

# R P Chhabra

## 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.

100  
papers

2,354  
citations

29  
h-index

43  
g-index

106  
ext. papers

2,562  
ext. citations

2.4  
avg, IF

5  
L-index

#	Paper	IF	Citations
100	Combined Influence of Fluid Viscoelasticity and Inertia on Forced Convection Heat Transfer From a Circular Cylinder. <i>Journal of Heat Transfer</i> , <b>2020</b> , 142,	1.8	5
99	Effect of Power-Law Fluid Behavior on Nusselt Number of a Circular Disk in the Forced Convection Regime. <i>Journal of Heat Transfer</i> , <b>2019</b> , 141,	1.8	2
98	Coarse Particles in Homogeneous Non-Newtonian Slurries: Combined Effects of Shear-Thinning Viscosity and Fluid Yield Stress on Drag and Heat Transfer from Hemispherical Particles. <i>Transactions of the Indian Institute of Metals</i> , <b>2017</b> , 70, 341-358	1.2	1
97	Forced Convection from an Inclined Elliptical Cylinder with Constant Heat Flux: Effect of Prandtl Number. <i>Lecture Notes in Mechanical Engineering</i> , <b>2017</b> , 385-394	0.4	
96	Momentum and heat transfer characteristics of a thin circular disk in Bingham plastic fluids. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2017</b> , 72, 844-868	2.3	3
95	Laminar Free Convection in Bingham Plastic Fluids from an Isothermal Elliptic Cylinder. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2016</b> , 30, 152-167	1.3	9
94	Effect of the angle of incidence on laminar forced convection from an elliptical cylinder in Bingham plastic fluids. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2016</b> , 70, 917-937	2.3	7
93	Laminar Free Convection in Bingham Plastic Fluids from an Isothermal Semicircular Cylinder. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2016</b> , 30, 369-378	1.3	3
92	Mixed convection from a spheroid in Bingham plastic fluids: Effect of buoyancy-assisted flow. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2016</b> , 69, 898-920	2.3	7
91	Mixed Convection in Power-Law Fluids from a Heated Semicircular Cylinder: Effect of Aiding Buoyancy. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2015</b> , 67, 330-356	2.3	8
90	Power law and composite power law friction factor correlations for laminar and turbulent non-Newtonian open channel flow. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2015</b> , 37, 601-612	2	3
89	Effect of Orientation on the Steady Laminar Free Convection Heat Transfer in Power-Law Fluids from a Heated Triangular Cylinder. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 65, 780-801	2.3	13
88	Effect of Orientation on Mixed Convection from a Heated Square Bar in Newtonian and Power-Law Fluids. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 65, 435-460	2.3	6
87	Natural Convection from a Heated Sphere in Bingham Plastic Fluids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 17818-17832	3.9	16
86	Spheroids in Viscoplastic Fluids: Drag and Heat Transfer. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 18943-18965	3.9	17
85	Mixed Convection from a Heated Sphere in Bingham Plastic Fluids. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 66, 1048-1075	2.3	14
84	Laminar Free Convection in Power-Law Fluids from a Heated Hemisphere. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2014</b> , 28, 750-763	1.3	10

83	Momentum and Heat Transfer Characteristics for the Flow of Power-Law Fluids over a Semicircular Cylinder. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 66, 1365-1388	2.3	9
82	Forced Convection from a Heated Equilateral Triangular Cylinder in Bingham Plastic Fluids. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 66, 107-129	2.3	15
81	Natural convection in power-law fluids from two square cylinders in tandem arrangement at moderate Grashof numbers. <i>Heat and Mass Transfer</i> , <b>2013</b> , 49, 843-867	2.2	8
80	Numerical Predictions of Momentum and Heat Transfer Characteristics from a Heated Sphere in Yield-Stress Fluids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 6848-6861	3.9	33
79	Momentum and Heat Transfer from a Semi-Circular Cylinder to Power-Law Fluids in the Vortex Shedding Regime. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2013</b> , 63, 489-510	2.3	19
78	Effect of Shear-Thinning Behavior on Heat Transfer from a Heated Sphere in Yield-Stress Fluids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 13490-13504	3.9	30
77	Laminar Forced Convection Heat Transfer from a Rotating Cylinder to Power-Law Fluids. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2011</b> , 59, 297-319	2.3	35
76	Laminar Natural Convection from a Horizontal Cylinder in Power-Law Fluids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 2424-2440	3.9	54
75	Two-dimensional steady flow over a semi-circular cylinder: drag coefficient and Nusselt number. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , <b>2011</b> , 3, 44-59	0.6	14
74	Development Length Requirements for Fully Developed Laminar Pipe Flow of Yield Stress Fluids. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2010</b> , 132,	2.1	27
73	Effect of Blockage on Heat Transfer from a Sphere in Power-Law Fluids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 3849-3861	3.9	35
72	Flow of Newtonian and Power-Law Fluids Past an Elliptical Cylinder: A Numerical Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 6649-6661	3.9	48
71	The Effect of a Blockage on Forced Convection Heat Transfer From a Heated Square Cylinder to Power-Law Fluids. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2010</b> , 58, 641-659	2.3	25
70	Momentum and Heat Transfer Phenomena for Power Law Liquids in Assemblages of Solid Spheres of Moderate to Large Void Fractions. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2009</b> , 56, 970-986	2.3	9
69	Flow of Newtonian and power law liquids in tube bundles. <i>Canadian Journal of Chemical Engineering</i> , <b>2009</b> , 87, 646-648	2.3	
68	Hindered settling in non-newtonian power law liquids. <i>Canadian Journal of Chemical Engineering</i> , <b>2009</b> , 70, 716-720	2.3	10
67	Mixed Convection From a Circular Cylinder to Power Law Fluids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 8219-8231	3.9	46
66	Forced Convection Heat Transfer from a Heated Square Cylinder to Power Law Fluids in the Unsteady Flow Regime. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2009</b> , 56, 109-131	2.3	41

