

# Liancun Zheng

## List of Publications by Citations

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88

papers

1,792

citations

21

h-index

40

g-index

91

ext. papers

2,034

ext. citations

2.9

avg, IF

5.23

L-index

#	Paper	IF	Citations
88	Coupled flow and heat transfer in viscoelastic fluid with Cattaneo-Christov heat flux model. <i>Applied Mathematics Letters</i> , <b>2014</b> , 38, 87-93	3.5	288
87	MHD flow and radiation heat transfer of nanofluids in porous media with variable surface heat flux and chemical reaction. <i>Applied Mathematical Modelling</i> , <b>2015</b> , 39, 165-181	4.5	267
86	Mixed convection heat transfer in power law fluids over a moving conveyor along an inclined plate. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 85, 1023-1033	4.9	154
85	Radiation effects on Marangoni convection flow and heat transfer in pseudo-plastic non-Newtonian nanofluids with variable thermal conductivity. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 77, 708-716	4.9	143
84	Analysis of MHD thermosolutal Marangoni convection with the heat generation and a first-order chemical reaction. <i>Chemical Engineering Science</i> , <b>2012</b> , 69, 449-455	4.4	56
83	Anomalous convection diffusion and wave coupling transport of cells on comb frame with fractional Cattaneo-Christov flux. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2016</b> , 38, 45-58	3.7	49
82	Marangoni boundary layer flow and heat transfer of copper-water nanofluid over a porous medium disk. <i>AIP Advances</i> , <b>2015</b> , 5, 107225	1.5	39
81	Marangoni convection of power law fluids driven by power-law temperature gradient. <i>Journal of the Franklin Institute</i> , <b>2012</b> , 349, 2585-2597	4	38
80	Magnetohydrodynamics Thermocapillary Marangoni Convection Heat Transfer of Power-Law Fluids Driven by Temperature Gradient. <i>Journal of Heat Transfer</i> , <b>2013</b> , 135,	1.8	36
79	Heat transfer in pseudo-plastic non-Newtonian fluids with variable thermal conductivity. <i>Energy Conversion and Management</i> , <b>2011</b> , 52, 355-358	10.6	30
78	A new diffusion for laminar boundary layer flow of power law fluids past a flat surface with magnetic effect and suction or injection. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 90, 1090-1097	4.9	29
77	Unsteady MHD flow and radiation heat transfer of nanofluid in a finite thin film with heat generation and thermophoresis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2016</b> , 67, 226-234	5.3	29
76	Modeling heat transport in nanofluids with stagnation point flow using fractional calculus. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 8974-8984	4.5	28
75	Fractional anomalous diffusion with Cattaneo-Christov flux effects in a comb-like structure. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 6663-6675	4.5	28
74	A spatial-fractional thermal transport model for nanofluid in porous media. <i>Applied Mathematical Modelling</i> , <b>2018</b> , 53, 622-634	4.5	27
73	Exact solutions for the unsteady rotating flows of a generalized Maxwell fluid with oscillating pressure gradient between coaxial cylinders. <i>Computers and Mathematics With Applications</i> , <b>2011</b> , 62, 1105-1115	2.7	27
72	Unsteady Marangoni convection heat transfer of fractional Maxwell fluid with Cattaneo heat flux. <i>Applied Mathematical Modelling</i> , <b>2017</b> , 44, 497-507	4.5	25

