

# Ji Lin

## List of Publications by Year in descending order

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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	A novel RBF-based meshless method for solving time-fractional transport equations in 2D and 3D arbitrary domains. <i>Engineering With Computers</i> , 2023, 39, 1905-1922.	6.1	23
2	A novel radial basis function method for 3D linear and nonlinear advection diffusion reaction equations with variable coefficients. <i>Engineering With Computers</i> , 2022, 38, 475-488.	6.1	6
3	Simulation of 2D and 3D inverse source problems of nonlinear time-fractional wave equation by the meshless homogenization function method. <i>Engineering With Computers</i> , 2022, 38, 3599-3608.	6.1	17
4	A novel model and solution on the bending problem of arbitrary shaped magneto-electroelastic plates based on the modified strain gradient theory. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 1072-1086.	2.5	8
5	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.	2.7	4
6	Boundary shape function iterative method for nonlinear second-order boundary value problems with nonlinear boundary conditions. <i>Mathematics and Computers in Simulation</i> , 2022, 194, 539-551.	4.4	2
7	A Numerical-Analytical Method for Time-Fractional Dual-Phase-Lag Models of Heat Transfer. <i>Advances in Applied Mathematics and Mechanics</i> , 2022, 14, 666-702.	1.2	1
8	Simulation of antiplane piezoelectricity problems with multiple inclusions using the generalized finite difference method. <i>European Journal of Mechanics, A/Solids</i> , 2022, 94, 104615.	3.7	2
9	New method for the determination of convective heat transfer coefficient in fully-developed laminar pipe flow. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	3.4	4
10	A homogenization function method for inverse heat source problems in 3D functionally graded materials. <i>Applied Mathematical Modelling</i> , 2021, 91, 923-933.	4.2	19
11	A new semi-analytical method for solving a class of time fractional partial differential equations with variable coefficients. <i>Applied Mathematics Letters</i> , 2021, 112, 106712.	2.7	29
12	A comprehensive design, optimization and development methodology of a wasted heat recovery boiler using serrated fins and extensive surface in a bulky CCPP. <i>Case Studies in Thermal Engineering</i> , 2021, 23, 100808.	5.7	16
13	Solving nonlinear third-order three-point boundary value problems by boundary shape functions methods. <i>Advances in Difference Equations</i> , 2021, 2021, .	3.5	5
14	A meshless radial basis function based method for modeling dual-phase-lag heat transfer in irregular domains. <i>Computers and Mathematics With Applications</i> , 2021, 85, 1-17.	2.7	5
15	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.	4.4	8
16	Energy-exergy efficiencies analyses of a waste-to-power generation system combined with an ammonia-water dilution Rankine cycle. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100909.	5.7	29
17	A novel meshless space-time backward substitution method and its application to nonhomogeneous advection-diffusion problems. <i>Applied Mathematics and Computation</i> , 2021, 398, 125964.	2.2	23
18	A space-time backward substitution method for three-dimensional advection-diffusion equations. <i>Computers and Mathematics With Applications</i> , 2021, 97, 77-85.	2.7	5

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19	Simulation of antiplane shear problems with multiple inclusions using the generalized finite difference method. <i>Applied Mathematics Letters</i> , 2021, 121, 107431.	2.7	9
20	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.	4.7	9
21	A semi-analytical method for 1D, 2D and 3D time fractional second order dual-phase-lag model of the heat transfer. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 5879-5896.	6.4	6
22	Meshless simulation of anti-plane crack problems by the method of fundamental solutions using the crack Green's function. <i>Computers and Mathematics With Applications</i> , 2020, 79, 1543-1560.	2.7	6
23	A novel method for image edge extraction based on the Hausdorff derivative. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 540, 123137.	2.6	7
24	Simulation of linear and nonlinear advection-diffusion-reaction problems by a novel localized scheme. <i>Applied Mathematics Letters</i> , 2020, 99, 106005.	2.7	49
25	Simulating thin plate bending problems by a family of two-parameter homogenization functions. <i>Applied Mathematical Modelling</i> , 2020, 79, 284-299.	4.2	19
26	A RBF-based technique for 3D convection-diffusion-reaction problems in an anisotropic inhomogeneous medium. <i>Computers and Mathematics With Applications</i> , 2020, 79, 1875-1888.	2.7	7
27	A cubic B-spline semi-analytical algorithm for simulation of 3D steady-state convection-diffusion-reaction problems. <i>Applied Mathematics and Computation</i> , 2020, 371, 124944.	2.2	24
28	Novel numerical method based on cubic B-splines for a class of nonlinear generalized telegraph equations in irregular domains. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 77-90.	6.4	9
29	The radial basis function differential quadrature method with ghost points. <i>Mathematics and Computers in Simulation</i> , 2020, 173, 105-114.	4.4	25
30	Bending analysis of magnetoelastic nanoplates resting on Pasternak elastic foundation based on nonlocal theory. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020, 41, 1769-1786.	3.6	10
31	Boundary moving least squares method for 3D elasticity problems. <i>Engineering Analysis With Boundary Elements</i> , 2020, 121, 255-266.	3.7	5
32	The improved backward substitution method for the simulation of time-dependent nonlinear coupled Burgers equations. <i>Results in Physics</i> , 2020, 18, 103231.	4.1	14
33	Thermal effect and optimal design of cooling pipes on mass concrete with constant quantity of water flow. <i>Numerical Heat Transfer; Part A: Applications</i> , 2020, 78, 619-635.	2.1	2
34	Multi-Objective Evolutionary Optimization & 4E analysis of a bulky combined cycle power plant by CO <sub>2</sub> / CO/ NO <sub>x</sub> reduction and cost controlling targets. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 128, 109898.	16.4	31
35	Solving heat equations under convection boundary conditions by a high-performance space-time boundary shape functions method. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2020, 77, 311-327.	0.9	5
36	A novel B-spline method to analyze convection-diffusion-reaction problems in anisotropic inhomogeneous medium. <i>Engineering Analysis With Boundary Elements</i> , 2020, 118, 216-224.	3.7	5

