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Citation Report

#	Article	IF	CITATIONS
1	A method of solution for certain problems of transient heat conduction. AIAA Journal, 1970, 8, 2004-2009.	1.5	191
2	Computation of 3D MEMS electrostatics using a nearly exact BEM solver. Engineering Analysis With Boundary Elements, 2006, 30, 687-696.	2.0	24
3	Numerical examination for degenerate scale problem for ellipse-shaped ring region in BIE. International Journal for Numerical Methods in Engineering, 2007, 71, 1208-1230.	1.5	14
4	Trefftz, collocation, and other boundary methodsâ€"A comparison. Numerical Methods for Partial Differential Equations, 2007, 23, 93-144.	2.0	82
5	Eigenvalue and eigenfunction analysis arising from degenerate scale problem of BIE in plane elasticity. Engineering Analysis With Boundary Elements, 2007, 31, 994-1002.	2.0	9
6	Regularity condition and numerical examination for degenerate scale problem of BIE for exterior problem of plane elasticity. Engineering Analysis With Boundary Elements, 2008, 32, 811-823.	2.0	18
7	Prediction of wave pattern and wave resistance of surface piercing bodies by a boundary element method. International Journal for Numerical Methods in Fluids, 2008, 56, 305-329.	0.9	39
8	The fundamental solution of Mindlin plates with damping in the Laplace domain and its applications. Engineering Analysis With Boundary Elements, 2008, 32, 870-882.	2.0	12
9	The fundamental solution of Mindlin plates resting on an elastic foundation in the Laplace domain and its applications. International Journal of Solids and Structures, 2008, 45, 1032-1050.	1.3	23
10	Symmetric Galerkin Boundary Element Method. , 2008, , .		3
11	Poroelastodynamics: Linear Models, Analytical Solutions, and Numerical Methods. Applied Mechanics Reviews, 2009, 62, .	4.5	150
12	ALTERNATIVE TIME DOMAIN BOUNDARY INTEGRAL EQUATIONS FOR THE SCALAR WAVE EQUATION USING DIVERGENCE-FREE REGULARIZATION TERMS. Journal of Computational Acoustics, 2009, 17, 211-218.	1.0	O
13	A new kernel in BIE and the exterior boundary value problem in plane elasticity. Acta Mechanica, 2009, 206, 207-224.	1.1	14
14	Comparison of boundary collocation methods for singular and non-singular axisymmetric heat transfer problems. Engineering Analysis With Boundary Elements, 2009, 33, 704-716.	2.0	7
15	The method of particular solutions for solving axisymmetric polyharmonic and poly-Helmholtz equations. Engineering Analysis With Boundary Elements, 2009, 33, 1396-1402.	2.0	13
16	Evaluation of the degenerate cools for DIE in plans electicity and entirland electicity by using		
	Evaluation of the degenerate scale for BIE in plane elasticity and antiplane elasticity by using conformal mapping. Engineering Analysis With Boundary Elements, 2009, 33, 147-158.	2.0	37
17	conformal mapping. Engineering Analysis With Boundary Elements, 2009, 33, 147-158. Poroelastic analysis of bone tissue differentiation by using the boundary element method. Engineering Analysis With Boundary Elements, 2009, 33, 731-740.	2.0	8

#	Article	IF	Citations
19	Finite element computation of absorbing boundary conditions for time-harmonic wave problems. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3006-3019.	3.4	7
20	Mining-induced fault reactivation associated with the main conveyor belt roadway and safety of the Barapukuria Coal Mine in Bangladesh: Constraints from BEM simulations. International Journal of Coal Geology, 2009, 79, 115-130.	1.9	106
21	Particular solutions of splines and monomials for polyharmonic and products of Helmholtz operators. Engineering Analysis With Boundary Elements, 2009, 33, 514-521.	2.0	36
22	The degenerate scale problem for the Laplace equation and plane elasticity in a multiply connected region with an outer circular boundary. International Journal of Solids and Structures, 2009, 46, 2605-2610.	1.3	15
23	Recent Advances in Boundary Element Methods., 2009,,.		7
24	Prediction and parametric analysis of thermal profiles within heated human skin using the boundary element method. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 655-678.	1.6	42
25	Trefftz method in solving the inverse problems. Journal of Inverse and Ill-Posed Problems, 2010, 18, 595-616.	0.5	26
26	Formulation of indirect BIEs in plane elasticity using single or double layer potentials and complex variable. Engineering Analysis With Boundary Elements, 2010, 34, 337-351.	2.0	4
27	Development and implementation of some BEM variantsâ€"A critical review. Engineering Analysis With Boundary Elements, 2010, 34, 884-899.	2.0	26
28	Degenerate scale problem for plane elasticity in a multiply connected region with outer elliptic boundary. Archive of Applied Mechanics, 2010, 80, 1055-1067.	1.2	5
29	Degenerate scale problem for the Laplace equation in the multiply connected region with outer elliptic boundary. Acta Mechanica, 2010, 215, 225-233.	1.1	8
30	Dual boundary integral equation formulation in antiplane elasticity using complex variable. Computational Mechanics, 2010, 45, 167-178.	2.2	9
31	A novel numerical method for infinite domain potential problems. Science Bulletin, 2010, 55, 1598-1603.	1.7	29
32	Degenerate scale problem arising from curved rigid line inclusion. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 637-645.	1.0	1
33	Reconstruction of dynamic displacement and velocity from measured accelerations using the variational statement of an inverse problem. Journal of Sound and Vibration, 2010, 329, 4980-5003.	2.1	78
34	Dual boundary integral equation formulation in plane elasticity using complex variable. Engineering Analysis With Boundary Elements, 2010, 34, 834-844.	2.0	15
35	Definition and interests of reciprocity and reciprocity gap principles for groundwater flow problems. Advances in Water Resources, 2010, 33, 899-904.	1.7	11
36	The method of fundamental solutions for oscillatory and porous buoyant flows. Computers and Fluids, 2010, 39, 696-708.	1.3	9

#	Article	IF	CITATIONS
37	Advanced quadrature methods and splitting extrapolation algorithms for first kind boundary integral equations of Laplace's equation with discontinuity solutions. Engineering Analysis With Boundary Elements, 2010, 34, 1003-1008.	2.0	5
38	Solutions of the interior and exterior boundary value problems in plane elasticity by using dislocation distribution layer. International Journal of Solids and Structures, 2010, 47, 355-364.	1.3	8
39	Influence of different integral kernels on the solutions of boundary integral equations in plane elasticity. Journal of Mechanics of Materials and Structures, 2010, 5, 679-692.	0.4	4
40	Anisotropy of electrical conductivity in a pentacene crystal grain on SiO2 evaluated by atomic-force-microscope potentiometry and electrostatic simulation. Applied Physics Letters, 2010, 96,	1.5	2
41	3D-ICE: Fast compact transient thermal modeling for 3D ICs with inter-tier liquid cooling. , 2010, , .		213
42	Stochastic electrochemistry with electrocatalytic nanoparticles at inert ultramicroelectrodesâ€"theory and experiments. Physical Chemistry Chemical Physics, 2011, 13, 5394.	1.3	160
43	Integrated Assessment of the European WFD Implementation in Extremely Overexploited Aquifers Through Participatory Modelling. Water Resources Management, 2011, 25, 3343-3370.	1.9	28
44	Stress analysis for multilayered coating systems using semi-analytical BEM with geometric non-linearities. Computational Mechanics, 2011, 47, 493-504.	2.2	28
45	Internal stress analysis for single and multilayered coating systems using the boundary element method. Engineering Analysis With Boundary Elements, 2011, 35, 708-717.	2.0	28
46	A natural stress boundary integral equation for calculating the near boundary stress field. Computers and Structures, 2011, 89, 1449-1455.	2.4	13
47	Singular boundary method for solving plane strain elastostatic problems. International Journal of Solids and Structures, 2011, 48, 2549-2556.	1.3	96
48	Numerical solution for degenerate scale problem arising from multiple rigid lines in plane elasticity. Applied Mathematics and Computation, 2011, 218, 96-106.	1.4	14
49	A meshless method for solving nonhomogeneous Cauchy problems. Engineering Analysis With Boundary Elements, 2011, 35, 499-506.	2.0	11
50	Automatic particular solutions of arbitrary high-order splines associated with polyharmonic and poly-Helmholtz equations. Engineering Analysis With Boundary Elements, 2011, 35, 925-934.	2.0	9
51	Solution of multiple crack problem in a finite plate using an alternating method based on two kinds of integral equation. Engineering Analysis With Boundary Elements, 2011, 35, 1109-1115.	2.0	7
52	Splitting extrapolation algorithms for solving the boundary integral equations of Steklov problems on polygons by mechanical quadrature methods. Engineering Analysis With Boundary Elements, 2011, 35, 1136-1141.	2.0	6
53	Solution for hole problems of elastic half-plane with gravity force using boundary integral equation. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 520-526.	2.6	6
54	FEM Simulation of Strain Rate in High Speed Grinding. Advanced Materials Research, 0, 223, 813-820.	0.3	4

