Ji Lin

List of Publications by Year
in descending order

78 papers	1,625 citations	304743 22 h-index	345221 36 g-index
78 all docs	78 docs citations	78 times ranked	660 citing authors

#	Article	IF	Citations
1	Simulation of Seismic Wave Scattering by Embedded Cavities in an Elastic Half-Plane Using the Novel Singular Boundary Method. Advances in Applied Mathematics and Mechanics, 2018, 10, 322-342.	1.2	141
2	Fast simulation of multi-dimensional wave problems by the sparse scheme of the method of fundamental solutions. Computers and Mathematics With Applications, 2016, 72, 555-567.	2.7	84
3	A novel meshless method for fully nonlinear advection–diffusion-reaction problems to model transfer in anisotropic media. Applied Mathematics and Computation, 2018, 339, 459-476.	2.2	82
4	A new investigation into regularization techniques for the method of fundamental solutions. Mathematics and Computers in Simulation, 2011, 81, 1144-1152.	4.4	80
5	The sample solution approach for determination of the optimal shape parameter in the Multiquadric function of the Kansa method. Computers and Mathematics With Applications, 2018, 75, 2942-2954.	2.7	53
6	A meshless singular boundary method for transient heat conduction problems in layered materials. Computers and Mathematics With Applications, 2019, 78, 3544-3562.	2.7	52
7	Simulation of linear and nonlinear advection–diffusion–reaction problems by a novel localized scheme. Applied Mathematics Letters, 2020, 99, 106005.	2.7	49
8	Energy-exergy analysis of compressor pressure ratio effects on thermodynamic performance of ammonia water combined cycle. Energy Conversion and Management, 2017, 134, 77-87.	9.2	47
9	Method of particular solutions using polynomial basis functions for the simulation of plate bending vibration problems. Applied Mathematical Modelling, 2017, 49, 452-469.	4.2	46
10	Numerical treatment of acoustic problems with boundary singularities by the singular boundary method. Journal of Sound and Vibration, 2014, 333, 3177-3188.	3.9	44
11	Investigation on the combined Rankine-absorption power and refrigeration cycles using the parametric analysis and genetic algorithm. Energy Conversion and Management, 2017, 150, 754-762.	9.2	44
12	Polynomial particular solutions for solving elliptic partial differential equations. Computers and Mathematics With Applications, 2017, 73, 60-70.	2.7	41
13	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.	4.2	32
14	Simulation of thermal field in mass concrete structures with cooling pipes by the localized radial basis function collocation method. International Journal of Heat and Mass Transfer, 2019, 129, 449-459.	4.8	31
15	Multi-Objective Evolutionary Optimization & 4E analysis of a bulky combined cycle power plant by CO2/ CO/ NOx reduction and cost controlling targets. Renewable and Sustainable Energy Reviews, 2020, 128, 109898.	16.4	31
16	Exergy analysis of a multi mixture working fluid absorption refrigeration cycle. Case Studies in Thermal Engineering, 2019, 15, 100540.	5.7	30
17	A new semi-analytical method for solving a class of time fractional partial differential equations with variable coefficients. Applied Mathematics Letters, 2021, 112, 106712.	2.7	29
18	Energy-exergy efficiencies analyses of a waste-to-power generation system combined with an ammonia-water dilution Rankine cycle. Case Studies in Thermal Engineering, 2021, 25, 100909.	5.7	29

