

# Whye-Teong Ang

## List of Publications by Year in descending order

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102  
papers

1,038  
citations

516561

16  
h-index

552653

26  
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103  
all docs

103  
docs citations

103  
times ranked

539  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the effective property of a micro-cracked and a microscopically curved interface between dissimilar materials. <i>Forces in Mechanics</i> , 2022, 7, 100091.	1.3	0
2	A micromechanical model based on hypersingular integro-differential equations for analyzing micro-crazed interfaces between dissimilar elastic materials. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020, 41, 193-206.	1.9	1
3	A numerical method based on boundary integral equations and radial basis functions for plane anisotropic thermoelastostatic equations with general variable coefficients. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020, 41, 551-566.	1.9	3
4	A boundary element approach for solving plane elastostatic equations of anisotropic functionally graded materials. <i>Numerical Methods for Partial Differential Equations</i> , 2019, 35, 1396-1411.	2.0	6
5	A boundary element and radial basis function approximation method for a second order elliptic partial differential equation with general variable coefficients. <i>Engineering Reports</i> , 2019, 1, e12057.	0.9	2
6	Effective properties of magnetoelastostatic interfaces weakened by micro-cracks. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2018, 98, 727-748.	0.9	3
7	A complex variable boundary element method for solving a steady-state advection-diffusion-reaction equation. <i>Applied Mathematics and Computation</i> , 2018, 321, 731-744.	1.4	5
8	Micro-statistical modeling of an imperfect interface in a piezoelectric bimaterial under inplane static deformations. <i>Applied Mathematical Modelling</i> , 2017, 50, 695-714.	2.2	2
9	Effective behavior of a microscopically damaged interface between a layer and a half-space occupied by dissimilar piezoelectric media under antiplane deformations. <i>International Journal of Solids and Structures</i> , 2016, 96, 1-10.	1.3	2
10	Numerical investigation of the meshless radial basis integral equation method for solving 2D anisotropic potential problems. <i>Engineering Analysis With Boundary Elements</i> , 2015, 53, 27-39.	2.0	11
11	Hypersingular integral equation based micromechanical models for a microscopically damaged antiplane interface between a thin elastic layer and an elastic half space. <i>Applied Mathematical Modelling</i> , 2015, 39, 6501-6516.	2.2	2
12	A micromechanical-statistical model based on hypersingular boundary integral equations for analyzing a pair of parallel interfaces weakened by antiplane micro-cracks. <i>Computers and Structures</i> , 2015, 157, 178-188.	2.4	3
13	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. <i>Engineering Analysis With Boundary Elements</i> , 2015, 52, 32-43.	2.0	8
14	Green's functions and boundary element analysis for bimetals with soft and stiff planar interfaces under plane elastostatic deformations. <i>Engineering Analysis With Boundary Elements</i> , 2014, 40, 50-61.	2.0	5
15	On micromechanical-statistical modeling of microscopically damaged interfaces under antiplane deformations. <i>International Journal of Solids and Structures</i> , 2014, 51, 2327-2335.	1.3	9
16	Dynamic response of planar cracks in an infinitely long piezoelectric strip. <i>Applied Mathematics and Computation</i> , 2013, 219, 7711-7724.	1.4	0
17	Magnetoelastodynamic interaction of multiple arbitrarily oriented planar cracks. <i>Applied Mathematical Modelling</i> , 2013, 37, 6979-6993.	2.2	1
18	Special Green's function boundary element approach for steady-state axisymmetric heat conduction across low and high conducting planar interfaces. <i>Applied Mathematical Modelling</i> , 2013, 37, 1948-1965.	2.2	3

