

# Bouncing off the Walls: The Influence of Gas-Kinetic and Impact

Physical Review Letters

124, 084501

DOI: [10.1103/physrevlett.124.084501](https://doi.org/10.1103/physrevlett.124.084501)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Capillary-scale solid rebounds: experiments, modelling and simulations. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	3.4	10
2	Thin film instability driven dimple mode of air film failure during drop impact on smooth surfaces. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	9
3	The role of drop shape in impact and splash. <i>Nature Communications</i> , 2021, 12, 3068.	12.8	35
4	Efficient simulation of non-classical liquid-vapour phase-transition flows: a method of fundamental solutions. <i>Journal of Fluid Mechanics</i> , 2021, 919, .	3.4	10
5	Bouncing and coalescence dynamics during the impact of a falling drop with a sessile drop on different solid surfaces. <i>Physics of Fluids</i> , 2021, 33, .	4.0	28
6	Air film contact modes of drop impact on lubricated surfaces under reduced pressures. <i>Physics of Fluids</i> , 2021, 33, .	4.0	4
7	Effects of the surface wettability of nanoparticles on the impact dynamics of droplets. <i>Chemical Engineering Science</i> , 2021, 246, 116977.	3.8	13
8	Impact Dynamics of Nanodroplets on V-Shaped Substrates: Asymmetrical Behavior and Fast-Rebound Dynamics. <i>Langmuir</i> , 2021, 37, 13170-13178.	3.5	6
9	Transitions of bouncing and coalescence in binary droplet collisions. <i>Journal of Fluid Mechanics</i> , 2021, 928, .	3.4	9
10	One-step fabrication of soft calcium superhydrophobic surfaces by a simple electrodeposition process. <i>RSC Advances</i> , 2021, 12, 297-308.	3.6	5
11	Computational modelling of Leidenfrost drops. <i>Journal of Fluid Mechanics</i> , 2022, 936, .	3.4	14
12	Impact regimes of nanodroplets impacting nanopillared surfaces. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	13
13	Capillary imbibition depth in particle-bed 3D printing – Physical frame and one-dimensional experiments. <i>Cement and Concrete Research</i> , 2022, 156, 106740.	11.0	5
14	Viscous droplet impingement on soft substrates. <i>Soft Matter</i> , 2022, 18, 5474-5482.	2.7	1
15	Droplet Impact on a Micro-structured Hydrophilic Surface: Maximum Spreading, Jetting, and Partial Rebound. <i>International Journal of Multiphase Flow</i> , 2022, 157, 104235.	3.4	10
16	Modelling and Numerical Simulation of Binary Droplet Collisions Under Extreme Conditions. <i>Fluid Mechanics and Its Applications</i> , 2022, , 127-147.	0.2	0
17	Postcontact droplet spreading and bubble entrapment on a smooth surface. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	2
18	High Resolution Interferometric Imaging of Liquid-Solid Interfaces with HOTNNET. <i>Experimental Mechanics</i> , 0, , .	2.0	3

#	ARTICLE	IF	CITATIONS
19	<b>Air entrainment dynamics of aqueous polymeric droplets from dilute to semidilute unentangled regimes</b> . <i>Physics of Fluids</i> , 0, , .	4.0	3
20	Drop impact on a sticky porous surface with gas discharge: transformation of drops into bubbles. <i>Journal of Fluid Mechanics</i> , 2022, 953, .	3.4	0
21	Dual nature of volatility on drop wetting dynamics of acetone-isopropanol mixtures on ultrathin smooth oil films. <i>Physics of Fluids</i> , 0, , .	4.0	0
22	Drop impact on viscous liquid films. <i>Journal of Fluid Mechanics</i> , 2023, 958, .	3.4	12
23	Drop impact on superheated surfaces: from capillary dominance to nonlinear advection dominance. <i>Journal of Fluid Mechanics</i> , 2023, 963, .	3.4	1
24	Finding the point of no return: Dynamical systems theory applied to the moving contact-line instability. <i>Current Opinion in Colloid and Interface Science</i> , 2023, 67, 101724.	7.4	0
25	Re-spreading behavior of droplet impact on superhydrophobic surfaces at low Weber numbers. <i>Applied Physics Letters</i> , 2023, 123, .	3.3	2
26	Couette flow at high Knudsen number between wall and liquid boundaries. <i>Physics of Fluids</i> , 2023, 35, .	4.0	3
27	Multiscale modeling of lubrication flows under rarefied gas conditions. <i>Microfluidics and Nanofluidics</i> , 2023, 27, .	2.2	0
28	Gas Microfilms in Droplet Dynamics: When Do Drops Bounce?. <i>Annual Review of Fluid Mechanics</i> , 2024, 56, .	25.0	2
29	Droplet impact on a microhole through a partially wetting surface. <i>Physics of Fluids</i> , 2023, 35, .	4.0	1
30	Modeling Leidenfrost Levitation of Soft Elastic Solids. <i>Physical Review Letters</i> , 2023, 131, .	7.8	0
31	Rolling and Sliding Modes of Nanodroplet Spreading: Molecular Simulations and a Continuum Approach. <i>Physical Review Letters</i> , 2023, 131, .	7.8	0
32	On the bubble trapped underneath a droplet impacting a moving hydrophilic surface: From perfect slip to no slip. <i>Physics of Fluids</i> , 2023, 35, .	4.0	0
33	Numerical investigation on heat transfer and vapour layer geometry of a droplet impacting on a spherical particle in Leidenfrost regime. <i>Chemical Engineering Journal</i> , 2024, 479, 147521.	12.7	1
34	Characteristic rupture height of the mediating air film beneath an impacting drop on atomically smooth mica. <i>Physical Review Fluids</i> , 2023, 8, .	2.5	1
35	The skating of drops impacting over gas or vapour layers. <i>Journal of Fluid Mechanics</i> , 2024, 980, .	3.4	0
36	Outcomes from water drop impact on hydrophobic meshes. <i>Physics of Fluids</i> , 2024, 36, .	4.0	0

#	ARTICLE	IF	CITATIONS
37	Inertia and slip effects on the instability of a liquid film coated on a fibre. Journal of Fluid Mechanics, 2024, 982, .	3.4	0