#	Article	IF	Citations
55	Particular Solution of Polyharmonic Spline Associated with Reissner Plate Problems. Journal of Mechanics, 2011, 27, 493-501.	0.7	3
56	Recent Advances and Emerging Applications of the Boundary Element Method. Applied Mechanics Reviews, 2011, 64, .	4.5	121
57	A Singularity-Free Boundary Equation Method for Wave Scattering. IEEE Transactions on Antennas and Propagation, 2011, 59, 555-562.	3.1	10
58	Review and comparison of different support loss models for micro-electro-mechanical systems resonators undergoing in-plane vibration. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 283-295.	1.1	19
59	Evaluation and modeling of lanthanum diffusion in TiN/La2O3/HfSiON/SiO2/Si high-k stacks. Applied Physics Letters, 2012, 101, 182901.	1.5	11
60	An Improved Formulation of Singular Boundary Method. Advances in Applied Mathematics and Mechanics, 2012, 4, 543-558.	0.7	60
61	Boundary integral equation for notch problems in an elastic half-plane based on Green's function method. Journal of Mechanics of Materials and Structures, 2012, 7, 963-981.	0.4	1
62	Maurice Jaswon and boundary element methods. Engineering Analysis With Boundary Elements, 2012, 36, 1699-1704.	2.0	1
63	Theoretical considerations on the modelling of transport in a three-phase electrode and application to a proton conducting solid oxide electrolysis cell. International Journal of Hydrogen Energy, 2012, 37, 11579-11594.	3.8	15
64	SOLVING FOR MICRO- AND MACRO-SCALE ELECTROSTATIC CONFIGURATIONS USING THE ROBIN HOOD ALGORITHM. Progress in Electromagnetics Research B, 2012, 39, 1-37.	0.7	7
65	Non-singular boundary integral methods for fluid mechanics applications. Journal of Fluid Mechanics, 2012, 696, 468-478.	1.4	42
66	Analytical particular solutions of augmented polyharmonic spline associated with Mindlin plate model. Numerical Methods for Partial Differential Equations, 2012, 28, 1778-1793.	2.0	3
67	Numerical solution of elastic inclusion problem using complex variable boundary integral equation. Acta Mechanica, 2012, 223, 705-720.	1.1	11
68	Approximate analytic solution of the Dirichlet problems for Laplace's equation in planar domains by a perturbation method. Computers and Mathematics With Applications, 2012, 63, 60-67.	1.4	3
69	Singular boundary method for steady-state heat conduction in three dimensional general anisotropic media. International Journal of Heat and Mass Transfer, 2012, 55, 4837-4848.	2.5	88
70	Boundary integral equation method for periodic dissimilar elastic inclusions in an infinite plate. Applied Mathematics and Computation, 2012, 218, 8578-8591.	1.4	3
71	Parallel computational models for composites reinforced by CNT-fibres. Engineering Analysis With Boundary Elements, 2012, 36, 47-52.	2.0	11
72	Boundary integral equation method for two dissimilar elastic inclusions in an infinite plate. Engineering Analysis With Boundary Elements, 2012, 36, 137-146.	2.0	5

#	ARTICLE	IF	CITATIONS
74	A regularization method for the approximate particular solution of nonhomogeneous Cauchy problems of elliptic partial differential equations with variable coefficients. Engineering Analysis With Boundary Elements, 2012, 36, 274-280.	2.0	8
75	Investigation on near-boundary solutions by singular boundary method. Engineering Analysis With Boundary Elements, 2012, 36, 1173-1182.	2.0	50
76	Simulation of sound absorption in 2D thin elements using a coupled BEM/TBEM formulation in the presence of fixed and moving 3D sources. Journal of Sound and Vibration, 2012, 331, 2386-2403.	2.1	11
77	Guided plate wave scattering at vertical stiffeners and its effect on source location. Ultrasonics, 2012, 52, 687-693.	2.1	10
78	Splitting extrapolation algorithm for first kind boundary integral equations with singularities by mechanical quadrature methods. Advances in Computational Mathematics, 2012, 36, 79-97.	0.8	7
79	Multiquadric and Chebyshev approximation to three-dimensional thermoelasticity with arbitrary body forces. Engineering Analysis With Boundary Elements, 2013, 37, 1259-1266.	2.0	4
80	Stress analysis for thin multilayered coating systems using a sinh transformed boundary element method. International Journal of Solids and Structures, 2013, 50, 3460-3471.	1.3	58
81	Seepage analysis in multi-domain general anisotropic media by three-dimensional boundary elements. Engineering Analysis With Boundary Elements, 2013, 37, 527-541.	2.0	12
83	A Quadratic Boundary Implementation for Solving 2D Problems of Elasticity by Topology Optimization. Applied Mechanics and Materials, 2013, 394, 554-559.	0.2	0
84	A Self-Consistent Electrothermal Model for Analyzing NBTI Effect in p-Type Poly-Si Thin-Film Transistors. IEEE Transactions on Electron Devices, 2013, 60, 288-294.	1.6	10
85	Non-reflecting boundary condition for Lamb wave propagation problems in honeycomb and CFRP plates using dashpot elements. Composites Part B: Engineering, 2013, 54, 1-10.	5.9	12
86	Solution for Eshelby's elastic inclusions in a finite plate using boundary integral equation method. Engineering Analysis With Boundary Elements, 2013, 37, 1089-1094.	2.0	2
87	The development of the pFFT accelerated BEM for 3-D acoustic scattering problems based on the Burton and Miller's integral formulation. Engineering Analysis With Boundary Elements, 2013, 37, 409-418.	2.0	16
88	Design of the FEM-FIR filter for displacement reconstruction using accelerations and displacements measured at different sampling rates. Mechanical Systems and Signal Processing, 2013, 38, 460-481.	4.4	46
89	The sinh transformation for evaluating nearly singular boundary element integrals over high-order geometry elements. Engineering Analysis With Boundary Elements, 2013, 37, 301-308.	2.0	39
90	Infinite domain potential problems by a new formulation of singular boundary method. Applied Mathematical Modelling, 2013, 37, 1638-1651.	2.2	41
91	Fast global illumination for interactive volume visualization. , 2013, , .		21
92	Wave-based sound propagation in large open scenes using an equivalent source formulation. ACM Transactions on Graphics, 2013, 32, 1-13.	4.9	55

