

Fajie Wang

List of Publications by Year in descending order

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63
papers

1,288
citations

377584

21
h-index

445137

33
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63
all docs

63
docs citations

63
times ranked

385
citing authors

#	ARTICLE	IF	CITATIONS
1	Localized singular boundary method for the simulation of large-scale problems of elliptic operators in complex geometries. <i>Computers and Mathematics With Applications</i> , 2022, 105, 94-106.	1.4	4
2	Precorrected-FFT Accelerated Singular Boundary Method for High-Frequency Acoustic Radiation and Scattering. <i>Mathematics</i> , 2022, 10, 238.	1.1	11
3	A semi-analytical and boundary-type meshless method with adjoint variable formulation for acoustic design sensitivity analysis. <i>Applied Mathematics Letters</i> , 2022, 131, 108068.	1.5	27
4	Localized MFS for three-dimensional acoustic inverse problems on complicated domains. <i>International Journal of Mechanical System Dynamics</i> , 2022, 2, 143-152.	1.3	4
5	Local knot method for solving inverse Cauchy problems of Helmholtz equations on complicated two- and three-dimensional domains. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 4877-4892.	1.5	3
6	Singular boundary method for 2D and 3D acoustic design sensitivity analysis. <i>Computers and Mathematics With Applications</i> , 2022, 119, 371-386.	1.4	26
7	A space-time generalized finite difference method for solving unsteady double-diffusive natural convection in fluid-saturated porous media. <i>Engineering Analysis With Boundary Elements</i> , 2022, 142, 138-152.	2.0	8
8	Localized boundary knot method for 3D inhomogeneous acoustic problems with complicated geometry. <i>Applied Mathematical Modelling</i> , 2021, 92, 410-421.	2.2	15
9	A homogenization function method for inverse heat source problems in 3D functionally graded materials. <i>Applied Mathematical Modelling</i> , 2021, 91, 923-933.	2.2	19
10	A homogenization function technique to solve the 3D inverse Cauchy problem of elliptic type equations in a closed walled shell. <i>Inverse Problems in Science and Engineering</i> , 2021, 29, 944-966.	1.2	2
11	On the supporting nodes in the localized method of fundamental solutions for 2D potential problems with Dirichlet boundary condition. <i>AIMS Mathematics</i> , 2021, 6, 7056-7069.	0.7	1
12	On the supporting nodes in the localized method of fundamental solutions for 2D potential problems with Dirichlet boundary condition. <i>AIMS Mathematics</i> , 2021, 6, 7056-7069.	0.7	1
13	Local non-singular knot method for large-scale computation of acoustic problems in complicated geometries. <i>Computers and Mathematics With Applications</i> , 2021, 84, 128-143.	1.4	13
14	A novel combined space-time algorithm for transient heat conduction problems with heat sources in complex geometry. <i>Computers and Structures</i> , 2021, 247, 106495.	2.4	8
15	Localized Chebyshev collocation method for solving elliptic partial differential equations in arbitrary 2D domains. <i>Applied Mathematics and Computation</i> , 2021, 397, 125903.	1.4	19
16	Topology optimization of non-Fourier heat conduction problems considering global thermal dissipation energy minimization. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 1385-1399.	1.7	8
17	Localized singular boundary method for solving Laplace and Helmholtz equations in arbitrary 2D domains. <i>Engineering Analysis With Boundary Elements</i> , 2021, 129, 82-92.	2.0	14
18	Fracture mechanics analysis of bimaterial interface cracks using an enriched method of fundamental solutions: Theory and MATLAB code. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 116, 103078.	2.1	9

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19	Analysis of 2D heat conduction in nonlinear functionally graded materials using a local semi-analytical meshless method. <i>AIMS Mathematics</i> , 2021, 6, 12599-12618.	0.7	28
20	Recent advances of stretched Gaussian distribution underlying Hausdorff fractal distance and its applications in fitting stretched Gaussian noise. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 539, 122996.	1.2	2
21	A novel method for image edge extraction based on the Hausdorff derivative. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 540, 123137.	1.2	7
22	Localized MFS for the inverse Cauchy problems of two-dimensional Laplace and biharmonic equations. <i>Applied Mathematics and Computation</i> , 2020, 364, 124658.	1.4	50
23	Localized boundary knot method and its application to large-scale acoustic problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 361, 112729.	3.4	57
24	Derivation and numerical validation of the fundamental solutions for constant and variable-order structural derivative advection–dispersion models. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2020, 71, 1.	0.7	5
25	Topology optimization of steady-state heat conduction structures using meshless generalized finite difference method. <i>Engineering Analysis With Boundary Elements</i> , 2020, 119, 13-24.	2.0	19
26	Local knot method for 2D and 3D convection–diffusion–reaction equations in arbitrary domains. <i>Applied Mathematics Letters</i> , 2020, 105, 106308.	1.5	63
27	Overcoming the near boundary error in the solution of non-homogeneous wave equation by a boundary consistent method. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	2
28	Deformation behavior of annealed Cu ₆₄ Zr ₃₆ metallic glass via molecular dynamics simulations. <i>Materials and Design</i> , 2020, 191, 108660.	3.3	13
29	NUMERICAL INVESTIGATION OF THREE-DIMENSIONAL HAUSDORFF DERIVATIVE ANOMALOUS DIFFUSION MODEL. <i>Fractals</i> , 2020, 28, 2050020.	1.8	4
30	Augmented moving least squares approximation using fundamental solutions. <i>Engineering Analysis With Boundary Elements</i> , 2020, 115, 10-20.	2.0	9
31	A Localized Space-Time Method of Fundamental Solutions for Diffusion and Convection-Diffusion Problems. <i>Advances in Applied Mathematics and Mechanics</i> , 2020, 12, 940-958.	0.7	54
32	A Trefftz/MFS mixed-type method to solve the Cauchy problem of the Laplace equation. <i>Applied Mathematics Letters</i> , 2019, 87, 87-92.	1.5	3
33	A non-local structural derivative model for memristor. <i>Chaos, Solitons and Fractals</i> , 2019, 126, 169-177.	2.5	4
34	HAUSDORFF DERIVATIVE LAPLACIAN OPERATOR FOR IMAGE SHARPENING. <i>Fractals</i> , 2019, 27, 1950060.	1.8	8
35	A novel space–time meshless method for nonhomogeneous convection–diffusion equations with variable coefficients. <i>Applied Mathematics Letters</i> , 2019, 92, 144-150.	1.5	45
36	Analysis of three-dimensional interior acoustic fields by using the localized method of fundamental solutions. <i>Applied Mathematical Modelling</i> , 2019, 76, 122-132.	2.2	36

