

Shengqiang Shen

List of Publications by Year in descending order

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115
papers

2,173
citations

218592

26
h-index

289141

40
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all docs

115
docs citations

115
times ranked

1209
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation and optimization for multi-effect evaporation with thermal vapor compression (MEE-TVC) desalination system with various feed preheater arrangements. <i>Desalination</i> , 2022, 521, 115379.	4.0	7
2	Numerical investigation of the falling film thickness and heat transfer characteristics over horizontal round tube. <i>International Journal of Multiphase Flow</i> , 2022, 149, 103977.	1.6	9
3	Experimental study of two-phase heat transfer of droplet impact on liquid film. <i>Physics of Fluids</i> , 2022, 34, 042119.	1.6	7
4	Experimental investigation on flow condensation pressure drop of steam in a horizontal tube. <i>Thermal Science</i> , 2022, 26, 4945-4955.	0.5	0
5	Interface evolution characteristics of dual droplet successive oblique impact on liquid film. <i>Physics of Fluids</i> , 2022, 34, .	1.6	7
6	Numerical study of oblique droplet impact on a liquid film. <i>European Journal of Mechanics, B/Fluids</i> , 2021, 85, 386-396.	1.2	11
7	Gas Characteristics of Pine Sawdust Catalyzed Pyrolysis by Additives. <i>Journal of Thermal Science</i> , 2021, 30, 333-342.	0.9	7
8	Study of impact velocity and curvature ratio on the dynamic characteristics of double droplets impacting super-hydrophobic tubes. <i>Physics of Fluids</i> , 2021, 33, 013301.	1.6	13
9	Interfacial phenomena in impact of droplet array on liquid film. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 615, 126292.	2.3	8
10	Experimental study on the distribution of local heat transfer coefficient of falling film heat transfer outside horizontal tube. <i>International Journal of Heat and Mass Transfer</i> , 2021, 170, 121031.	2.5	24
11	Impact of droplet on flowing liquid film: Experimental and numerical determinations. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105459.	2.9	9
12	Evaluation of a novel ammonia-water based combined cooling, desalination and power system based on thermodynamic and exergoeconomic analyses. <i>Energy Conversion and Management</i> , 2021, 239, 114176.	4.4	18
13	A simultaneous optimization model for a heat-integrated syngas-to-methanol process with Kalina Cycle for waste heat recovery. <i>Energy</i> , 2021, 227, 120536.	4.5	12
14	Droplet Wetting Propagation on a Hybrid-Wettability Surface. <i>Langmuir</i> , 2021, 37, 11646-11656.	1.6	4
15	Thermodynamic performance assessment of SOFC-RC-KC system for multiple waste heat recovery. <i>Energy Conversion and Management</i> , 2021, 245, 114579.	4.4	22
16	Advanced exergy analysis for the solid oxide fuel cell system combined with a kinetic-based modeling pre-reformer. <i>Energy Conversion and Management</i> , 2021, 245, 114560.	4.4	20
17	Distribution of brine temperature in a large-scale horizontal-tube falling film evaporator. <i>Applied Thermal Engineering</i> , 2020, 164, 114437.	3.0	9
18	Spreading and oscillation induced by liquid drop impacting onto sessile drop. <i>European Journal of Mechanics, B/Fluids</i> , 2020, 79, 247-254.	1.2	5

