Control Engineering Journal</i> , 2014 , 62, 196-209	0.6	8
74	New Applications and Techniques for Nanotube Superfiber Development 2014 , 33-59		2
73	Multiscale Modeling of CNT Composites using Molecular Dynamics and the Boundary Element Method 2014 , 569-594		
72	Stress Concentration of a Microvoid Embedded in an Adhesive Layer during Stress Transfer. <i>Journal of Engineering Mechanics - ASCE</i> , 2014 , 140, 04014075	2.4	8
71	A fast multipole boundary element method for solving the thin plate bending problem. <i>Engineering Analysis With Boundary Elements</i> , 2013 , 37, 967-976	2.6	10
70	Identities for the fundamental solution of thin plate bending problems and the nonuniqueness of the hypersingular BIE solution for multi-connected domains. <i>Engineering Analysis With Boundary Elements</i> , 2013 , 37, 594-602	2.6	4
69	A low-frequency fast multipole boundary element method based on analytical integration of the hypersingular integral for 3D acoustic problems. <i>Engineering Analysis With Boundary Elements</i> , 2013 , 37, 309-318	2.6	18
68	Efficient solution of multiple cracks in great number using eigen COD boundary integral equations with iteration procedure. <i>Engineering Analysis With Boundary Elements</i> , 2013 , 37, 487-500	2.6	13

67	THE BOUNDARY ELEMENT METHOD. <i>International Journal of Computational Methods</i> , 2013 , 10, 13500371.1	7.1	16
66	On the Identities for Elastostatic Fundamental Solution and Nonuniqueness of the Traction BIE Solution for Multiconnected Domains. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	1
65	Analyzing Acoustic Radiation Modes of Baffled Plates With a Fast Multipole Boundary Element Method. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2013 , 135,	1.6	13
64	Analytical integration of the moments in the diagonal form fast multipole boundary element method for 3-D acoustic wave problems. <i>Engineering Analysis With Boundary Elements</i> , 2012 , 36, 248-254	2.6	18
63	A fast multipole boundary element method for 3D multi-domain acoustic scattering problems based on the Burton-Miller formulation. <i>Engineering Analysis With Boundary Elements</i> , 2012 , 36, 779-788	2.6	23
62	Diagonal form fast multipole boundary element method for 2D acoustic problems based on Burton-Miller boundary integral equation formulation and its applications. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2011 , 32, 981-996	3.2	1
61	A fast multipole boundary element method for 2D viscoelastic problems. <i>Engineering Analysis With Boundary Elements</i> , 2011 , 35, 170-178	2.6	13
60	Recent Advances and Emerging Applications of the Boundary Element Method. <i>Applied Mechanics Reviews</i> , 2011 , 64,	8.6	91
59	Fast multipole boundary element analysis of 2D viscoelastic composites with imperfect interfaces. <i>Science China Technological Sciences</i> , 2010 , 53, 2160-2171	3.5	10
58	Analysis of numerical integration error for Bessel integral identity in fast multipole method for 2D Helmholtz equation. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2010 , 15, 690-693	0.6	4
57	A new boundary meshfree method with distributed sources. <i>Engineering Analysis With Boundary Elements</i> , 2010 , 34, 914-919	2.6	69
56	Development of the Fast Multipole Boundary Element Method for Acoustic Wave Problems 2009 , 287-303		2
55	Adaptive fast multipole boundary element method for three-dimensional half-space acoustic wave problems. <i>Engineering Analysis With Boundary Elements</i> , 2009 , 33, 1113-1123	2.6	46
54	Revolutionizing biodegradable metals. <i>Materials Today</i> , 2009 , 12, 22-32	21.8	272
53	Fast Multipole Boundary Element Method: Theory and Applications in Engineering 2009 ,		143
52	A boundary element method for the analysis of CNT/polymer composites with a cohesive interface model based on molecular dynamics. <i>Engineering Analysis With Boundary Elements</i> , 2008 , 32, 299-308	2.6	34
51	A fast multipole boundary element method for 2D multi-domain elastostatic problems based on a dual BIE formulation. <i>Computational Mechanics</i> , 2008 , 42, 761-773	4	28
