

# Hang Xu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103  
papers

2,007  
citations

28  
h-index

41  
g-index

117  
ext. papers

2,313  
ext. citations

3.3  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
103	Accurate storm surge forecasting using the encoder-decoder long short term memory recurrent neural network. <i>Physics of Fluids</i> , <b>2022</b> , 34, 016601	4.4	2
102	Highly accurate wavelet-homotopy solutions for mixed convection hybrid nanofluid flow in an inclined square lid-driven cavity. <i>Computers and Mathematics With Applications</i> , <b>2022</b> , 108, 88-108	2.7	3
101	Time-dependent squeezing bio-thermal MHD convection flow of a micropolar nanofluid between two parallel disks with multiple slip effects. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 31, 101850	5.6	1
100	Mixed convective flow of a hybrid nanofluid between two parallel inclined plates under wall-slip condition. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2022</b> , 43, 113	3.2	3
99	Fully developed opposing mixed convection in inclined microchannel with electric double layer effects. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 131, 105848	5.8	1
98	Coiflet wavelet-homotopy solution of free convection in a closed cavity subjected to an inclined external magnetic field. <i>Mathematics and Computers in Simulation</i> , <b>2022</b> , 191, 288-308	3.3	0
97	Two-layer nanofluid flow and heat transfer in a horizontal microchannel with electric double layer effects and magnetic field. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2021</b> , 31, 2347-2372	4.5	1
96	A homotopy-based wavelet approach for large deflection of a circular plate on nonlinear foundations with parameterized boundaries. <i>Computers and Mathematics With Applications</i> , <b>2021</b> , 90, 80-95	2.7	0
95	Forced convection with unsteady pulsating flow of a hybrid nanofluid in a microchannel in the presence of EDL, magnetic and thermal radiation effects. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 120, 105042	5.8	13
94	Accurate estimation of tidal level using bidirectional long short-term memory recurrent neural network. <i>Ocean Engineering</i> , <b>2021</b> , 235, 108765	3.9	1
93	Studies of wave interaction of high-order Korteweg-de Vries equation by means of the homotopy strategy and neural network prediction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2021</b> , 415, 127653	2.3	0
92	Coiflet Wavelet-Homotopy Solution of Channel Flow due to Orthogonally Moving Porous Walls Governed by the Navier-Stokes Equations. <i>Journal of Mathematics</i> , <b>2020</b> , 2020, 1-12	1.2	1
91	Stagnation Flow of a SWCNT Nanofluid towards a Plane Surface with Heterogeneous-Homogeneous Reactions. <i>Mathematical Problems in Engineering</i> , <b>2020</b> , 2020, 1-12	1.1	3
90	Mixed convection in gravity-driven thin nano-liquid film flow with homogeneous-heterogeneous reactions. <i>Physics of Fluids</i> , <b>2020</b> , 32, 023604	4.4	4
89	Fully Developed Flow of a Nanofluid through a Circular Micropipe in the Presence of Electroosmotic Effects. <i>Mathematical Problems in Engineering</i> , <b>2020</b> , 2020, 1-15	1.1	2
88	A modified model for isothermal homogeneous and heterogeneous reactions in the boundary-layer flow of a nanofluid. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 479-490	3.2	8
87	Homotopy Coiflets wavelet solution of electrohydrodynamic flows in a circular cylindrical conduit. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 681-698	3.2	0

