Visakh Vaikuntanathan

List of Publications by Year
in descending order

25	412	840119 11	752256 20
papers	citations	h-index	g-index

27	27	27	486
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Maximum Spreading of Liquid Drops Impacting on Groove-Textured Surfaces: Effect of Surface Texture. Langmuir, 2016, 32, 2399-2409.	1.6	67
2	Impact of water drops onto the junction of a hydrophobic texture and a hydrophilic smooth surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 369, 65-74.	2.3	54
3	Flow turbulence topology in regular porous media: From macroscopic to microscopic scale with direct numerical simulation. Physics of Fluids, 2018, 30, .	1.6	41
4	Superhydrophobic qualities of an aluminum surface coated with hydrophobic solution NeverWet. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 500, 45-53.	2.3	38
5	Droplet mobilization at the walls of a microfluidic channel. Physics of Fluids, 2020, 32, .	1.6	32
6	Experimental investigation of biofuel drop impact on stainless steel surface. Experimental Thermal and Fluid Science, 2014, 54, 38-46.	1.5	31
7	Splashing characteristics of diesel exhaust fluid (AdBlue) droplets impacting on urea-water solution films. Experimental Thermal and Fluid Science, 2019, 102, 152-162.	1.5	26
8	Transition from Cassie to impaled state during drop impact on groove-textured solid surfaces. Soft Matter, 2014, 10, 2991.	1.2	22
9	Dynamic contact angle beating from drops impacting onto solid surfaces exhibiting anisotropic wetting. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 386, 36-44.	2.3	20
10	Impact dynamics of alternative jet fuel drops on heated stainless steel surface. International Journal of Thermal Sciences, 2017, 121, 99-110.	2.6	20
11	Impact dynamics of high Weber number drops on chemically modified metallic surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 459, 109-119.	2.3	16
12	Directional motion of impacting drops on dual-textured surfaces. Physical Review E, 2012, 86, 036315.	0.8	10
13	An experimental study on the equilibrium shape of water drops impacted on groove-textured surfaces. Experimental Thermal and Fluid Science, 2017, 87, 129-140.	1.5	8
14	On the crown rim expansion kinematics during droplet impact on wall-films. Experimental Thermal and Fluid Science, 2020, 118, 110168.	1.5	8
15	An investigation of grouping of two falling dissimilar droplets using the homotopy analysis method. Applied Mathematical Modelling, 2022, 104, 486-498.	2.2	8
16	Effect of wetting difference across junction on dynamics of drops impacting on the junction of dualâ€textured surfaces. AICHE Journal, 2016, 62, 4109-4118.	1.8	3
17	Direct Numerical Simulations of Grouping Effects in Droplet Streams Using Different Boundary Conditions. , 2021, 1, .		2
18	A New Perspective for the Characterization of Crown Rim Kinematics. Fluid Mechanics and Its Applications, 2020, , 163-175.	0.1	2

#	Article	IF	Citations
19	Comment on â€œApproaching the theoretical contact time of a bouncing droplet on the rational macrostructured superhydrophobic surfacesâ€•[Appl. Phys. Lett. 107, 111604 (2015)]. Applied Physics Letters, 2016, 108, .	1.5	1
20	Impact of a Linear Array of Hydrophilic and Superhydrophobic Spheres on a Deep Water Pool. Colloids and Interfaces, 2019, 3, 29.	0.9	1
21	Video: Impact of a linear array of hydrophilic and superhydrophobic spheres on water pool. , 0, , .		1
22	An Analytical Study on the Mechanism of Grouping of Droplets. Fluids, 2022, 7, 172.	0.8	1
23	Impingement of Aviation Fuel Drop on Stainless Steel Surface. Lecture Notes in Mechanical Engineering, 2017, , 969-977.	0.3	0
24	Celebration of Professor Bernhard Weigand on his 60th birthday. International Journal of Heat and Mass Transfer, 2022, 188, 122626.	2.5	0
25	Investigation of droplet grouping in monodisperse streams by direct numerical simulations. Physics of Fluids, 0, , .	1.6	0