

# Hyoungsoo Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,759  
citations

331670

21  
h-index

276875

41  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2663  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vapor Absorption and Marangoni Flows in Evaporating Drops. <i>Langmuir</i> , 2022, 38, 2185-2191.	3.5	4
2	Self-Induced Solutal Marangoni Flows Realize Coffee-Ring-Less Quantum Dot Microarrays with Extensive Geometric Tunability and Scalability. <i>Advanced Science</i> , 2022, 9, e2104519.	11.2	15
3	Real-Time Visualization of Scent Accumulation Reveals the Frequency of Floral Scent Emissions. <i>Frontiers in Plant Science</i> , 2022, 13, 835305.	3.6	1
4	Interfacial properties of liquid metal immersed in various liquids. <i>Journal of Colloid and Interface Science</i> , 2022, 621, 285-294.	9.4	7
5	Controlled nucleation in evaporative crystallization using confined- vapor driven solutal Marangoni effect. <i>Soft Matter</i> , 2022, , .	2.7	2
6	Analysis of vapor-driven solutal Marangoni flows inside a sessile droplet. <i>International Journal of Heat and Mass Transfer</i> , 2021, 164, 120499.	4.8	11
7	Crystal capillary origami capsule with self-assembled nanostructures. <i>Nanoscale</i> , 2021, 13, 14656-14665.	5.6	4
8	Controlling uniform patterns by evaporation of multi-component liquid droplets in a confined geometry. <i>Soft Matter</i> , 2021, 17, 3578-3585.	2.7	17
9	Characterization of vortical structures in T-shaped branches depending on shear-thinning. <i>Physics of Fluids</i> , 2021, 33, 033107.	4.0	2
10	Fabrication of Chiral M13 Bacteriophage Film by Evaporation-Induced Self-Assembly. <i>Small</i> , 2021, 17, e2008097.	10.0	16
11	From an elongated cavity to funnel by the impact of a drop train. <i>Journal of Fluid Mechanics</i> , 2021, 921, .	3.4	3
12	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. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 146, 106424.	7.6	14
13	M13 Bacteriophage: Fabrication of Chiral M13 Bacteriophage Film by Evaporation-Induced Self-Assembly (Small 26/2021). <i>Small</i> , 2021, 17, 2170133.	10.0	0
14	Evaporation and deposition of inclined colloidal droplets. <i>Scientific Reports</i> , 2021, 11, 17784.	3.3	7
15	Control of solutal Marangoni-driven vortical flows and enhancement of mixing efficiency. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 408-415.	9.4	31
16	Orientation Control of Semiconducting Polymers Using Microchannel Molds. <i>ACS Nano</i> , 2020, 14, 12951-12961.	14.6	13
17	Non-uniformly receding contact line breaks axisymmetric flow patterns. <i>European Physical Journal: Special Topics</i> , 2020, 229, 1771-1784.	2.6	3
18	Symmetry breaking of Worthington jets by gradients in liquid pool depth. <i>Physics of Fluids</i> , 2020, 32, .	4.0	9

