Whye-Teong Ang

List of Publications by Year
in descending order

102	1,038	516561 16	552653 26
papers	citations	h-index	g-index

103	103	103	539
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioheat transfer in the human eye: A boundary element approach. Engineering Analysis With Boundary Elements, 2007, 31, 494-500.	2.0	69
2	A boundary element method for a second order elliptic partial differential equation with variable coefficients. Engineering Analysis With Boundary Elements, 1996, 18, 311-316.	2.0	46
3	A boundary element model of the human eye undergoing laser thermokeratoplasty. Computers in Biology and Medicine, 2008, 38, 727-737.	3.9	46
4	On some crack problems for inhomogeneous elastic materials. International Journal of Solids and Structures, 1987, 23, 1089-1104.	1.3	41
5	A dual-reciprocity boundary element method for a class of elliptic boundary value problems for non-homogeneous anisotropic media. Engineering Analysis With Boundary Elements, 2003, 27, 49-55.	2.0	39
6	The two-dimensional reactionâ€“diffusion Brusselator system: a dual-reciprocity boundary element solution. Engineering Analysis With Boundary Elements, 2003, 27, 897-903.	2.0	39
7	A Crack in an Anisotropic Layered Material Under the Action of Impact Loading. Journal of Applied Mechanics, Transactions ASME, 1988, 55, 120-125.	1.1	37
8	A numerical method for the wave equation subject to a non-local conservation condition. Applied Numerical Mathematics, 2006, 56, 1054-1060.	1.2	34
9	A boundary element model for investigating the effects of eye tumor on the temperature distribution inside the human eye. Computers in Biology and Medicine, 2009, 39, 667-677.	3.9	31
10	A boundary integral solution for the problem of multiple interacting cracks in an elastic material. International Journal of Fracture, 1986, 31, 259-270.	1.1	25
11	Stress intensity factors for the circular annulus crack. International Journal of Engineering Science, 1988, 26, 325-329.	2.7	25
12	A dual-reciprocity boundary element solution of a generalized nonlinear SchrÃ¶dinger equation. Numerical Methods for Partial Differential Equations, 2004, 20, 843-854.	2.0	24
13	A compact hand-held active physiological tremor compensation instrument. , 2009, , .		23
14	Efficient parallel algorithm for the two-dimensional diffusion equation subject to specification of mass. International Journal of Computer Mathematics, 1997, 64, 153-163.	1.0	21
15	A Method of Solution for the One-Dimensional Heat Equation Subject to Nonlocal Conditions. Southeast Asian Bulletin of Mathematics, 2003, 26, 185-191.	0.1	20
16	A complex variable boundary element method for elliptic partial differential equations in a multiple-connected region. International Journal of Computer Mathematics, 2000, 75, 515-525.	1.0	19
17	Modeling Piezoelectric Actuator Hysteresis with Singularity Free Prandtl-Ishlinskii Model. , 2006, , .		19
18	A boundary element method for determining the effect of holes on the stress distribution around a crack. International Journal for Numerical Methods in Engineering, 1986, 23, 1727-1737.	1.5	17