#	ARTICLE	IF	CITATIONS
19	A dual-reciprocity boundary element method for axisymmetric thermoelastostatic analysis of nonhomogeneous materials. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 1776-1786.	2.0	7
20	Micro-mechanics models for an imperfect interface under anti-plane shear load: Hypersingular integral formulations. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 1856-1864.	2.0	7
21	Numerical solution of a linear elliptic partial differential equation with variable coefficients: A complex variable boundary element approach. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 954-965.	2.0	3
22	A complex variable boundary element method for axisymmetric heat conduction in a nonhomogeneous solid. <i>Applied Mathematics and Computation</i> , 2011, 218, 2225-2225.	1.4	7
23	A boundary integral approach for plane analysis of electrically semi-permeable planar cracks in a piezoelectric solid. <i>Engineering Analysis With Boundary Elements</i> , 2011, 35, 647-656.	2.0	4
24	A hypersingular boundary integral analysis of axisymmetric steady-state heat conduction across a non-ideal interface between two dissimilar materials. <i>Engineering Analysis With Boundary Elements</i> , 2011, 35, 1090-1100.	2.0	1
25	Dynamic interaction of multiple arbitrarily oriented planar cracks in a piezoelectric space: A semi-analytic solution. <i>European Journal of Mechanics, A/Solids</i> , 2011, 30, 608-618.	2.1	10
26	Nonlinear heat equation for nonhomogeneous anisotropic materials: A dual-reciprocity boundary element solution. <i>Numerical Methods for Partial Differential Equations</i> , 2010, 26, 771-784.	2.0	4
27	A dual-reciprocity boundary element approach for axisymmetric nonlinear time-dependent heat conduction in a nonhomogeneous solid. <i>Engineering Analysis With Boundary Elements</i> , 2010, 34, 697-706.	2.0	12
28	Electro-elastostatic analysis of multiple cracks in an infinitely long piezoelectric strip: A hypersingular integral approach. <i>European Journal of Mechanics, A/Solids</i> , 2010, 29, 410-419.	2.1	4
29	Adaptive estimation of EEG-rhythms for event classification. , 2009, , .		0
30	Real-time estimation and prediction of periodic signals from attenuated and phase-shifted sensed signals. , 2009, , .		5
31	On some contact problems for inhomogeneous anisotropic elastic materials. <i>International Journal of Engineering Science</i> , 2009, 47, 1149-1162.	2.7	6
32	A boundary element model for investigating the effects of eye tumor on the temperature distribution inside the human eye. <i>Computers in Biology and Medicine</i> , 2009, 39, 667-677.	3.9	31
33	Numerical Green's functions for some electroelastic crack problems. <i>Engineering Analysis With Boundary Elements</i> , 2009, 33, 778-788.	2.0	2
34	Physiological tremor sensing using only accelerometers for real-time compensation. , 2009, , .		12
35	Placement of accelerometers in a hand-held active tremor compensation instrument for high angular sensing resolution. , 2009, , .		4
36	Adaptive filtering of physiological tremor for real-time compensation. , 2009, , .		1

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37	Identification of accelerometer orientation errors and compensation for acceleration estimation errors. , 2009, , .		5
38	A compact hand-held active physiological tremor compensation instrument. , 2009, , .		23
39	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
40	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
41	A boundary element model of the human eye undergoing laser thermokeratoplasty. Computers in Biology and Medicine, 2008, 38, 727-737.	3.9	46
42	Handling light disturbances in a Micro Motion Sensing System and investigation of the system performance. , 2008, , .		2
43	Compact sensing design of a hand-held active tremor compensation instrument for better ergonomics. , 2008, , .		5
44	Kalman filtering of accelerometer and electromyography (EMG) data in pathological tremor sensing system. , 2008, , .		14
45	Adaptive rate-dependent feedforward controller for hysteretic piezoelectric actuator. , 2008, , .		2
46	Design and Calibration of an Optical Micro Motion Sensing System for Micromanipulation Tasks. , 2007, , .		17
47	Towards a sensing system for quantification of pathological tremor. , 2007, , .		6
48	Real-Time Disturbance Compensation with Accelerometers & Piezoelectric-Driven Mechanism. , 2007, , .		3
49	Rate-Dependent Hysteresis Model of Piezoelectric using Singularity Free Prandtl-Ishlinskii Model. , 2007, , .		6
50	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
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	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
53	Bioheat transfer in the human eye: A boundary element approach. Engineering Analysis With Boundary Elements, 2007, 31, 494-500.	2.0	69
54	Modeling Piezoelectric Actuator Hysteresis with Singularity Free Prandtl-Ishlinskii Model. , 2006, , .		19

