Hyoungsoo Kim

List of Publications by Year
in descending order

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		331670	276875
51	1,759	21	41
papers	citations	h-index	g-index

62	62	62	2663
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	3D Printed Quantum Dot Light-Emitting Diodes. Nano Letters, 2014, 14, 7017-7023.	9.1	371
2	Controlled Uniform Coating from the Interplay of Marangoni Flows and Surface-Adsorbed Macromolecules. Physical Review Letters, 2016, 116, 124501.	7.8	231
3	Viscoplastic Matrix Materials for Embedded 3D Printing. ACS Applied Materials & Interfaces, 2018, 10, 23353-23361.	8.0	167
4	Highly efficient oxygen evolution reaction via facile bubble transport realized by three-dimensionally stack-printed catalysts. Nature Communications, 2020, 11, 4921.	12.8	93
5	Solutal Marangoni flows of miscible liquids drive transport without surface contamination. Nature Physics, 2017, 13, 1105-1110.	16.7	85
6	Controlling Viscous Fingering Using Time-Dependent Strategies. Physical Review Letters, 2015, 115, 174501.	7.8	76
7	In-droplet microparticle washing and enrichment using surface acoustic wave-driven acoustic radiation force. Lab on A Chip, 2018, 18, 2936-2945.	6.0	43
8	A soft microchannel decreases polydispersity of droplet generation. Lab on A Chip, 2014, 14, 4029-4034.	6.0	41
9	Impulsively Induced Jets from Viscoelastic Films for High-Resolution Printing. Physical Review Letters, 2018, 120, 074501.	7.8	40
10	Direct measurement of selective evaporation of binary mixture droplets by dissolving materials. Journal of Fluid Mechanics, 2018, 850, 769-783.	3.4	40
11	Microstructure arrays of DNA using topographic control. Nature Communications, 2019, 10, 2512.	12.8	36
12	Curvature suppresses the Rayleigh-Taylor instability. Physics of Fluids, 2014, 26, .	4.0	33
13	Spontaneous Marangoni Mixing of Miscible Liquids at a Liquidâ€“Liquidâ€“Air Contact Line. Langmuir, 2015, 31, 8726-8731.	3.5	33
14	Control of solutal Marangoni-driven vortical flows and enhancement of mixing efficiency. Journal of Colloid and Interface Science, 2020, 561, 408-415.	9.4	31
15	Full 3D-3C velocity measurement inside a liquid immersion droplet. Experiments in Fluids, 2011, 51, 395-405.	2.4	30
16	Deposition of Colloidal Drops Containing Ellipsoidal Particles: Competition between Capillary and Hydrodynamic Forces. Langmuir, 2016, 32, 11899-11906.	3.5	29
17	Comparison of Tomo-PIV and 3D-PTV for microfluidic flows. Measurement Science and Technology, 2013, 24, 024007.	2.6	28
18	Thermal control of electroosmotic flow in a microchannel through temperature-dependent properties. Journal of Colloid and Interface Science, 2009, 335, 123-129.	9.4	26