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37	Localized method of fundamental solutions for three-dimensional inhomogeneous elliptic problems: theory and MATLAB code. Computational Mechanics, 2019, 64, 1567-1588.	2.2	33
38	A meshless singular boundary method for transient heat conduction problems in layered materials. Computers and Mathematics With Applications, 2019, 78, 3544-3562.	1.4	52
39	Boundary function method for boundary identification in two-dimensional steady-state nonlinear heat conduction problems. Engineering Analysis With Boundary Elements, 2019, 103, 101-108.	2.0	9
40	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.	2.4	38
41	Nonlinear wave inverse source problem solved by a method of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e69" altimg="si3.gif" \rangle \langle \text{mml:mi} \rangle \text{m} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -order homogenization functions. Applied Mathematics Letters, 2019, 91, 90-96.	1.5	16
42	An energy method of fundamental solutions for solving the inverse Cauchy problems of the Laplace equation. Computers and Mathematics With Applications, 2018, 75, 4405-4413.	1.4	12
43	Trefftz energy method for solving the Cauchy problem of the Laplace equation. Applied Mathematics Letters, 2018, 79, 187-195.	1.5	17
44	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
45	A speculative extension of the differential operator definition to fractal via the fundamental solution. Chaos, 2018, 28, 113105.	1.0	0
46	Boundary function method for inverse geometry problem in two-dimensional anisotropic heat conduction equation. Applied Mathematics Letters, 2018, 84, 130-136.	1.5	53
47	A simple empirical formula of origin intensity factor in singular boundary method for two-dimensional Hausdorff derivative Laplace equations with Dirichlet boundary. Computers and Mathematics With Applications, 2018, 76, 1075-1084.	1.4	30
48	A wideband fast multipole accelerated singular boundary method for three-dimensional acoustic problems. Computers and Structures, 2018, 206, 82-89.	2.4	11
49	A meshless method for solving the nonlinear inverse Cauchy problem of elliptic type equation in a doubly-connected domain. Computers and Mathematics With Applications, 2018, 76, 1837-1852.	1.4	19
50	Optimal sources in the MFS by minimizing a new merit function: Energy gap functional. Applied Mathematics Letters, 2018, 86, 229-235.	1.5	58
51	KANSA METHOD BASED ON THE HAUSDORFF FRACTAL DISTANCE FOR HAUSDORFF DERIVATIVE POISSON EQUATIONS. Fractals, 2018, 26, 1850084.	1.8	20
52	Three-dimensional Hausdorff derivative diffusion model for isotropic/anisotropic fractal porous media. Thermal Science, 2018, 22, 1-6.	0.5	20
53	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
54	Method of particular solutions using polynomial basis functions for the simulation of plate bending vibration problems. Applied Mathematical Modelling, 2017, 49, 452-469.	2.2	46

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55	Three-dimensional thermal stress analysis using the indirect BEM in conjunction with the radial integration method. <i>Advances in Engineering Software</i> , 2017, 112, 147-153.	1.8	14
56	A SPECULATIVE STUDY ON NEGATIVE-DIMENSIONAL POTENTIAL AND WAVE PROBLEMS BY IMPLICIT CALCULUS MODELING APPROACH. <i>Fractals</i> , 2017, 25, 1750056.	1.8	0
57	Non-Euclidean distance fundamental solution of Hausdorff derivative partial differential equations. <i>Engineering Analysis With Boundary Elements</i> , 2017, 84, 213-219.	2.0	30
58	Singular boundary method for transient convection-diffusion problems with time-dependent fundamental solution. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 1126-1134.	2.5	42
59	Recovering both the space-dependent heat source and the initial temperature by using a fast convergent iterative method. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2017, 72, 233-249.	0.6	2
60	Singular boundary method using time-dependent fundamental solution for transient diffusion problems. <i>Engineering Analysis With Boundary Elements</i> , 2016, 68, 115-123.	2.0	22
61	Accurate empirical formulas for the evaluation of origin intensity factor in singular boundary method using time-dependent diffusion fundamental solution. <i>International Journal of Heat and Mass Transfer</i> , 2016, 103, 360-369.	2.5	15
62	A BEM formulation in conjunction with parametric equation approach for three-dimensional Cauchy problems of steady heat conduction. <i>Engineering Analysis With Boundary Elements</i> , 2016, 63, 1-14.	2.0	55
63	Boundary element analysis of inverse heat conduction problems in 2D thin-walled structures. <i>International Journal of Heat and Mass Transfer</i> , 2015, 91, 1001-1009.	2.5	34