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55	On the indentation of an inhomogeneous anisotropic elastic material by multiple straight rigid punches. <i>Engineering Analysis With Boundary Elements</i> , 2006, 30, 284-291.	2.0	5
56	Non-steady state heat conduction across an imperfect interface: A dual-reciprocity boundary element approach. <i>Engineering Analysis With Boundary Elements</i> , 2006, 30, 781-789.	2.0	6
57	Numerical solution of a non-classical parabolic problem: An integro-differential approach. <i>Applied Mathematics and Computation</i> , 2006, 175, 969-979.	1.4	16
58	A numerical method for the wave equation subject to a non-local conservation condition. <i>Applied Numerical Mathematics</i> , 2006, 56, 1054-1060.	1.2	34
59	On a generalised plane strain crack problem for inhomogeneous anisotropic elastic materials. <i>International Journal of Engineering Science</i> , 2006, 44, 273-284.	2.7	1
60	A time-stepping dual-reciprocity boundary element method for anisotropic heat diffusion subject to specification of energy. <i>Applied Mathematics and Computation</i> , 2005, 162, 661-678.	1.4	14
61	A numerical Green's function for multiple cracks in anisotropic bodies. <i>Journal of Engineering Mathematics</i> , 2004, 49, 197-207.	0.6	13
62	A Green's function for steady-state two-dimensional isotropic heat conduction across a homogeneously imperfect interface. <i>Communications in Numerical Methods in Engineering</i> , 2004, 20, 391-399.	1.3	11
63	A dual-reciprocity boundary element solution of a generalized nonlinear Schrödinger equation. <i>Numerical Methods for Partial Differential Equations</i> , 2004, 20, 843-854.	2.0	24
64	Modeling of PCF with multiple reciprocity boundary element method. <i>Optics Express</i> , 2004, 12, 961.	1.7	9
65	A Method of Solution for the One-Dimensional Heat Equation Subject to Nonlocal Conditions. <i>Southeast Asian Bulletin of Mathematics</i> , 2003, 26, 185-191.	0.1	20
66	A dual-reciprocity boundary element method for a class of elliptic boundary value problems for non-homogeneous anisotropic media. <i>Engineering Analysis With Boundary Elements</i> , 2003, 27, 49-55.	2.0	39
67	The two-dimensional reaction-diffusion Brusselator system: a dual-reciprocity boundary element solution. <i>Engineering Analysis With Boundary Elements</i> , 2003, 27, 897-903.	2.0	39
68	The Determination Of A Control Parameter In A Two-Dimensional Diffusion Equation Using A Dual-Reciprocity Boundary Element Method. <i>International Journal of Computer Mathematics</i> , 2003, 80, 65-74.	1.0	8
69	A note on the CVBEM for the two-dimensional Helmholtz equation or its modified form. <i>Communications in Numerical Methods in Engineering</i> , 2002, 18, 599-604.	1.3	1
70	Photoelastic effect and mirage deflection in anisotropic materials. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, 47-57.	1.1	2
71	A boundary integral method for the three-dimensional heat equation subject to specification of energy. <i>Journal of Computational and Applied Mathematics</i> , 2001, 135, 303-311.	1.1	6
72	A boundary integral equation method for the two-dimensional diffusion equation subject to a non-local condition. <i>Engineering Analysis With Boundary Elements</i> , 2001, 25, 1-6.	2.0	10