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19	Multimodal breakup of a double emulsion droplet under an electric field. Soft Matter, 2019, 15, 2292-2300.	2.7	25
20	Dynamics of a bubble bouncing at a liquid/liquid/gas interface. Journal of Fluid Mechanics, 2016, 807, 324-352.	3.4	24
21	Three-dimensional particle tracking velocimetry using shallow neural network for real-time analysis. Experiments in Fluids, 2020, 61, 1.	2.4	23
22	Laboratory layered latte. Nature Communications, 2017, 8, 1960.	12.8	20
23	Deposition of Quantum Dots in a Capillary Tube. Langmuir, 2015, 31, 12560-12566.	3.5	18
24	Mono-emulsion droplet stretching under direct current electric field. Soft Matter, 2019, 15, 2328-2335.	2.7	17
25	Controlling uniform patterns by evaporation of multi-component liquid droplets in a confined geometry. Soft Matter, 2021, 17, 3578-3585.	2.7	17
26	Fabrication of Chiral M13 Bacteriophage Film by Evaporationâ€Induced Selfâ€Assembly. Small, 2021, 17, e2008097.	10.0	16
27	Contact Line Instability Caused by Air Rim Formation under Nonsplashing Droplets. Langmuir, 2018, 34, 4962-4969.	3.5	15
28	Selfâ€Induced Solutal Marangoni Flows Realize Coffeeâ€Ringâ€Less Quantum Dot Microarrays with Extensive Geometric Tunability and Scalability. Advanced Science, 2022, 9, e2104519.	11.2	15
29	Resin impregnation and interfacial adhesion behaviors in carbon fiber/epoxy composites: Effects of polymer slip and normalized surface free energy with respect to the sizing agents. Composites Part A: Applied Science and Manufacturing, 2021, 146, 106424.	7.6	14
30	Uniform Coating of Self-Assembled Noniridescent Colloidal Nanostructures using the Marangoni Effect and Polymers. Physical Review Applied, 2018, 10, .	3.8	13
31	Orientation Control of Semiconducting Polymers Using Microchannel Molds. ACS Nano, 2020, 14, 12951-12961.	14.6	13
32	Analysis of vapor-driven solutal Marangoni flows inside a sessile droplet. International Journal of Heat and Mass Transfer, 2021, 164, 120499.	4.8	11
33	Phase synchronization of fluid-fluid interfaces as hydrodynamically coupled oscillators. Nature Communications, 2020, 11, 5221.	12.8	10
34	Symmetry breaking of Worthington jets by gradients in liquid pool depth. Physics of Fluids, 2020, 32, .	4.0	9
35	Experimental and theoretical study of dewetting corner flow. Journal of Fluid Mechanics, 2015, 762, 393-416.	3.4	8
36	Rivulet flow over a flexible beam. Journal of Fluid Mechanics, 2016, 796, 285-305.	3.4	8

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37	Polymer micro-atomizer for water electrospray in the cone jet mode. Polymer, 2020, 194, 122405.	3.8	7
38	Evaporation and deposition of inclined colloidal droplets. Scientific Reports, 2021, 11, 17784.	3.3	7
39	Interfacial properties of liquid metal immersed in various liquids. Journal of Colloid and Interface Science, 2022, 621, 285-294.	9.4	7
40	Noncircular Stable Displacement Patterns in a Meshed Porous Layer. Langmuir, 2015, 31, 5684-5688.	3.5	6
41	Crystal capillary origami capsule with self-assembled nanostructures. Nanoscale, 2021, 13, 14656-14665.	5.6	4
42	Vapor Absorption and Marangoni Flows in Evaporating Drops. Langmuir, 2022, 38, 2185-2191.	3.5	4
43	Non-uniformly receding contact line breaks axisymmetric flow patterns. European Physical Journal: Special Topics, 2020, 229, 1771-1784.	2.6	3
44	From an elongated cavity to funnel by the impact of a drop train. Journal of Fluid Mechanics, 2021, 921, .	3.4	3
45	Characterization of vortical structures in T-shaped branches depending on shear-thinning. Physics of Fluids, 2021, 33, 033107.	4.0	2
46	Controlled nucleation in evaporative crystallization using confined- vapor driven solutal Marangoni effect. Soft Matter, 2022, , .	2.7	2
47	Tomographic PIV measurement of internal complex flow of an evaporating droplet with non-uniformly receding contact lines. Journal of the Korean Society of Visualization, 2016, 14, 31-39.	0.1	1
48	Real-Time Visualization of Scent Accumulation Reveals the Frequency of Floral Scent Emissions. Frontiers in Plant Science, 2022, 13, 835305.	3.6	1
49	Fluidâ€“Matrix Interface Triggers a Heterogeneous Activation of Macrophages. ACS Applied Bio Materials, 2020, 3, 4294-4301.	4.6	0
50	M13 Bacteriophage: Fabrication of Chiral M13 Bacteriophage Film by Evaporationâ€Induced Selfâ€Assembly (Small 26/2021). Small, 2021, 17, 2170133.	10.0	0
51	10.1063/5.0028067.2. , 2020, , .		0