#	Article	IF	CITATIONS
93	A Variational Boundary Element Formulation for Shear-Deformable Plate Bending Problems. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	4
94	FRACTAL ANALYSIS OF LIPASE–CATALYSED SYNTHESIS OF BUTYL BUTYRATE IN A MICROBIOREACTOR UNDER THE INFLUENCE OF NOISE. Fractals, 2013, 21, 1350007.	1.8	1
95	ABSORBING BOUNDARY CONDITIONS FOR A WAVE EQUATION WITH A TEMPERATURE-DEPENDENT SPEED OF SOUND. Journal of Computational Acoustics, 2013, 21, 1250028.	1.0	1
96	Simulation of a flowing snow avalanche using molecular dynamics. Turkish Journal of Electrical Engineering and Computer Sciences, 2014, 22, 1596-1610.	0.9	1
97	Thermal Properties of Short Fibre Composites Modeled by Meshless Method. Advances in Materials Science and Engineering, 2014, 2014, 1-8.	1.0	7
98	Nonlinear sloshing of liquid in rigid cylindrical container with a rigid annular baffle: free vibration. Nonlinear Dynamics, 2014, 78, 2557-2576.	2.7	17
99	Wave-based sound propagation for VR applications. , 2014, , .		4
100	Reflection and transmission of guided ultrasonic plate waves by vertical stiffeners. Journal of the Acoustical Society of America, 2014, 136, 170-182.	0.5	19
101	The Use of the Boundary Element Method in the Analysis of Single Lap Joints. Journal of Adhesion, 2014, 90, 50-64.	1.8	10
102	Mumford-Shah Based Unsupervised Segmentation of Brain Tissue on MR Images. IFMBE Proceedings, 2014, , 265-268.	0.2	O
103	The singular boundary method: Mathematical background and application in orthotropic elastic problems. Engineering Analysis With Boundary Elements, 2014, 44, 152-160.	2.0	18
104	Singular boundary method for modified Helmholtz equations. Engineering Analysis With Boundary Elements, 2014, 44, 112-119.	2.0	42
105	Burton–Miller-type singular boundary method for acoustic radiation and scattering. Journal of Sound and Vibration, 2014, 333, 3776-3793.	2.1	103
106	An improved exponential transformation for nearly singular boundary element integrals in elasticity problems. International Journal of Solids and Structures, 2014, 51, 1322-1329.	1.3	38
107	Automatic thermal analysis of gravity dams with fast boundary face method. Engineering Analysis With Boundary Elements, 2014, 41, 111-121.	2.0	8
108	Demonstrating large-scale cooling in a Variscan terrane by coupled groundwater and heat flow modelling. Geothermics, 2014, 51, 71-90.	1.5	4
109	Spin hot spots in singleâ€electron GaAsâ€based quantum dots. Physica Status Solidi (B): Basic Research, 2014, 251, 1924-1930.	0.7	2
110	GPU-Based Acceleration for Interior Tomography. IEEE Access, 2014, 2, 757-770.	2.6	10

#	Article	IF	CITATIONS
111	A domain renumbering algorithm for multi-domain boundary face method. Engineering Analysis With Boundary Elements, 2014, 44, 19-27.	2.0	3
112	An Approach Based on Generalized Functions to Regularize Divergent Integrals. Engineering Analysis With Boundary Elements, 2014, 40, 162-180.	2.0	1
113	Numerical solution of the t-version complex variable boundary integral equation for the interior region in plane elasticity. Engineering Analysis With Boundary Elements, 2014, 46, 75-84.	2.0	1
114	Transient free-surface seepage in three-dimensional general anisotropic media by BEM. Engineering Analysis With Boundary Elements, 2014, 46, 51-66.	2.0	24
115	Design of an electron-optical system with a ball-tip emission source through a numerical optimization method for high-throughput electron-beam–direct-write lithography. Japanese Journal of Applied Physics, 2015, 54, 06FD01.	0.8	0
116	Numerical methods for time-domain and frequency-domain analysis: applications in engineering. IOP Conference Series: Materials Science and Engineering, 2015, 95, 012082.	0.3	2
117	Structural Insights Reveal the Dynamics of the Repeating r(CAG) Transcript Found in Huntington's Disease (HD) and Spinocerebellar Ataxias (SCAs). PLoS ONE, 2015, 10, e0131788.	1.1	26
118	Polyharmonic Multiquadric Particular Solutions for Reissner/Mindlin Plate. Mathematical Problems in Engineering, 2015, 2015, 1-12.	0.6	O
119	Alternative applications of the method of moments: from electromagnetic waves to source synthesis, deconvolution, and data processing in navigation systems. Proceedings of SPIE, 2015, , .	0.8	0
120	Simulations on the influence of the spatial distribution of source electrons on the plasma in a cusped-field thruster. European Physical Journal D, 2015, 69, 1.	0.6	4
121	WAVE: Interactive Wave-based Sound Propagation for Virtual Environments. IEEE Transactions on Visualization and Computer Graphics, 2015, 21, 434-442.	2.9	41
122	Influence of a nearby substrate on the reorganization energy of hole exchange between dye molecules. Physical Chemistry Chemical Physics, 2015, 17, 7345-7354.	1.3	12
123	Singular boundary method for heat conduction problems with certain spatially varying conductivity. Computers and Mathematics With Applications, 2015, 69, 206-222.	1.4	43
124	FE2 Method for Coupled Transient Diffusion Phenomena in Concrete. Journal of Engineering Mechanics - ASCE, 2015, 141, .	1.6	4
125	A meshless singular boundary method for three-dimensional inverse heat conduction problems in general anisotropic media. International Journal of Heat and Mass Transfer, 2015, 84, 91-102.	2.5	46
126	Accurate numerical evaluation of domain integrals in 3D boundary element method for transient heat conduction problem. Engineering Analysis With Boundary Elements, 2015, 60, 89-94.	2.0	9
127	Regularization of divergent integrals: A comparison of the classical and generalized-functions approaches. Advances in Computational Mathematics, 2015, 41, 727-780.	0.8	9
128	The indirect boundary element method to simulate elastic wave propagation in a 2-D piecewise homogeneous domain. Geophysical Journal International, 2015, 202, 1760-1769.	1.0	6

#	Article	IF	CITATIONS
129	Is the Burton–Miller formulation really free of fictitious eigenfrequencies?. Engineering Analysis With Boundary Elements, 2015, 59, 43-51.	2.0	72
130	Transient heat conduction analysis of functionally graded materials by a multiple reciprocity boundary face method. Engineering Analysis With Boundary Elements, 2015, 60, 81-88.	2.0	17
131	Stress analysis for two-dimensional thin structural problems using the meshless singular boundary method. Engineering Analysis With Boundary Elements, 2015, 59, 1-7.	2.0	12
132	Neumann problems of Laplace׳s equation in circular domains with circular holes by methods of field equations. Engineering Analysis With Boundary Elements, 2015, 51, 156-173.	2.0	5
133	A new extension of boundary elements method for classical elliptic partial differential equations with constant coefficients. Numerical Methods for Partial Differential Equations, 2015, 31, 2027-2042.	2.0	0
134	Some recent advances in 3D crack and contact analysis of elastic solids with transverse isotropy and multifield coupling. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 601-626.	1.5	34
136	Numerical Methods in the Design of Energy Analyzers. Advances in Imaging and Electron Physics, 2015, 192, 117-169.	0.1	1
137	Calculation of three-dimensional nearly singular boundary element integrals for steady-state heat conduction. Engineering Analysis With Boundary Elements, 2015, 60, 137-143.	2.0	16
138	Boundary element analysis of inverse heat conduction problems in 2D thin-walled structures. International Journal of Heat and Mass Transfer, 2015, 91, 1001-1009.	2.5	34
139	Numerical modeling and analysis for forming process of dual-phase 980 steel exposed to infrared local heating. International Journal of Solids and Structures, 2015, 75-76, 211-224.	1.3	24
140	Properties of integral operators and solutions for complex variable boundary integral equation in plane elasticity for multiply connected regions. Engineering Analysis With Boundary Elements, 2015, 52, 44-55.	2.0	4
143	Numerical Investigation on Convergence Rate of Singular Boundary Method. Mathematical Problems in Engineering, 2016, 2016, 1-13.	0.6	5
144	A three-dimensional analysis of simultaneous and sequential fracturing of horizontal wells. Journal of Petroleum Science and Engineering, 2016, 146, 1006-1025.	2.1	83
145	A new boundary meshfree method for potential problems. Advances in Engineering Software, 2016, 100, 32-42.	1.8	7
146	Average source boundary node method for potential problems. Engineering Analysis With Boundary Elements, 2016, 70, 114-125.	2.0	12
147	Asynchronous changes of CO ₂ , H ₂ , and He concentrations in soil gases: A theoretical model and experimental results. Journal of Geophysical Research: Solid Earth, 2016, 121, 1565-1583.	1.4	10
148	Degenerate Scale Problem for a Hypocycloid Hole in an Infinite Plate in Plane Elasticity. Journal of Mechanics, 2016, 32, N7-N10.	0.7	1
149	Numerical Solution of PDEs. , 0, , 102-224.		0