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73	A complex variable boundary element method for an elliptic partial differential equation with variable coefficients. <i>Communications in Numerical Methods in Engineering</i> , 2000, 16, 697-703.	1.3	15
74	CVBEM for a Class of Linear Crack Problems. <i>Mathematics and Mechanics of Solids</i> , 2000, 5, 369-391.	1.5	1
75	A complex variable boundary element method for elliptic partial differential equations in a multiple-connected region. <i>International Journal of Computer Mathematics</i> , 2000, 75, 515-525.	1.0	19
76	A Boundary Element Method for Generalized Plane Thermoelastic Deformations of Anisotropic Elastic Media. <i>Mathematics and Mechanics of Solids</i> , 1999, 4, 307-319.	1.5	1
77	A complex variable boundary element method for a class of boundary value problems in anisotropic thermoelasticity. <i>International Journal of Computer Mathematics</i> , 1999, 70, 571-586.	1.0	6
78	A hypersingular boundary integral equation for antiplane crack problems for a class of inhomogeneous anisotropic elastic materials. <i>Engineering Analysis With Boundary Elements</i> , 1999, 23, 567-572.	2.0	8
79	Hypersingular integral equations for a thermoelastic problem of multiple planar cracks in an anisotropic medium. <i>Engineering Analysis With Boundary Elements</i> , 1999, 23, 713-720.	2.0	9
80	A hypersingular boundary integral equation for a class of antiplane multiple crack problems for inhomogeneous elastic materials. <i>Communications in Numerical Methods in Engineering</i> , 1999, 15, 183-191.	1.3	1
81	Efficient parallel algorithm for the two-dimensional diffusion equation subject to specification of mass. <i>International Journal of Computer Mathematics</i> , 1997, 64, 153-163.	1.0	21
82	Stresses around a periodic array of planar cracks in an anisotropic bimaterial. <i>International Journal of Engineering Science</i> , 1996, 34, 1457-1466.	2.7	1
83	Multiple interacting planar cracks in an anisotropic multilayered medium under an antiplane shear stress: a hypersingular integral approach. <i>Engineering Analysis With Boundary Elements</i> , 1996, 18, 297-303.	2.0	1
84	A boundary element method for a second order elliptic partial differential equation with variable coefficients. <i>Engineering Analysis With Boundary Elements</i> , 1996, 18, 311-316.	2.0	46
85	The inferior boundary condition of a continuous cantilever beam model of the human spine. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 1996, 19, 26-30.	1.4	0
86	Hypersingular integral equations for multiple interacting planar cracks in an elastic layered material under antiplane shear stresses. <i>Engineering Analysis With Boundary Elements</i> , 1995, 16, 289-295.	2.0	6
87	Scattering and diffraction of sh waves by multiple planar cracks in an anisotropic half-space: A hypersingular integral formulation. <i>International Journal of Solids and Structures</i> , 1993, 30, 1301-1312.	1.3	4
88	A hypersingular-boundary integral equation method for the solution of an elastic multiple interacting crack problem. <i>Engineering Analysis With Boundary Elements</i> , 1993, 11, 33-37.	2.0	2
89	Coplanar cracks in a finite rectangular anisotropic elastic slab under antiplane shear stresses: A hypersingular integral formulation. <i>Engineering Fracture Mechanics</i> , 1993, 45, 431-437.	2.0	3
90	A pair of arbitrarily-oriented coplanar cracks in an anisotropic elastic slab. <i>Journal of the Australian Mathematical Society Series B Applied Mathematics</i> , 1991, 32, 284-295.	0.3	5

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91	Static stresses in a periodically layered anisotropic elastic composite containing a periodic array of planar cracks. <i>Acta Mechanica</i> , 1991, 86, 193-200.	1.1	5
92	An arbitrarily-oriented plane crack in an anisotropic elastic slab. <i>Engineering Fracture Mechanics</i> , 1989, 32, 965-972.	2.0	7
93	Magnetic stresses in an anisotropic soft ferromagnetic material with a crack. <i>International Journal of Engineering Science</i> , 1989, 27, 1519-1526.	2.7	7
94	A cracked anisotropic elastic slab. <i>International Journal of Engineering Science</i> , 1988, 26, 277-283.	2.7	11
95	Stress intensity factors for the circular annulus crack. <i>International Journal of Engineering Science</i> , 1988, 26, 325-329.	2.7	25
96	An anisotropic layered material with a crack. <i>Acta Mechanica</i> , 1988, 72, 297-308.	1.1	3
97	A Crack in an Anisotropic Layered Material Under the Action of Impact Loading. <i>Journal of Applied Mechanics</i> , <i>Transactions ASME</i> , 1988, 55, 120-125.	1.1	37
98	On some crack problems for inhomogeneous elastic materials. <i>International Journal of Solids and Structures</i> , 1987, 23, 1089-1104.	1.3	41
99	Transient response of a crack in an anisotropic strip. <i>Acta Mechanica</i> , 1987, 70, 97-109.	1.1	16
100	A boundary integral equation for deformations of an elastic body with an arc crack. <i>Quarterly of Applied Mathematics</i> , 1987, 45, 131-139.	0.5	14
101	A boundary element method for determining the effect of holes on the stress distribution around a crack. <i>International Journal for Numerical Methods in Engineering</i> , 1986, 23, 1727-1737.	1.5	17
102	A boundary integral solution for the problem of multiple interacting cracks in an elastic material. <i>International Journal of Fracture</i> , 1986, 31, 259-270.	1.1	25