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37	Thermal analysis of heat transfer in pipe cooling concrete structure by a meshless RBF-FD method combined with an indirect model. <i>International Journal of Thermal Sciences</i> , 2020, 152, 106296.	4.9	6
38	Boundary moving least square method for 2D elasticity problems. <i>Engineering Analysis With Boundary Elements</i> , 2019, 106, 505-512.	3.7	17
39	Solving the higher-dimensional nonlinear inverse heat source problems by the superposition of homogenization functions method. <i>International Journal of Heat and Mass Transfer</i> , 2019, 141, 651-657.	4.8	14
40	A non-local structural derivative model for memristor. <i>Chaos, Solitons and Fractals</i> , 2019, 126, 169-177.	5.1	4
41	An accurate meshless collocation technique for solving two-dimensional hyperbolic telegraph equations in arbitrary domains. <i>Engineering Analysis With Boundary Elements</i> , 2019, 108, 372-384.	3.7	22
42	Exergy analysis of a multi mixture working fluid absorption refrigeration cycle. <i>Case Studies in Thermal Engineering</i> , 2019, 15, 100540.	5.7	30
43	A meshless singular boundary method for transient heat conduction problems in layered materials. <i>Computers and Mathematics With Applications</i> , 2019, 78, 3544-3562.	2.7	52
44	Simulation of thermal field in mass concrete structures with cooling pipes by the localized radial basis function collocation method. <i>International Journal of Heat and Mass Transfer</i> , 2019, 129, 449-459.	4.8	31
45	Simulation of heat conduction problems in layered materials using the meshless singular boundary method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 100, 88-94.	3.7	7
46	A Novel Method for Solving Time-Dependent 2D Advection-Diffusion-Reaction Equations to Model Transfer in Nonlinear Anisotropic Media. <i>Communications in Computational Physics</i> , 2019, 26, 233-264.	1.7	6
47	The sample solution approach for determination of the optimal shape parameter in the Multiquadric function of the Kansa method. <i>Computers and Mathematics With Applications</i> , 2018, 75, 2942-2954.	2.7	53
48	A novel Trefftz method for solving the multi-dimensional direct and Cauchy problems of Laplace equation in an arbitrary domain. <i>Journal of Computational Science</i> , 2018, 25, 16-27.	2.9	7
49	A semi-analytic collocation method for space fractional parabolic PDE. <i>International Journal of Computer Mathematics</i> , 2018, 95, 1326-1339.	1.8	12
50	A Study on an Absorption Refrigeration Cycle by Exergy Analysis Approach. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 182, 012021.	0.3	5
51	An accurate meshless formulation for the simulation of linear and fully nonlinear advection diffusion reaction problems. <i>Advances in Engineering Software</i> , 2018, 126, 127-146.	3.8	19
52	A typical backward substitution method for the simulation of Helmholtz problems in arbitrary 2D domains. <i>Engineering Analysis With Boundary Elements</i> , 2018, 93, 167-176.	3.7	23
53	An effective semi-analytical method for solving telegraph equation with variable coefficients. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	12
54	A novel meshless method for fully nonlinear advection-diffusion-reaction problems to model transfer in anisotropic media. <i>Applied Mathematics and Computation</i> , 2018, 339, 459-476.	2.2	82

