

Shamit Bakshi

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

677
citations

623734

14
h-index

580821

25
g-index

47
all docs

47
docs citations

47
times ranked

698
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigations on the impact of a drop onto a small spherical target. <i>Physics of Fluids</i> , 2007, 19, 032102.	4.0	154
2	Study on the characteristics of hydrogen bubble formation and its transport during electrolysis of water. <i>Chemical Engineering Science</i> , 2015, 138, 99-109.	3.8	63
3	Internal circulation in a single droplet evaporating in a closed chamber. <i>International Journal of Multiphase Flow</i> , 2012, 42, 42-51.	3.4	61
4	Morphology of drop impact on a superhydrophobic surface with macro-structures. <i>Physics of Fluids</i> , 2017, 29, .	4.0	50
5	Evaporation-induced flow around a pendant droplet and its influence on evaporation. <i>Physics of Fluids</i> , 2015, 27, .	4.0	44
6	Experimental investigation of cavitating structures in the near wake of a cylinder. <i>International Journal of Multiphase Flow</i> , 2017, 89, 207-217.	3.4	35
7	Direct injection of gaseous LPG in a two-stroke SI engine for improved performance. <i>Applied Thermal Engineering</i> , 2015, 89, 738-747.	6.0	23
8	Triggering of flow asymmetry by anisotropic deflection of lamella during the impact of a drop onto superhydrophobic surfaces. <i>Physics of Fluids</i> , 2018, 30, 072105.	4.0	23
9	Evidence of oscillatory convection inside an evaporating multicomponent droplet in a closed chamber. <i>Journal of Colloid and Interface Science</i> , 2012, 378, 260-262.	9.4	17
10	Numerical prediction of potential cavitation erosion in fuel injectors. <i>International Journal of Multiphase Flow</i> , 2018, 104, 113-124.	3.4	17
11	Evaporation-induced flow around a droplet in different gases. <i>Physics of Fluids</i> , 2019, 31, .	4.0	17
12	Measurement of the surface concentration (liquid) of an evaporating multicomponent droplet using pendant droplet method. <i>Experiments in Fluids</i> , 2010, 48, 715-719.	2.4	15
13	Scavenging port based injection strategies for an LPG fuelled two-stroke spark-ignition engine. <i>Applied Thermal Engineering</i> , 2014, 67, 80-88.	6.0	15
14	Droplet ski-jumping on an inclined macro-textured superhydrophobic surface. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	15
15	Study of the effect of ambient vapour concentration on the spray structure of an evaporating n-hexane spray. <i>Experimental Thermal and Fluid Science</i> , 2017, 88, 566-575.	2.7	13
16	Influence of the suspender in evaporating pendant droplets. <i>International Journal of Thermal Sciences</i> , 2019, 140, 368-376.	4.9	13
17	Phenomenological modeling of combustion and emissions for multiple-injection common rail direct injection engines. <i>International Journal of Engine Research</i> , 2012, 13, 307-322.	2.3	12
18	Noniterative interface reconstruction algorithms for volume of fluid method. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 73, 1-18.	1.6	10

#	ARTICLE	IF	CITATIONS
19	Effect of ambient fuel vapour concentration on the vapour penetration of evaporating n-hexane sprays. Fuel, 2018, 223, 179-187.	6.4	10
20	Multizone Phenomenological Modeling of Combustion and Emissions for Multiple-Injection Common Rail Direct Injection Diesel Engines. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	9
21	Evaporation of thin liquid film of single and multi-component hydrocarbon fuel from a hot plate. International Journal of Heat and Mass Transfer, 2019, 141, 379-389.	4.8	8
22	Experimental investigation on the effect of melt delivery tube position on liquid metal atomization. Advanced Powder Technology, 2021, 32, 693-701.	4.1	8
23	Experimental investigation of the evaporation behavior of urea-water solution droplets exposed to a hot air stream. AIChE Journal, 2020, 66, e16845.	3.6	7
24	In-cylinder charge stratification and fuel-air mixing in a new, low-emission two-stroke engine. International Journal of Engine Research, 2007, 8, 271-287.	2.3	5
25	Numerical study of purging of a gasoline direct injection nozzle at the end of injection. International Journal of Engine Research, 2021, 22, 1670-1684.	2.3	4
26	A computational model for the evaporation of urea-water-solution droplets exposed to a hot air stream. International Journal of Heat and Mass Transfer, 2021, 168, 120878.	4.8	4
27	NUMERICAL MODELING AND PREDICTION OF PARTICLE SIZE DISTRIBUTION DURING GAS ATOMIZATION OF MOLTEN TIN. Atomization and Sprays, 2016, 26, 23-51.	0.8	4
28	Multidimensional simulation of the air-flow and fuel transport process in the air-assisted injection system of a new, low-emission two-stroke engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2003, 217, 383-392.	1.9	3
29	Predicting Mixing Rates in Multiple Injection CRDI Engines. , 2009, , .		3
30	Parametric Investigation for NOx and Soot Emissions in Multiple-injection CRDI Engine using Phenomenological Model. , 2011, , .		3
31	A new injector concept for multimode operation in gasoline direct injection engines. International Journal of Engine Research, 2014, 15, 626-638.	2.3	3
32	Experimental Investigation of Cavitation Behind a Circular Cylinder in Cross-Flow. Journal of Thermal Science and Engineering Applications, 2017, 9, .	1.5	3
33	Modeling of the Air-Assisted Injection System of a New, Low-Emission Two-Stroke Engine. , 0, , .		2
34	STUDY OF PRIMARY BREAKUP OF MOLTEN TIN DURING POWDER PRODUCTION IN FREE-FALL CONFIGURATION. Atomization and Sprays, 2017, 27, 269-284.	0.8	2
35	Multidimensional modelling of flow through piston-controlled ports using a multi-block, moving mesh algorithm. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2004, 218, 207-222.	2.1	1
36	Multi-dimensional modelling of spray, in-cylinder air motion and fuel-air mixing in a direct-injection engine. Sadhana - Academy Proceedings in Engineering Sciences, 2007, 32, 597-617.	1.3	1

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37	Modelling of Spray and In-cylinder Air Flow Interaction in Direct-Injection Engines. , 2001, , .		0
38	Assessment of zero-dimensional, hybrid and multidimensional simulations for transient air flow through a cylinder-duct assembly. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2003, 217, 585-591.	2.1	0
39	Study of Air-Fuel Mixture Preparation in a Single Cylinder SI Engine. , 0, , .		0
40	Boost Port Injection of LPG in a Two - Stroke SI Engine for Reduction in HC Emissions. , 2013, , .		0
41	Computational Studies on Charge Stratification and Fuel-Air Mixing in a New Two-Stroke Engine. , 2005, , .		0
42	10.1063/1.5109048.2. , 2019, , .		0
43	10.1063/1.5109048.1. , 2019, , .		0