#	ARTICLE	IF	CITATIONS
19	Phase synchronization of fluid-fluid interfaces as hydrodynamically coupled oscillators. Nature Communications, 2020, 11, 5221.	12.8	10
20	Fluidâ€“Matrix Interface Triggers a Heterogeneous Activation of Macrophages. ACS Applied Bio Materials, 2020, 3, 4294-4301.	4.6	0
21	Polymer micro-atomizer for water electrospray in the cone jet mode. Polymer, 2020, 194, 122405.	3.8	7
22	Three-dimensional particle tracking velocimetry using shallow neural network for real-time analysis. Experiments in Fluids, 2020, 61, 1.	2.4	23
23	Highly efficient oxygen evolution reaction via facile bubble transport realized by three-dimensionally stack-printed catalysts. Nature Communications, 2020, 11, 4921.	12.8	93
24	10.1063/5.0028067.2. , 2020, , .		0
25	Mono-emulsion droplet stretching under direct current electric field. Soft Matter, 2019, 15, 2328-2335.	2.7	17
26	Microstructure arrays of DNA using topographic control. Nature Communications, 2019, 10, 2512.	12.8	36
27	Multimodal breakup of a double emulsion droplet under an electric field. Soft Matter, 2019, 15, 2292-2300.	2.7	25
28	Viscoplastic Matrix Materials for Embedded 3D Printing. ACS Applied Materials & Interfaces, 2018, 10, 23353-23361.	8.0	167
29	Contact Line Instability Caused by Air Rim Formation under Nonsplashing Droplets. Langmuir, 2018, 34, 4962-4969.	3.5	15
30	Impulsively Induced Jets from Viscoelastic Films for High-Resolution Printing. Physical Review Letters, 2018, 120, 074501.	7.8	40
31	Uniform Coating of Self-Assembled Noniridescent Colloidal Nanostructures using the Marangoni Effect and Polymers. Physical Review Applied, 2018, 10, .	3.8	13
32	Direct measurement of selective evaporation of binary mixture droplets by dissolving materials. Journal of Fluid Mechanics, 2018, 850, 769-783.	3.4	40
33	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
34	Solutal Marangoni flows of miscible liquids drive transport without surface contamination. Nature Physics, 2017, 13, 1105-1110.	16.7	85
35	Laboratory layered latte. Nature Communications, 2017, 8, 1960.	12.8	20
36	Dynamics of a bubble bouncing at a liquid/liquid/gas interface. Journal of Fluid Mechanics, 2016, 807, 324-352.	3.4	24

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37	Rivulet flow over a flexible beam. <i>Journal of Fluid Mechanics</i> , 2016, 796, 285-305.	3.4	8
38	Deposition of Colloidal Drops Containing Ellipsoidal Particles: Competition between Capillary and Hydrodynamic Forces. <i>Langmuir</i> , 2016, 32, 11899-11906.	3.5	29
39	Controlled Uniform Coating from the Interplay of Marangoni Flows and Surface-Adsorbed Macromolecules. <i>Physical Review Letters</i> , 2016, 116, 124501.	7.8	231
40	Tomographic PIV measurement of internal complex flow of an evaporating droplet with non-uniformly receding contact lines. <i>Journal of the Korean Society of Visualization</i> , 2016, 14, 31-39.	0.1	1
41	Controlling Viscous Fingering Using Time-Dependent Strategies. <i>Physical Review Letters</i> , 2015, 115, 174501.	7.8	76
42	Deposition of Quantum Dots in a Capillary Tube. <i>Langmuir</i> , 2015, 31, 12560-12566.	3.5	18
43	Noncircular Stable Displacement Patterns in a Meshed Porous Layer. <i>Langmuir</i> , 2015, 31, 5684-5688.	3.5	6
44	Spontaneous Marangoni Mixing of Miscible Liquids at a Liquid-Liquid-Air Contact Line. <i>Langmuir</i> , 2015, 31, 8726-8731.	3.5	33
45	Experimental and theoretical study of dewetting corner flow. <i>Journal of Fluid Mechanics</i> , 2015, 762, 393-416.	3.4	8
46	Curvature suppresses the Rayleigh-Taylor instability. <i>Physics of Fluids</i> , 2014, 26, .	4.0	33
47	A soft microchannel decreases polydispersity of droplet generation. <i>Lab on A Chip</i> , 2014, 14, 4029-4034.	6.0	41
48	3D Printed Quantum Dot Light-Emitting Diodes. <i>Nano Letters</i> , 2014, 14, 7017-7023.	9.1	371
49	Comparison of Tomo-PIV and 3D-PTV for microfluidic flows. <i>Measurement Science and Technology</i> , 2013, 24, 024007.	2.6	28
50	Full 3D-3C velocity measurement inside a liquid immersion droplet. <i>Experiments in Fluids</i> , 2011, 51, 395-405.	2.4	30
51	Thermal control of electroosmotic flow in a microchannel through temperature-dependent properties. <i>Journal of Colloid and Interface Science</i> , 2009, 335, 123-129.	9.4	26