#	Article	IF	Citations
19	Design and Calibration of an Optical Micro Motion Sensing System for Micromanipulation Tasks. , 2007, , .		17
20	Transient response of a crack in an anisotropic strip. Acta Mechanica, 1987, 70, 97-109.	1.1	16
21	Numerical solution of a non-classical parabolic problem: An integro-differential approach. Applied Mathematics and Computation, 2006, 175, 969-979.	1.4	16
22	A complex variable boundary element method for an elliptic partial differential equation with variable coefficients. Communications in Numerical Methods in Engineering, 2000, 16, 697-703.	1.3	15
23	A time-stepping dual-reciprocity boundary element method for anisotropic heat diffusion subject to specification of energy. Applied Mathematics and Computation, 2005, 162, 661-678.	1.4	14
24	Kalman filtering of accelerometer and electromyography (EMG) data in pathological tremor sensing system. , 2008, , .		14
25	A boundary integral equation for deformations of an elastic body with an arc crack. Quarterly of Applied Mathematics, 1987, 45, 131-139.	0.5	14
26	A numerical Green's function for multiple cracks in anisotropic bodies. Journal of Engineering Mathematics, 2004, 49, 197-207.	0.6	13
27	Physiological tremor sensing using only accelerometers for real-time compensation. , 2009, , .		12
28	A dual-reciprocity boundary element approach for axisymmetric nonlinear time-dependent heat conduction in a nonhomogeneous solid. Engineering Analysis With Boundary Elements, 2010, 34, 697-706.	2.0	12
29	A cracked anisotropic elastic slab. International Journal of Engineering Science, 1988, 26, 277-283.	2.7	11
30	A Green's function for steady-state two-dimensional isotropic heat conduction across a homogeneously imperfect interface. Communications in Numerical Methods in Engineering, 2004, 20, 391-399.	1.3	11
31	Numerical investigation of the meshless radial basis integral equation method for solving 2D anisotropic potential problems. Engineering Analysis With Boundary Elements, 2015, 53, 27-39.	2.0	11
32	A boundary integral equation method for the two-dimensional diffusion equation subject to a non-local condition. Engineering Analysis With Boundary Elements, 2001, 25, 1-6.	2.0	10
33	Dynamic interaction of multiple arbitrarily oriented planar cracks in a piezoelectric space: A semi-analytic solution. European Journal of Mechanics, A/Solids, 2011, 30, 608-618.	2.1	10
34	Hypersingular integral equations for a thermoelastic problem of multiple planar cracks in an anisotropic medium. Engineering Analysis With Boundary Elements, 1999, 23, 713-720.	2.0	9
35	Modeling of PCF with multiple reciprocity boundary element method. Optics Express, 2004, 12, 961.	1.7	9
36	On micromechanical-statistical modeling of microscopically damaged interfaces under antiplane deformations. International Journal of Solids and Structures, 2014, 51, 2327-2335.	1.3	9

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37	A hypersingular boundary integral equation for antiplane crack problems for a class of inhomogeneous anisotropic elastic materials. Engineering Analysis With Boundary Elements, 1999, 23, 567-572.	2.0	8
38	The Determination Of A Control Parameter In A Two-Dimensional Diffusion Equation Using A Dual-Reciprocity Boundary Element Method. International Journal of Computer Mathematics, 2003, 80, 65-74.	1.0	8
39	Hypersingular integral and integro-differential micromechanical models for an imperfect interface between a thin orthotropic layer and an orthotropic half-space under inplane elastostatic deformations. Engineering Analysis With Boundary Elements, 2015, 52, 32-43.	2.0	8
40	An arbitrarily-oriented plane crack in an anisotropic elastic slab. Engineering Fracture Mechanics, 1989, 32, 965-972.	2.0	7
41	Magnetic stresses in an anisotropic soft ferromagnetic material with a crack. International Journal of Engineering Science, 1989, 27, 1519-1526.	2.7	7
42	A complex variable boundary element method for axisymmetric heat conduction in a nonhomogeneous solid. Applied Mathematics and Computation, 2011, 218, 2225-2225.	1.4	7
43	A dual-reciprocity boundary element method for axisymmetric thermoelastostatic analysis of nonhomogeneous materials. Engineering Analysis With Boundary Elements, 2012, 36, 1776-1786.	2.0	7
44	Micro-mechanics models for an imperfect interface under anti-plane shear load: Hypersingular integral formulations. Engineering Analysis With Boundary Elements, 2012, 36, 1856-1864.	2.0	7
45	Hypersingular integral equations for multiple interacting planar cracks in an elastic layered material under antiplane shear stresses. Engineering Analysis With Boundary Elements, 1995, 16, 289-295.	2.0	6
46	A complex variable boundary element method for a class of boundary value problems in anisotropic thermoelasticity. International Journal of Computer Mathematics, 1999, 70, 571-586.	1.0	6
47	A boundary integral method for the three-dimensional heat equation subject to specification of energy. Journal of Computational and Applied Mathematics, 2001, 135, 303-311.	1.1	6
48	Non-steady state heat conduction across an imperfect interface: A dual-reciprocity boundary element approach. Engineering Analysis With Boundary Elements, 2006, 30, 781-789.	2.0	6
49	Towards a sensing system for quantification of pathological tremor. , 2007, , .		6
50	Rate-Dependent Hysteresis Model of Piezoelectric using Singularity Free Prandtl-Ishlinskii Model. , 2007, , .		6
51	Elastodynamic antiplane deformation of a bimaterial with an imperfect viscoelastic interface: A dual reciprocity hypersingular boundary integral solution. Applied Mathematical Modelling, 2007, 31, 749-762.	2.2	6
52	On some contact problems for inhomogeneous anisotropic elastic materials. International Journal of Engineering Science, 2009, 47, 1149-1162.	2.7	6
53	A boundary element approach for solving plane elastostatic equations of anisotropic functionally graded materials. Numerical Methods for Partial Differential Equations, 2019, 35, 1396-1411.	2.0	6
54	A pair of arbitrarily-oriented coplanar cracks in an anisotropic elastic slab. Journal of the Australian Mathematical Society Series B Applied Mathematics, 1991, 32, 284-295.	0.3	5