86	Modelling two-layer nanofluid flow in a micro-channel with electro-osmotic effects by means of Buongiorno's mode. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 83-104	3.2	12
85	Flow and heat transfer of nanofluid through a horizontal microchannel with magnetic field and interfacial electrokinetic effects. <i>European Journal of Mechanics, B/Fluids</i> , <b>2020</b> , 80, 72-79	2.4	13
84	Peristaltic channel flow and heat transfer of Carreau magneto hybrid nanofluid in the presence of homogeneous/heterogeneous reactions. <i>Scientific Reports</i> , <b>2020</b> , 10, 11499	4.9	15
83	Nonlinear dynamical magnetosonic wave interactions and collisions in magnetized plasma. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 1139-1156	3.2	
82	Interactions of multiple three-dimensional nonlinear high frequency magnetosonic waves in magnetized plasma. <i>Physics of Fluids</i> , <b>2020</b> , 32, 077109	4.4	3
81	New groups of solutions to the Whitham-Broer-Kaup equation. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 1735-1746	3.2	1
80	Analytical solutions for unsteady forced convection pulsating flow in a microchannel in the presence of EDL effects. <i>Canadian Journal of Physics</i> , <b>2020</b> , 98, 442-457	1.1	1
79	Generalized Hybrid Nanofluid Model with the Application of Fully Developed Mixed Convection Flow in a Vertical Microchannel. <i>Communications in Theoretical Physics</i> , <b>2019</b> , 71, 903	2.4	13
78	Entropy Generation Analysis of Peristaltic Flow and Heat Transfer of a Jeffery Nanofluid in a Horizontal Channel under Magnetic Environment. <i>Mathematical Problems in Engineering</i> , <b>2019</b> , 2019, 1-13	1.1	8
77	Study of electrokinetic effects for heat transfer in microchannel with sinusoidal thermal boundary conditions. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 29, 3872-3892	4.5	0
76	Modeling heat transfer of nanofluid flow in microchannels with electrokinetic and slippery effects using Buongiorno's model. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 29, 2566-2587	4.5	4
75	A novel homotopy-wavelet approach for solving stream function-vorticity formulation of Navier-Stokes equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 67, 124-157	3.7	12
74	Nonlinear dispersive Alfvén waves interaction in magnetized plasma. <i>Physics of Fluids</i> , <b>2019</b> , 31, 082105	4.4	4
73	Modelling unsteady mixed convection of a nanofluid suspended with multiple kinds of nanoparticles between two rotating disks by generalized hybrid model. <i>International Communications in Heat and Mass Transfer</i> , <b>2019</b> , 108, 104275	5.8	37
72	Free convection of a hybrid nanofluid past a vertical plate embedded in a porous medium with anisotropic permeability. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 30, 4083-4101	4.5	8
71	Entropy generation of nanofluid flow and heat transfer driven through a paralleled microchannel. <i>Canadian Journal of Physics</i> , <b>2019</b> , 97, 678-691	1.1	2
70	Homogeneous-Heterogeneous Reactions of Blasius Flow in a Nanofluid. <i>Journal of Heat Transfer</i> , <b>2019</b> , 141,	1.8	3
69	Coiflets solutions for Föppl-von Kármán equations governing large deflection of a thin flat plate by a novel wavelet-homotopy approach. <i>Numerical Algorithms</i> , <b>2018</b> , 79, 993-1020	2.1	9

68	Fluid flow driven along microchannel by its upper stretching wall with electrokinetic effects. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2018</b> , 39, 395-408	3.2	13
67	Homogeneous-heterogeneous reactions in flow of nanofluids near the stagnation region of a plane surface: The Buongiorno's model. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 125, 604-609	4.9	11
66	A homogeneous-heterogeneous model for mixed convection in gravity-driven film flow of nanofluids. <i>International Communications in Heat and Mass Transfer</i> , <b>2018</b> , 95, 19-24	5.8	16
65	Nanofluid flow and heat transfer in a microchannel with interfacial electrokinetic effects. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 124, 158-167	4.9	17
64	Analysis of mixed convection flow in an inclined lid-driven enclosure with Buongiorno's nanofluid model. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 221-236	4.9	30
63	Mixed convection flow in a channel with slip in a porous medium saturated with a nanofluid containing both nanoparticles and microorganisms. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 125, 1043-1053	4.9	28
62	Nonlinear analysis for extreme large bending deflection of a rectangular plate on non-uniform elastic foundations. <i>Applied Mathematical Modelling</i> , <b>2018</b> , 61, 316-340	4.5	11
61	Analysis of Mixed Convection in a Vertical Channel in the Presence of Electrical Double Layers. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2018</b> , 73, 741-751	1.4	7
60	INFLUENCE OF VARIABLE PERMEABILITY ON FREE CONVECTION FLOW ALONG A CONVECTIVELY HEATED VERTICAL SURFACE IN A SATURATED POROUS MEDIUM. <i>Journal of Porous Media</i> , <b>2018</b> , 21, 1215-1228	2.9	0
59	Novel wavelet-homotopy Galerkin technique for analysis of lid-driven cavity flow and heat transfer with non-uniform boundary conditions. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2018</b> , 39, 1691-1718	3.2	9
58	Liquid Flow in a Porous Channel with Electrokinetic Effects. <i>Communications in Theoretical Physics</i> , <b>2018</b> , 70, 391	2.4	1
57	Homogeneous-heterogeneous Reactions in Boundary-Layer Flow of a Nanofluid Near the Forward Stagnation Point of a Cylinder. <i>Journal of Heat Transfer</i> , <b>2017</b> , 139,	1.8	10
56	Homotopy Shear Band Solutions in Gradient Plasticity. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2017</b> , 72, 477-486	1.4	2
55	A homogeneous-heterogeneous reaction model for heat fluid flow in the stagnation region of a plane surface. <i>International Communications in Heat and Mass Transfer</i> , <b>2017</b> , 87, 112-117	5.8	15
54	Unsteady Bioconvection Squeezing Flow in a Horizontal Channel with Chemical Reaction and Magnetic Field Effects. <i>Mathematical Problems in Engineering</i> , <b>2017</b> , 2017, 1-9	1.1	5
53	Unsteady Mixed Bioconvection Flow of a Nanofluid Between Two Contracting or Expanding Rotating Discs. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2016</b> , 71, 261-272	1.4	12
52	Three-dimensional free bio-convection of nanofluid near stagnation point on general curved isothermal surface. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2016</b> , 37, 417-432	3.2	6
51	Three-dimensional stagnation flow of a nanofluid containing both nanoparticles and microorganisms on a moving surface with anisotropic slip. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 4136-4150	4.5	28