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55	The adaptive algorithm for the selection of sources of the method of fundamental solutions. <i>Engineering Analysis With Boundary Elements</i> , 2018, 95, 154-159.	3.7	14
56	Simulation of Seismic Wave Scattering by Embedded Cavities in an Elastic Half-Plane Using the Novel Singular Boundary Method. <i>Advances in Applied Mathematics and Mechanics</i> , 2018, 10, 322-342.	1.2	141
57	Analytical evaluation of the origin intensity factor of time-dependent diffusion fundamental solution for a matrix-free singular boundary method formulation. <i>Applied Mathematical Modelling</i> , 2017, 49, 647-662.	4.2	32
58	A meshless radial basis function method for steady-state advection-diffusion-reaction equation in arbitrary 2D domains. <i>Engineering Analysis With Boundary Elements</i> , 2017, 79, 49-61.	3.7	16
59	Method of particular solutions using polynomial basis functions for the simulation of plate bending vibration problems. <i>Applied Mathematical Modelling</i> , 2017, 49, 452-469.	4.2	46
60	Polynomial particular solutions for solving elliptic partial differential equations. <i>Computers and Mathematics With Applications</i> , 2017, 73, 60-70.	2.7	41
61	A semi-analytic collocation technique for steady-state strongly nonlinear advection-diffusion-reaction equations with variable coefficients. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 112, 2004-2024.	2.8	20
62	Numerical simulation of 3D nonlinear Schrödinger equations by using the localized method of approximate particular solutions. <i>Engineering Analysis With Boundary Elements</i> , 2017, 78, 20-25.	3.7	9
63	Energy-exergy analysis of compressor pressure ratio effects on thermodynamic performance of ammonia water combined cycle. <i>Energy Conversion and Management</i> , 2017, 134, 77-87.	9.2	47
64	Investigation on the combined Rankine-absorption power and refrigeration cycles using the parametric analysis and genetic algorithm. <i>Energy Conversion and Management</i> , 2017, 150, 754-762.	9.2	44
65	Thermal field in water pipe cooling concrete hydrostructures simulated with singular boundary method. <i>Water Science and Engineering</i> , 2017, 10, 107-114.	3.2	19
66	A novel Trefftz method of the inverse Cauchy problem for 3D modified Helmholtz equation. <i>Inverse Problems in Science and Engineering</i> , 2017, 25, 1278-1298.	1.2	12
67	Evaluating the effect of ammonia-water dilution pressure and its density on thermodynamic performance of combined cycles by the energy-exergy analysis approach. <i>Mechanika</i> , 2017, 23, .	0.5	16
68	Fast Solution of Three-Dimensional Modified Helmholtz Equations by the Method of Fundamental Solutions. <i>Communications in Computational Physics</i> , 2016, 20, 512-533.	1.7	12
69	Crack analysis by using the enriched singular boundary method. <i>Engineering Analysis With Boundary Elements</i> , 2016, 72, 55-64.	3.7	9
70	Fast simulation of multi-dimensional wave problems by the sparse scheme of the method of fundamental solutions. <i>Computers and Mathematics With Applications</i> , 2016, 72, 555-567.	2.7	84
71	Singular Boundary Method for Various Exterior Wave Applications. <i>International Journal of Computational Methods</i> , 2015, 12, 1550011.	1.3	20
72	Simulation of elastic wave propagation in layered materials by the method of fundamental solutions. <i>Engineering Analysis With Boundary Elements</i> , 2015, 57, 88-95.	3.7	17

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73	Numerical treatment of acoustic problems with boundary singularities by the singular boundary method. <i>Journal of Sound and Vibration</i> , 2014, 333, 3177-3188.	3.9	44
74	A new scheme for the solution of reaction diffusion and wave propagation problems. <i>Applied Mathematical Modelling</i> , 2014, 38, 5651-5664.	4.2	14
75	The Method of Fundamental Solutions for Solving Exterior Axisymmetric Helmholtz Problems with High Wave-Number. <i>Advances in Applied Mathematics and Mechanics</i> , 2013, 5, 477-493.	1.2	13
76	Regularized meshless method for nonhomogeneous problems. <i>Engineering Analysis With Boundary Elements</i> , 2011, 35, 253-257.	3.7	19
77	A new investigation into regularization techniques for the method of fundamental solutions. <i>Mathematics and Computers in Simulation</i> , 2011, 81, 1144-1152.	4.4	80
78	Recovering temperature-dependent heat conductivity in 2D and 3D domains with homogenization functions as the bases. <i>Engineering With Computers</i> , 0, , 1.	6.1	6