71	A novel investigation of a micropolar fluid characterized by nonlinear constitutive diffusion model in boundary layer flow and heat transfer. <i>Physics of Fluids</i> , <b>2017</b> , 29, 023105	4.4	24
70	MHD Marangoni boundary layer flow and heat transfer of pseudo-plastic nanofluids over a porous medium with a modified model. <i>Mechanics of Time-Dependent Materials</i> , <b>2015</b> , 19, 519-536	1.2	22
69	Convection of Maxwell fluid over stretching porous surface with heat source/sink in presence of nanoparticles: Lie group analysis. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2016</b> , 37, 433-442 <sup>3.2</sup>	3.2	21
68	BIFURCATION SOLUTIONS TO A BOUNDARY LAYER PROBLEM ARISING IN THE THEORY OF POWER LAW FLUIDS. <i>Acta Mathematica Scientia</i> , <b>2000</b> , 20, 19-26	0.7	21
67	Similarity Solutions of Marangoni Convection Boundary Layer Flow with Gravity and External Pressure. <i>Chinese Journal of Chemical Engineering</i> , <b>2014</b> , 22, 365-369	3.2	20
66	On mixed convection of two immiscible layers with a layer of non-Newtonian nanofluid in a vertical channel. <i>Powder Technology</i> , <b>2017</b> , 310, 351-358	5.2	16
65	Existence and uniqueness of global solutions of caputo-type fractional differential equations. <i>Fractional Calculus and Applied Analysis</i> , <b>2016</b> , 19, 765-774	2.7	16
64	Improved drag force model and its application in simulating nanofluid flow. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 17, 253-261	2.8	16
63	Sedimentation and precipitation of nanoparticles in power-law fluids. <i>Microfluidics and Nanofluidics</i> , <b>2013</b> , 15, 11-18	2.8	15
62	FLOW AND HEAT TRANSFER OF MHD VISCOUS FLUID OVER AN UNSTEADY STRETCHING SURFACE WITH RADIATION HEAT FLUX. <i>Chemical Engineering Communications</i> , <b>2012</b> , 199, 1-16	2.2	15
61	Suitable heat transfer model for self-similar laminar boundary layer in power law fluids. <i>Journal of Thermal Science</i> , <b>2004</b> , 13, 150-154	1.9	15
60	Heat transfer characteristics of thin power-law liquid films over horizontal stretching sheet with internal heating and variable thermal coefficient. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2016</b> , 37, 1587-1596	3.2	14
59	Lie group method for the modified model of MHD flow and heat transfer of a non-Newtonian fluid with prescribed heat flux over a moving porous plate. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 220, 768-777	6	14
58	Hydrodynamic plane and axisymmetric slip stagnation-point flow with thermal radiation and temperature jump. <i>Journal of Mechanical Science and Technology</i> , <b>2011</b> , 25, 1837-1844	1.6	13
57	Unsteady natural convection heat transfer of nanofluid in an annulus with a sinusoidally heated source. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2016</b> , 69, 97-108	2.3	12
56	Fractional boundary layer flow and radiation heat transfer of MHD viscoelastic fluid over an unsteady stretching surface. <i>AIP Advances</i> , <b>2015</b> , 5, 107133	1.5	12
55	Comparison Between Thermal Conductivity Models on Heat Transfer in Power-Law Non-Newtonian Fluids. <i>Journal of Heat Transfer</i> , <b>2012</b> , 134,	1.8	12
54	Lie group analysis and similarity solution for fractional Blasius flow. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2016</b> , 37, 90-101	3.7	11