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55	Static stresses in a periodically layered anisotropic elastic composite containing a periodic array of planar cracks. Acta Mechanica, 1991, 86, 193-200.	1.1	5
56	On the indentation of an inhomogeneous anisotropic elastic material by multiple straight rigid punches. Engineering Analysis With Boundary Elements, 2006, 30, 284-291.	2.0	5
57	A numerical method based on integroâ€differential formulation for solving a oneâ€dimensional Stefan problem. Numerical Methods for Partial Differential Equations, 2008, 24, 939-949.	2.0	5
58	A dual-reciprocity boundary element approach for solving axisymmetric heat equation subject to specification of energy. Engineering Analysis With Boundary Elements, 2008, 32, 210-215.	2.0	5
59	Compact sensing design of a hand-held active tremor compensation instrument for better ergonomics. , 2008, , .		5
60	Real-time estimation and prediction of periodic signals from attenuated and phase-shifted sensed signals. , 2009, , .		5
61	Identification of accelerometer orientation errors and compensation for acceleration estimation errors. , 2009, , .		5
62	Green's functions and boundary element analysis for bimaterials with soft and stiff planar interfaces under plane elastostatic deformations. Engineering Analysis With Boundary Elements, 2014, 40, 50-61.	2.0	5
63	A complex variable boundary element method for solving a steady-state advectionâ€“diffusionâ€“reaction equation. Applied Mathematics and Computation, 2018, 321, 731-744.	1.4	5
64	Scattering and diffraction of sh waves by multiple planar cracks in an anisotropic half-space: A hypersingular integral formulation. International Journal of Solids and Structures, 1993, 30, 1301-1312.	1.3	4
65	Nonlinear heat equation for nonhomogeneous anisotropic materials: A dualâ€reciprocity boundary element solution. Numerical Methods for Partial Differential Equations, 2010, 26, 771-784.	2.0	4
66	Placement of accelerometers in a hand-held active tremor compensation instrument for high angular sensing resolution. , 2009, , .		4
67	Electro-elastostatic analysis of multiple cracks in an infinitely long piezoelectric strip: A hypersingular integral approach. European Journal of Mechanics, A/Solids, 2010, 29, 410-419.	2.1	4
68	A boundary integral approach for plane analysis of electrically semi-permeable planar cracks in a piezoelectric solid. Engineering Analysis With Boundary Elements, 2011, 35, 647-656.	2.0	4
69	An anisotropic layered material with a crack. Acta Mechanica, 1988, 72, 297-308.	1.1	3
70	Coplanar cracks in a finite rectangular anisotropic elastic slab under antiplane shear stresses: A hypersingular integral formulation. Engineering Fracture Mechanics, 1993, 45, 431-437.	2.0	3
71	Real-Time Disturbance Compensation with Accelerometers & Piezoelectric-Driven Mechanism. , 2007, , .		3
72	Numerical solution of a linear elliptic partial differential equation with variable coefficients: A complex variable boundary element approach. Numerical Methods for Partial Differential Equations, 2012, 28, 954-965.	2.0	3

