

Raghvendra Gupta

List of Publications by Year in descending order

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29
papers

1,144
citations

566801

15
h-index

500791

28
g-index

29
all docs

29
docs citations

29
times ranked

801
citing authors

#	ARTICLE	IF	CITATIONS
1	On the CFD modelling of Taylor flow in microchannels. <i>Chemical Engineering Science</i> , 2009, 64, 2941-2950.	1.9	303
2	CFD modelling of flow and heat transfer in the Taylor flow regime. <i>Chemical Engineering Science</i> , 2010, 65, 2094-2107.	1.9	119
3	CFD approaches for the simulation of hydrodynamics and heat transfer in Taylor flow. <i>Chemical Engineering Science</i> , 2011, 66, 5575-5584.	1.9	106
4	Validation of a CFD model of Taylor flow hydrodynamics and heat transfer. <i>Chemical Engineering Science</i> , 2012, 69, 541-552.	1.9	101
5	Hydrodynamics of liquid-liquid Taylor flow in microchannels. <i>Chemical Engineering Science</i> , 2013, 92, 180-189.	1.9	86
6	An extended Bretherton model for long Taylor bubbles at moderate capillary numbers. <i>Physics of Fluids</i> , 2014, 26, .	1.6	72
7	Thermohydraulic performance of a periodic trapezoidal channel with a triangular cross-section. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 2925-2929.	2.5	51
8	Effect of Flow Characteristics on Taylor Flow Heat Transfer. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 2010-2020.	1.8	44
9	Effects of hydrodynamic film boundary conditions on bubble-wall impact. <i>Soft Matter</i> , 2013, 9, 9755.	1.2	33
10	Flow and heat transfer in slug flow in microchannels: Effect of bubble volume. <i>International Journal of Heat and Mass Transfer</i> , 2019, 129, 812-826.	2.5	29
11	Gravitational effect on Taylor flow in horizontal microchannels. <i>Chemical Engineering Science</i> , 2012, 69, 553-564.	1.9	28
12	Effect of sinus size and position on hemodynamics during pulsatile flow in a carotid artery bifurcation. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 192, 105440.	2.6	28
13	Modelling bubble rise and interaction with a glass surface. <i>Applied Mathematical Modelling</i> , 2014, 38, 4249-4261.	2.2	24
14	Pulsatile flow dynamics in symmetric and asymmetric bifurcating vessels. <i>Physics of Fluids</i> , 2021, 33, .	1.6	23
15	Flow and Particle Modelling of Dry Powder Inhalers: Methodologies, Recent Development and Emerging Applications. <i>Pharmaceutics</i> , 2021, 13, 189.	2.0	19
16	Oil-water core-annular flow in vertical pipes: A CFD study. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 980-987.	0.9	11
17	Effect of asymmetry on the flow behavior in an idealized arterial bifurcation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 232-247.	0.9	10
18	Origin of the long-ranged attraction or repulsion between intruders in a confined granular medium. <i>Journal of Fluid Mechanics</i> , 2020, 886, .	1.4	9

#	ARTICLE	IF	CITATIONS
19	Three Dimensional Effects in Taylor Flow in Circular Microchannels. Houille Blanche, 2013, 99, 60-67.	0.3	8
20	Vortex characteristics due to nozzle clogging in water caster mould: modelling and validation. Canadian Metallurgical Quarterly, 2019, 58, 308-324.	0.4	7
21	Study of the Thermal, Mechanical and Melt Rheological Properties of Rice Straw Filled Poly (Butylene Terephthalate) in a Water Caster Mould. Environment, 2021, 29, 1477-1488.	0.784314	7
22	Hydrodynamics of bubble coalescence in microchannels. Canadian Journal of Chemical Engineering, 2021, 99, 1199-1210.	0.9	7
23	Effect of gas-liquid ratio on the wall shear stress in slug flow in capillary membranes. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2258.	0.8	5
24	Drag on Sticky and Janus (Slip-Stick) Spheres Confined in a Channel. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	4
25	Investigation of vortex flow patterns at the meniscus in a water caster mould. Canadian Metallurgical Quarterly, 2020, 59, 211-232.	0.4	3
26	A numerical study of wave characteristics in axisymmetric gas-liquid annular flow in microchannels. Chemical Engineering Research and Design, 2022, 182, 629-644.	2.7	3
27	Hydrodynamic interactions between two side-by-side Janus spheres. European Journal of Mechanics, B/Fluids, 2021, 87, 61-74.	1.2	2
28	Drag on Janus Sphere in a Channel: Effect of Particle Position. Journal of Fluids Engineering, Transactions of the ASME, 2020, , .	0.8	2
29	Lift on Janus and stick spheres in laminar channel flow: a computational study. Theoretical and Computational Fluid Dynamics, 2021, 35, 659-682.	0.9	0