53	A new model for Brownian force and the application to simulating nanofluid flow. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 16, 131-139	2.8	11
52	Effects of nonlinear velocity slip and temperature jump on pseudo-plastic power-law fluid over moving permeable surface in presence of magnetic field. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2017</b> , 38, 333-342	3.2	10
51	Exact solution and invariant for fractional Cattaneo anomalous diffusion of cells in two-dimensional comb framework. <i>Nonlinear Dynamics</i> , <b>2017</b> , 89, 213-224	5	9
50	Numerical simulation of magnetic nano drug targeting to atherosclerosis: Effect of plaque morphology (stenosis degree and shoulder length). <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 195, 105556	6.9	9
49	Precipitation phenomenon of nanoparticles in power-law fluids over a rotating disk. <i>Microfluidics and Nanofluidics</i> , <b>2014</b> , 17, 107-114	2.8	9
48	A Novel Equivalent Agglomeration Model for Heat Conduction Enhancement in Nanofluids. <i>Scientific Reports</i> , <b>2016</b> , 6, 19560	4.9	9
47	Fractal aggregation kinetics contributions to thermal conductivity of nano-suspensions in unsteady thermal convection. <i>Scientific Reports</i> , <b>2016</b> , 6, 39446	4.9	9
46	Marangoni Convection Heat and Mass Transport of Power-Law Fluid in Porous Medium with Heat Generation and Chemical Reaction. <i>Heat Transfer Engineering</i> , <b>2017</b> , 38, 641-652	1.7	8
45	Analysis of the formation mechanism and occurrence possibility of Post-Stenotic Dilatation of the aorta by CFD approach. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 194, 105522	6.9	8
44	Evaluation of particle shape, size and magnetic field intensity for targeted delivery efficiency and plaque injury in treating atherosclerosis. <i>Powder Technology</i> , <b>2020</b> , 366, 63-72	5.2	8
43	A new model for flow and heat of a power law fluid in a pipe. <i>Thermal Science</i> , <b>2011</b> , 15, 127-130	1.2	8
42	Numerical study of thermal boundary layer on a continuous moving surface in power law fluids. <i>Journal of Thermal Science</i> , <b>2007</b> , 16, 243-247	1.9	8
41	Magnetohydrodynamic thin film and heat transfer of power law fluids over an unsteady stretching sheet with variable thermal conductivity. <i>Thermal Science</i> , <b>2016</b> , 20, 1791-1800	1.2	8
40	MHD thermosolutal marangoni convection heat and mass transport of power law fluid driven by temperature and concentration gradient. <i>AIP Advances</i> , <b>2015</b> , 5, 087160	1.5	7
39	A finite element method for heat transfer of power-law flow in channels with a transverse magnetic field. <i>Mathematical Methods in the Applied Sciences</i> , <b>2014</b> , 37, 1121-1129	2.3	7
38	Fractional Boundary Layer Flow and Heat Transfer Over a Stretching Sheet With Variable Thickness. <i>Journal of Heat Transfer</i> , <b>2018</b> , 140,	1.8	6
37	Flow and Heat Transfer of Bingham Plastic Fluid over a Rotating Disk with Variable Thickness. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2016</b> , 71, 1003-1015	1.4	5
36	A Mixed Analytical/Numerical Method for Velocity and Heat Transfer of Laminar Power-Law Fluids. <i>Numerical Mathematics</i> , <b>2016</b> , 9, 315-336	1.5	5

35	Hall effect on MHD flow and heat transfer of nanofluids over a stretching wedge in the presence of velocity slip and Joule heating. <i>Open Physics</i> , <b>2013</b> , 11,	1.3	5
34	Solving fractional partial differential equations in fluid mechanics by generalized differential transform method <b>2011</b> ,		5
33	Subdiffusions on circular branching structures. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 77, 225-238	3.7	4
32	Coupling Effects of Viscous Sheet and Ambient Fluid on Boundary Layer Flow and Heat Transfer in Power-Law Fluids. <i>Journal of Heat Transfer</i> , <b>2019</b> , 141,	1.8	4
31	The analysis of the suction/injection on the MHD Maxwell fluid past a stretching plate in the presence of nanoparticles by Lie group method. <i>Open Physics</i> , <b>2015</b> , 13,	1.3	4
30	Symmetry analysis and conservation laws to the space-fractional Prandtl equation. <i>Nonlinear Dynamics</i> , <b>2017</b> , 90, 1343-1351	5	4
29	An analysis of the characteristics of the thermal boundary layer in power law fluid. <i>Journal of Thermal Science</i> , <b>2008</b> , 17, 233-237	1.9	4
28	Momentum and heat transfer in laminar boundary layer behind shock wave. <i>Journal of Thermal Science</i> , <b>2002</b> , 11, 255-258	1.9	4
27	Perturbation solutions for a micropolar fluid flow in a semi-infinite expanding or contracting pipe with large injection or suction through porous wall. <i>Open Physics</i> , <b>2016</b> , 14, 231-238	1.3	3
26	Similarity solutions of momentum and energy equations for an axi-symmetric laminar jet. <i>Journal of Thermal Science</i> , <b>2004</b> , 13, 334-337	1.9	3
25	Magnetic nanoparticle drug targeting to patient-specific atherosclerosis: effects of magnetic field intensity and configuration. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 349-360	3.2	3
24	Unsteady Convective Heat Transfer of Power-Law Fluid with Variable Fluid Properties in a Concentric Annulus Originating from a Polymer Flooding Process. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2015</b> , 68, 761-776	2.3	2
23	Impact of Velocity Slip and Temperature Jump of Nanofluid in the Flow over a Stretching Sheet with Variable Thickness. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2016</b> , 71, 413-425	1.4	2
22	Unsteady MHD convection heat transfer along an accelerating/decelerating cylinder with variable fluid properties. <i>European Physical Journal Plus</i> , <b>2014</b> , 129, 1	3.1	2
21	Flow and Heat Transfer of Nanofluids Over a Rotating Porous Disk with Velocity Slip and Temperature Jump. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2015</b> , 70, 351-358	1.4	2
20	A New Model for Plastic-Viscoelastic Magnetohydrodynamic (MHD) Flow with Radiation Thermal Transfer. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , <b>2013</b> , 14, 435-441	1.8	2
19	Experimental investigation of dimensionless velocity and shearing stress in boundary layer flow on continuous moving surface in power law fluids. <i>Journal of Thermal Science</i> , <b>2011</b> , 20, 115-118	1.9	2
18	Effects of Viscous Dissipation on the Thermal Boundary Layer of Pseudoplastic Power-Law Non-Newtonian Fluids Using Discretization Method and the Boubaker Polynomials Expansion Scheme. <i>ISRN Thermodynamics</i> , <b>2012</b> , 2012, 1-6		2

