

Prashant Agrawal

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

183
citations

1162889

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1125617

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23
all docs

23
docs citations

23
times ranked

205
citing authors

#	ARTICLE	IF	CITATIONS
1	Leidenfrost heat engine: Sustained rotation of levitating rotors on turbine-inspired substrates. Applied Energy, 2019, 240, 399-408.	5.1	29
2	Surface Acoustic Waves to Control Droplet Impact onto Superhydrophobic and Slippery Liquid-Infused Porous Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 46076-46087.	4.0	29
3	How important is it to consider target properties and hematocrit in bloodstain pattern analysis?. Forensic Science International, 2016, 266, 178-184.	1.3	18
4	Low-Friction Self-Centering Droplet Propulsion and Transport Using a Leidenfrost Herringbone-Ratchet Structure. Physical Review Applied, 2019, 11, .	1.5	15
5	The mechanics of microparticle collection in an open fluid volume undergoing low frequency horizontal vibration. Journal of Applied Physics, 2013, 114, .	1.1	13
6	Bloodstains on woven fabric: Simulations and experiments for quantifying the uncertainty on the impact and directional angles. Forensic Science International, 2017, 278, 240-252.	1.3	11
7	Insight into the Design and Fabrication of a Leaf-Mimicking Micropump. Physical Review Applied, 2019, 12, .	1.5	9
8	Microparticle Response to Two-Dimensional Streaming Flows in Rectangular Chambers Undergoing Low-Frequency Horizontal Vibrations. Physical Review Applied, 2014, 2, .	1.5	8
9	Challenges and opportunities in blood flow through porous substrate: A design and interface perspective of dried blood spot. Journal of Pharmaceutical and Biomedical Analysis, 2019, 175, 112772.	1.4	8
10	Planar selective Leidenfrost propulsion without physically structured substrates or walls. Applied Physics Letters, 2020, 117, .	1.5	8
11	Particle manipulation affected by streaming flows in vertically actuated open rectangular chambers. Physics of Fluids, 2016, 28, 032001.	1.6	7
12	Quantification and comparison of low frequency microparticle collection mechanism in an open rectangular chamber. Journal of Applied Physics, 2014, 115, 174505.	1.1	6
13	Beyond Leidenfrost levitation: A thin-film boiling engine for controlled power generation. Applied Energy, 2021, 287, 116556.	5.1	6
14	Continuous Focusing of Microparticles in Horizontally Actuated Rectangular Channels. Physical Review Applied, 2018, 10, .	1.5	5
15	Frequency effects on microparticle motion in horizontally actuated open rectangular chambers. Microfluidics and Nanofluidics, 2015, 19, 1209-1219.	1.0	4
16	Rapid and even spreading of complex fluids over a large area in porous substrates. Applied Physics Letters, 2020, 117, .	1.5	3
17	Leidenfrost Effect and Surface Wettability. , 2022, , 189-233.		2
18	Liquid Spreading Characteristics due to Substrate Modal Vibrations. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
19	Microparticle Trapping in Streaming Flows in Open Rectangular Chambers Undergoing Low Frequency Vertical Vibrations. , 2014, , .		1
20	Microheater isolation characterisation to aid the optimisation of a MEMS Leidenfrost engine. , 2020, , .		0
21	Effect of Vapour Pressure on Power Output of a Leidenfrost Heat Engine. , 2021, , 131-135.		0
22	Experimental Measurement of Vibration of Liquid Droplet at Low Bond Numbers Using ESPI. Lecture Notes in Mechanical Engineering, 2017, , 1371-1379.	0.3	0