50	A new fast multipole boundary element method for solving 2-D Stokes flow problems based on a dual BIE formulation. <i>Engineering Analysis With Boundary Elements</i> , 2008 , 32, 139-151	2.6	28

49	A dual BIE approach for large-scale modelling of 3-D electrostatic problems with the fast multipole boundary element method. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 71, 837-855 ^{2,4}	27
48	An Adaptive Fast Multipole Boundary Element Method for Three-dimensional Potential Problems. <i>Computational Mechanics</i> , 2007 , 39, 681-691	4 46
47	An adaptive fast multipole boundary element method for three-dimensional acoustic wave problems based on the Burton-Miller formulation. <i>Computational Mechanics</i> , 2007 , 40, 461-472	4 105
46	A study on the tensile response and fracture in carbon nanotube-based composites using molecular mechanics. <i>Composites Science and Technology</i> , 2007 , 67, 530-540	8.6 113
45	A new fast multipole boundary element method for solving large-scale two-dimensional elastostatic problems. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 65, 863-881	2.4 53
44	Linkage Between Learning Styles and Design Engineering Perceptions of Undergraduate Students 2006 , 307	
43	Dual BIE approaches for modeling electrostatic MEMS problems with thin beams and accelerated by the fast multipole method. <i>Engineering Analysis With Boundary Elements</i> , 2006 , 30, 940-948	2.6 8
42	The fast multipole boundary element method for potential problems: A tutorial. <i>Engineering Analysis With Boundary Elements</i> , 2006 , 30, 371-381	2.6 139
41	Large-scale modeling of carbon-nanotube composites by a fast multipole boundary element method. <i>Computational Materials Science</i> , 2005 , 34, 173-187	3.2 93
40	An advanced 3D boundary element method for characterizations of composite materials. <i>Engineering Analysis With Boundary Elements</i> , 2005 , 29, 513-523	2.6 32
39	A fast multipole accelerated method of fundamental solutions for potential problems. <i>Engineering Analysis With Boundary Elements</i> , 2005 , 29, 1016-1024	2.6 46
38	Analysis of 3-D frictional contact mechanics problems by a boundary element method. <i>Tsinghua Science and Technology</i> , 2005 , 10, 16-29	3.4 5
37	A Fast Boundary Element Method for the Analysis of Fiber-Reinforced Composites Based on a Rigid-Inclusion Model. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2005 , 72, 115-128	2.7 93
36	Thermal analysis of carbon-nanotube composites using a rigid-line inclusion model by the boundary integral equation method. <i>Computational Mechanics</i> , 2004 , 35, 1-10	4 42
35	Scattering of SH-waves by an interface cavity. <i>Acta Mechanica</i> , 2004 , 170, 47	2.1 3
34	Square representative volume elements for evaluating the effective material properties of carbon nanotube-based composites. <i>Computational Materials Science</i> , 2004 , 29, 1-11	3.2 215
33	Evaluations of the effective material properties of carbon nanotube-based composites using a nanoscale representative volume element. <i>Mechanics of Materials</i> , 2003 , 35, 69-81	3.3 332
32	An Internet-based computing platform for the boundary element method. <i>Advances in Engineering Software</i> , 2003 , 34, 261-269	3.6 17

31	The Boundary Element Method for Piezoelectric Materials. <i>Advances in Mechanics and Mathematics</i> , 2003 , 143-161	0.2	
30	Analysis of thin piezoelectric solids by the boundary element method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002 , 191, 2297-2315	5.7	37
29	Plasma deposition of Ultrathin polymer films on carbon nanotubes. <i>Applied Physics Letters</i> , 2002 , 81, 5216-5218	3.4	87
28	Boundary formulation and numerical analysis of elastic bodies with surface-bonded piezoelectric films. <i>Smart Materials and Structures</i> , 2002 , 11, 308-311	3.4	4
27	On the conventional boundary integral equation formulation for piezoelectric solids with defects or of thin shapes. <i>Engineering Analysis With Boundary Elements</i> , 2001 , 25, 77-91	2.6	36
26	Multiple-cell modeling of fiber-reinforced composites with the presence of interphases using the boundary element method. <i>Computational Materials Science</i> , 2001 , 21, 86-94	3.2	38