17	Quantitative analysis of renal blood flow during thoracic endovascular aortic repair in type B aortic dissection using iFlow. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2021</b> , 11, 3726-3734	3.6	2
16	Anomalous subdiffusion in angular and radial direction on a circular comb-like structure with nonisotropic relaxation. <i>Applied Mathematical Modelling</i> , <b>2018</b> , 64, 615-623	4.5	1
15	Heat Transfer of Power-Law Liquid Food in a Tank with Varying Stirrer Settings. <i>International Journal of Food Engineering</i> , <b>2019</b> , 15,	1.9	1
14	Numerical Methods for Solving Energy Equations of Dilatant Fluid Flow <b>2010</b> ,		1
13	The initial, boundary value problems for a class of generalized diffusion equations. <i>Journal of Thermal Science</i> , <b>2002</b> , 11, 31-34	1.9	1
12	Non-Newtonian biomagnetic fluid flow through a stenosed bifurcated artery with a slip boundary condition. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 1611-1630	3.2	1
11	Memory dependent anomalous diffusion in comb structure under distributed order time fractional dual-phase-lag model. <i>International Journal of Biomathematics</i> , 2150048	1.8	1
10	Numerical investigations of temperature and hemodynamics in carotid arteries with and without atherosclerotic plaque during open surgery. <i>Journal of Thermal Biology</i> , <b>2020</b> , 91, 102622	2.9	0
9	Numerical Investigation of a Two-Phase Nanofluid Model for Boundary Layer Flow Past a Variable Thickness Sheet. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2018</b> , 73, 229-237 <sup>1.4</sup>		
8	An Investigation of the Forced Convection and Heat Transfer with a Cylindrical Agitator Subjected to Non-Newtonian Nanofluids. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2018</b> , 73, 869-882	1.4	
7	Enlarged Lumen Volume of Proximal Aortic Segment and Acute Type B Aortic Dissection: A Computer Fluid Dynamics Study of Ideal Aortic Models.. <i>International Journal of General Medicine</i> , <b>2022</b> , 15, 535-543	2.3	
6	On heat transfer of weakly compressible power-law flows. <i>Thermal Science</i> , <b>2017</b> , 21, 2709-2718	1.2	
5	Machine learning of synaptic structure with neurons to promote tumor growth. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 1697-1706	3.2	
4	Boundary Layer Mechanism of a Two-Phase Nanofluid Subject to Coupled Interface Dynamics of Fluid/Film. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2019</b> , 75, 43-53	1.4	
3	Anomalous diffusion and heat transfer on comb structure with anisotropic relaxation in fractal porous media. <i>Thermal Science</i> , <b>2021</b> , 25, 733-742	1.2	
2	On the drag effect of one fluid driven by another in a vertical channel. <i>AIP Advances</i> , <b>2018</b> , 8, 115313	1.5	
1	Turbulent boundary layer heat transfer of CuO/water nanofluids on a continuously moving plate subject to convective boundary. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2022</b> , 77, 369-377	1.4	