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19	The radial basis function differential quadrature method with ghost points. Mathematics and Computers in Simulation, 2020, 173, 105-114.	4.4	25
20	A cubic B-spline semi-analytical algorithm for simulation of 3D steady-state convection-diffusion-reaction problems. Applied Mathematics and Computation, 2020, 371, 124944.	2.2	24
21	A typical backward substitution method for the simulation of Helmholtz problems in arbitrary 2D domains. Engineering Analysis With Boundary Elements, 2018, 93, 167-176.	3.7	23
22	A novel meshless space-time backward substitution method and its application to nonhomogeneous advection-diffusion problems. Applied Mathematics and Computation, 2021, 398, 125964.	2.2	23
23	A novel RBF-based meshless method for solving time-fractional transport equations in 2D and 3D arbitrary domains. Engineering With Computers, 2023, 39, 1905-1922.	6.1	23
24	An accurate meshless collocation technique for solving two-dimensional hyperbolic telegraph equations in arbitrary domains. Engineering Analysis With Boundary Elements, 2019, 108, 372-384.	3.7	22
25	Singular Boundary Method for Various Exterior Wave Applications. International Journal of Computational Methods, 2015, 12, 1550011.	1.3	20
26	A semi-analytic collocation technique for steady-state strongly nonlinear advection-diffusion-reaction equations with variable coefficients. International Journal for Numerical Methods in Engineering, 2017, 112, 2004-2024.	2.8	20
27	Regularized meshless method for nonhomogeneous problems. Engineering Analysis With Boundary Elements, 2011, 35, 253-257.	3.7	19
28	Thermal field in water pipe cooling concrete hydrostructures simulated with singular boundary method. Water Science and Engineering, 2017, 10, 107-114.	3.2	19
29	An accurate meshless formulation for the simulation of linear and fully nonlinear advection diffusion reaction problems. Advances in Engineering Software, 2018, 126, 127-146.	3.8	19
30	Simulating thin plate bending problems by a family of two-parameter homogenization functions. Applied Mathematical Modelling, 2020, 79, 284-299.	4.2	19
31	A homogenization function method for inverse heat source problems in 3D functionally graded materials. Applied Mathematical Modelling, 2021, 91, 923-933.	4.2	19
32	Simulation of elastic wave propagation in layered materials by the method of fundamental solutions. Engineering Analysis With Boundary Elements, 2015, 57, 88-95.	3.7	17
33	Boundary moving least square method for 2D elasticity problems. Engineering Analysis With Boundary Elements, 2019, 106, 505-512.	3.7	17
34	Simulation of 2D and 3D inverse source problems of nonlinear time-fractional wave equation by the meshless homogenization function method. Engineering With Computers, 2022, 38, 3599-3608.	6.1	17
35	A meshless radial basis function method for steady-state advection-diffusion-reaction equation in arbitrary 2D domains. Engineering Analysis With Boundary Elements, 2017, 79, 49-61.	3.7	16
36	A comprehensive design, optimization and development methodology of a wasted heat recovery boiler using serrated fins and extensive surface in a bulky CCPP. Case Studies in Thermal Engineering, 2021, 23, 100808.	5.7	16

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37	Evaluating the effect of ammonia-water dilution pressure and its density on thermodynamic performance of combined cycles by the energy-exergy analysis approach. Mechanika, 2017, 23, .	0.5	16
38	A new scheme for the solution of reaction diffusion and wave propagation problems. Applied Mathematical Modelling, 2014, 38, 5651-5664.	4.2	14
39	The adaptive algorithm for the selection of sources of the method of fundamental solutions. Engineering Analysis With Boundary Elements, 2018, 95, 154-159.	3.7	14
40	Solving the higher-dimensional nonlinear inverse heat source problems by the superposition of homogenization functions method. International Journal of Heat and Mass Transfer, 2019, 141, 651-657.	4.8	14
41	The improved backward substitution method for the simulation of time-dependent nonlinear coupled Burgers' equations. Results in Physics, 2020, 18, 103231.	4.1	14
42	The Method of Fundamental Solutions for Solving Exterior Axisymmetric Helmholtz Problems with High Wave-Number. Advances in Applied Mathematics and Mechanics, 2013, 5, 477-493.	1.2	13
43	Fast Solution of Three-Dimensional Modified Helmholtz Equations by the Method of Fundamental Solutions. Communications in Computational Physics, 2016, 20, 512-533.	1.7	12
44	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
45	A semi-analytic collocation method for space fractional parabolic PDE. International Journal of Computer Mathematics, 2018, 95, 1326-1339.	1.8	12
46	An effective semi-analytical method for solving telegraph equation with variable coefficients. European Physical Journal Plus, 2018, 133, 1.	2.6	12
47	Bending analysis of magnetoelectroelastic nanoplates resting on Pasternak elastic foundation based on nonlocal theory. Applied Mathematics and Mechanics (English Edition), 2020, 41, 1769-1786.	3.6	10
48	Crack analysis by using the enriched singular boundary method. Engineering Analysis With Boundary Elements, 2016, 72, 55-64.	3.7	9
49	Numerical simulation of 3D nonlinear Schrödinger equations by using the localized method of approximate particular solutions. Engineering Analysis With Boundary Elements, 2017, 78, 20-25.	3.7	9
50	Novel numerical method based on cubic B-splines for a class of nonlinear generalized telegraph equations in irregular domains. AEJ - Alexandria Engineering Journal, 2020, 59, 77-90.	6.4	9
51	Simulation of antiplane shear problems with multiple inclusions using the generalized finite difference method. Applied Mathematics Letters, 2021, 121, 107431.	2.7	9
52	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.	4.7	9
53	A novel combined space-time algorithm for transient heat conduction problems with heat sources in complex geometry. Computers and Structures, 2021, 247, 106495.	4.4	8
54	A novel model and solution on the bending problem of arbitrary shaped magnetoelectroelastic plates based on the modified strain gradient theory. Journal of Intelligent Material Systems and Structures, 2022, 33, 1072-1086.	2.5	8