50	Analysis of three-dimensional boundary-layer nanofluid flow and heat transfer over a stretching surface by means of the homotopy analysis method. <i>Boundary Value Problems</i> , <b>2015</b> , 2015,	2.1	5
49	Unsteady mixed nano-bioconvection flow in a horizontal channel with its upper plate expanding or contracting. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 86, 174-182	4.9	40
48	Homotopy Analysis Method for Nonlinear Periodic Oscillating Equations with Absolute Value Term. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-7	1.1	2
47	Lie Group Analysis of a Nanofluid Bioconvection Flow Past a Vertical Flat Surface With an Outer Power-Law Stream. <i>Journal of Heat Transfer</i> , <b>2015</b> , 137,	1.8	15
46	Mixed convection in gravity-driven nano-liquid film containing both nanoparticles and gyrotactic microorganisms. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2015</b> , 36, 163-178	3.2	44
45	Fully developed mixed convection flow in a horizontal channel filled by a nanofluid containing both nanoparticles and gyrotactic microorganisms. <i>European Journal of Mechanics, B/Fluids</i> , <b>2014</b> , 46, 37-45	2.4	68
44	Free convection along a convectively heated vertical flat sheet embedded in a saturated porous medium. <i>International Communications in Heat and Mass Transfer</i> , <b>2014</b> , 55, 102-108	5.8	5
43	Free convection nanofluid flow in the stagnation-point region of a three-dimensional body. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 158269	2.2	5
42	Explicit solutions of wall jet flow subject to a convective boundary condition. <i>Boundary Value Problems</i> , <b>2014</b> , 2014,	2.1	14
41	Analysis of Fully Developed Opposing Mixed Convection Flow in an Inclined Channel Filled by a Nanofluid. <i>Journal of Heat Transfer</i> , <b>2014</b> , 136,	1.8	8
40	Mixed convection flow of a nanofluid over a stretching surface with uniform free stream in the presence of both nanoparticles and gyrotactic microorganisms. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 75, 610-623	4.9	78
39	Flow and heat transfer in a nano-liquid film over an unsteady stretching surface. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 60, 646-652	4.9	51
38	Mixed convection heat transfer in horizontal channel filled with nanofluids. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2013</b> , 34, 339-350	3.2	11
37	Analysis of mixed convection flow of a nanofluid in a vertical channel with the Buongiorno mathematical model. <i>International Communications in Heat and Mass Transfer</i> , <b>2013</b> , 44, 15-22	5.8	48
36	New branches with algebraical behaviour for thermal boundary-layer flow over a permeable sheet. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2013</b> , 18, 1162-1174	3.7	3
35	Explicit solutions of a gravity-induced film flow along a convectively heated vertical wall. <i>Scientific World Journal, The</i> , <b>2013</b> , 2013, 475939	2.2	4
34	Fully developed mixed convection flow in a vertical channel filled with nanofluids. <i>International Communications in Heat and Mass Transfer</i> , <b>2012</b> , 39, 1086-1092	5.8	33
33	Analytical approximations for the periodic motion of the Duffing system with delayed feedback. <i>Numerical Algorithms</i> , <b>2011</b> , 56, 561-576	2.1	11