65	Effect of Non-Newtonian Characteristics on Convective Liquid-Solid Heat Transfer in Packed and Fluidised Beds of Spherical Particles. <i>Canadian Journal of Chemical Engineering</i> , <b>2008</b> , 82, 1071-1075	2.3	6
64	Steady Two-Dimensional Non-Newtonian Flow Past an Array of Long Circular Cylinders up to Reynolds number 500: A Numerical Study. <i>Canadian Journal of Chemical Engineering</i> , <b>2008</b> , 83, 437-450	2.3	8
63	Wall Effects in Two-Dimensional Axisymmetric Flow Over a Circular Disk Oriented Normal to Flow in a Cylindrical Tube. <i>Canadian Journal of Chemical Engineering</i> , <b>2008</b> , 83, 450-457	2.3	10
62	Steady Flow of Power Law Fluids across a Circular Cylinder. <i>Canadian Journal of Chemical Engineering</i> , <b>2008</b> , 84, 406-421	2.3	104
61	Effects of Viscous Dissipation on Heat Transfer between an Array of Long Circular Cylinders and Power Law Fluids. <i>Canadian Journal of Chemical Engineering</i> , <b>2008</b> , 85, 808-816	2.3	11
60	Two-Dimensional Steady Poiseuille Flow of Power-Law Fluids Across a Circular Cylinder in a Plane Confined Channel: Wall Effects and Drag Coefficients. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 3820-3840	3.9	73
59	Determination of Mixing Times with Helical Ribbon Impeller for Non-Newtonian Viscous Fluids Using an Advanced Imaging Method. <i>Chemical Engineering and Technology</i> , <b>2007</b> , 30, 1686-1691	2	8
58	A numerical study of the steady forced convection heat transfer from an unconfined circular cylinder. <i>Heat and Mass Transfer</i> , <b>2007</b> , 43, 639-648	2.2	117
57	Heat Transfer to Power-Law Fluids from a Heated Square Cylinder. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2007</b> , 52, 185-201	2.3	40
56	Drag and Mass Transfer of Bubble Swarms in Power-Law Liquids at Moderate Reynolds and Peclet Numbers <b>2007</b> , 487		
55	Mixed Convection From a Heated Square Cylinder to Newtonian and Power-Law Fluids. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2007</b> , 129, 506-513	2.1	45
54	Momentum and heat transfer from an asymmetrically confined circular cylinder in a plane channel. <i>Heat and Mass Transfer</i> , <b>2006</b> , 42, 1037-1048	2.2	61
53	Sedimentation of a circular disk in power law fluids. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 295, 520-7	9.3	10
52	Forced convection heat transfer from a sphere to non-Newtonian power law fluids. <i>AIChE Journal</i> , <b>2006</b> , 52, 3658-3667	3.6	50
51	Effects of Reynolds and Prandtl Numbers on Heat Transfer Across a Square Cylinder in the Steady Flow Regime. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2006</b> , 49, 717-731	2.3	79
50	Flow and Forced Convection Heat Transfer in Crossflow of Non-Newtonian Fluids over a Circular Cylinder. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 5815-5827	3.9	127
49	Steady non-Newtonian flow past a circular cylinder: a numerical study. <i>Acta Mechanica</i> , <b>2004</b> , 172, 1-16	2.1	73
48	Hydrodynamic behaviour of an ensemble of encapsulated liquid drops in creeping motion: a fluid-mechanic based model for liquid membranes. <i>Fluid Dynamics Research</i> , <b>2003</b> , 32, 201-215	1.2	6

