Wenzhen Qu

List of Publications by Year
in descending order

40 papers	1,047 citations	394421 19 h-index	414414 32 g-index
40 all docs	40 docs citations	40 times ranked	315 citing authors

#	Article	IF	Citations
1	Solution of Two-Dimensional Stokes Flow Problems Using Improved Singular Boundary Method. Advances in Applied Mathematics and Mechanics, 2015, 7, 13-30.	1.2	71
2	A spatial–temporal GFDM with an additional condition for transient heat conduction analysis of FGMs. Applied Mathematics Letters, 2020, 110, 106579.	2.7	63
3	Fast multipole accelerated singular boundary method for the 3D Helmholtz equation in low frequency regime. Computers and Mathematics With Applications, 2015, 70, 679-690.	2.7	60
4	The generalized finite difference method for long-time dynamic modeling of three-dimensional coupled thermoelasticity problems. Journal of Computational Physics, 2019, 384, 42-59.	3.8	60
5	Optimal sources in the MFS by minimizing a new merit function: Energy gap functional. Applied Mathematics Letters, 2018, 86, 229-235.	2.7	58
6	Localized boundary knot method and its application to large-scale acoustic problems. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112729.	6.6	57
7	Analysis of an augmented moving least squares approximation and the associated localized method of fundamental solutions. Computers and Mathematics With Applications, 2020, 80, 13-30.	2.7	56
8	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.	3.7	55
9	A high accuracy method for long-time evolution of acoustic wave equation. Applied Mathematics Letters, 2019, 98, 135-141.	2.7	53
10	A GFDM with supplementary nodes for thin elastic plate bending analysis under dynamic loading. Applied Mathematics Letters, 2022, 124, 107664.	2.7	40
11	Diagonal form fast multipole singular boundary method applied to the solution of high–frequency acoustic radiation and scattering. International Journal for Numerical Methods in Engineering, 2017, 111, 803-815.	2.8	39
12	Localized method of fundamental solutions for large-scale modelling of three-dimensional anisotropic heat conduction problems – Theory and MATLAB code. Computers and Structures, 2019, 220, 144-155.	4.4	38
13	Analysis of three-dimensional interior acoustic fields by using the localized method of fundamental solutions. Applied Mathematical Modelling, 2019, 76, 122-132.	4.2	36
14	Localized method of fundamental solutions for three-dimensional inhomogeneous elliptic problems: theory and MATLAB code. Computational Mechanics, 2019, 64, 1567-1588.	4.0	33
15	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.	3.7	31
16	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.	2.8	31
17	Fracture mechanics analysis of bimaterial interface cracks using the generalized finite difference method. Theoretical and Applied Fracture Mechanics, 2021, 113, 102942.	4.7	29
18	Analysis of three-dimensional heat conduction in functionally graded materials by using a hybrid numerical method. International Journal of Heat and Mass Transfer, 2019, 145, 118771.	4.8	26

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19	Singular boundary method for 2D and 3D acoustic design sensitivity analysis. Computers and Mathematics With Applications, 2022, 119, 371-386.	2.7	26
20	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.	3.7	20
21	Two general algorithms for nearly singular integrals in two dimensional anisotropic boundary element method. Computational Mechanics, 2014, 53, 1223-1234.	4.0	19
22	Topology optimization of steady-state heat conduction structures using meshless generalized finite difference method. Engineering Analysis With Boundary Elements, 2020, 119, 13-24.	3.7	19
23	Solutions of 2D and 3D non-homogeneous potential problems by using a boundary element-collocation method. Engineering Analysis With Boundary Elements, 2015, 60, 2-9.	3.7	14
24	Localized method of fundamental solutions for interior Helmholtz problems with high wave number. Engineering Analysis With Boundary Elements, 2019, 107, 25-32.	3.7	14
25	A Numerical Framework for Integrating Deferred Correction Methods to Solve High Order Collocation Formulations of ODEs. Journal of Scientific Computing, 2016, 68, 484-520.	2.3	12
26	A novel Trefftz method of the inverse Cauchy problem for 3D modified Helmholtz equation. Inverse Problems in Science and Engineering, 2017, 25, 1278-1298.	1.2	12
27	Numerically solving twofold ill-posed inverse problems of heat equation by the adjoint Trefftz method. Numerical Heat Transfer, Part B: Fundamentals, 2018, 73, 48-61.	0.9	11
28	A wideband fast multipole accelerated singular boundary method for three-dimensional acoustic problems. Computers and Structures, 2018, 206, 82-89.	4.4	11
29	Fast multipole singular boundary method for Stokes flow problems. Mathematics and Computers in Simulation, 2018, 146, 57-69.	4.4	10
30	Bending analysis of simply supported and clamped thin elastic plates by using a modified version of the LMFS. Mathematics and Computers in Simulation, 2021, 185, 347-357.	4.4	10
31	Augmented moving least squares approximation using fundamental solutions. Engineering Analysis With Boundary Elements, 2020, 115, 10-20.	3.7	9
32	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.	0.9	7
33	Boundary stress analysis using a new regularized boundary integral equation for three-dimensional elasticity problems. Archive of Applied Mechanics, 2017, 87, 1213-1226.	2.2	6
34	Fast multipole singular boundary method for large-scale plane elasticity problems. Acta Mechanica Solida Sinica, 2015, 28, 626-638.	1.9	4
35	Stress analysis of elastic bi-materials by using the localized method of fundamental solutions. AIMS Mathematics, 2021, 7, 1257-1272.	1.6	2
36	A Hybrid Localized Meshless Method for the Solution of Transient Groundwater Flow in Two Dimensions. Mathematics, 2022, 10, 515.	2.2	2

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37	Regularized formulation of potential field gradients in singular boundary method. Engineering Analysis With Boundary Elements, 2018, 95, 167-174.	3.7	1
38	The method of fundamental solutions for electroelastic analysis of two-dimensional piezoelectric materials. International Journal for Computational Methods in Engineering Science and Mechanics, 2022, 23, 420-428.	2.1	1
39	A simple formula for obtaining OIFs on Neumann boundary in 2D potential problems and its applications. Engineering Analysis With Boundary Elements, 2022, 134, 581-590.	3.7	1
40	A NONSINGULAR BOUNDARY ELEMENT METHOD FOR THE TORSION PROBLEM OF THE ANISOTROPIC UNIFORM BAR. International Journal of Computational Methods, 2012, 09, 1240020.	1.3	0