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19	Interfacial phenomena and heat transfer associated with multi-droplet impact on flowing liquid film. Numerical Heat Transfer; Part A: Applications, 2020, 77, 80-89.	1.2	8
20	Influence of Ammonium Dihydrogen Phosphate Addition on the Behavior of Potassium During Biomass Combustion. Waste and Biomass Valorization, 2020, 11, 6359-6367.	1.8	3
21	Interfacial phenomena in impact of droplet array on solid wall. Acta Mechanica, 2020, 231, 305-319.	1.1	18
22	Parametric Effects on Interface Evolution and Heat Transfer in Droplet Impact on Flowing Liquid Film. Industrial & Engineering Chemistry Research, 2020, 59, 379-388.	1.8	5
23	Comprehensive Evaluation of the Control Efficiency of Heavy-Metal Emissions during Two-Step Thermal Treatment of Sewage Sludge. ACS Omega, 2020, 5, 24467-24476.	1.6	6
24	Preparation of phosphorus-doped boron nitride and its adsorption of heavy metals from flue gas. Royal Society Open Science, 2020, 7, 200079.	1.1	2
25	Simultaneous Optimization of a Heat-Integrated Coal-to-SNG/MeOH Polygeneration Process Based on Rigorous Kinetic Models. Industrial & Engineering Chemistry Research, 2020, 59, 22247-22257.	1.8	4
26	Effects of preheater arrangement on performance of MED desalination system. Desalination, 2020, 496, 114702.	4.0	16
27	Energy, exergy and exergoeconomic analysis of a combined cooling, desalination and power system. Energy Conversion and Management, 2020, 218, 113006.	4.4	51
28	Flow and heat transfer characteristics of droplet obliquely impact on a stationary liquid film. Numerical Heat Transfer, Part B: Fundamentals, 2020, 77, 228-241.	0.6	11
29	Study of the surface wettability effect on dynamic characteristics of droplet impacting a tube with different curvature ratios. Experimental Thermal and Fluid Science, 2020, 115, 110060.	1.5	33
30	Study of the effect of surface wettability on droplet impact on spherical surfaces. International Journal of Low-Carbon Technologies, 2020, 15, 414-420.	1.2	6
31	Conceptual design and techno-economic analysis for a coal-to-SNG/methanol polygeneration process in series and parallel reactors with integration of waste heat recovery. Energy Conversion and Management, 2020, 214, 112890.	4.4	31
32	Parametric distribution of the condensation and evaporation processes in horizontal tube falling film evaporator. Applied Thermal Engineering, 2019, 162, 114103.	3.0	5
33	Numerical study on dynamic characteristics of double droplets impacting a super-hydrophobic tube with different impact velocities. International Journal of Computational Fluid Dynamics, 2019, 33, 222-233.	0.5	11
34	Heat transfer characteristics of in-tube steam condensation process under stratified flow. International Journal of Heat and Mass Transfer, 2019, 145, 118798.	2.5	4
35	Evolution and heat transfer after droplet impact on heated liquid film with vapor bubbles inside. Numerical Heat Transfer, Part B: Fundamentals, 2019, 76, 273-284.	0.6	6
36	Maximum Spreading for Liquid Drop Impacting on Solid Surface. Industrial & Engineering Chemistry Research, 2019, 58, 10053-10063.	1.8	23

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37	Two-phase heat transfer of multi-droplet impact on liquid film. International Journal of Heat and Mass Transfer, 2019, 139, 832-847.	2.5	31
38	Mathematical modeling and performance analysis for multi-effect evaporation/multi-effect evaporation with thermal vapor compression desalination system. Applied Thermal Engineering, 2019, 159, 113759.	3.0	35
39	Non-simultaneous impact of multiple droplets on liquid film. Numerical Heat Transfer; Part A: Applications, 2019, 75, 137-147.	1.2	11
40	Three-dimensional film thickness distribution of horizontal tube falling film with column flow. Applied Thermal Engineering, 2019, 154, 140-149.	3.0	48
41	Wave propagation on splat induced by liquid drop impingement. European Journal of Mechanics, B/Fluids, 2019, 76, 122-131.	1.2	2
42	Single-phase heat transfer of multi-droplet impact on liquid film. International Journal of Heat and Mass Transfer, 2019, 132, 288-292.	2.5	35
43	Successive impact of multiple droplets on liquid film. European Journal of Mechanics, B/Fluids, 2019, 74, 389-398.	1.2	35
44	High Temperature Steam Gasification of Corn Straw Pellets in Downdraft Gasifier: Preparation of Hydrogen-Rich Gas. Waste and Biomass Valorization, 2019, 10, 1333-1341.	1.8	10
45	3D numerical study of the liquid film distribution on the surface of a horizontal-tube falling-film evaporator. International Journal of Heat and Mass Transfer, 2018, 124, 943-952.	2.5	55
46	Simultaneous Impact of Multiple Droplets on Liquid Film. Journal of Industrial and Engineering Chemistry, 2018, 65, 51-61.	2.9	44
47	Analysis of heat transfer critical point in LT-MEE desalination plant. Desalination, 2018, 432, 64-71.	4.0	15
48	Critical dimensions of a large-scale falling film evaporator based on temperature difference loss. AIP Conference Proceedings, 2018, , .	0.3	0
49	Research progress of droplet impact on dry curve surfaces. AIP Conference Proceedings, 2018, , .	0.3	5
50	Spherical drop impact on solid surfaces: Un-damped oscillation theoretical model. AIP Conference Proceedings, 2018, , .	0.3	2
51	A numerical investigation of liquid film flow and film thickness distribution outside a horizontal tube. International Journal of Low-Carbon Technologies, 2018, 13, 424-431.	1.2	15
52	Numerical investigation of flow and heat transfer in the sub-channel of an SCWR core with split-vanes. International Journal of Low-Carbon Technologies, 2018, 13, 414-423.	1.2	0
53	Interaction between liquid drop with low impact momentum and heated wall. Acta Mechanica, 2018, 229, 4459-4470.	1.1	3
54	Experimental Studies on Heat Transfer Coefficients of Horizontal Tube Falling Film Evaporation With Seawater. Journal of Heat Transfer, 2017, 139, .	1.2	11