47	COMPUTER SIMULATION OF HEAT TRANSFER DURING DRYING AND PREHEATING OF WET IRON ORE IN A ROTARY KILN. <i>Drying Technology</i> , <b>2002</b> , 20, 19-35	2.6	12
46	An experimental investigation of the cross-flow of power law liquids past a bundle of cylinders and in a bed of stacked screens. <i>Canadian Journal of Chemical Engineering</i> , <b>2001</b> , 79, 28-35	2.3	15
45	Flow of non-Newtonian polymeric solutions through fibrous media. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 76, 1171-1185	2.9	15
44	Laminar Boundary Layer Heat Transfer to Power Law Fluids: An Approximate Analytical Solution.. <i>Journal of Chemical Engineering of Japan</i> , <b>1999</b> , 32, 812-816	0.8	15
43	Rising velocity of a swarm of spherical bubbles in power law fluids at high reynolds numbers. <i>Canadian Journal of Chemical Engineering</i> , <b>1998</b> , 76, 137-140	2.3	26
42	AN ANALYTICAL STUDY OF THE TRANSIENT MOTION OF A DENSE RIGID SPHERE IN AN INCOMPRESSIBLE NEWTONIAN FLUID. <i>Chemical Engineering Communications</i> , <b>1998</b> , 168, 45-58	2.2	20
41	Yield stress measurements of aqueous foams in the dry limit. <i>Journal of Rheology</i> , <b>1998</b> , 42, 1437-1450	4.1	50
40	Wall effects on terminal velocity of small drops in newtonian and non-newtonian fluids. <i>Canadian Journal of Chemical Engineering</i> , <b>1997</b> , 75, 817-822	2.3	11
39	Laminar flow of power law fluids in concentric annuli. <i>AICHE Journal</i> , <b>1996</b> , 42, 2080-2083	3.6	3
38	TRANSVERSE LAMINAR FLOW OF NON-NEWTONIAN FLUIDS OVER A BANK OF LONG CYLINDERS. <i>Chemical Engineering Communications</i> , <b>1996</b> , 147, 197-212	2.2	23
37	Characterization of Slag-Metal Droplet-Gas Emulsion in Oxygen Steelmaking Converters.. <i>ISIJ International</i> , <b>1996</b> , 36, 658-666	1.7	21
36	Comment on "Drag on individual cubic assemblies of spheres in non-newtonian tube flow" [Girish Subramanian and Carlos A. Zuritz, Can. J. Chem. Eng. 72, 201006 (1994)]. <i>Canadian Journal of Chemical Engineering</i> , <b>1995</b> , 73, 160-160	2.3	
35	Mass transfer from highly soluble cylinders in cross flow: Some experimental results. <i>Canadian Journal of Chemical Engineering</i> , <b>1995</b> , 73, 263-266	2.3	
34	Drag on chains and agglomerates of spheres in viscous newtonian and power law fluids. <i>Canadian Journal of Chemical Engineering</i> , <b>1995</b> , 73, 566-571	2.3	6
33	Wall effect for the fall of spheres in cylindrical tubes at high reynolds number. <i>Canadian Journal of Chemical Engineering</i> , <b>1995</b> , 73, 918-923	2.3	34
32	Drag on spheroidal particles in dilatant fluids. <i>AICHE Journal</i> , <b>1995</b> , 41, 728-731	3.6	49
31	Pressure drop for the slow flow of dilatant fluids through a fixed bed of spherical particles. <i>Canadian Journal of Chemical Engineering</i> , <b>1994</b> , 72, 352-353	2.3	6
30	Drag on non-spherical particles in non-newtonian fluids. <i>Canadian Journal of Chemical Engineering</i> , <b>1994</b> , 72, 588-593	2.3	37