#	Article	IF	CITATIONS
150	Governing Equation. Theory and Applications of Transport in Porous Media, 2016, , 189-228.	0.4	0
151	Fundamental Solution and Integral Equation. Theory and Applications of Transport in Porous Media, 2016, , 397-473.	0.4	0
152	Singular boundary method using time-dependent fundamental solution for transient diffusion problems. Engineering Analysis With Boundary Elements, 2016, 68, 115-123.	2.0	22
153	Crack analysis by using the enriched singular boundary method. Engineering Analysis With Boundary Elements, 2016, 72, 55-64.	2.0	9
155	Interior field methods for Neumann problems of Laplace's equation in elliptic domains, comparisons with degenerate scales. Engineering Analysis With Boundary Elements, 2016, 71, 190-202.	2.0	3
156	Explicit empirical formula evaluating original intensity factors of singular boundary method for potential and Helmholtz problems. Engineering Analysis With Boundary Elements, 2016, 73, 161-169.	2.0	55
157	A Study on Fourier Spectral and Fourier-Hankel Spectral Field Variable Approximations in BEM for 2D Interior Helmholtz Problems. Procedia Engineering, 2016, 144, 520-527.	1.2	1
158	Investigation on the dynamics of air-gun array bubbles based on the dual fast multipole boundary element method. Ocean Engineering, 2016, 124, 157-167.	1.9	28
159	Accurate empirical formulas for the evaluation of origin intensity factor in singular boundary method using time-dependent diffusion fundamental solution. International Journal of Heat and Mass Transfer, 2016, 103, 360-369.	2.5	15
160	Psychoacoustic Characterization of Propagation Effects in Virtual Environments. ACM Transactions on Applied Perception, 2016, 13, 1-18.	1.2	3
162	Compromise between minimization and maximization of entropy production in reversible Gray–Scott model. Chemical Engineering Science, 2016, 155, 233-238.	1.9	4
163	Nanoporous Anodic Alumina 3D FDTD Modelling for a Broad Range of Inter-pore Distances. Nanoscale Research Letters, 2016, 11, 359.	3.1	3
164	Three-dimensional stress analysis of thin structures using a boundary element method with sinh transformation for nearly singular integrals. Computers and Mathematics With Applications, 2016, 72, 2773-2787.	1.4	5
165	Singular boundary method using time-dependent fundamental solution for scalar wave equations. Computational Mechanics, 2016, 58, 717-730.	2.2	13
166	Implementation of sinh method in integration space for boundary integrals with near singularity in potential problems. Frontiers of Mechanical Engineering, 2016, 11, 412-422.	2.5	7
167	Kirchhoff's Theory for Optical Diffraction, Its Predecessor and Subsequent Development: The Resilience of an Inconsistent Theory, by Jed Z. Buchwald (Caltech) and Chen-Pang Yeang (Univ. of) Tj ETQq1 1 0.	784314 rg	gBTq/Overlock
168	Fast-multipole accelerated regularized meshless method for large-scale isotropic heat conduction problems. International Journal of Heat and Mass Transfer, 2016, 101, 461-469.	2.5	6
169	A general algorithm for evaluating nearly singular integrals in anisotropic three-dimensional boundary element analysis. Computer Methods in Applied Mechanics and Engineering, 2016, 308, 483-498.	3.4	44

#	Article	IF	CITATIONS
170	Kirchhoff's theory for optical diffraction, its predecessor and subsequent development: the resilience of an inconsistent theory. Archive for History of Exact Sciences, 2016, 70, 463-511.	0.2	8
171	A meshless singular boundary method for threeâ€dimensional elasticity problems. International Journal for Numerical Methods in Engineering, 2016, 107, 109-126.	1.5	41
172	A boundary element approach to barrier option pricing in Black–Scholes framework. International Journal of Computer Mathematics, 2016, 93, 696-722.	1.0	11
173	Analytical Evaluation of 2-D Flux Integral for Magnetostatic Galerkin Method of Moments. IEEE Transactions on Magnetics, 2016, 52, 1-8.	1.2	13
174	Analytical and numerical modeling for the effects of thermal insulation in underground tunnels. International Journal of Mining Science and Technology, 2016, 26, 267-276.	4.6	13
175	Fast Numerical Pricing of Barrier Options under Stochastic Volatility and Jumps. SIAM Journal on Applied Mathematics, 2016, 76, 27-57.	0.8	18
176	Numerical investigation on the obliquely incident water wave passing through the submerged breakwater by singular boundary method. Computers and Mathematics With Applications, 2016, 71, 381-390.	1.4	75
177	On the Green's functions for a two-phase soft electroactive medium subjected to biasing fields. Engineering Analysis With Boundary Elements, 2016, 64, 137-149.	2.0	1
178	A BEM formulation in conjunction with parametric equation approach for three-dimensional Cauchy problems of steady heat conduction. Engineering Analysis With Boundary Elements, 2016, 63, 1-14.	2.0	55
179	Numerical solution for the degenerate scale problem in plane elasticity using null field CVBIE. Engineering Analysis With Boundary Elements, 2016, 62, 1-6.	2.0	4
180	Method of fundamental solutions without fictitious boundary for plane time harmonic linear elastic and viscoelastic wave problems. Computers and Structures, 2016, 162, 80-90.	2.4	17
181	A local meshless method for Cauchy problem of elliptic PDEs in annulus domains. Inverse Problems in Science and Engineering, 2016, 24, 729-743.	1.2	16
182	Modeling particle sedimentation in viscous fluids with a coupled immersed boundary method and discrete element method. Particuology, 2017, 31, 191-199.	2.0	8
183	Application of the meshless generalized finite difference method to inverse heat source problems. International Journal of Heat and Mass Transfer, 2017, 108, 721-729.	2.5	102
184	Regularized boundary integral methods for three-dimensional potential flows. Engineering Analysis With Boundary Elements, 2017, 77, 49-60.	2.0	4
185	Large time steps in the explicit formulation of transient heat transfer. International Journal of Heat and Mass Transfer, 2017, 108, 2040-2052.	2.5	7
186	A new implementation of BEM by an expanding element interpolation method. Engineering Analysis With Boundary Elements, 2017, 78, 1-7.	2.0	16
187	Analytical evaluation of the origin intensity factor of time-dependent diffusion fundamental solution for a matrix-free singular boundary method formulation. Applied Mathematical Modelling, 2017, 49, 647-662.	2.2	32

#	Article	IF	CITATIONS
188	CAE "FOCUS―for modelling and simulating electron optics systems: development and application. Proceedings of SPIE, 2017, , .	0.8	6
189	A general algorithm for evaluating nearly strong-singular (and beyond) integrals in three-dimensional boundary element analysis. Computational Mechanics, 2017, 59, 779-793.	2.2	14
190	Dynamic Green's Functions and Integral Equations for a Double-Porosity Dual-Permeability Poroelastic Material. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	1.1	12
191	A compatible boundary element approach with geologic modeling techniques to model transient fluid flow in heterogeneous systems. Journal of Petroleum Science and Engineering, 2017, 151, 318-329.	2.1	5
192	Boundary stress analysis using a new regularized boundary integral equation for three-dimensional elasticity problems. Archive of Applied Mechanics, 2017, 87, 1213-1226.	1.2	6
193	The birth of the boundary element method from conception to application. Engineering Analysis With Boundary Elements, 2017, 77, iii-x.	2.0	16
194	Numerical analysis of an advective diffusion domain coupled with a diffusive heat source. Engineering Analysis With Boundary Elements, 2017, 84, 129-140.	2.0	14
195	Deposition Kinetics of Iron Oxide Nanoparticles on a Poly(diallyldimethylammonium Chloride)-Coated Silica Surface: Influences on the Formation of a Softer Particle-Polyelectrolyte Layer. Journal of Physical Chemistry C, 2017, 121, 20777-20789.	1.5	3
196	Non-Euclidean distance fundamental solution of Hausdorff derivative partial differential equations. Engineering Analysis With Boundary Elements, 2017, 84, 213-219.	2.0	30
197	Singular boundary method for transient convection–diffusion problems with time-dependent fundamental solution. International Journal of Heat and Mass Transfer, 2017, 114, 1126-1134.	2.5	42
198	Anti-plane fundamental solutions of functionally graded materials and applications to fracture mechanics. Journal of Strain Analysis for Engineering Design, 2017, 52, 422-433.	1.0	3
199	Evaluating the Origin Intensity Factor in the Singular Boundary Method for Three-Dimensional Dirichlet Problems. Advances in Applied Mathematics and Mechanics, 2017, 9, 1289-1311.	0.7	8
200	Error bounds of singular boundary method for potential problems. Numerical Methods for Partial Differential Equations, 2017, 33, 1987-2004.	2.0	28
201	Amended influence matrix method for removal of rigid motion in the interior BVP for plane elasticity. Applied Mathematics and Mechanics (English Edition), 2017, 38, 1471-1480.	1.9	1
202	A meshless generalized finite difference method for inverse Cauchy problems associated with three-dimensional inhomogeneous Helmholtz-type equations. Engineering Analysis With Boundary Elements, 2017, 82, 162-171.	2.0	31
203	A double-layer interpolation method for implementation of BEM analysis of problems in potential theory. Applied Mathematical Modelling, 2017, 51, 250-269.	2.2	43
204	Hydrogeological modeling for improving groundwater monitoring network and strategies. Applied Water Science, 2017, 7, 3223-3240.	2.8	6
205	Modeling pressure pipe embedded in two-layer soil by a half-plane BEM. Computers and Geotechnics, 2017, 81, 360-367.	2.3	16

