Shangsheng Feng

List of Publications by Year
in descending order

29	1,754	516710 16	477307 29
papers	citations	h-index	g-index

30	30	30	2264
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioinspired engineering of honeycomb structure â€“ Using nature to inspire human innovation. Progress in Materials Science, 2015, 74, 332-400.	32.8	501
2	An integrated paper-based sample-to-answer biosensor for nucleic acid testing at the point of care. Lab on A Chip, 2016, 16, 611-621.	6.0	247
3	Pore-scale and volume-averaged numerical simulations of melting phase change heat transfer in finned metal foam. International Journal of Heat and Mass Transfer, 2015, 90, 838-847.	4.8	142
4	Ultrafast Photonic PCR Based on Photothermal Nanomaterials. Trends in Biotechnology, 2020, 38, 637-649.	9.3	96
5	Polydimethylsiloxane-Paper Hybrid Lateral Flow Assay for Highly Sensitive Point-of-Care Nucleic Acid Testing. Analytical Chemistry, 2016, 88, 6254-6264.	6.5	93
6	Natural convection in a cross-fin heat sink. Applied Thermal Engineering, 2018, 132, 30-37.	6.0	89
7	An integrated lateral flow assay for effective DNA amplification and detection at the point of care. Analyst, The, 2016, 141, 2930-2939.	3.5	80
8	Improved sensitivity of lateral flow assay using paper-based sample concentration technique. Talanta, 2016, 152, 269-276.	5.5	79
9	Sensitive biomolecule detection in lateral flow assay with a portable temperatureâ€“humidity control device. Biosensors and Bioelectronics, 2016, 79, 98-107.	10.1	75
10	Spatially modulated stiffness on hydrogels for soft and stretchable integrated electronics. Materials Horizons, 2020, 7, 203-213.	12.2	70
11	Natural convection in metal foam heat sinks with open slots. Experimental Thermal and Fluid Science, 2018, 91, 354-362.	2.7	37
12	Coarse-grained molecular dynamics studies of the translocation mechanism of polyarginines across asymmetric membrane under tension. Scientific Reports, 2015, 5, 12808.	3.3	34
13	Microstructural effects on permeability of Nitrocellulose membranes for biomedical applications. Journal of Membrane Science, 2020, 595, 117502.	8.2	34
14	Nitrocellulose Membrane for Paper-based Biosensor. Applied Materials Today, 2022, 26, 101305.	4.3	33
15	High-Throughput Non-Contact Vitrification of Cell-Laden Droplets Based on Cell Printing. Scientific Reports, 2015, 5, 17928.	3.3	26
16	The effect of report particle properties on lateral flow assays: A mathematical model. Sensors and Actuators B: Chemical, 2017, 248, 699-707.	7.8	22
17	Quantifying and Adjusting Plasmonâ€Driven Nanoâ€Localized Temperature Field around Gold Nanorods for Nucleic Acids Amplification. Small Methods, 2021, 5, 2001254.	8.6	14
18	Self-Propelled Hovercraft Based on Cold Leidenfrost Phenomenon. Scientific Reports, 2016, 6, 28574.	3.3	13

#	Article	IF	Citations
19	Paper-based capacitive sensors for identification and quantification of chemicals at the point of care. Talanta, 2017, 165, 419-428.	5.5	12
20	Optimum composition of gas mixture in a novel chimney-based LED bulb. International Journal of Heat and Mass Transfer, 2017, 115, 32-42.	4.8	9
21	Forced convection in additively manufactured sandwich-walled cylinders with thermo-mechanical multifunctionality. International Journal of Heat and Mass Transfer, 2020, 149, 119161.	4.8	8
22	Evaporation-Induced Diffusion Acceleration in Liquid-Filled Porous Materials. ACS Omega, 2021, 6, 21646-21654.	3.5	8
23	Droplet based vitrification for cell aggregates: Numerical analysis. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 383-393.	3.1	7
24	Janus Vitrification of Droplet via Cold Leidenfrost Phenomenon. Small, 2021, 17, e2007325.	10.0	7
25	Out-of-plane compression of a novel hybrid corrugated core sandwich panel. Composite Structures, 2021, 272, 114222.	5.8	7
26	Heat transfer efficiency of hierarchical corrugated sandwich panels. Composite Structures, 2021, 272, 114195.	5.8	5
27	Fountain streaming contributes to fast tip-growth through regulating the gradients of turgor pressure and concentration in pollen tubes. Soft Matter, 2017, 13, 2919-2927.	2.7	3
28	Ball pen writing-without-ink: a truly simple and accessible method for sensitivity enhancement in lateral flow assays. RSC Advances, 2022, 12, 2068-2073.	3.6	2
29	Janus Particles: Janus Vitrification of Droplet via Cold Leidenfrost Phenomenon (Small 17/2021). Small, 2021, 17, 2170075.	10.0	0