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55	Heat transfer characteristics of steam condensation flow in vacuum horizontal tube. International Journal of Heat and Mass Transfer, 2017, 108, 128-135.	2.5	13
56	Frictional pressure drop during steam stratified condensation flow in vacuum horizontal tube. International Journal of Heat and Mass Transfer, 2017, 115, 979-990.	2.5	13
57	Circumferential distribution of local heat transfer coefficient during steam stratified flow condensation in vacuum horizontal tube. International Journal of Heat and Mass Transfer, 2017, 114, 816-825.	2.5	18
58	Numerical research on the dynamic characteristics of a droplet impacting a hydrophobic tube. Physics of Fluids, 2017, 29, .	1.6	58
59	Numerical analysis and insight of drop impacting dynamics upon a liquid film. Acta Mechanica, 2017, 228, 385-400.	1.1	8
60	Crown and drop rebound on thin curved liquid films. International Journal of Heat and Mass Transfer, 2016, 98, 455-461.	2.5	13
61	Boiling from liquid drops impact on a heated wall. International Journal of Heat and Mass Transfer, 2016, 100, 48-57.	2.5	104
62	Flow and heat transfer during a single drop impact on a liquid film. Numerical Heat Transfer, Part B: Fundamentals, 2016, 69, 575-582.	0.6	26
63	Parametric distributions of a horizontal-tube falling film evaporator for desalination. Desalination and Water Treatment, 2016, 57, 11699-11711.	1.0	9
64	Contact vaporization of an impacting drop on heated surfaces. Experimental Thermal and Fluid Science, 2016, 74, 73-80.	1.5	40
65	Experimental study on overall heat transfer coefficient of seawater on three tube arrangements for horizontal-tube falling film evaporator. Desalination and Water Treatment, 2016, 57, 9993-10002.	1.0	8
66	An investigation on the falling film thickness of sheet flow over a completely wetted horizontal round tube surface. Desalination and Water Treatment, 2016, 57, 16277-16287.	1.0	3
67	Measurement on falling film thickness distribution around horizontal tube with laser-induced fluorescence technology. International Journal of Heat and Mass Transfer, 2015, 89, 707-713.	2.5	77
68	Numerical analysis on flow and heat transfer of a tube bundle in a horizontal-tube falling film evaporator. Desalination and Water Treatment, 2015, 55, 3336-3342.	1.0	3
69	Characterization of the microscopic mechanics in falling film evaporation outside a horizontal tube. Desalination and Water Treatment, 2015, 55, 3330-3335.	1.0	3
70	Experimental investigation on heat transfer in horizontal-tube falling-film evaporator. Desalination and Water Treatment, 2015, 56, 1440-1446.	1.0	6
71	Heat transfer characteristics of horizontal tube falling film evaporation for desalination. Desalination and Water Treatment, 2015, 55, 3343-3349.	1.0	13
72	Research for the adjustable performance of the thermal vapor compressor in the MED-TVC system. Desalination and Water Treatment, 2015, 53, 1725-1734.	1.0	3

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73	Numerical study of falling film thickness over fully wetted horizontal round tube. International Journal of Heat and Mass Transfer, 2015, 84, 893-897.	2.5	59
74	Thermal analysis of heat transfer performance in a horizontal tube bundle. Desalination and Water Treatment, 2015, 54, 1809-1818.	1.0	3
75	Effect of design parameters on thermodynamic losses of the heat transfer process in LT-MEE desalination plant. Desalination, 2015, 375, 40-47.	4.0	18
76	Three-dimensional heat transfer coefficient distributions in a large horizontal-tube falling film evaporator. Desalination, 2015, 357, 104-116.	4.0	25
77	Characteristic study of steam maldistribution in horizontal-tube falling film evaporators. Applied Thermal Engineering, 2015, 75, 635-647.	3.0	16
78	Gas Properties on Crown Behavior and Drop Coalescence. Numerical Heat Transfer, Part B: Fundamentals, 2014, 65, 537-553.	0.6	8
79	Rebound and spreading during a drop impact on wetted cylinders. Experimental Thermal and Fluid Science, 2014, 52, 97-103.	1.5	42
80	Experimental investigation of a drop impacting on wetted spheres. Experimental Thermal and Fluid Science, 2014, 55, 150-157.	1.5	37
81	Crown behavior and bubble entrainment during a drop impact on a liquid film. Theoretical and Computational Fluid Dynamics, 2014, 28, 159-170.	0.9	54
82	A study of a single liquid drop impact on inclined wetted surfaces. Acta Mechanica, 2014, 225, 3353-3363.	1.1	18
83	Release and transformation of alkali metals during co-combustion of coal and sulfur-rich wheat straw. Energy Conversion and Management, 2014, 83, 197-202.	4.4	81
84	Dynamic behaviors during a single liquid drop impact on a static drop located on spheres. Experimental Thermal and Fluid Science, 2014, 53, 244-250.	1.5	18
85	Liquid sheet behaviors during a drop impact on wetted cylindrical surfaces. International Communications in Heat and Mass Transfer, 2014, 54, 67-74.	2.9	27
86	Simulation of droplet impact on liquid film with CLSVOF. International Communications in Heat and Mass Transfer, 2014, 53, 26-33.	2.9	60
87	Special phenomena from a single liquid drop impact on wetted cylindrical surfaces. Experimental Thermal and Fluid Science, 2013, 51, 18-27.	1.5	78
88	Spreading and splashing during a single drop impact on an inclined wetted surface. Acta Mechanica, 2013, 224, 2993-3004.	1.1	49
89	Heat transfer performance and bundle-depth effect in horizontal-tube falling film evaporators. Desalination and Water Treatment, 2013, 51, 830-836.	1.0	33
90	Numerical investigation for the supersonic steam jetting flow in the thermal vapor compressor. Desalination and Water Treatment, 2013, 51, 4684-4693.	1.0	2