#	Article	IF	CITATIONS
206	Strength of adhesive contacts: Influence of contact geometry and material gradients. Friction, 2017, 5, 308-325.	3.4	100
207	1-D memristor-based cellular automaton for pseudo-random number generation. , 2017, , .		7
208	Structural optimization using the boundary element method and topological derivative applied to a suspension trailing arm. Engineering Optimization, 2018, 50, 1662-1680.	1.5	7
209	Generalized Stokes laws for active colloids and their applications. Journal of Physics Communications, 2018, 2, 025025.	0.5	15
210	A meshless average source boundary node method for steady-state heat conduction in general anisotropic media. Computers and Mathematics With Applications, 2018, 75, 1739-1755.	1.4	4
211	Potential method in the linear theory of triple porosity thermoelasticity. Journal of Mathematical Analysis and Applications, 2018, 461, 1585-1605.	0.5	6
212	The method of particular solutions using trigonometric basis functions. Journal of Computational and Applied Mathematics, 2018, 335, 20-32.	1.1	10
213	Investigation on near-boundary solutions for three-dimensional elasticity problems by an advanced BEM. International Journal of Mechanical Sciences, 2018, 142-143, 269-275.	3.6	5
214	Three-Dimensional Poroelastic Modeling of Multiple Hydraulic Fracture Propagation from Horizontal Wells. International Journal of Rock Mechanics and Minings Sciences, 2018, 105, 192-209.	2.6	76
216	Numerical analysis of heat transfer in arbitrary plane domains using a novel Trefftz energy method. Numerical Heat Transfer, Part B: Fundamentals, 2018, 73, 146-154.	0.6	7
217	Note on the History of Contact Mechanics and Friction: Interplay of Electrostatics, Theory of Gravitation and Elasticity from Coulomb to Johnson-Kendall-Roberts Theory of Adhesion. Physical Mesomechanics, 2018, 21, 1-5.	1.0	19
218	The fast multi-pole indirect BEM for solving high-frequency seismic wave scattering by three-dimensional superficial irregularities. Engineering Analysis With Boundary Elements, 2018, 90, 86-99.	2.0	17
219	Analysis of arbitrarily shaped planar cracks in two-dimensional hexagonal quasicrystals with thermal effects. Part II: Numerical solutions. Applied Mathematical Modelling, 2018, 57, 565-582.	2.2	9
220	Coupling detailed radiation model with process simulation in Aspen Plus: A case study on fluidized bed combustor. Applied Energy, 2018, 227, 168-179.	5.1	18
221	Analysis of three-dimensional anisotropic heat conduction problems on thin domains using an advanced boundary element method. Computers and Mathematics With Applications, 2018, 75, 33-44.	1.4	101
222	Electrical contacts in monolayer blue phosphorene devices. Nano Research, 2018, 11, 1834-1849.	5.8	55
223	Analysis of arbitrarily shaped, planar cracks in a three-dimensional transversely isotropic thermoporoelastic medium. Theoretical and Applied Fracture Mechanics, 2018, 93, 233-246.	2.1	8
224	Case study of laser hardening process applied to 4340 steel cylindrical specimens using simulation and experimental validation. Case Studies in Thermal Engineering, 2018, 11, 15-25.	2.8	34

#	Article	IF	CITATIONS
225	An efficient boundary element formulation for doubly-periodic two-dimensional Stokes flow with pressure boundary conditions. Journal of Computational Physics, 2018, 365, 18-36.	1.9	4
226	Expanding element interpolation method for analysis of thin-walled structures. Engineering Analysis With Boundary Elements, 2018, 86, 82-88.	2.0	15
227	An Iterative Parallel Solver in GPU Applied to Frequency Domain Linear Water Wave Problems by the Boundary Element Method. Frontiers in Built Environment, 2018, 4, .	1.2	6
229	Application of the Boundary Element Method Using Time Discretization to the Advection-Convection Equation. Journal of Applied & Computational Mathematics, 2018, 07, .	0.1	0
230	Analytical Approach to Boundary Integral Formulation for the Laplace/Poisson Equations in Circular Regions. , 2018, , .		0
231	Reduced Order Modeling Approach to Combustion Instabilities of Liquid Rocket Engines. AIAA Journal, 2018, 56, 4845-4857.	1.5	7
232	A new singular element for evaluating stress intensity factors of V-shaped notches under mixed-mode load. Engineering Analysis With Boundary Elements, 2018, 93, 161-166.	2.0	16
233	Domain-decomposition generalized finite difference method for stress analysis in multi-layered elastic materials. Engineering Analysis With Boundary Elements, 2018, 94, 94-102.	2.0	22
234	The method of fundamental solution for 3â€D wave scattering in a fluidâ€saturated poroelastic infinite domain. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 1866-1889.	1.7	8
235	Electrical Resistance Tomography for Visualization of Moving Objects Using a Spatiotemporal Total Variation Regularization Algorithm. Sensors, 2018, 18, 1704.	2.1	23
236	A modified dual-level fast multipole boundary element method for large-scale three-dimensional potential problems. Computer Physics Communications, 2018, 233, 51-61.	3.0	8
237	Monolayer tellurene–metal contacts. Journal of Materials Chemistry C, 2018, 6, 6153-6163.	2.7	81
238	Rheometric assessment and numerical simulation of steady-state and periodic flows of fabric-water mixtures in household top-load washing machines. Chemical Engineering Research and Design, 2018, 137, 273-290.	2.7	3
239	Identification of transient boundary conditions with improved cuckoo search algorithm and polynomial approximation. Engineering Analysis With Boundary Elements, 2018, 95, 124-141.	2.0	13
240	On the Use of Boundary Element Method for the Study of Low Frequency Electromagnetic Devices. , 2018, , .		2
241	Trefftz methods with cracklets and their relation to BEM and MFS. Engineering Analysis With Boundary Elements, 2018, 95, 93-104.	2.0	9
242	A study of meshless methods for optimization of cathodic protection systems. Engineering Analysis With Boundary Elements, 2019, 107, 233-242.	2.0	5
243	Overview of meshless methods. , 2019, , 3-51.		1

#	Article	IF	Citations
246	Finite Element Predictions of Sutured and Coupled Microarterial Anastomoses. Advanced Biomedical Engineering, 2019, 8, 63-77.	0.4	1
247	Simulation of the early stage water flooding through an opening using boundary element method. Ocean Engineering, 2019, 186, 106086.	1.9	7
248	Evaluating 2D domain integrals by sinh transformation for transient heat conduction problem. Journal of Physics: Conference Series, 2019, 1300, 012095.	0.3	0
249	Patchy spread patterns in three-species bistable systems with facultative mutualism. BioSystems, 2019, 177, 24-33.	0.9	2
250	Meshless local B-spline collocation method for heterogeneous heat conduction problems. Engineering Analysis With Boundary Elements, 2019, 101, 76-88.	2.0	17
251	Artificial skin through super-sensing method and electrical impedance data from conductive fabric with aid of deep learning. Scientific Reports, 2019, 9, 8831.	1.6	36
252	Bilayer tellurene–metal interfaces. Journal of Semiconductors, 2019, 40, 062003.	2.0	9
253	Excellent Device Performance of Subâ€5â€nm Monolayer Tellurene Transistors. Advanced Electronic Materials, 2019, 5, 1900226.	2.6	65
254	The method of two-point angular basis function for solving Laplace equation. Engineering Analysis With Boundary Elements, 2019, 106, 264-274.	2.0	3
255	Assessment of Primary Energy Conversion of a Closed-Circuit OWC Wave Energy Converter. Energies, 2019, 12, 1962.	1.6	12
256	Localized method of fundamental solutions for three-dimensional inhomogeneous elliptic problems: theory and MATLAB code. Computational Mechanics, 2019, 64, 1567-1588.	2.2	33
257	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
258	A 3D nonlinear Maxwell's equations solver based on a hybrid numerical method. Physica Scripta, 2019, 94, 085211.	1.2	3
259	New boundary integral equation formalism for elastic wave scattering. AIP Conference Proceedings, 2019, , .	0.3	0
260	Evaluating the Transient Energy Dissipation in a Centrifugal Impeller under Rotor-Stator Interaction. Entropy, 2019, 21, 271.	1.1	16
261	Boundary Condition Nomenclature Confusion inÂGroundwater Flow Modeling. Ground Water, 2019, 57, 664-668.	0.7	12
262	A direct Chebyshev collocation method for the numerical solutions of three-dimensional Helmholtz-type equations. Engineering Analysis With Boundary Elements, 2019, 104, 26-33.	2.0	21
263	The generalized finite difference method for long-time dynamic modeling of three-dimensional coupled thermoelasticity problems. Journal of Computational Physics, 2019, 384, 42-59.	1.9	60

