

# Jiang-Ren Chang

## List of Publications by Year in descending order

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29  
papers

426  
citations

687363

13  
h-index

713466

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docs citations

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times ranked

262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical and experimental study of natural convection heat transfer characteristics for vertical plate fin and tube heat exchangers with various tube diameters. <i>International Journal of Heat and Mass Transfer</i> , 2016, 100, 320-331.	4.8	53
2	A new shooting method for quasi-boundary regularization of backward heat conduction problems. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 2325-2332.	4.8	45
3	Numerical and experimental studies of natural convection in a heated cavity with a horizontal fin on a hot sidewall. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 1217-1229.	4.8	37
4	Numerical and experimental study of natural convection heat transfer characteristics for vertical annular finned tube heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 378-392.	4.8	34
5	Numerical and experimental study of mixed convection heat transfer and fluid flow characteristics of plate-fin heat sinks. <i>International Journal of Heat and Mass Transfer</i> , 2017, 111, 1050-1062.	4.8	27
6	The Lie-group shooting method for multiple-solutions of Falknerâ€“Skan equation under suctionâ€“injection conditions. <i>International Journal of Non-Linear Mechanics</i> , 2008, 43, 844-851.	2.6	24
7	A Novel Approach to Great Circle Sailings: The Great Circle Equation. <i>Journal of Navigation</i> , 2004, 57, 311-320.	1.7	21
8	The Modified Polynomial Expansion Method for Solving the Inverse Heat Source Problems. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2013, 63, 357-370.	0.9	21
9	Recovering A Heat Source and Initial Value by a Lie-Group Differential Algebraic Equations Method. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2015, 67, 231-254.	0.9	18
10	Effect of domain boundary set on natural convection heat transfer characteristics for vertical annular finned tube heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2017, 109, 668-682.	4.8	17
11	Numerical study on natural convection heat transfer of annular finned tube heat exchanger in chimney with experimental data. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 483-496.	4.8	17
12	Numerical study of mixed convection heat transfer for vertical annular finned tube heat exchanger with experimental data and different tube diameters. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 931-947.	4.8	15
13	The backward group preserving scheme for 1D backward in time advectionâ€“dispersion equation. <i>Numerical Methods for Partial Differential Equations</i> , 2010, 26, 61-80.	3.6	14
14	Boundary shape functions methods for solving the nonlinear singularly perturbed problems with Robin boundary conditions. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2020, 21, 797-806.	1.0	14
15	The modified polynomial expansion method for identifying the time dependent heat source in two-dimensional heat conduction problems. <i>International Journal of Heat and Mass Transfer</i> , 2016, 92, 658-664.	4.8	13
16	The Lie-group shooting method for boundary layer equations in fluid mechanics. <i>Journal of Hydrodynamics</i> , 2006, 18, 103-108.	3.2	12
17	Application of symmetric indirect Trefftz method to free vibration problems in 2D. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 56, 1175-1192.	2.8	11
18	New Computational Methods for Solving Problems of the Astronomical Vessel Position. <i>Journal of Navigation</i> , 2005, 58, 315-335.	1.7	10

#	ARTICLE	IF	CITATIONS
19	A high-order Lie groups scheme for solving the recovery of external force in nonlinear system. Inverse Problems in Science and Engineering, 2018, 26, 1749-1783.	1.2	5
20	Solving Helmholtz equation with high wave number and ill-posed inverse problem using the multiple scales Trefftz collocation method. Engineering Analysis With Boundary Elements, 2015, 61, 145-152.	3.7	3
21	Analytical solution of spray cooling characteristics on a hot surface using the Laplace transform. Inverse Problems in Science and Engineering, 2016, 24, 957-973.	1.2	3
22	A regularized Fourier sine series solution of a 3D backward heat conduction problem with extremal long time span. Numerical Heat Transfer, Part B: Fundamentals, 2018, 74, 807-817.	0.9	3
23	The recovery of external force in nonlinear system by using a weak-form integral method. Nonlinear Dynamics, 2016, 86, 987-998.	5.2	2
24	Identifying heat conductivity and source functions for a nonlinear convective-diffusive equation by energetic boundary functional methods. Numerical Heat Transfer, Part B: Fundamentals, 2020, 78, 248-264.	0.9	2
25	Solving a nonlinear heat equation with nonlocal boundary conditions by a method of nonlocal boundary shape functions. Numerical Heat Transfer, Part B: Fundamentals, 2021, 80, 1-13.	0.9	2
26	A homogenization method to solve inverse Cauchyâ€“Stefan problems for recovering non-smooth moving boundary, heat flux and initial value. Inverse Problems in Science and Engineering, 2021, 29, 2772-2803.	1.2	2
27	Solving nonlinear third-order boundary value problems based-on boundary shape functions. International Journal of Nonlinear Sciences and Numerical Simulation, 2021, .	1.0	1
28	The Lie-group shooting method for boundary layer equations in fluid mechanics. Journal of Hydrodynamics, 2006, 18, 101-106.	3.2	0
29	A simple spatial integration scheme for solving Cauchy problems of non-linear evolution equations. Inverse Problems in Science and Engineering, 2017, 25, 1653-1675.	1.2	0