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91	Analysis of adjusting method for load performance of TVC-MED desalination plant. Desalination and Water Treatment, 2013, 51, 857-862.	1.0	4
92	The research on thermal and economic performance of solar desalination system with salinity-gradient solar pond. Desalination and Water Treatment, 2013, 51, 3735-3742.	1.0	6
93	The research on thermal and economic performance of solar desalination system with evacuated tube collectors. Desalination and Water Treatment, 2013, 51, 3728-3734.	1.0	9
94	Exergy analysis of a solar-assisted MED desalination experimental unit. Desalination and Water Treatment, 2013, 51, 1272-1278.	1.0	4
95	Performance analysis of mixed feed LT-MED desalination system with thermal vapor compressor. Desalination and Water Treatment, 2012, 42, 248-255.	1.0	2
96	Experimental study of falling film evaporation heat transfer coefficient on horizontal tube. Desalination and Water Treatment, 2012, 50, 310-316.	1.0	30
97	Experimental Investigation of Adjustable Ejector Performance. Journal of Energy Engineering - ASCE, 2012, 138, 125-129.	1.0	14
98	Simulation of droplets impact on curved surfaces with lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2012, 55, 6938-6943.	2.5	64
99	Comparative Study on Parallel Feed and Mixed Feed LT-MED Desalination Systems. , 2011, , .		1
100	Condensation character of a stratified flow inside a horizontal tube. Desalination and Water Treatment, 2011, 33, 218-223.	1.0	15
101	Thermodynamic performance of a low temperature multi-effect distillation experimental unit with horizontal-tube falling film evaporation. Desalination and Water Treatment, 2011, 33, 202-208.	1.0	9
102	The Analysis of Influence Factors on Sprinkle Density of Falling Film in Horizontal Tube Evaporator for Seawater Desalination. , 2011, , .		0
103	Study of steam parameters on the performance of a TVC-MED desalination plant. Desalination and Water Treatment, 2011, 33, 300-308.	1.0	19
104	Thermoeconomic analysis of a CHP-based dual-purpose power plant. Desalination and Water Treatment, 2010, 22, 371-378.	1.0	2
105	Thermal analysis of internal condensation process in a horizontal tube of falling film evaporation. Desalination and Water Treatment, 2010, 24, 101-108.	1.0	2
106	Performance Analysis of Water and Power Cogeneration System with Thermal Vapor Compressor. , 2010, , .		0
107	Numerical Investigation of Homogeneous Nucleation and Shock Effect in High-Speed Transonic Steam Flow. Heat Transfer Engineering, 2010, 31, 1007-1014.	1.2	7
108	Energy and exergy analysis of novel solar bi-ejector refrigeration system with injector. International Journal of Energy Research, 2009, 34, 815-826.	2.2	4

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109	Numerical and experimental investigation of heat and mass transfer in unsaturated porous media with low convective drying intensity. Heat Transfer - Asian Research, 2008, 37, 290-312.	2.8	10
110	Effect of operation parameters on performance of tubular solid oxide fuel cell. AIChE Journal, 2008, 54, 554-564.	1.8	23
111	Experimental study of falling film evaporation heat transfer outside horizontal tubes. Desalination, 2008, 220, 654-660.	4.0	71
112	Analysis of energy utilization coefficient in heat, power and gas cogeneration system. International Journal of Low-Carbon Technologies, 2008, 3, 139-146.	1.2	0
113	Assessment of energy requirement for water production at dual-purpose plants in China. Desalination, 2007, 205, 214-223.	4.0	13
114	Numerical and experimental investigation of convective drying in unsaturated porous media with bound water. Heat and Mass Transfer, 2005, 41, 1103-1111.	1.2	22
115	Comparative performance evaluation of LT-MEE desalination systems with three feed configurations. , 0, 69, 217-228.		4