#	Article	IF	CITATIONS
264	The generalized finite difference method for an inverse boundary value problem in three-dimensional thermo-elasticity. Advances in Engineering Software, 2019, 131, 1-11.	1.8	18
265	Numerical integration scheme for singular integrals based on polar coordinates free from angular quasi–singularities. Engineering Analysis With Boundary Elements, 2019, 103, 126-136.	2.0	3
266	Green's functions for geophysics: a review. Reports on Progress in Physics, 2019, 82, 106801.	8.1	92
267	A three-dimensional indirect boundary integral equation method for modeling elastic wave scattering in a layered half-space. International Journal of Solids and Structures, 2019, 169, 81-94.	1.3	22
268	Dual boundary element method for analyzing three-dimensional cracks in layered and graded halfspaces. Engineering Analysis With Boundary Elements, 2019, 104, 135-147.	2.0	18
269	Fictitious eigenfrequencies in the BEM for interior acoustic problems. Engineering Analysis With Boundary Elements, 2019, 104, 170-182.	2.0	31
270	Temperature determination at the chip-tool interface using a computational fluid dynamics package. International Journal of Computer Applications in Technology, 2019, 60, 27.	0.3	1
272	A generalized finite difference method based on the Peridynamic differential operator for the solution of problems in bounded and unbounded domains. Computer Methods in Applied Mechanics and Engineering, 2019, 343, 100-126.	3.4	68
273	Design of de-noising FEM-FIR filters for the evaluation of temporal and spatial derivatives of measured displacement in elastic solids. Mechanical Systems and Signal Processing, 2019, 120, 524-539.	4.4	4
274	A precise radiation boundary method for dynamic response of a double-layered tunnel embedded in a layered half-space. Journal of Applied Geophysics, 2019, 162, 93-107.	0.9	1
275	Fast boundary-domain integral method for unsteady convection-diffusion equation with variable diffusivity using the modified Helmholtz fundamental solution. Numerical Algorithms, 2019, 82, 1441-1466.	1.1	16
276	Acoustic Analysis of Spacecraft Cavities using the Boundary Element Method. , 2019, , .		1
277	Fundamental solutions in the linear theory of thermoelasticity for solids with triple porosity. Mathematics and Mechanics of Solids, 2019, 24, 919-938.	1.5	7
278	A localized RBF-MLPG method and its application to elliptic PDEs. Engineering With Computers, 2020, 36, 171-183.	3.5	7
279	Identification of thermal conductivity for orthotropic FGMs by DT-DRBEM and L-M algorithm. Inverse Problems in Science and Engineering, 2020, 28, 196-219.	1.2	9
280	Lebesgue's criticism of Carl Neumann's method in potential theory. Archive for History of Exact Sciences, 2020, 74, 77-108.	0.2	1
281	Localized MFS for the inverse Cauchy problems of two-dimensional Laplace and biharmonic equations. Applied Mathematics and Computation, 2020, 364, 124658.	1.4	50
282	Meshless formulation to twoâ€dimensional nonlinear problem of generalized Benjamin–Bona–Mahony–Burgers through singular boundary method: Analysis of stability and convergence. Numerical Methods for Partial Differential Equations, 2020, 36, 249-267.	2.0	8

#	Article	IF	CITATIONS
283	Blake, bubbles and boundary element methods. IMA Journal of Applied Mathematics, 2020, 85, 190-213.	0.8	1
284	Attachment Field Hole Cutting for Chimera Overset Meshes: Boundary Element and Radial Basis Function Approaches., 2020,,.		0
285	Accurate evaluation of stress intensity factors using dual interpolation boundary face method. Acta Mechanica, 2020, 231, 733-741.	1.1	0
286	An overview of the method of fundamental solutionsâ€"Solvability, uniqueness, convergence, and stability. Engineering Analysis With Boundary Elements, 2020, 120, 118-152.	2.0	78
287	Uniform flow past a closed body at low Reynolds number employing a novel matching in a boundary element formulation. Engineering Analysis With Boundary Elements, 2020, 119, 95-104.	2.0	2
288	Neural Tissue Degeneration in Rosenthal's Canal and Its Impact on Electrical Stimulation of the Auditory Nerve by Cochlear Implants: An Image-Based Modeling Study. International Journal of Molecular Sciences, 2020, 21, 8511.	1.8	3
289	DBEM computation of T-stress and mixed-mode SIFs using interaction integral technique. Theoretical and Applied Fracture Mechanics, 2020, 110, 102795.	2.1	9
290	Sub-5-nm Monolayer Silicane Transistor: A First-Principles Quantum Transport Simulation. Physical Review Applied, 2020, 14, .	1.5	38
291	Coordination of construction manipulation robotic system using UAV. IOP Conference Series: Materials Science and Engineering, 2020, 789, 012007.	0.3	1
292	Solution of direct and inverse conduction heat transfer problems using the method of fundamental solutions and differential evolution. Engineering Computations, 2020, 37, 3293-3319.	0.7	1
293	A first advective velocity study in porous media using temperature measures and boundary element formulation. Engineering Analysis With Boundary Elements, 2020, 121, 217-232.	2.0	4
294	Analysis of unsteady mixed convection of Cu–water nanofluid in an oscillatory, lid-driven enclosure using lattice Boltzmann method. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2045-2061.	2.0	55
295	An accurate treatment of non-homogeneous boundary conditions for development of the BEM. Engineering Analysis With Boundary Elements, 2020, 116, 93-101.	2.0	5
296	A general-purpose machine learning framework for predicting singular integrals in boundary element method. Engineering Analysis With Boundary Elements, 2020, 117, 41-56.	2.0	4
297	Near singularity cancellation in weakly singular integrals of three-dimensional boundary element method. Engineering Analysis With Boundary Elements, 2020, 118, 54-59.	2.0	3
298	Calculation of the BEM Integrals on a Variable Grid With the FFT. Frontiers in Mechanical Engineering, 2020, 6, .	0.8	0
299	A FinFET with one atomic layer channel. Nature Communications, 2020, 11, 1205.	5.8	83
300	Shape design optimization of thermoelasticity problems using isogeometric boundary element method. Advances in Engineering Software, 2020, 149, 102871.	1.8	9