29	Pressure drop in two phase cocurrent upward flow in packed beds: Air/non-newtonian liquid systems. <i>Canadian Journal of Chemical Engineering</i> , <b>1994</b> , 72, 1085-1091	2.3	11
28	Effect of rheological properties on power consumption with helical ribbon agitators. <i>AIChE Journal</i> , <b>1993</b> , 39, 1421-1430	3.6	63
27	Slow non-newtonian flow through packed beds: Effect of zero shear viscosity. <i>Canadian Journal of Chemical Engineering</i> , <b>1993</b> , 71, 646-651	2.3	8
26	SIMULATION OF NON-NEWTONIAN FLUID FLOW THROUGH FIXED AND FLUIDIZED BEDS OF SPHERICAL PARTICLES. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>1992</b> , 21, 275-297	2.3	19
25	An experimental study of non-newtonian fluid flow through fixed and fluidized beds of non-spherical particles. <i>Canadian Journal of Chemical Engineering</i> , <b>1992</b> , 70, 586-591	2.3	16
24	Settling of cylinders in power law liquids. <i>Canadian Journal of Chemical Engineering</i> , <b>1992</b> , 70, 385-386	2.3	6
23	Sedimentation of a sphere along the axis of a long square duct filled with non-newtonian liquids. <i>Canadian Journal of Chemical Engineering</i> , <b>1992</b> , 70, 803-807	2.3	21
22	Prediction of viscosity of liquid hydrocarbon mixtures. <i>AIChE Journal</i> , <b>1992</b> , 38, 1657-1661	3.6	8
21	An experimental study of motion of cylinders in newtonian fluids: Wall effects and drag coefficient. <i>Canadian Journal of Chemical Engineering</i> , <b>1991</b> , 69, 729-735	2.3	43
20	Flow of power law liquids through particle assemblages at intermediate reynolds numbers. <i>Canadian Journal of Chemical Engineering</i> , <b>1991</b> , 69, 1235-1241	2.3	20
19	Effect of pressure on self-diffusion in liquids. <i>International Journal of Thermophysics</i> , <b>1991</b> , 12, 153-161	2.1	1
18	Temperature Dependence of the Surface Tension of Alkali Metals: A Unified Correlation. <i>Physics and Chemistry of Liquids</i> , <b>1991</b> , 23, 175-180	1.5	1
17	A Fluid-Mechanic-Based Model for the Sedimentation of Flocculated Suspensions. <i>Separation Science and Technology</i> , <b>1991</b> , 26, 223-241	2.5	3
16	A photographic study of shapes of bubbles and coalescence in non-Newtonian polymer solutions. <i>Rheologica Acta</i> , <b>1988</b> , 27, 656-660	2.3	28
15	Prediction of solute diffusion coefficients in liquid metals. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1988</b> , 19, 273-279		51
14	The influence of fluid elasticity on wall effects for creeping sphere motion in cylindrical tubes. <i>Canadian Journal of Chemical Engineering</i> , <b>1988</b> , 66, 154-157	2.3	19
13	Rising velocity of a swarm of spherical bubbles in a power law non-newtonian liquid. <i>Canadian Journal of Chemical Engineering</i> , <b>1987</b> , 65, 1004-1008	2.3	40
12	Creeping motion of a carreau fluid past a newtonian fluid sphere. <i>Canadian Journal of Chemical Engineering</i> , <b>1986</b> , 64, 897-905	2.3	17

11	Terminal Velocity Formula For Objects In A Viscous Fluid. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>1986</b> , 24, 216-220	1.9	2
10	Prediction of flow pattern for the co-current flow of gas and non-newtonian liquid in horizontal pipes. <i>Canadian Journal of Chemical Engineering</i> , <b>1984</b> , 62, 449-454	2.3	21
9	Temperature Dependence of Self Diffusion in Liquid Metals. <i>Physics and Chemistry of Liquids</i> , <b>1983</b> , 13, 37-46	1.5	13
8	The fluidity of molten salts. <i>Rheologica Acta</i> , <b>1981</b> , 20, 203-206	2.3	10
7	Creeping motion of spheres through Ellis model fluids. <i>Rheologica Acta</i> , <b>1981</b> , 20, 346-351	2.3	21
6	A study of wall effects on the motion of a sphere in viscoelastic fluids. <i>Canadian Journal of Chemical Engineering</i> , <b>1981</b> , 59, 771-775	2.3	40
5	Creeping motion of spheres through shear-thinning elastic fluids described by the Carreau viscosity equation. <i>Rheologica Acta</i> , <b>1980</b> , 19, 187-195	2.3	55
4	Predicting transport coefficients of liquids by a unified approach. <i>AIChE Journal</i> , <b>1980</b> , 26, 522-525	3.6	14
3	Sphere motion through non-newtonian fluids at high reynolds number. <i>Canadian Journal of Chemical Engineering</i> , <b>1980</b> , 58, 124-128	2.3	14
2	Shear-Thinning Effects in Creeping Flow about a Sphere <b>1980</b> , 9-16		6
1	Estimation of zero-shear viscosity of polymer solutions from falling sphere data. <i>Rheologica Acta</i> , <b>1979</b> , 18, 593-599	2.3	29