List of Publications by Year in descending order

108 papers	3,049 citations	136740 32 h-index	205818 48 g-index
108 all docs	108 docs citations	108 times ranked	778 citing authors

#	Article	IF	Citations
1	A novel spaceâ€“time generalized FDM for dynamic coupled thermoelasticity problems in heterogeneous plates. Archive of Applied Mechanics, 2022, 92, 287-307.	1.2	7
2	Analysis of bimaterial interface cracks using the localized method of fundamental solutions. Results in Applied Mathematics, 2022, 13, 100231.	0.5	5
3	ParGeo. , 2022, , .		1
4	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
5	An efficient meshless method for bimaterial interface cracks in 2D thin-layered coating structures. Applied Mathematics Letters, 2022, 131, 108080.	1.5	15
6	A meshless collocation method for solving the inverse Cauchy problem associated with the variable-order fractional heat conduction model under functionally graded materials. Engineering Analysis With Boundary Elements, 2022, 140, 132-144.	2.0	4
7	A new structural uncertainty analysis method based on polynomial expansions. Applied Mathematics and Computation, 2022, 427, 127122.	1.4	0
8	Parallel Cover Trees and their Applications. , 2022, , .		4
9	Many Sequential Iterative Algorithms Can Be Parallel and (Nearly) Work-efficient. , 2022, , .		1
10	An efficient meshfree gradient smoothing collocation method (GSCM) using reproducing kernel approximation. Computer Methods in Applied Mechanics and Engineering, 2021, 374, 113573.	3.4	18
11	Short communication: The generalized finite difference method for electroelastic analysis of 2D piezoelectric structures. Engineering Analysis With Boundary Elements, 2021, 124, 82-86.	2.0	9
12	A Chebyshev collocation method for band structure calculations of the longitudinal elastic waves in phononic crystals. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000115.	0.2	1
13	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
14	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
15	A meshless Chebyshev collocation method for eigenvalue problems of the Helmholtz equation. Engineering Analysis With Boundary Elements, 2021, 125, 80-109.	2.0	8
16	The rapid assessment for three-dimensional potential model of large-scale particle system by a modified multilevel fast multipole algorithm. Computers and Mathematics With Applications, 2021, 89, 127-138.	1.4	35
17	Fracture mechanics analysis of bimaterial interface cracks using the generalized finite difference method. Theoretical and Applied Fracture Mechanics, 2021, 113, 102942.	2.1	29
18	Generalized finite difference method for electroelastic analysis of three-dimensional piezoelectric structures. Applied Mathematics Letters, 2021, 117, 107084.	1.5	52

#	Article	IF	Citations
19	Efficient Stepping Algorithms and Implementations for Parallel Shortest Paths. , 2021, , .		9
20	Fracture mechanics analysis of two-dimensional cracked thin structures (from micro- to nano-scales) by an efficient boundary element analysis. Results in Applied Mathematics, 2021, 11, 100172.	0.5	20
21	Fracture analysis of ultra-thin coating/substrate structures with interface cracks. International Journal of Solids and Structures, 2021, 225, 111074.	1.3	28
22	Analysis of in-plane crack problems using the localized method of fundamental solutions. Engineering Fracture Mechanics, 2021, 256, 107994.	2.0	12
23	Fracture mechanics analysis of bimaterial interface cracks using an enriched method of fundamental solutions: Theory and MATLAB code. Theoretical and Applied Fracture Mechanics, 2021, 116, 103078.	2.1	9
24	A meshless method for solving three-dimensional time fractional diffusion equation with variable-order derivatives. Applied Mathematical Modelling, 2020, 78, 539-549.	2.2	74
25	Localized MFS for the inverse Cauchy problems of two-dimensional Laplace and biharmonic equations. Applied Mathematics and Computation, 2020, 364, 124658.	1.4	50
26	Localized boundary knot method and its application to large-scale acoustic problems. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112729.	3.4	57
27	Generalized finite difference method for solving stationary 2D and 3D Stokes equations with a mixed boundary condition. Computers and Mathematics With Applications, 2020, 80, 1726-1743.	1.4	32
28	Novel special crack-tip elements for interface crack analysis by an efficient boundary element method. Engineering Fracture Mechanics, 2020, 239, 107302.	2.0	38
29	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
30	A domain-decomposition generalized finite difference method for stress analysis in three-dimensional composite materials. Applied Mathematics Letters, 2020, 104, 106226.	1.5	79
31	A hybrid meshless method for the solution of the second order hyperbolic telegraph equation in two space dimensions. Engineering Analysis With Boundary Elements, 2020, 115, 21-27.	2.0	20
32	A novel space-time generalized FDM for transient heat conduction problems. Engineering Analysis With Boundary Elements, 2020, 119, 1-12.	2.0	16
33	Optimal Parallel Algorithms in the Binary-Forking Model. , 2020, , .		25
34	Randomized Incremental Convex Hull is Highly Parallel. , 2020, , .		16
35	AN EFFECTIVE METHOD IN BEM FOR POTENTIAL PROBLEMS OF THIN BODIES. Journal of Marine Science and Technology, 2020, 18, .	0.1	5
36	Parallelism in Randomized Incremental Algorithms. Journal of the ACM, 2020, 67, 1-27.	1.8	10