#	Article	IF	CITATIONS
301	Decreasing inhaled contaminant dose of a factory worker through a hybrid Emergency Ventilation System: Performance evaluation in worst-case scenario. Energy and Built Environment, 2020, 1, 319-326.	2.9	22
302	A BEM approach to the evaluation of warping functions in the Saint Venant theory. Engineering Analysis With Boundary Elements, 2020, 113, 359-371.	2.0	8
303	Triple reciprocity method for unknown function's domain integral in boundary integral equation. Engineering Analysis With Boundary Elements, 2020, 113, 170-180.	2.0	3
304	A meshless collocation scheme for inverse heat conduction problem in three-dimensional functionally graded materials. Engineering Analysis With Boundary Elements, 2020, 114, 1-7.	2.0	15
305	Full Model for the Two-Step Polarization Curves of Hydrogen Evolution, Measured on RDEs in Dilute Acid Solutions. Journal of Physical Chemistry C, 2020, 124, 3988-4000.	1.5	11
306	Modeling and simulation of electrophoretic deposition coatings. Journal of Computational Science, 2020, 41, 101075.	1.5	9
307	NUMERICAL INVESTIGATION OF THREE-DIMENSIONAL HAUSDORFF DERIVATIVE ANOMALOUS DIFFUSION MODEL. Fractals, 2020, 28, 2050020.	1.8	4
308	loT-Based Positive Emotional Contagion for Crowd Evacuation. IEEE Internet of Things Journal, 2021, 8, 1057-1070.	5.5	36
309	A systematic derived sinh based method for singular and nearly singular boundary integrals. Engineering Analysis With Boundary Elements, 2021, 123, 147-153.	2.0	6
310	Analysis of curved thin wires radiating over a layered medium and some engineering applications. Journal of Electromagnetic Waves and Applications, 2021, 35, 705-738.	1.0	1
311	Solution of two-dimensional elasticity problems using a high-accuracy boundary element method. Applied Numerical Mathematics, 2021, 161, 52-68.	1.2	1
312	Performance limit of monolayer MoSi ₂ N ₄ transistors. Journal of Materials Chemistry C, 2021, 9, 14683-14698.	2.7	32
313	Simulation of Electrophoretic Deposition Coatings. , 2021, , 37-54.		0
314	Thermal Analysis of Heat Transfer from Catheters and Implantable Devices to the Blood Flow. Micromachines, 2021, 12, 230.	1.4	3
315	Electroelastic analysis of twoâ€dimensional ultrathin layered piezoelectric films by an advanced boundary element method. International Journal for Numerical Methods in Engineering, 2021, 122, 2653-2671.	1.5	7
316	Localized method of fundamental solutions for two- and three-dimensional transient convection-diffusion-reaction equations. Engineering Analysis With Boundary Elements, 2021, 124, 237-244.	2.0	17
317	A new global and direct integral formulation for 2D potential problems. Engineering Analysis With Boundary Elements, 2021, 125, 233-240.	2.0	2
318	Boundary and Current Elements for Simulation of Electromagnetic Fields., 2021,,.		0

#	Article	IF	Citations
320	3-D non-isothermal particle-based device simulator for p-type MOSFETs. Journal of Computational Electronics, 2021, 20, 1644-1656.	1.3	1
321	Sensitivity analysis of fine dust spreading from litter in poultry houses. Biosystems Engineering, 2021, 208, 272-286.	1.9	0
322	Fracture analysis of ultra-thin coating/substrate structures with interface cracks. International Journal of Solids and Structures, 2021, 225, 111074.	1.3	28
323	Temporal boundaries in electromagnetic materials. New Journal of Physics, 2021, 23, 083032.	1.2	8
324	Boundary integrals for oscillating bodies in stratified fluids. Journal of Fluid Mechanics, 2021, 927, .	1.4	1
325	Nonlinear timeâ€domain waveâ€structure interaction: AÂparallel fast integral equation approach. International Journal for Numerical Methods in Fluids, 2022, 94, 188-222.	0.9	9
326	A boundary weak singularity elimination method for multilayer structures. Engineering Analysis With Boundary Elements, 2021, 130, 69-78.	2.0	5
327	Analysis of in-plane crack problems using the localized method of fundamental solutions. Engineering Fracture Mechanics, 2021, 256, 107994.	2.0	12
328	Can ultra-thin Si FinFETs work well in the sub-10 nm gate-length region?. Nanoscale, 2021, 13, 5536-5544.	2.8	15
329	A Novel BEM for Modeling and Simulation of 3T Nonlinear Generalized Anisotropic Micropolar-Thermoelasticity Theory withMemory Dependent Derivative. CMES - Computer Modeling in Engineering and Sciences, 2021, 126, 175-199.	0.8	9
330	Method of Continuous Source Functions for Modelling of Matrix Reinforced by Finite Fibres. Computational Methods in Applied Sciences (Springer), 2008, , 27-45.	0.1	10
331	Efficient Solution for Composites Reinforced by Particles. , 2009, , 277-286.		2
332	Future Research Perspectives. Interdisciplinary Applied Mathematics, 2019, , 273-282.	0.2	1
333	The Boundary Element Method in Fluid Mechanics: Application to Bubble Growth. Environmental Science and Engineering, 2014, , 17-48.	0.1	2
334	Accurate Real-Time Disparity Estimation with Variational Methods. Lecture Notes in Computer Science, 2009, , 796-807.	1.0	46
335	Using Active Illumination for Accurate Variational Space-Time Stereo. Lecture Notes in Computer Science, 2011, , 752-763.	1.0	2
336	A co-simulation methodology to simulate the nonlinear aeroelastic behavior of a folding-wing concept in different flight configurations. Nonlinear Dynamics, 2019, 98, 907-927.	2.7	18
338	Free surface effects on 2-D airfoils and 3-D wings moving over water. Ocean Systems Engineering, 2016, 6, 245-264.	0.5	5

#	Article	IF	CITATIONS
339	A modular framework for multiscale, multicellular, spatiotemporal modeling of acute primary viral infection and immune response in epithelial tissues and its application to drug therapy timing and effectiveness. PLoS Computational Biology, 2020, 16, e1008451.	1.5	40
340	Surface Reconstruction from Gradient Fields Using Box-Spline Kernel. International Journal of Multimedia and Ubiquitous Engineering, 2014, 9, 155-168.	0.3	1
341	PyStokes: phoresis and Stokesian hydrodynamics in Python. Journal of Open Source Software, 2020, 5, 2318.	2.0	7
342	The indirect boundary element method for the two-dimensional pressure- and gravity-driven free surface Stokes flow. WIT Transactions on Modelling and Simulation, 2014, , .	0.0	4
343	Recent advances in singular boundary method for ultra-thin structural problems. , 2013, , .		1
344	Numerical Investigation by the Finite Difference Method of the Laser Hardening Process Applied to AISI-4340. Journal of Applied Mathematics and Physics, 2018, 06, 2087-2106.	0.2	7
346	Promising Properties of a Sub-5-nm Monolayer <mml:math display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Mo</mml:mi><mml:mi>Si</mml:mi></mml:mrow><mml:mathvariant="normal">N</mml:mathvariant="normal"></mml:msub>4NN</mml:math>	m กเ ม 2 h>	ո l:89 n>
347	Transistor. Physical Review Applied, 2021, 16, . Pulse shape simulation of p-type point contact germanium detector used in the rare physics events search. International Journal of Modern Physics E, 2021, 30, .	0.4	1
348	The Boundary Element Method for Viscoelasticity Problems. SpringerBriefs in Applied Sciences and Technology, 2012, , 87-92.	0.2	0
349	Sound pressure attenuation provided by a 3D rigid acoustic barrier on a building fa \tilde{A} sade: the influence of its longitudinal shape. , 2012, , .		0
350	Kernel Integration Scheme for 2D Linear Elastic Direct Boundary Element Method Using the Subparametric Element. Journal of the Computational Structural Engineering Institute of Korea, 2012, 25, 413-420.	0.1	0
351	APPLICATION OF DIRECT TREFFTZ-KUPRADZE METHOD IN HIERARCHICAL CAPACITANCE EXTRACTION PROBLEM. Scientific Journals of Rzeszów University of Technology Series Electrotechnics, 2013, , 53-68.	0.0	0
352	The pFFT accelerated BEM for the simulation of 3-D acoustic problems. WIT Transactions on Modelling and Simulation, 2013, , .	0.0	0
353	Growth of Bubbles in Reservoirs and its Consequences on the Foam Formation. Environmental Science and Engineering, 2014, , 141-164.	0.1	0
354	Psychoacoustic characterization of propagation effects in virtual environments. , 2016, , .		5
355	Numerical analysis and optimization of wheel vibrations and radiation noises of the high-speed train. Journal of Vibroengineering, 2016, 18, 4002-4014.	0.5	1
356	A Comparison of Simplified Two-dimensional Flow Models Exemplified by Water Flow in a Cavern. Archives of Hydroengineering and Environmental Mechanics, 2017, 64, 141-154.	0.5	0
358	Motivation: The Cavity Problem. Springer Theses, 2021, , 1-14.	0.0	0