25	On the simple-solution method and non-singular nature of the BIE/BEM \square review and some new results. <i>Engineering Analysis With Boundary Elements</i> , 2000 , 24, 789-795	2.6	44
24	Modeling of interface cracks in fiber-reinforced composites with the presence of interphases using the boundary element method. <i>Mechanics of Materials</i> , 2000 , 32, 769-783	3.3	45
23	Interfacial stress analysis for multi-coating systems using an advanced boundary element method. <i>Computational Mechanics</i> , 2000 , 24, 448-455	4	52
22	Modeling of Interphases in Fiber-Reinforced Composites Under Transverse Loading Using the Boundary Element Method. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2000 , 67, 41-49	2.7	79
21	Analysis of the shear stress transferred from a partially electroded piezoelectric actuator to an elastic substrate. <i>Smart Materials and Structures</i> , 2000 , 9, 248-254	3.4	21
20	A unified boundary element method for the analysis of sound and shell-like structure interactions. II. Efficient solution techniques. <i>Journal of the Acoustical Society of America</i> , 2000 , 108, 2738-2745	2.2	10
19	A new form of the hypersingular boundary integral equation for 3-D acoustics and its implementation with C0 boundary elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1999 , 173, 375-386	5.7	40
18	New identities for fundamental solutions and their applications to non-singular boundary element formulations. <i>Computational Mechanics</i> , 1999 , 24, 286-292	4	69
17	A unified boundary element method for the analysis of sound and shell-like structure interactions. I. Formulation and verification. <i>Journal of the Acoustical Society of America</i> , 1999 , 106, 1247-1254	2.2	25
16	Analysis of shell-like structures by the Boundary Element Method based on 3-D elasticity: formulation and verification. <i>International Journal for Numerical Methods in Engineering</i> , 1998 , 41, 541-558 [†]	2.4	129
15	Analysis of two-dimensional thin structures (from micro- to nano-scales) using the boundary element method. <i>Computational Mechanics</i> , 1998 , 22, 404-412	4	94
14	Scattering of elastic waves from thin shapes in three dimensions using the composite boundary integral equation formulation. <i>Journal of the Acoustical Society of America</i> , 1997 , 102, 926-932	2.2	36

13	General formulation for light scattering by a dielectric body near a perfectly conducting surface. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996 , 13, 338	1.8	20
12	Regularized integral equations and curvilinear boundary elements for electromagnetic wave scattering in three dimensions. <i>IEEE Transactions on Antennas and Propagation</i> , 1995 , 43, 1416-1422	4.9	22
11	Boundary integral equations for thin bodies. <i>International Journal for Numerical Methods in Engineering</i> , 1994 , 37, 107-121	2.4	73
10	Hypersingular boundary integral equations for radiation and scattering of elastic waves in three dimensions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1993 , 107, 131-144	5.7	44
9	Eddy Current Analysis for 3-D Problems Using the Boundary Element Method 1993 , 235-242		2
8	A weakly singular form of the hypersingular boundary integral equation applied to 3-D acoustic wave problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1992 , 96, 271-287	5.7	111
7	Some advances in boundary integral methods for wave-scattering from cracks 1992 , 55-65		
6	Some identities for fundamental solutions and their applications to weakly-singular boundary element formulations. <i>Engineering Analysis With Boundary Elements</i> , 1991 , 8, 301-311	2.6	85
5	Elastic stability analysis of thin plate by the boundary element method—new formulation. <i>Engineering Analysis</i> , 1987 , 4, 160-164		7
4	Finite Deflection Analysis of Heated Elastic Plates by the Boundary Element Method 1986 , 367-374		
3	Finite deflection analysis of elastic plate by the boundary element method. <i>Applied Mathematical Modelling</i> , 1985 , 9, 183-188	4.5	34
2	Finite Element Modeling and Simulation with ANSYS Workbench		26
1	ReaxFF Molecular Dynamics Simulation on Oxidation Behaviors of 3C-SiC: Uniaxial Strain Effect 721-725		