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37	A Trefftz/MFS mixed-type method to solve the Cauchy problem of the Laplace equation. Applied Mathematics Letters, 2019, 87, 87-92.	1.5	3
38	Localized method of fundamental solutions for interior Helmholtz problems with high wave number. Engineering Analysis With Boundary Elements, 2019, 107, 25-32.	2.0	14
39	Analysis of three-dimensional interior acoustic fields by using the localized method of fundamental solutions. Applied Mathematical Modelling, 2019, 76, 122-132.	2.2	36
40	The generalized finite difference method for the inverse Cauchy problem in two-dimensional isotropic linear elasticity. International Journal of Solids and Structures, 2019, 174-175, 69-84.	1.3	45
41	Localized method of fundamental solutions for three-dimensional inhomogeneous elliptic problems: theory and MATLAB code. Computational Mechanics, 2019, 64, 1567-1588.	2.2	33
42	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
43	Localized method of fundamental solutions for large-scale modelling of three-dimensional anisotropic heat conduction problems â€“ Theory and MATLAB code. Computers and Structures, 2019, 220, 144-155.	2.4	38
44	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
45	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
46	The generalized finite difference method for long-time transient heat conduction in 3D anisotropic composite materials. Applied Mathematical Modelling, 2019, 71, 316-330.	2.2	60
47	Localized method of fundamental solutions for large-scale modeling of two-dimensional elasticity problems. Applied Mathematics Letters, 2019, 93, 8-14.	1.5	86
48	A combined scheme of generalized finite difference method and Krylov deferred correction technique for highly accurate solution of transient heat conduction problems. International Journal for Numerical Methods in Engineering, 2019, 117, 63-83.	1.5	31
49	The generalized finite difference method for in-plane crack problems. Engineering Analysis With Boundary Elements, 2019, 98, 147-156.	2.0	32
50	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
51	Trefftz energy method for solving the Cauchy problem of the Laplace equation. Applied Mathematics Letters, 2018, 79, 187-195.	1.5	17
52	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
53	The generalized finite difference method for an inverse time-dependent source problem associated with three-dimensional heat equation. Engineering Analysis With Boundary Elements, 2018, 91, 73-81.	2.0	32
54	Fast multipole singular boundary method for Stokes flow problems. Mathematics and Computers in Simulation, 2018, 146, 57-69.	2.4	10

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55	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
56	Application of the generalized finite difference method to three-dimensional transient electromagnetic problems. Engineering Analysis With Boundary Elements, 2018, 92, 257-266.	2.0	13
57	Parallel Write-Efficient Algorithms and Data Structures for Computational Geometry. , 2018, , .		14
58	The Parallel Persistent Memory Model. , 2018, , .		11
59	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
60	A wideband fast multipole accelerated singular boundary method for three-dimensional acoustic problems. Computers and Structures, 2018, 206, 82-89.	2.4	11
61	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
62	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
63	Mathematical Characteristics of Uplink and Downlink Interference Regions in D2D Communications Underlaying Cellular Networks. Wireless Personal Communications, 2017, 93, 917-932.	1.8	18
64	Three-dimensional thermal stress analysis using the indirect BEM in conjunction with the radial integration method. Advances in Engineering Software, 2017, 112, 147-153.	1.8	14
65	Error bounds of singular boundary method for potential problems. Numerical Methods for Partial Differential Equations, 2017, 33, 1987-2004.	2.0	28
66	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
67	Average source boundary node method for potential problems. Engineering Analysis With Boundary Elements, 2016, 70, 114-125.	2.0	12
68	Parallelism in Randomized Incremental Algorithms. , 2016, , .		36
69	Numerical evaluation of nearly hyper-singular integrals in the boundary element analysis. Computers and Structures, 2016, 167, 15-23.	2.4	22
70	Parallel Shortest Paths Using Radius Stepping. , 2016, , .		16
71	Parallel Algorithms for Asymmetric Read-Write Costs. , 2016, , .		43
72	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