#	Article	IF	CITATIONS
359	An efficient and accurate numerical method for the heat conduction problems of thermal metamaterials based on edge-based smoothed finite element method. Engineering Analysis With Boundary Elements, 2022, 134, 282-297.	2.0	9
360	Review of computational methods for therapeutic electromagnetic technologies. , 2022, , 25-69.		0
361	A three-dimensional indirect boundary integral equation method for the scattering of seismic waves in a poroelastic layered half-space. Engineering Analysis With Boundary Elements, 2022, 135, 167-181.	2.0	28
362	Bi-material topology optimization for fully coupled structural-acoustic systems with isogeometric FEM–BEM. Engineering Analysis With Boundary Elements, 2022, 135, 182-195.	2.0	35
363	A Physics-Informed Neural Network Approach for Nearfield Acoustic Holography. Sensors, 2021, 21, 7834.	2.1	12
364	A review of modelling techniques for floating offshore wind turbines. Wind Energy, 2022, 25, 831-857.	1.9	65
366	Device performance and strain effect of sub-5 nm monolayer InP transistors. Journal of Materials Chemistry C, 2022, 10, 2223-2235.	2.7	10
367	Near field Acoustic Holography on arbitrary shapes using Convolutional Neural Network. , 2021, , .		7
368	Approaching The Anonymous Deployment Of Blockchain-Based Fair Advertising On Vehicle Networks. , 2021, , .		7
369	Application of an Artificial Neural Network in the Modelling of Heat Curing Effects on the Strength of Adhesive Joints at Elevated Temperature with Imprecise Adhesive Mix Ratios. Materials, 2022, 15, 721.	1.3	14
370	A Pseudo-Spectral Fourier Collocation Method for Inhomogeneous Elliptical Inclusions with Partial Differential Equations. Mathematics, 2022, 10, 296.	1.1	17
371	A wave finite element approach for modelling wave transmission through laminated plate junctions. Scientific Reports, 2022, 12, 1852.	1.6	7
373	Generalization and Regularization for Inverse Cardiac Estimators. IEEE Transactions on Biomedical Engineering, 2022, 69, 3029-3038.	2.5	0
374	A comprehensive review on incremental deformation in rolling processes. Journal of Engineering and Applied Science, 2022, 69, .	0.8	5
375	Sound Synthesis, Propagation, and Rendering. Synthesis Lectures on Visual Computing, 2022, 11, 1-110.	0.7	1
376	Multiferroic van der Waals heterostructure <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeCl</mml:mi><mml: 105.<="" 2022,="" and="" b,="" electrically="" electronic="" nonvolatile="" physical="" properties.="" review="" spintronic="" switchable="" td=""><td>:mn}2<td>nml<u>:</u>mn></td></td></mml:></mml:msub></mml:mrow></mml:math>	:mn}2 <td>nml<u>:</u>mn></td>	nml <u>:</u> mn>
377	Boundary element analysis of thin structures using a dual transformation method for weakly singular boundary integrals. Computers and Mathematics With Applications, 2022, 113, 198-213.	1.4	2
378	Partitioned path-following strategy for nonlinear structural analyses using the boundary element method. Computer Methods in Applied Mechanics and Engineering, 2022, 394, 114875.	3.4	3

#	Article	IF	CITATIONS
379	The localized method of fundamental solutions for 2D and 3D second-order nonlinear boundary value problems. Engineering Analysis With Boundary Elements, 2022, 139, 208-220.	2.0	3
380	Assessment and Modeling of Plasmonic Photothermal Therapy Delivered via a Fiberoptic Microneedle Device Ex Vivo. Pharmaceutics, 2021, 13, 2133.	2.0	5
384	An interaction integral method coupled with special crack tip elements for evaluation of stress intensity factors. Engineering Analysis With Boundary Elements, 2022, 140, 421-431.	2.0	7
385	A novel high-performance quadrature rule for BEM formulations. Engineering Analysis With Boundary Elements, 2022, 140, 607-617.	2.0	2
387	Modeling disease transmission in a train carriage using a simple <scp>1D</scp> â€model. Indoor Air, 2022, 32, .	2.0	3
388	A Meshless Numerical Modeling Method for Fractured Reservoirs Based on Extended Finite Volume Method. SPE Journal, 2022, 27, 3525-3564.	1.7	6
389	Stokes traction on an active particle. Physical Review E, 2022, 106, .	0.8	1
390	An approach for assessing the effects of porous materials on controlling the tire cavity resonance noise. Engineering Analysis With Boundary Elements, 2022, 143, 418-427.	2.0	4
391	Electromagnetic modeling of inductors in EMT-type software by three circuit-based methods. Electric Power Systems Research, 2022, 211, 108304.	2.1	2
392	Propagation of hydropeaking waves in heterogeneous aquifers: effects on flow topology and uncertainty quantification. GEM - International Journal on Geomathematics, 2022, 13, .	0.7	3
393	Effect of an Inflating/Deflating Magma Chamber on a Nearby Earthquake Fault Using the Indirect Boundary Integral Method. Pure and Applied Geophysics, 0, , .	0.8	0
394	Influence of a Type of Rock Mass on the Stability of Headings in Polish Underground Copper Mines Based on Boundary Element Method. Energies, 2022, 15, 5837.	1.6	0
395	Sensitivity analysis and design optimization of 3T rotating thermoelastic structures using IGBEM. AIMS Mathematics, 2022, 7, 19902-19921.	0.7	4
396	Acoustic wave propagation mechanism in the local stiffened structure of space station cabin using finite element method. AIP Advances, 2022, 12, 095217.	0.6	0
397	Novel boundary crack front elements with Williams' eigenexpansion properties for 3D crack analysis. Archive of Applied Mechanics, 2023, 93, 745-760.	1.2	2
398	A novel spatial-temporal radial Trefftz collocation method for the backward heat conduction analysis with time-dependent source term. International Journal of Heat and Mass Transfer, 2023, 201, 123627.	2.5	6
399	Dissipating Culvert End Design for Erosion Control Using CFD Platform FLOW-3D Numerical Simulation Modeling. Journal of Pipeline Systems Engineering and Practice, 2023, 14, .	0.9	4
400	Analysis of Two-Dimensional Heat Transfer Problem Using the Boundary Integral Equation. Advances in Mathematical Physics, 2022, 2022, 1-7.	0.4	0

#	Article	IF	CITATIONS
401	Singular boundary method: A review and computer implementation aspects. Engineering Analysis With Boundary Elements, 2023, 147, 231-266.	2.0	39
402	Learning Groundwater Contaminant Diffusionâ€Sorption Processes With a Finite Volume Neural Network. Water Resources Research, 2022, 58, .	1.7	2
403	An Efficient Boundary-Type Meshless Computational Approach for the Axial Compression on the Part Boundary of the Circular Shaft (Brazilian Test). Applied Sciences (Switzerland), 2022, 12, 11806.	1.3	1
404	Degenerate kernels of polyharmonic and poly-Helmholtz operators in polar and spherical coordinates. Engineering Analysis With Boundary Elements, 2023, 148, 137-152.	2.0	1
405	Learning multi-agent coordination through connectivity-driven communication. Machine Learning, 0, , .	3.4	1
406	A Preliminary Analysis of In-Situ Stress at Mount Meager by Displacement Discontinuity Method with Topography and Tectonics Considered. Energies, 2023, 16, 1397.	1.6	0
407	A detailed implementation of multithreading and out-of-core computation to the conventional boundary element algorithm with minimum code changes. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2023, 45, .	0.8	2
408	Semi-analytical solution of the Reynolds equation considering cavitation. International Journal of Mechanical Sciences, 2023, 247, 108164.	3.6	4
409	A thermal analysis of concrete structures performed by layers using boundary element formulation and dual reciprocity. Engineering Analysis With Boundary Elements, 2023, 150, 542-554.	2.0	2
410	Numerical algorithm with high accuracy for the modified Helmholtz equation with Robin boundary value problem. Applied Numerical Mathematics, 2023, 187, 107-119.	1.2	0
411	Automatic quality control of the numerical accuracy of EEG lead fields. NeuroImage, 2023, 273, 120091.	2.1	0
412	Envisioning faults beyond the framework of fracture mechanics. Earth-Science Reviews, 2023, 238, 104358.	4.0	1
413	Improve the secondary structure of the series ionic wind generator to regulate the flow distribution and its application in electronics cooling. International Journal of Thermal Sciences, 2023, 191, 108362.	2.6	2