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55	A novel Trefftz method for solving the multi-dimensional direct and Cauchy problems of Laplace equation in an arbitrary domain. Journal of Computational Science, 2018, 25, 16-27.	2.9	7
56	Simulation of heat conduction problems in layered materials using the meshless singular boundary method. Engineering Analysis With Boundary Elements, 2019, 100, 88-94.	3.7	7
57	A novel method for image edge extraction based on the Hausdorff derivative. Physica A: Statistical Mechanics and Its Applications, 2020, 540, 123137.	2.6	7
58	A RBF-based technique for 3D convection–diffusion–reaction problems in an anisotropic inhomogeneous medium. Computers and Mathematics With Applications, 2020, 79, 1875-1888.	2.7	7
59	Meshless simulation of anti-plane crack problems by the method of fundamental solutions using the crack Green's function. Computers and Mathematics With Applications, 2020, 79, 1543-1560.	2.7	6
60	A novel radial basis function method for 3D linear and nonlinear advection diffusion reaction equations with variable coefficients. Engineering With Computers, 2022, 38, 475-488.	6.1	6
61	Thermal analysis of heat transfer in pipe cooling concrete structure by a meshless RBF-FD method combined with an indirect model. International Journal of Thermal Sciences, 2020, 152, 106296.	4.9	6
62	Recovering temperature-dependent heat conductivity in 2D and 3D domains with homogenization functions as the bases. Engineering With Computers, 0, , 1.	6.1	6
63	A semi-analytical method for 1D, 2D and 3D time fractional second order dual-phase-lag model of the heat transfer. AEJ - Alexandria Engineering Journal, 2021, 60, 5879-5896.	6.4	6
64	A Novel Method for Solving Time-Dependent 2D Advection-Diffusion-Reaction Equations to Model Transfer in Nonlinear Anisotropic Media. Communications in Computational Physics, 2019, 26, 233-264.	1.7	6
65	A Study on an Absorption Refrigeration Cycle by Exergy Analysis Approach. IOP Conference Series: Earth and Environmental Science, 2018, 182, 012021.	0.3	5
66	Boundary moving least squares method for 3D elasticity problems. Engineering Analysis With Boundary Elements, 2020, 121, 255-266.	3.7	5
67	Solving heat equations under convection boundary conditions by a high-performance space-time boundary shape functions method. Numerical Heat Transfer, Part B: Fundamentals, 2020, 77, 311-327.	0.9	5
68	A novel B-spline method to analyze convection-diffusion-reaction problems in anisotropic inhomogeneous medium. Engineering Analysis With Boundary Elements, 2020, 118, 216-224.	3.7	5
69	Solving nonlinear third-order three-point boundary value problems by boundary shape functions methods. Advances in Difference Equations, 2021, 2021, .	3.5	5
70	A meshless radial basis function based method for modeling dual-phase-lag heat transfer in irregular domains. Computers and Mathematics With Applications, 2021, 85, 1-17.	2.7	5
71	A space-time backward substitution method for three-dimensional advection-diffusion equations. Computers and Mathematics With Applications, 2021, 97, 77-85.	2.7	5
72	A non-local structural derivative model for memristor. Chaos, Solitons and Fractals, 2019, 126, 169-177.	5.1	4

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73	Localized singular boundary method for the simulation of large-scale problems of elliptic operators in complex geometries. Computers and Mathematics With Applications, 2022, 105, 94-106.	2.7	4
74	New method for the determination of convective heat transfer coefficient in fully-developed laminar pipe flow. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	3.4	4
75	Thermal effect and optimal design of cooling pipes on mass concrete with constant quantity of water flow. Numerical Heat Transfer; Part A: Applications, 2020, 78, 619-635.	2.1	2
76	Boundary shape function iterative method for nonlinear second-order boundary value problems with nonlinear boundary conditions. Mathematics and Computers in Simulation, 2022, 194, 539-551.	4.4	2
77	Simulation of antiplane piezoelectricity problems with multiple inclusions using the generalized finite difference method. European Journal of Mechanics, A/Solids, 2022, 94, 104615.	3.7	2
78	A Numerical-Analytical Method for Time-Fractional Dual-Phase-Lag Models of Heat Transfer. Advances in Applied Mathematics and Mechanics, 2022, 14, 666-702.	1.2	1