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73	Special Greenâ€™s function boundary element approach for steady-state axisymmetric heat conduction across low and high conducting planar interfaces. Applied Mathematical Modelling, 2013, 37, 1948-1965.	2.2	3
74	A micromechanical-statistical model based on hypersingular boundary integral equations for analyzing a pair of parallel interfaces weakened by antiplane micro-cracks. Computers and Structures, 2015, 157, 178-188.	2.4	3
75	Effective properties of magnetoelectroelastic interfaces weakened by microâ€cracks. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 727-748.	0.9	3
76	A numerical method based on boundary integral equations and radial basis functions for plane anisotropic thermoelastostatic equations with general variable coefficients. Applied Mathematics and Mechanics (English Edition), 2020, 41, 551-566.	1.9	3
77	A hypersingular-boundary integral equation method for the solution of an elastic multiple interacting crack problem. Engineering Analysis With Boundary Elements, 1993, 11, 33-37.	2.0	2
78	Photoelastic effect and mirage deflection in anisotropic materials. Applied Physics A: Materials Science and Processing, 2002, 74, 47-57.	1.1	2
79	A hypersingular boundary integral formulation for heat conduction across a curved imperfect interface. Communications in Numerical Methods in Engineering, 2007, 24, 841-851.	1.3	2
80	An axisymmetric heat conduction model for a multi-material cylindrical system with application to analysis of carbon nanotube based composites. International Journal of Engineering Science, 2007, 45, 22-33.	2.7	2
81	Handling light disturbances in a Micro Motion Sensing System and investigation of the system performance. , 2008, , .		2
82	Adaptive rate-dependent feedforward controller for hysteretic piezoelectric actuator. , 2008, , .		2
83	Numerical Green's functions for some electroelastic crack problems. Engineering Analysis With Boundary Elements, 2009, 33, 778-788.	2.0	2
84	Hypersingular integral equation based micromechanical models for a microscopically damaged antiplane interface between a thin elastic layer and an elastic half space. Applied Mathematical Modelling, 2015, 39, 6501-6516.	2.2	2
85	Effective behavior of a microscopically damaged interface between a layer and a half-space occupied by dissimilar piezoelectric media under antiplane deformations. International Journal of Solids and Structures, 2016, 96, 1-10.	1.3	2
86	Micro-statistical modeling of an imperfect interface in a piezoelectric bimaterial under inplane static deformations. Applied Mathematical Modelling, 2017, 50, 695-714.	2.2	2
87	A boundary element and radial basis function approximation method for a second order elliptic partial differential equation with general variable coefficients. Engineering Reports, 2019, 1, e12057.	0.9	2
88	Stresses around a periodic array of planar cracks in an anisotropic bimaterial. International Journal of Engineering Science, 1996, 34, 1457-1466.	2.7	1
89	Multiple interacting planar cracks in an anisotropic multilayered medium under an antiplane shear stress: a hypersingular integral approach. Engineering Analysis With Boundary Elements, 1996, 18, 297-303.	2.0	1
90	A Boundary Element Method for Generalized Plane Thermoelastic Deformations of Anisotropic Elastic Media. Mathematics and Mechanics of Solids, 1999, 4, 307-319.	1.5	1

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91	A hypersingular boundary integral equation for a class of antiplane multiple crack problems for inhomogeneous elastic materials. Communications in Numerical Methods in Engineering, 1999, 15, 183-191.	1.3	1
92	CVBEM for a Class of Linear Crack Problems. Mathematics and Mechanics of Solids, 2000, 5, 369-391.	1.5	1
93	A note on the CVBEM for the two-dimensional Helmholtz equation or its modified form. Communications in Numerical Methods in Engineering, 2002, 18, 599-604.	1.3	1
94	On a generalised plane strain crack problem for inhomogeneous anisotropic elastic materials. International Journal of Engineering Science, 2006, 44, 273-284.	2.7	1
95	Adaptive filtering of physiological tremor for real-time compensation. , 2009, , .		1
96	A hypersingular boundary integral analysis of axisymmetric steady-state heat conduction across a non-ideal interface between two dissimilar materials. Engineering Analysis With Boundary Elements, 2011, 35, 1090-1100.	2.0	1
97	Magnetoelectroelastodynamic interaction of multiple arbitrarily oriented planar cracks. Applied Mathematical Modelling, 2013, 37, 6979-6993.	2.2	1
98	A micromechanical model based on hypersingular integro-differential equations for analyzing micro-crazed interfaces between dissimilar elastic materials. Applied Mathematics and Mechanics (English Edition), 2020, 41, 193-206.	1.9	1
99	Adaptive estimation of EEG-rhythms for event classification. , 2009, , .		0
100	Dynamic response of planar cracks in an infinitely long piezoelectric strip. Applied Mathematics and Computation, 2013, 219, 7711-7724.	1.4	0
101	The inferior boundary condition of a continuous cantilever beam model of the human spine. Australasian Physical and Engineering Sciences in Medicine, 1996, 19, 26-30.	1.4	0
102	On the effective property of a micro-cracked and a microscopically curved interface between dissimilar materials. Forces in Mechanics, 2022, 7, 100091.	1.3	0