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73	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
74	A meshless singular boundary method for threeâ€dimensional elasticity problems. International Journal for Numerical Methods in Engineering, 2016, 107, 109-126.	1.5	41
75	An extended exponential transformation for evaluating nearly singular integrals in general anisotropic boundary element method. Engineering Analysis With Boundary Elements, 2016, 65, 39-46.	2.0	10
76	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
77	Fast multipole accelerated singular boundary method for the 3D Helmholtz equation in low frequency regime. Computers and Mathematics With Applications, 2015, 70, 679-690.	1.4	60
78	Analysis of Two-Dimensional Thin Structures (From Micro- to Nano-Scales) Using the Singular Boundary Method. Advances in Applied Mathematics and Mechanics, 2015, 7, 597-609.	0.7	2
79	Ray Specialized Contraction on Bounding Volume Hierarchies. Computer Graphics Forum, 2015, 34, 309-318.	1.8	6
80	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
81	A Top-Down Parallel Semisort. , 2015, , .		19
82	Fast-multipole accelerated singular boundary method for large-scale three-dimensional potential problems. International Journal of Heat and Mass Transfer, 2015, 90, 291-301.	2.5	22
83	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
84	Cluster analysis based and threshold based selection localization algorithm for WSN. , 2015, , .		3
85	Sorting with Asymmetric Read and Write Costs. , 2015, , .		51
86	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
87	Improved Directed Diffusion Protocol Based on Visible Forwarding Path and Promoted Evaluation Criterion. , 2014, , .		1
88	Singular boundary method for inverse heat conduction problems in general anisotropic media. Inverse Problems in Science and Engineering, 2014, 22, 889-909.	1.2	31
89	The singular boundary method: Mathematical background and application in orthotropic elastic problems. Engineering Analysis With Boundary Elements, 2014, 44, 152-160.	2.0	18
90	Burtonâ€“Miller-type singular boundary method for acoustic radiation and scattering. Journal of Sound and Vibration, 2014, 333, 3776-3793.	2.1	103

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91	Two general algorithms for nearly singular integrals in two dimensional anisotropic boundary element method. Computational Mechanics, 2014, 53, 1223-1234.	2.2	19
92	Improved singular boundary method for elasticity problems. Computers and Structures, 2014, 135, 73-82.	2.4	35
93	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
94	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
95	Infinite domain potential problems by a new formulation of singular boundary method. Applied Mathematical Modelling, 2013, 37, 1638-1651.	2.2	41
96	Efficient BVH construction via approximate agglomerative clustering. , 2013, , .		51
97	Energy Efficient Layered Clustering Approach for WSN. , 2012, , .		5
98	A Novel Routing Protocol for Mobile Nodes in WSN. , 2012, , .		7
99	An Improved Formulation of Singular Boundary Method. Advances in Applied Mathematics and Mechanics, 2012, 4, 543-558.	0.7	60
100	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
101	Investigation on near-boundary solutions by singular boundary method. Engineering Analysis With Boundary Elements, 2012, 36, 1173-1182.	2.0	50
102	A clustering routing algorithm of WSN based on uneven nodes deployment. , 2011, , .		9
103	A non-linear transformation applied to boundary layer effect and thin-body effect in BEM for 2D potential problems. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2011, 34, 905-916.	0.6	2
104	Stress analysis for multilayered coating systems using semi-analytical BEM with geometric non-linearities. Computational Mechanics, 2011, 47, 493-504.	2.2	28
105	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
106	Singular boundary method for solving plane strain elastostatic problems. International Journal of Solids and Structures, 2011, 48, 2549-2556.	1.3	96
107	Boundary element analysis of 2D thin walled structures with high-order geometry elements using transformation. Engineering Analysis With Boundary Elements, 2011, 35, 581-586.	2.0	30
108	Boundary element analysis of the thermal behaviour in thin-coated cutting tools. Engineering Analysis With Boundary Elements, 2010, 34, 775-784.	2.0	55