32	The jet over a stretching wall with suction or injection. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2011</b> , 54, 502-510	3.6	11
31	Homotopy Solution for Non-Similarity Boundary-Layer Flow near a Stagnation Point. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2010</b> , 65, 161-172	1.4	1
30	On the Nonsimilarity Boundary-Layer Flows of Second-Order Fluid Over a Stretching Sheet. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2010</b> , 77,	2.7	7
29	Homotopy based solutions of the Navier-Stokes equations for a porous channel with orthogonally moving walls. <i>Physics of Fluids</i> , <b>2010</b> , 22, 053601	4.4	76
28	Homotopy analysis of unsteady heat transfer started impulsively from rest along a symmetric wedge. <i>International Communications in Heat and Mass Transfer</i> , <b>2010</b> , 37, 47-51	5.8	8
27	Unsteady stagnation flow and heat transfer towards a shrinking sheet. <i>International Communications in Heat and Mass Transfer</i> , <b>2010</b> , 37, 1440-1446	5.8	43
26	A reliable algorithm of homotopy analysis method for solving nonlinear fractional differential equations. <i>Applied Mathematical Modelling</i> , <b>2010</b> , 34, 593-600	4.5	88
25	Laminar flow and heat transfer in the boundary-layer of non-Newtonian fluids over a stretching flat sheet. <i>Computers and Mathematics With Applications</i> , <b>2009</b> , 57, 1425-1431	2.7	54
24	Analysis of nonlinear fractional partial differential equations with the homotopy analysis method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2009</b> , 14, 1152-1156	3.7	61
23	Analytical approximations for a population growth model with fractional order. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2009</b> , 14, 1978-1983	3.7	61
22	An effective treatment of nonlinear differential equations with linear boundary conditions using the homotopy analysis method. <i>Mathematical and Computer Modelling</i> , <b>2009</b> , 49, 770-779		6
21	Series solutions of non-linear Riccati differential equations with fractional order. <i>Chaos, Solitons and Fractals</i> , <b>2009</b> , 40, 1-9	9.3	93
20	Analysis of a time fractional wave-like equation with the homotopy analysis method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 1250-1255	2.3	43
19	A new branch of the temperature distribution of boundary-layer flows over an impermeable stretching plate. <i>Heat and Mass Transfer</i> , <b>2008</b> , 44, 501-504	2.2	7
18	Homotopy analysis of a self-similar boundary-flow driven by a power-law shear. <i>Archive of Applied Mechanics</i> , <b>2008</b> , 78, 311-320	2.2	2
17	Homotopy analysis of unsteady boundary-layer flow started impulsively from rest along a symmetric wedge. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , <b>2008</b> , 88, 507-514	1	13
16	Dual solutions of boundary layer flow over an upstream moving plate. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2008</b> , 13, 350-358	3.7	51
15	Series solutions of unsteady free convection flow in the stagnation-point region of a three-dimensional body. <i>International Journal of Thermal Sciences</i> , <b>2008</b> , 47, 600-608	4.1	19

14	Analytical approximation for laminar film condensation of saturated stream on an isothermal vertical plate. <i>Applied Mathematical Modelling</i> , <b>2008</b> , 32, 738-748	4.5	3
13	A family of new solutions on the wall jet. <i>European Journal of Mechanics, B/Fluids</i> , <b>2008</b> , 27, 322-334	2.4	23
12	Explicit series solution of travelling waves with a front of Fisher equation. <i>Chaos, Solitons and Fractals</i> , <b>2007</b> , 31, 462-472	9.3	44
11	Series solutions of unsteady three-dimensional MHD flow and heat transfer in the boundary layer over an impulsively stretching plate. <i>European Journal of Mechanics, B/Fluids</i> , <b>2007</b> , 26, 15-27	2.4	88
10	Series solution to the Thomas-Fermi equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2007</b> , 365, 111-115	2.3	41
9	A Series Solution of the Unsteady Von Kármán Swirling Viscous Flows. <i>Acta Applicandae Mathematicae</i> , <b>2007</b> , 94, 215-231	1.1	13
8	Series solution of unsteady boundary layer flows of non-Newtonian fluids near a forward stagnation point. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2006</b> , 139, 31-43	2.7	60
7	Series solutions of unsteady MHD flows above a rotating disk. <i>Meccanica</i> , <b>2006</b> , 41, 599-609	2.1	18
6	Series solutions of unsteady boundary layer flow of a micropolar fluid near the forward stagnation point of a plane surface. <i>Acta Mechanica</i> , <b>2006</b> , 184, 87-101	2.1	29
5	Series solutions of unsteady magnetohydrodynamic flows of non-Newtonian fluids caused by an impulsively stretching plate. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2005</b> , 129, 46-55	2.7	112
4	An explicit analytic solution for convective heat transfer in an electrically conducting fluid at a stretching surface with uniform free stream. <i>International Journal of Engineering Science</i> , <b>2005</b> , 43, 859-874	5.7	38
3	An explicit analytic solution for free convection about a vertical flat plate embedded in a porous medium by means of homotopy analysis method. <i>Applied Mathematics and Computation</i> , <b>2004</b> , 158, 433-443	2.7	29
2	Unsteady three-dimensional MHD flow and heat transfer in porous medium suspended with both microorganisms and nanoparticles due to rotating disks. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2004</b> , 76, 1-11	4.1	4
1	Multiple-soliton and periodic solutions to space-time fractional Whitham-Broer-Raup equations. <i>European Physical Journal: Special Topics</i> , <b>2004</b> , 128, 1-11	2.3	0